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ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Dolginko
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia NY 11749

Generated 2/11/2026 9:41 AM

JOB DESCRIPTION

Sea Park North - 2828 W 28th Street

JOB NUMBER

460-344047-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

my EOL

Eurofins Edison

Job Notes

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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



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Job Narrative
460-344047-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 1/29/2026 7:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

Receipt Exceptions
All backup containers for water samples received for 1633 PFAS analysis were frozen after receipt. RXSB-19 (0-2)_P (460-344047-1), RXSB-19 (6-8)_P (460-344047-2), RXSB-16 (0-2)_P (460-344047-3), RXSB-16 (6-8)_P (460-344047-4), RXSB-17 (6-8)_P (460-344047-5), DUP_012926 (460-344047-6) and FB_012926_P (460-344047-7)

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No TAT recorded on the COC. Sample #7 (FB) is listed incorrectly on the COC as a Solid.

Method 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A
Samples RXSB-19 (0-2)_P (460-344047-1), RXSB-19 (6-8)_P (460-344047-2), RXSB-16 (0-2)_P (460-344047-3), RXSB-16 (6-8)_P (460-344047-4), RXSB-17 (6-8)_P (460-344047-5), DUP_012926 (460-344047-6) and FB_012926_P (460-344047-7) were analyzed for Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A. The samples were prepared on 2/2/2026, 2/3/2026 and 2/5/2026 and analyzed on 2/2/2026, 2/4/2026 and 2/5/2026.

The recovery for the labeled isotope(s) d7-N-MeFOSE-M and d9-N-EtFOSE-M in the laboratory control spike samples associated with the following samples: RXSB-19 (0-2)_P (460-344047-1), RXSB-19 (6-8)_P (460-344047-2), RXSB-16 (0-2)_P (460-344047-3), RXSB-16 (6-8)_P (460-344047-4), RXSB-17 (6-8)_P (460-344047-5) and DUP_012926 (460-344047-6) is outside the QC acceptance limits. The following action was taken: This sample(s) was re-extracted within the required holding time and the recovery for the labeled isotope(s) in the re-extracted laboratory control spike sample(s) is again outside the QC acceptance limits.

The recovery for the labeled isotope(s) 13C2 4:2 FTS in the following sample: RXSB-16 (0-2)_P (460-344047-3) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the sample, the data is reported.

The recovery for labeled isotope(s) d7-N-MeFOSE-M and d9-N-EtFOSE-M were outside QC acceptance criteria in sample RXSB-19 (6-8)_P (460-344047-2). Since the labeled isotope recoveries were greater than or equal to 5% and the signal to noise was greater than 10:1, therefore, the data is reported.

The method blank labeled isotope(s) d5-NEtFOSAA recovery associated with sample: FB_012926_P (460-344047-7) is outside the QC acceptance limits. Since the recovery for target analytes is within the limits, the data is reported.

Method Moisture - Percent Moisture
Samples RXSB-19 (0-2)_P (460-344047-1), RXSB-19 (6-8)_P (460-344047-2), RXSB-16 (0-2)_P (460-344047-3), RXSB-16 (6-8)_P (460-344047-4), RXSB-17 (6-8)_P (460-344047-5) and DUP_012926 (460-344047-6) were analyzed for Percent Moisture. The samples were analyzed on 2/2/2026.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-344047-1
Project/Site: Sea Park North - 2828 W 28th Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
460-344047-1	RXSB-19 (0-2)_P	Solid	01/29/26 09:45	01/29/26 19:45	New York
460-344047-2	RXSB-19 (6-8)_P	Solid	01/29/26 10:20	01/29/26 19:45	New York
460-344047-3	RXSB-16 (0-2)_P	Solid	01/29/26 12:00	01/29/26 19:45	New York
460-344047-4	RXSB-16 (6-8)_P	Solid	01/29/26 12:20	01/29/26 19:45	New York
460-344047-5	RXSB-17 (6-8)_P	Solid	01/29/26 13:40	01/29/26 19:45	New York
460-344047-6	DUP_012926	Solid	01/29/26 11:00	01/29/26 19:45	New York
460-344047-7	FB_012926_P	Water	01/29/26 15:00	01/29/26 19:45	New York

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-344047-1
Project/Site: Sea Park North - 2828 W 28th Street

Client Sample ID: RXSB-19 (0-2)_P — Lab Sample ID: 460-344047-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.15	J	0.20	0.059	ug/Kg	1	☼	1633A	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.27		0.20	0.098	ug/Kg	1	☼	1633A	Total/NA

Client Sample ID: RXSB-19 (6-8)_P — Lab Sample ID: 460-344047-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.31	J	0.40	0.20	ug/Kg	1	☼	1633A	Total/NA

Client Sample ID: RXSB-16 (0-2)_P — Lab Sample ID: 460-344047-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.42		0.20	0.099	ug/Kg	1	☼	1633A	Total/NA

Client Sample ID: RXSB-16 (6-8)_P — Lab Sample ID: 460-344047-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.15	J	0.19	0.096	ug/Kg	1	☼	1633A	Total/NA

Client Sample ID: RXSB-17 (6-8)_P — Lab Sample ID: 460-344047-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.13	J	0.38	0.11	ug/Kg	1	☼	1633A	Total/NA

Client Sample ID: DUP_012926 — Lab Sample ID: 460-344047-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.33	J	0.39	0.20	ug/Kg	1	☼	1633A	Total/NA

Client Sample ID: FB_012926_P — Lab Sample ID: 460-344047-7

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-344047-1
Project/Site: Sea Park North - 2828 W 28th Street

Method	Method Description	Protocol	Laboratory
1633A	Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
1633A	Shake Extraction with SPE	EPA	ELLE
1633A	Solid-Phase Extraction (SPE)	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client Sample ID: RXSB-19 (0-2)_P
Lab Sample ID: 460-344047-1

Date Collected: 01/29/26 09:45
Matrix: Solid

Date Received: 01/29/26 19:45
Percent Solids: 88.7

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.39	U	0.39	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorooctanoic acid (PFOA)	**0.15**	**J**	0.20	0.059	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.059	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorooctanesulfonic acid (PFOS)	**0.27**		0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.98	U	0.98	0.49	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.98	U	0.98	0.49	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1

Client Sample ID: RXSB-19 (0-2)_P
Lab Sample ID: 460-344047-1

Date Collected: 01/29/26 09:45
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 88.7

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.20	U	0.20	0.098	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.98	U	0.98	0.49	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.98	U	0.98	0.49	ug/Kg	☼	02/05/26 10:14	02/05/26 20:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*64.4*		*8 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C5 PFPeA	*59.3*		*35 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C5 PFHxA	*54.6*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C4 PFHpA	*57.9*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C8 PFOA	*58.8*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C9 PFNA	*52.8*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C6 PFDA	*57.2*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C7 PFUnA	*59.0*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C2 PFTeDA	*49.5*		*20 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C3 PFBS	*57.7*		*40 - 135*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C3 PFHxS	*55.9*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C8 PFOS	*57.5*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C8 FOSA	*51.5*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
d3-NMeFOSAA	*54.6*		*40 - 135*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
d5-NEtFOSAA	*57.0*		*40 - 150*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C2 4:2 FTS	*141*		*40 - 165*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C2 6:2 FTS	*144*		*40 - 215*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C2 8:2 FTS	*104*		*40 - 275*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C3 HFPO-DA	*54.8*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
d7-N-MeFOSE-M	*21.1*		*20 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
d9-N-EtFOSE-M	*16.8*		*15 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
d5-NEtPFOSA	*39.1*		*10 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
d3-NMePFOSA	*43.3*		*10 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*
13C2 PFDoA	*58.8*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:45*	*1*

Client Sample ID: RXSB-19 (6-8)_P
Lab Sample ID: 460-344047-2

Date Collected: 01/29/26 10:20
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 86.2

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.79	U	0.79	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorohexanoic acid (PFHxA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluoroheptanoic acid (PFHpA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorooctanoic acid (PFOA)	0.40	U	0.40	0.12	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorononanoic acid (PFNA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorodecanoic acid (PFDA)	0.40	U	0.40	0.12	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluoroundecanoic acid (PFUnA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorododecanoic acid (PFDoA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1

Client Sample ID: RXSB-19 (6-8)_P
Date Collected: 01/29/26 10:20
Date Received: 01/29/26 19:45

Lab Sample ID: 460-344047-2
Matrix: Solid
Percent Solids: 86.2

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorotetradecanoic acid (PFTeDA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorobutanesulfonic acid (PFBS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluoroheptanesulfonic acid (PFHpS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorooctanesulfonic acid (PFOS)	**0.31**	**J**	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorononanesulfonic acid (PFNS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorodecanesulfonic acid (PFDS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorododecanesulfonic acid (PFDoS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.79	U	0.79	0.40	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.79	U	0.79	0.40	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.79	U	0.79	0.40	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluorooctanesulfonamide (PFOSA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.98	U	1.98	0.99	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.98	U	1.98	0.99	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.79	U	0.79	0.40	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.98	U	1.98	0.99	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.98	U	1.98	0.99	ug/Kg	☼	02/05/26 10:14	02/05/26 20:59	1

Client Sample ID: RXSB-19 (6-8)_P
Lab Sample ID: 460-344047-2

Date Collected: 01/29/26 10:20
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 86.2

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	79.6		8 - 130	02/05/26 10:14	02/05/26 20:59	1
13C5 PFPeA	79.3		35 - 130	02/05/26 10:14	02/05/26 20:59	1
13C5 PFHxA	78.9		40 - 130	02/05/26 10:14	02/05/26 20:59	1
13C4 PFHpA	83.2		40 - 130	02/05/26 10:14	02/05/26 20:59	1
13C8 PFOA	77.6		40 - 130	02/05/26 10:14	02/05/26 20:59	1
13C9 PFNA	79.7		40 - 130	02/05/26 10:14	02/05/26 20:59	1
13C6 PFDA	77.6		40 - 130	02/05/26 10:14	02/05/26 20:59	1
13C7 PFUnA	82.8		40 - 130	02/05/26 10:14	02/05/26 20:59	1
13C2 PFTeDA	62.2		20 - 130	02/05/26 10:14	02/05/26 20:59	1
13C3 PFBS	80.3		40 - 135	02/05/26 10:14	02/05/26 20:59	1
13C3 PFHxS	85.7		40 - 130	02/05/26 10:14	02/05/26 20:59	1
13C8 PFOS	76.9		40 - 130	02/05/26 10:14	02/05/26 20:59	1
13C8 FOSA	70.2		40 - 130	02/05/26 10:14	02/05/26 20:59	1
d3-NMeFOSAA	63.2		40 - 135	02/05/26 10:14	02/05/26 20:59	1
d5-NEtFOSAA	58.6		40 - 150	02/05/26 10:14	02/05/26 20:59	1
13C2 4:2 FTS	73.9		40 - 165	02/05/26 10:14	02/05/26 20:59	1
13C2 6:2 FTS	80.5		40 - 215	02/05/26 10:14	02/05/26 20:59	1
13C2 8:2 FTS	67.4		40 - 275	02/05/26 10:14	02/05/26 20:59	1
13C3 HFPO-DA	81.9		40 - 130	02/05/26 10:14	02/05/26 20:59	1
d7-N-MeFOSE-M	12.3	*	20 - 130	02/05/26 10:14	02/05/26 20:59	1
d9-N-EtFOSE-M	5.95	*	15 - 130	02/05/26 10:14	02/05/26 20:59	1
d5-NEtPFOSA	46.6		10 - 130	02/05/26 10:14	02/05/26 20:59	1
d3-NMePFOSA	49.6		10 - 130	02/05/26 10:14	02/05/26 20:59	1
13C2 PFDoA	76.0		40 - 130	02/05/26 10:14	02/05/26 20:59	1

Client Sample ID: RXSB-16 (0-2)_P
Lab Sample ID: 460-344047-3

Date Collected: 01/29/26 12:00
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 93.4

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.40	U	0.40	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.059	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.059	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorooctanesulfonic acid (PFOS)	**0.42**		0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1

Client Sample ID: RXSB-16 (0-2)_P
Date Collected: 01/29/26 12:00
Date Received: 01/29/26 19:45

Lab Sample ID: 460-344047-3
Matrix: Solid
Percent Solids: 93.4

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.99	U	0.99	0.50	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.99	U	0.99	0.50	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.20	U	0.20	0.099	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.40	U	0.40	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.99	U	0.99	0.50	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.99	U	0.99	0.50	ug/Kg	☼	02/05/26 10:14	02/05/26 21:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85.4*		*8 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C5 PFPeA	*83.2*		*35 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C5 PFHxA	*84.6*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C4 PFHpA	*85.4*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C8 PFOA	*87.2*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C9 PFNA	*82.1*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C6 PFDA	*85.7*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C7 PFUnA	*78.2*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C2 PFTeDA	*57.5*		*20 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C3 PFBS	*85.3*		*40 - 135*	*02/05/26 10:14*	*02/05/26 21:12*	*1*

Client Sample ID: RXSB-16 (0-2)_P

Lab Sample ID: 460-344047-3
Date Collected: 01/29/26 12:00
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 93.4

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 PFHxS	*83.9*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C8 PFOS	*82.0*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C8 FOSA	*84.8*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
d3-NMeFOSAA	*80.5*		*40 - 135*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
d5-NEtFOSAA	*76.7*		*40 - 150*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C2 4:2 FTS	*194*	*	*40 - 165*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C2 6:2 FTS	*175*		*40 - 215*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C2 8:2 FTS	*129*		*40 - 275*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C3 HFPO-DA	*75.3*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
d7-N-MeFOSE-M	*35.8*		*20 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
d9-N-EtFOSE-M	*31.1*		*15 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
d5-NEtPFOSA	*59.2*		*10 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
d3-NMePFOSA	*64.2*		*10 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*
13C2 PFDoA	*73.1*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:12*	*1*

Client Sample ID: RXSB-16 (6-8)_P

Lab Sample ID: 460-344047-4
Date Collected: 01/29/26 12:20
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 91.4

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.39	U	0.39	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluoropentanoic acid (PFPeA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.058	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.058	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorooctanesulfonic acid (PFOS)	**0.15**	**J**	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.39	U	0.39	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.39	U	0.39	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.39	U	0.39	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1

Client Sample ID: RXSB-16 (6-8)_P
Date Collected: 01/29/26 12:20
Date Received: 01/29/26 19:45

Lab Sample ID: 460-344047-4
Matrix: Solid
Percent Solids: 91.4

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.96	U	0.96	0.48	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.96	U	0.96	0.48	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.19	U	0.19	0.096	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.39	U	0.39	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.96	U	0.96	0.48	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.96	U	0.96	0.48	ug/Kg	☼	02/05/26 10:14	02/05/26 21:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*71.6*		*8 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C5 PFPeA	*66.5*		*35 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C5 PFHxA	*62.9*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C4 PFHpA	*66.4*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C8 PFOA	*54.8*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C9 PFNA	*49.5*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C6 PFDA	*51.5*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C7 PFUnA	*56.2*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C2 PFTeDA	*53.0*		*20 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C3 PFBS	*67.8*		*40 - 135*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C3 PFHxS	*58.4*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C8 PFOS	*55.3*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C8 FOSA	*43.3*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
d3-NMeFOSAA	*42.0*		*40 - 135*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
d5-NEtFOSAA	*42.2*		*40 - 150*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C2 4:2 FTS	*101*		*40 - 165*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C2 6:2 FTS	*58.7*		*40 - 215*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C2 8:2 FTS	*45.6*		*40 - 275*	*02/05/26 10:14*	*02/05/26 21:26*	*1*

Client Sample ID: RXSB-16 (6-8)_P
Lab Sample ID: 460-344047-4
Date Collected: 01/29/26 12:20
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 91.4

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*62.1*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
d7-N-MeFOSE-M	*22.8*		*20 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
d9-N-EtFOSE-M	*21.4*		*15 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
d5-NEtPFOSA	*38.6*		*10 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
d3-NMePFOSA	*37.1*		*10 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*
13C2 PFDoA	*59.6*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:26*	*1*

Client Sample ID: RXSB-17 (6-8)_P
Lab Sample ID: 460-344047-5
Date Collected: 01/29/26 13:40
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 88.7

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorohexanoic acid (PFHxA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluoroheptanoic acid (PFHpA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorooctanoic acid (PFOA)	**0.13**	**J**	0.38	0.11	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorononanoic acid (PFNA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorodecanoic acid (PFDA)	0.38	U	0.38	0.11	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluoroundecanoic acid (PFUnA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorododecanoic acid (PFDoA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorotridecanoic acid (PFTrDA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorotetradecanoic acid (PFTeDA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorobutanesulfonic acid (PFBS)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluoropentanesulfonic acid (PFPeS)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluoroheptanesulfonic acid (PFHpS)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorooctanesulfonic acid (PFOS)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorononanesulfonic acid (PFNS)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorodecanesulfonic acid (PFDS)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorododecanesulfonic acid (PFDoS)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.76	U	0.76	0.38	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.76	U	0.76	0.38	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.76	U	0.76	0.38	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluorooctanesulfonamide (PFOSA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.91	U	1.91	0.96	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1

Client Sample ID: RXSB-17 (6-8)_P
Lab Sample ID: 460-344047-5
Date Collected: 01/29/26 13:40
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 88.7

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.91	U	1.91	0.96	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.19	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.76	U	0.76	0.38	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.91	U	1.91	0.96	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.91	U	1.91	0.96	ug/Kg	☼	02/05/26 10:14	02/05/26 21:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*76.5*		*8 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C5 PFPeA	*74.8*		*35 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C5 PFHxA	*73.5*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C4 PFHpA	*81.7*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C8 PFOA	*80.6*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C9 PFNA	*74.0*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C6 PFDA	*77.5*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C7 PFUnA	*76.9*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C2 PFTeDA	*64.4*		*20 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C3 PFBS	*78.7*		*40 - 135*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C3 PFHxS	*83.0*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C8 PFOS	*73.2*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C8 FOSA	*71.3*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
d3-NMeFOSAA	*63.3*		*40 - 135*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
d5-NEtFOSAA	*57.2*		*40 - 150*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C2 4:2 FTS	*74.9*		*40 - 165*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C2 6:2 FTS	*81.2*		*40 - 215*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C2 8:2 FTS	*64.8*		*40 - 275*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C3 HFPO-DA	*82.2*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
d7-N-MeFOSE-M	*31.2*		*20 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
d9-N-EtFOSE-M	*32.9*		*15 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
d5-NEtPFOSA	*51.6*		*10 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
d3-NMePFOSA	*53.4*		*10 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*
13C2 PFDoA	*76.4*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:40*	*1*

Client Sample ID: DUP_012926
Date Collected: 01/29/26 11:00
Date Received: 01/29/26 19:45

Lab Sample ID: 460-344047-6
Matrix: Solid
Percent Solids: 93.1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.79	U	0.79	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluoropentanoic acid (PFPeA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorohexanoic acid (PFHxA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluoroheptanoic acid (PFHpA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorooctanoic acid (PFOA)	0.39	U	0.39	0.12	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorononanoic acid (PFNA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorodecanoic acid (PFDA)	0.39	U	0.39	0.12	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluoroundecanoic acid (PFUnA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorododecanoic acid (PFDoA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorotridecanoic acid (PFTrDA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorotetradecanoic acid (PFTeDA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorobutanesulfonic acid (PFBS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluoropentanesulfonic acid (PFPeS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorohexanesulfonic acid (PFHxS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluoroheptanesulfonic acid (PFHpS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorooctanesulfonic acid (PFOS)	**0.33**	**J**	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorononanesulfonic acid (PFNS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorodecanesulfonic acid (PFDS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorododecanesulfonic acid (PFDoS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.79	U	0.79	0.39	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.79	U	0.79	0.39	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.79	U	0.79	0.39	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluorooctanesulfonamide (PFOSA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.97	U	1.97	0.99	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.97	U	1.97	0.99	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1

Client Sample ID: DUP_012926
Lab Sample ID: 460-344047-6

Date Collected: 01/29/26 11:00
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 93.1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.39	U	0.39	0.20	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.79	U	0.79	0.39	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.97	U	1.97	0.99	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.97	U	1.97	0.99	ug/Kg	☼	02/05/26 10:14	02/05/26 21:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*87.3*		*8 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C5 PFPeA	*85.2*		*35 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C5 PFHxA	*80.1*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C4 PFHpA	*82.1*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C8 PFOA	*93.2*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C9 PFNA	*78.5*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C6 PFDA	*72.8*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C7 PFUnA	*78.1*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C2 PFTeDA	*58.8*		*20 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C3 PFBS	*79.2*		*40 - 135*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C3 PFHxS	*81.7*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C8 PFOS	*76.3*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C8 FOSA	*66.8*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
d3-NMeFOSAA	*59.4*		*40 - 135*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
d5-NEtFOSAA	*59.6*		*40 - 150*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C2 4:2 FTS	*104*		*40 - 165*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C2 6:2 FTS	*91.4*		*40 - 215*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C2 8:2 FTS	*65.1*		*40 - 275*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C3 HFPO-DA	*75.2*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
d7-N-MeFOSE-M	*28.9*		*20 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
d9-N-EtFOSE-M	*26.8*		*15 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
d5-NEtPFOSA	*51.9*		*10 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
d3-NMePFOSA	*52.9*		*10 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*
13C2 PFDoA	*66.2*		*40 - 130*	*02/05/26 10:14*	*02/05/26 21:53*	*1*

Client Sample ID: FB_012926_P
Lab Sample ID: 460-344047-7

Date Collected: 01/29/26 15:00
Matrix: Water
Date Received: 01/29/26 19:45

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.10	U	3.10	0.85	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluoropentanoic acid (PFPeA)	1.55	U	1.55	0.46	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorohexanoic acid (PFHxA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluoroheptanoic acid (PFHpA)	1.55	U	1.55	0.62	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorooctanoic acid (PFOA)	1.55	U	1.55	0.70	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorononanoic acid (PFNA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorodecanoic acid (PFDA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluoroundecanoic acid (PFUnA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorododecanoic acid (PFDoA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1

Client Sample ID: FB_012926_P
Lab Sample ID: 460-344047-7

Date Collected: 01/29/26 15:00
Matrix: Water
Date Received: 01/29/26 19:45

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorotetradecanoic acid (PFTeDA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorobutanesulfonic acid (PFBS)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluoropentanesulfonic acid (PFPeS)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorohexanesulfonic acid (PFHxS)	1.55	U	1.55	0.62	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluoroheptanesulfonic acid (PFHpS)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorooctanesulfonic acid (PFOS)	1.55	U	1.55	1.01	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorononanesulfonic acid (PFNS)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorodecanesulfonic acid (PFDS)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorododecanesulfonic acid (PFDoS)	1.55	U	1.55	0.46	ng/L		02/02/26 14:36	02/02/26 23:32	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	3.10	U	3.10	0.77	ng/L		02/02/26 14:36	02/02/26 23:32	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	3.10	U	3.10	0.77	ng/L		02/02/26 14:36	02/02/26 23:32	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	3.10	U	3.10	0.77	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluorooctanesulfonamide (PFOSA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.55	U	1.55	0.85	ng/L		02/02/26 14:36	02/02/26 23:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.74	U	7.74	3.10	ng/L		02/02/26 14:36	02/02/26 23:32	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.74	U	7.74	3.10	ng/L		02/02/26 14:36	02/02/26 23:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.55	U	1.55	1.08	ng/L		02/02/26 14:36	02/02/26 23:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.55	U	1.55	0.39	ng/L		02/02/26 14:36	02/02/26 23:32	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	3.10	U	3.10	0.77	ng/L		02/02/26 14:36	02/02/26 23:32	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	7.74	U	7.74	2.17	ng/L		02/02/26 14:36	02/02/26 23:32	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.74	U	7.74	1.94	ng/L		02/02/26 14:36	02/02/26 23:32	1

Client Sample ID: FB_012926_P
Date Collected: 01/29/26 15:00
Date Received: 01/29/26 19:45

Lab Sample ID: 460-344047-7
Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91.4		5 - 130	02/02/26 14:36	02/02/26 23:32	1
13C5 PFPeA	90.1		40 - 130	02/02/26 14:36	02/02/26 23:32	1
13C5 PFHxA	92.2		40 - 130	02/02/26 14:36	02/02/26 23:32	1
13C4 PFHpA	95.6		40 - 130	02/02/26 14:36	02/02/26 23:32	1
13C8 PFOA	95.4		40 - 130	02/02/26 14:36	02/02/26 23:32	1
13C9 PFNA	93.3		40 - 130	02/02/26 14:36	02/02/26 23:32	1
13C6 PFDA	95.9		40 - 130	02/02/26 14:36	02/02/26 23:32	1
13C7 PFUnA	94.9		30 - 130	02/02/26 14:36	02/02/26 23:32	1
13C2 PFTeDA	76.7		10 - 130	02/02/26 14:36	02/02/26 23:32	1
13C3 PFBS	100		40 - 135	02/02/26 14:36	02/02/26 23:32	1
13C3 PFHxS	99.4		40 - 130	02/02/26 14:36	02/02/26 23:32	1
13C8 PFOS	93.8		40 - 130	02/02/26 14:36	02/02/26 23:32	1
13C8 FOSA	82.6		40 - 130	02/02/26 14:36	02/02/26 23:32	1
d3-NMeFOSAA	79.2		40 - 170	02/02/26 14:36	02/02/26 23:32	1
d5-NEtFOSAA	77.8		25 - 135	02/02/26 14:36	02/02/26 23:32	1
13C2 4:2 FTS	104		40 - 200	02/02/26 14:36	02/02/26 23:32	1
13C2 6:2 FTS	112		40 - 200	02/02/26 14:36	02/02/26 23:32	1
13C2 8:2 FTS	108		40 - 300	02/02/26 14:36	02/02/26 23:32	1
13C3 HFPO-DA	89.2		40 - 130	02/02/26 14:36	02/02/26 23:32	1
d7-N-MeFOSE-M	57.0		10 - 130	02/02/26 14:36	02/02/26 23:32	1
d9-N-EtFOSE-M	53.9		10 - 130	02/02/26 14:36	02/02/26 23:32	1
d5-NEtPFOSA	58.4		10 - 130	02/02/26 14:36	02/02/26 23:32	1
d3-NMePFOSA	61.9		10 - 130	02/02/26 14:36	02/02/26 23:32	1
13C2 PFDoA	96.7		10 - 130	02/02/26 14:36	02/02/26 23:32	1

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-344047-1
Project/Site: Sea Park North - 2828 W 28th Street

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (8-130)	PFPeA (35-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (40-130)
460-344047-1	RXSB-19 (0-2)_P	64.4	59.3	54.6	57.9	58.8	52.8	57.2	59.0
460-344047-2	RXSB-19 (6-8)_P	79.6	79.3	78.9	83.2	77.6	79.7	77.6	82.8
460-344047-3	RXSB-16 (0-2)_P	85.4	83.2	84.6	85.4	87.2	82.1	85.7	78.2
460-344047-4	RXSB-16 (6-8)_P	71.6	66.5	62.9	66.4	54.8	49.5	51.5	56.2
460-344047-5	RXSB-17 (6-8)_P	76.5	74.8	73.5	81.7	80.6	74.0	77.5	76.9
460-344047-6	DUP_012926	87.3	85.2	80.1	82.1	93.2	78.5	72.8	78.1
460-344049-A-5-B MS	Matrix Spike	102	98.3	94.7	98.7	104	98.0	100	91.5
460-344049-A-5-C MSD	Matrix Spike Duplicate	95.7	97.3	101	106	103	104	103	99.7
LCS 410-764041/2-A	Lab Control Sample	107	107	105	105	98.8	96.7	86.3	78.5
LCS 410-765112/2-A	Lab Control Sample	72.9	72.2	73.5	76.5	73.1	68.1	70.0	74.2
LLCS 410-764041/3-A	Lab Control Sample	103	90.1	93.4	98.2	102	92.9	94.1	85.5
LLCS 410-765112/3-A	Lab Control Sample	84.3	83.3	85.7	86.5	84.3	79.7	83.5	96.3
MB 410-764041/1-A	Method Blank	104	102	108	102	110	94.5	88.5	74.9
MB 410-765112/1-A	Method Blank	88.0	83.3	80.0	84.4	79.8	78.2	87.5	91.0

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-135)	d5NEFOS (40-150)	M242FTS (40-165)
460-344047-1	RXSB-19 (0-2)_P	49.5	57.7	55.9	57.5	51.5	54.6	57.0	141
460-344047-2	RXSB-19 (6-8)_P	62.2	80.3	85.7	76.9	70.2	63.2	58.6	73.9
460-344047-3	RXSB-16 (0-2)_P	57.5	85.3	83.9	82.0	84.8	80.5	76.7	194 *
460-344047-4	RXSB-16 (6-8)_P	53.0	67.8	58.4	55.3	43.3	42.0	42.2	101
460-344047-5	RXSB-17 (6-8)_P	64.4	78.7	83.0	73.2	71.3	63.3	57.2	74.9
460-344047-6	DUP_012926	58.8	79.2	81.7	76.3	66.8	59.4	59.6	104
460-344049-A-5-B MS	Matrix Spike	72.4	100	96.2	95.0	85.6	102	93.5	148
460-344049-A-5-C MSD	Matrix Spike Duplicate	82.2	90.2	97.4	95.0	98.3	119	115	158
LCS 410-764041/2-A	Lab Control Sample	45.4	102	95.7	86.6	77.4	74.6	64.5	92.8
LCS 410-765112/2-A	Lab Control Sample	62.4	73.1	75.8	71.6	60.2	55.0	54.0	71.8
LLCS 410-764041/3-A	Lab Control Sample	58.0	109	104	87.8	80.8	84.5	72.4	93.5
LLCS 410-765112/3-A	Lab Control Sample	71.9	86.7	86.8	80.1	71.2	66.0	65.8	85.9
MB 410-764041/1-A	Method Blank	57.0	118	109	80.6	78.9	73.2	66.9	107
MB 410-765112/1-A	Method Blank	84.8	81.1	85.6	85.1	70.1	69.8	70.0	84.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (40-215)	M282FTS (40-275)	HFPODA (40-130)	NMFM (20-130)	NEFM (15-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDoA (40-130)
460-344047-1	RXSB-19 (0-2)_P	144	104	54.8	21.1	16.8	39.1	43.3	58.8
460-344047-2	RXSB-19 (6-8)_P	80.5	67.4	81.9	12.3 *	5.95 *	46.6	49.6	76.0
460-344047-3	RXSB-16 (0-2)_P	175	129	75.3	35.8	31.1	59.2	64.2	73.1
460-344047-4	RXSB-16 (6-8)_P	58.7	45.6	62.1	22.8	21.4	38.6	37.1	59.6
460-344047-5	RXSB-17 (6-8)_P	81.2	64.8	82.2	31.2	32.9	51.6	53.4	76.4
460-344047-6	DUP_012926	91.4	65.1	75.2	28.9	26.8	51.9	52.9	66.2
460-344049-A-5-B MS	Matrix Spike	150	115	94.7	34.6	32.9	74.5	74.7	89.1
460-344049-A-5-C MSD	Matrix Spike Duplicate	177	142	96.9	61.7	57.6	86.5	84.0	93.1
LCS 410-764041/2-A	Lab Control Sample	94.2	82.3	108	5.72 *	2.43 *	47.2	53.2	65.1
LCS 410-765112/2-A	Lab Control Sample	77.2	62.3	71.0	8.35 *	5.13 *	43.5	45.0	67.6
LLCS 410-764041/3-A	Lab Control Sample	100	100	94.3	10.1 *	5.25 *	51.9	56.4	80.3
LLCS 410-765112/3-A	Lab Control Sample	95.4	75.0	84.6	6.99 *	2.37 *	50.7	51.7	84.5
MB 410-764041/1-A	Method Blank	118	106	110	49.8	47.1	46.5	53.2	63.3
MB 410-765112/1-A	Method Blank	83.3	71.6	82.0	30.0	25.5	56.7	60.3	88.5

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-344047-1
Project/Site: Sea Park North - 2828 W 28th Street

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
PFDoA = 13C2 PFDoA

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
460-344047-7	FB_012926_P	91.4	90.1	92.2	95.6	95.4	93.3	95.9	94.9
LCS 410-763508/9-A	Lab Control Sample	84.2	80.0	81.3	83.4	88.1	89.7	88.5	93.0
LCSD 410-763508/10-A	Lab Control Sample Dup	85.0	88.3	88.0	98.0	89.2	89.1	83.8	85.7
LLCS 410-763508/11-A	Lab Control Sample	88.2	83.2	82.6	96.1	95.5	97.2	92.8	88.7
MB 410-763508/8-A	Method Blank	88.6	90.6	95.3	97.6	91.6	92.9	96.6	97.0

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)	M242FTS (40-200)
460-344047-7	FB_012926_P	76.7	100	99.4	93.8	82.6	79.2	77.8	104
LCS 410-763508/9-A	Lab Control Sample	68.1	89.0	87.0	87.0	80.7	80.4	95.0	99.9
LCSD 410-763508/10-A	Lab Control Sample Dup	63.0	92.6	91.2	81.8	67.9	74.9	77.7	93.5
LLCS 410-763508/11-A	Lab Control Sample	67.5	97.9	94.4	88.8	73.9	77.0	75.3	99.6
MB 410-763508/8-A	Method Blank	76.0	96.7	89.9	87.9	74.1	80.1	181 *	100

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDoA (10-130)
460-344047-7	FB_012926_P	112	108	89.2	57.0	53.9	58.4	61.9	96.7
LCS 410-763508/9-A	Lab Control Sample	104	95.5	83.0	58.1	55.1	65.4	67.6	90.4
LCSD 410-763508/10-A	Lab Control Sample Dup	95.7	90.2	98.0	40.1	35.7	54.8	56.8	92.4
LLCS 410-763508/11-A	Lab Control Sample	103	95.7	94.4	41.6	35.2	53.1	59.6	87.4
MB 410-763508/8-A	Method Blank	105	97.4	93.2	55.3	52.6	61.3	64.7	95.4

Surrogate Legend

PFBA = 13C4 PFBA

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-344047-1
Project/Site: Sea Park North - 2828 W 28th Street

PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
PFDoA = 13C2 PFDoA

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Lab Sample ID: MB 410-763508/8-A
Matrix: Water
Analysis Batch: 763219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 763508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.00	U	4.00	1.10	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluoropentanoic acid (PFPeA)	2.00	U	2.00	0.60	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.90	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorotridecanoic acid (PFTrDA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorotetradecanoic acid (PFTeDA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluoropentanesulfonic acid (PFPeS)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.80	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluoroheptanesulfonic acid (PFHpS)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.30	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorononanesulfonic acid (PFNS)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorododecanesulfonic acid (PFDoS)	2.00	U	2.00	0.60	ng/L		02/02/26 14:36	02/02/26 21:16	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.00	U	4.00	1.00	ng/L		02/02/26 14:36	02/02/26 21:16	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.00	U	4.00	1.00	ng/L		02/02/26 14:36	02/02/26 21:16	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.00	U	4.00	1.00	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluorooctanesulfonamide (PFOSA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	U	2.00	1.10	ng/L		02/02/26 14:36	02/02/26 21:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	10.0	U	10.0	4.00	ng/L		02/02/26 14:36	02/02/26 21:16	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	10.0	U	10.0	4.00	ng/L		02/02/26 14:36	02/02/26 21:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	U	2.00	1.40	ng/L		02/02/26 14:36	02/02/26 21:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: MB 410-763508/8-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 763219
Prep Batch: 763508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.00	U	2.00	0.50	ng/L		02/02/26 14:36	02/02/26 21:16	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.00	U	4.00	1.00	ng/L		02/02/26 14:36	02/02/26 21:16	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	10.0	U	10.0	2.80	ng/L		02/02/26 14:36	02/02/26 21:16	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	10.0	U	10.0	2.50	ng/L		02/02/26 14:36	02/02/26 21:16	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88.6*		*5 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C5 PFPeA	*90.6*		*40 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C5 PFHxA	*95.3*		*40 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C4 PFHpA	*97.6*		*40 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C8 PFOA	*91.6*		*40 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C9 PFNA	*92.9*		*40 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C6 PFDA	*96.6*		*40 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C7 PFUnA	*97.0*		*30 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C2 PFTeDA	*76.0*		*10 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C3 PFBS	*96.7*		*40 - 135*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C3 PFHxS	*89.9*		*40 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C8 PFOS	*87.9*		*40 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C8 FOSA	*74.1*		*40 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
d3-NMeFOSAA	*80.1*		*40 - 170*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
d5-NEtFOSAA	*181*	*	*25 - 135*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C2 4:2 FTS	*100*		*40 - 200*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C2 6:2 FTS	*105*		*40 - 200*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C2 8:2 FTS	*97.4*		*40 - 300*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C3 HFPO-DA	*93.2*		*40 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
d7-N-MeFOSE-M	*55.3*		*10 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
d9-N-EtFOSE-M	*52.6*		*10 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
d5-NEtPFOSA	*61.3*		*10 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
d3-NMePFOSA	*64.7*		*10 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*
13C2 PFDoA	*95.4*		*10 - 130*	*02/02/26 14:36*	*02/02/26 21:16*	*1*

Lab Sample ID: LCS 410-763508/9-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 763219
Prep Batch: 763508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	77.47		ng/L		97	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	38.12		ng/L		95	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	37.06		ng/L		93	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	39.20		ng/L		98	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	37.70		ng/L		94	70 - 150
Perfluorononanoic acid (PFNA)	40.0	35.23		ng/L		88	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	36.71		ng/L		92	70 - 140

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LCS 410-763508/9-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 763219
Prep Batch: 763508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	40.0	37.02		ng/L		93	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	36.86		ng/L		92	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	37.44		ng/L		94	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	39.67		ng/L		99	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	34.94		ng/L		98	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	36.89		ng/L		98	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	32.44		ng/L		89	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	36.28		ng/L		95	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	34.02		ng/L		91	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	37.45		ng/L		97	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	34.45		ng/L		89	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	26.12		ng/L		67	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	71.78		ng/L		96	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	72.43		ng/L		95	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	69.15		ng/L		90	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	35.23		ng/L		88	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	38.11		ng/L		95	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	39.89		ng/L		100	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	34.83		ng/L		87	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.97		ng/L		105	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	181.7		ng/L		91	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	186.6		ng/L		93	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	29.61		ng/L		99	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	37.25		ng/L		98	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	39.50		ng/L		99	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	37.72		ng/L		94	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	34.71		ng/L		87	50 - 150

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LCS 410-763508/9-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 763219
Prep Batch: 763508

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			37.4	33.68		ng/L		90	70 - 155		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			37.8	33.51		ng/L		89	55 - 160		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			35.7	35.78		ng/L		100	70 - 140		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			80.0	72.57		ng/L		91	65 - 130		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			200	162.8		ng/L		81	70 - 135		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			200	165.6		ng/L		83	50 - 145		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*84.2*		*5 - 130*
13C5 PFPeA	*80.0*		*40 - 130*
13C5 PFHxA	*81.3*		*40 - 130*
13C4 PFHpA	*83.4*		*40 - 130*
13C8 PFOA	*88.1*		*40 - 130*
13C9 PFNA	*89.7*		*40 - 130*
13C6 PFDA	*88.5*		*40 - 130*
13C7 PFUnA	*93.0*		*30 - 130*
13C2 PFTeDA	*68.1*		*10 - 130*
13C3 PFBS	*89.0*		*40 - 135*
13C3 PFHxS	*87.0*		*40 - 130*
13C8 PFOS	*87.0*		*40 - 130*
13C8 FOSA	*80.7*		*40 - 130*
d3-NMeFOSAA	*80.4*		*40 - 170*
d5-NEtFOSAA	*95.0*		*25 - 135*
13C2 4:2 FTS	*99.9*		*40 - 200*
13C2 6:2 FTS	*104*		*40 - 200*
13C2 8:2 FTS	*95.5*		*40 - 300*
13C3 HFPO-DA	*83.0*		*40 - 130*
d7-N-MeFOSE-M	*58.1*		*10 - 130*
d9-N-EtFOSE-M	*55.1*		*10 - 130*
d5-NEtPFOSA	*65.4*		*10 - 130*
d3-NMePFOSA	*67.6*		*10 - 130*
13C2 PFDoA	*90.4*		*10 - 130*

Lab Sample ID: LCSD 410-763508/10-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 763219
Prep Batch: 763508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			80.0	81.56		ng/L		102	70 - 140	5	30
Perfluoropentanoic acid (PFPeA)			40.0	38.96		ng/L		97	65 - 135	2	30
Perfluorohexanoic acid (PFHxA)			40.0	37.27		ng/L		93	70 - 145	1	30
Perfluoroheptanoic acid (PFHpA)			40.0	39.55		ng/L		99	70 - 150	1	30
Perfluorooctanoic acid (PFOA)			40.0	38.80		ng/L		97	70 - 150	3	30

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LCSD 410-763508/10-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 763219
Prep Batch: 763508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorononanoic acid (PFNA)			40.0	36.66		ng/L		92	70 - 150	4	30
Perfluorodecanoic acid (PFDA)			40.0	38.69		ng/L		97	70 - 140	5	30
Perfluoroundecanoic acid (PFUnA)			40.0	38.90		ng/L		97	70 - 145	5	30
Perfluorododecanoic acid (PFDoA)			40.0	37.58		ng/L		94	70 - 140	2	30
Perfluorotridecanoic acid (PFTrDA)			40.0	38.84		ng/L		97	65 - 140	4	30
Perfluorotetradecanoic acid (PFTeDA)			40.0	39.92		ng/L		100	60 - 140	1	30
Perfluorobutanesulfonic acid (PFBS)			35.5	34.61		ng/L		97	60 - 145	1	30
Perfluoropentanesulfonic acid (PFPeS)			37.6	35.18		ng/L		94	65 - 140	5	30
Perfluorohexanesulfonic acid (PFHxS)			36.5	31.69		ng/L		87	65 - 145	2	30
Perfluoroheptanesulfonic acid (PFHpS)			38.2	38.59		ng/L		101	70 - 150	6	30
Perfluorooctanesulfonic acid (PFOS)			37.2	36.21		ng/L		97	55 - 150	6	30
Perfluorononanesulfonic acid (PFNS)			38.5	37.58		ng/L		98	65 - 145	0	30
Perfluorodecanesulfonic acid (PFDS)			38.6	34.69		ng/L		90	60 - 145	1	30
Perfluorododecanesulfonic acid (PFDoS)			38.8	25.04		ng/L		65	50 - 145	4	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)			75.0	75.99		ng/L		101	70 - 145	6	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)			76.2	78.84		ng/L		104	65 - 155	8	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)			76.8	73.08		ng/L		95	60 - 150	6	30
Perfluorooctanesulfonamide (PFOSA)			40.0	39.83		ng/L		100	70 - 145	12	30
N-methylperfluorooctane sulfonamide (NMeFOSA)			40.0	40.04		ng/L		100	60 - 150	5	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)			40.0	41.25		ng/L		103	65 - 145	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	37.68		ng/L		94	50 - 140	8	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	43.20		ng/L		108	70 - 145	3	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)			200	199.1		ng/L		100	70 - 145	9	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)			200	188.3		ng/L		94	70 - 135	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)			30.0	28.34		ng/L		94	70 - 140	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.8	36.47		ng/L		96	65 - 145	2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)			40.0	41.09		ng/L		103	55 - 140	4	30
Perfluoro-4-methoxybutanoic acid (PFMBA)			40.0	37.73		ng/L		94	60 - 150	0	30

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LCSD 410-763508/10-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 763219
Prep Batch: 763508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			40.0	37.99		ng/L		95	50 - 150	9	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			37.4	35.57		ng/L		95	70 - 155	5	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			37.8	33.21		ng/L		88	55 - 160	1	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			35.7	36.68		ng/L		103	70 - 140	2	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)			80.0	73.06		ng/L		91	65 - 130	1	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)			200	176.5		ng/L		88	70 - 135	8	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			200	157.3		ng/L		79	50 - 145	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*85.0*		*5 - 130*
13C5 PFPeA	*88.3*		*40 - 130*
13C5 PFHxA	*88.0*		*40 - 130*
13C4 PFHpA	*98.0*		*40 - 130*
13C8 PFOA	*89.2*		*40 - 130*
13C9 PFNA	*89.1*		*40 - 130*
13C6 PFDA	*83.8*		*40 - 130*
13C7 PFUnA	*85.7*		*30 - 130*
13C2 PFTeDA	*63.0*		*10 - 130*
13C3 PFBS	*92.6*		*40 - 135*
13C3 PFHxS	*91.2*		*40 - 130*
13C8 PFOS	*81.8*		*40 - 130*
13C8 FOSA	*67.9*		*40 - 130*
d3-NMeFOSAA	*74.9*		*40 - 170*
d5-NEtFOSAA	*77.7*		*25 - 135*
13C2 4:2 FTS	*93.5*		*40 - 200*
13C2 6:2 FTS	*95.7*		*40 - 200*
13C2 8:2 FTS	*90.2*		*40 - 300*
13C3 HFPO-DA	*98.0*		*40 - 130*
d7-N-MeFOSE-M	*40.1*		*10 - 130*
d9-N-EtFOSE-M	*35.7*		*10 - 130*
d5-NEtPFOSA	*54.8*		*10 - 130*
d3-NMePFOSA	*56.8*		*10 - 130*
13C2 PFDoA	*92.4*		*10 - 130*

Lab Sample ID: LLCS 410-763508/11-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 763219
Prep Batch: 763508

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorobutanoic acid (PFBA)			8.00	7.782		ng/L		97	70 - 140		
Perfluoropentanoic acid (PFPeA)			4.00	3.966		ng/L		99	65 - 135		
Perfluorohexanoic acid (PFHxA)			4.00	4.280		ng/L		107	70 - 145		

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LLCS 410-763508/11-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 763219
Prep Batch: 763508

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid (PFHpA)	4.00	3.788		ng/L		95	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	3.847		ng/L		96	70 - 150
Perfluorononanoic acid (PFNA)	4.00	3.528		ng/L		88	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.740		ng/L		93	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.007		ng/L		100	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.241		ng/L		106	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	3.582		ng/L		90	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	2.738		ng/L		68	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.199		ng/L		90	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.561		ng/L		95	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.751		ng/L		103	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.676		ng/L		96	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	4.240		ng/L		114	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.481		ng/L		90	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.157		ng/L		82	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.430		ng/L		63	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	6.948		ng/L		93	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	7.853		ng/L		103	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	6.153		ng/L		80	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.761		ng/L		94	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	3.989		ng/L		100	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.581		ng/L		115	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	2.916		ng/L		73	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	3.923		ng/L		98	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	19.18		ng/L		96	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	23.51		ng/L		118	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.686		ng/L		90	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.552		ng/L		94	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.224		ng/L		106	55 - 140

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LLCS 410-763508/11-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 763219
Prep Batch: 763508

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoro-4-methoxybutanoic acid (PFMBA)			4.00	3.409		ng/L		85	60 - 150		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			4.00	4.322		ng/L		108	50 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			3.74	3.119		ng/L		83	70 - 155		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			3.78	2.963		ng/L		78	55 - 160		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			3.57	3.646		ng/L		102	70 - 140		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			8.00	7.921		ng/L		99	65 - 130		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			20.0	17.84		ng/L		89	70 - 135		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			20.0	17.05		ng/L		85	50 - 145		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*88.2*		*5 - 130*
13C5 PFPeA	*83.2*		*40 - 130*
13C5 PFHxA	*82.6*		*40 - 130*
13C4 PFHpA	*96.1*		*40 - 130*
13C8 PFOA	*95.5*		*40 - 130*
13C9 PFNA	*97.2*		*40 - 130*
13C6 PFDA	*92.8*		*40 - 130*
13C7 PFUnA	*88.7*		*30 - 130*
13C2 PFTeDA	*67.5*		*10 - 130*
13C3 PFBS	*97.9*		*40 - 135*
13C3 PFHxS	*94.4*		*40 - 130*
13C8 PFOS	*88.8*		*40 - 130*
13C8 FOSA	*73.9*		*40 - 130*
d3-NMeFOSAA	*77.0*		*40 - 170*
d5-NEtFOSAA	*75.3*		*25 - 135*
13C2 4:2 FTS	*99.6*		*40 - 200*
13C2 6:2 FTS	*103*		*40 - 200*
13C2 8:2 FTS	*95.7*		*40 - 300*
13C3 HFPO-DA	*94.4*		*40 - 130*
d7-N-MeFOSE-M	*41.6*		*10 - 130*
d9-N-EtFOSE-M	*35.2*		*10 - 130*
d5-NEtPFOSA	*53.1*		*10 - 130*
d3-NMePFOSA	*59.6*		*10 - 130*
13C2 PFDoA	*87.4*		*10 - 130*

Lab Sample ID: MB 410-764041/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.40	U	0.40	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: MB 410-764041/1-A
Matrix: Solid
Analysis Batch: 764500

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 764041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.060	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.060	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.40	U	0.40	0.20	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.40	U	0.40	0.20	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.40	U	0.40	0.20	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.00	U	1.00	0.50	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.00	U	1.00	0.50	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: MB 410-764041/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.20	U	0.20	0.10	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.40	U	0.40	0.20	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.00	U	1.00	0.50	ug/Kg		02/03/26 13:57	02/04/26 18:24	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.00	U	1.00	0.50	ug/Kg		02/03/26 13:57	02/04/26 18:24	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*104*		*8 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C5 PFPeA	*102*		*35 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C5 PFHxA	*108*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C4 PFHpA	*102*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C8 PFOA	*110*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C9 PFNA	*94.5*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C6 PFDA	*88.5*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C7 PFUnA	*74.9*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C2 PFTeDA	*57.0*		*20 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C3 PFBS	*118*		*40 - 135*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C3 PFHxS	*109*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C8 PFOS	*80.6*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C8 FOSA	*78.9*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
d3-NMeFOSAA	*73.2*		*40 - 135*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
d5-NEtFOSAA	*66.9*		*40 - 150*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C2 4:2 FTS	*107*		*40 - 165*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C2 6:2 FTS	*118*		*40 - 215*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C2 8:2 FTS	*106*		*40 - 275*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C3 HFPO-DA	*110*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
d7-N-MeFOSE-M	*49.8*		*20 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
d9-N-EtFOSE-M	*47.1*		*15 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
d5-NEtPFOSA	*46.5*		*10 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
d3-NMePFOSA	*53.2*		*10 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*
13C2 PFDoA	*63.3*		*40 - 130*	*02/03/26 13:57*	*02/04/26 18:24*	*1*

Lab Sample ID: LCS 410-764041/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	5.00	4.562		ug/Kg		91	70 - 140
Perfluoropentanoic acid (PFPeA)	2.50	2.286		ug/Kg		91	60 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.288		ug/Kg		92	65 - 140
Perfluoroheptanoic acid (PFHpA)	2.50	2.309		ug/Kg		92	65 - 145
Perfluorooctanoic acid (PFOA)	2.50	2.356		ug/Kg		94	70 - 150
Perfluorononanoic acid (PFNA)	2.50	2.143		ug/Kg		86	70 - 155
Perfluorodecanoic acid (PFDA)	2.50	2.297		ug/Kg		92	70 - 155

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LCS 410-764041/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.50	2.393		ug/Kg		96	70 - 155
Perfluorododecanoic acid (PFDoA)	2.50	2.481		ug/Kg		99	70 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.049		ug/Kg		82	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.292		ug/Kg		92	65 - 150
Perfluorobutanesulfonic acid (PFBS)	2.22	2.027		ug/Kg		91	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.269		ug/Kg		97	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.105		ug/Kg		92	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.39	2.314		ug/Kg		97	65 - 155
Perfluorooctanesulfonic acid (PFOS)	2.33	2.100		ug/Kg		90	65 - 160
Perfluorononanesulfonic acid (PFNS)	2.41	2.039		ug/Kg		85	55 - 140
Perfluorodecanesulfonic acid (PFDS)	2.41	1.718		ug/Kg		71	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.165		ug/Kg		48	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69	4.389		ug/Kg		94	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76	4.303		ug/Kg		90	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.80	4.452		ug/Kg		93	70 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.297		ug/Kg		92	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.375		ug/Kg		95	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.522		ug/Kg		101	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.102		ug/Kg		84	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.141		ug/Kg		86	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5	10.93		ug/Kg		87	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5	8.483	*	ug/Kg		68	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.88	1.702		ug/Kg		91	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.37	2.157		ug/Kg		91	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.50	2.607		ug/Kg		104	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.50	2.291		ug/Kg		92	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.50	2.364		ug/Kg		95	60 - 155

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LCS 410-764041/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			2.34	1.985		ug/Kg		85	70 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			2.36	1.721		ug/Kg		73	45 - 160		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			2.23	2.050		ug/Kg		92	70 - 140		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			5.00	4.477		ug/Kg		90	45 - 130		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			12.5	9.315		ug/Kg		75	60 - 130		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			12.5	8.552		ug/Kg		68	60 - 150		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*107*		*8 - 130*
13C5 PFPeA	*107*		*35 - 130*
13C5 PFHxA	*105*		*40 - 130*
13C4 PFHpA	*105*		*40 - 130*
13C8 PFOA	*98.8*		*40 - 130*
13C9 PFNA	*96.7*		*40 - 130*
13C6 PFDA	*86.3*		*40 - 130*
13C7 PFUnA	*78.5*		*40 - 130*
13C2 PFTeDA	*45.4*		*20 - 130*
13C3 PFBS	*102*		*40 - 135*
13C3 PFHxS	*95.7*		*40 - 130*
13C8 PFOS	*86.6*		*40 - 130*
13C8 FOSA	*77.4*		*40 - 130*
d3-NMeFOSAA	*74.6*		*40 - 135*
d5-NEtFOSAA	*64.5*		*40 - 150*
13C2 4:2 FTS	*92.8*		*40 - 165*
13C2 6:2 FTS	*94.2*		*40 - 215*
13C2 8:2 FTS	*82.3*		*40 - 275*
13C3 HFPO-DA	*108*		*40 - 130*
d7-N-MeFOSE-M	*5.72*	*	*20 - 130*
d9-N-EtFOSE-M	*2.43*	*	*15 - 130*
d5-NEtPFOSA	*47.2*		*10 - 130*
d3-NMePFOSA	*53.2*		*10 - 130*
13C2 PFDoA	*65.1*		*40 - 130*

Lab Sample ID: LLCS 410-764041/3-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorobutanoic acid (PFBA)			0.500	0.472		ug/Kg		94	70 - 140		
Perfluoropentanoic acid (PFPeA)			0.250	0.270		ug/Kg		108	60 - 150		
Perfluorohexanoic acid (PFHxA)			0.250	0.216		ug/Kg		86	65 - 140		
Perfluoroheptanoic acid (PFHpA)			0.250	0.252		ug/Kg		101	65 - 145		
Perfluorooctanoic acid (PFOA)			0.250	0.239		ug/Kg		96	70 - 150		

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LLCS 410-764041/3-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanoic acid (PFNA)	0.250	0.237		ug/Kg		95	70 - 155
Perfluorodecanoic acid (PFDA)	0.250	0.240		ug/Kg		96	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.250	0.254		ug/Kg		102	70 - 155
Perfluorododecanoic acid (PFDoA)	0.250	0.240		ug/Kg		96	70 - 150
Perfluorotridecanoic acid (PFTrDA)	0.250	0.220		ug/Kg		88	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.250	0.188	J	ug/Kg		75	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.222	0.184	J	ug/Kg		83	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.235	0.201		ug/Kg		86	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.219		ug/Kg		96	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.239	0.223		ug/Kg		93	65 - 155
Perfluorooctanesulfonic acid (PFOS)	0.233	0.216		ug/Kg		93	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.241	0.213		ug/Kg		89	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.241	0.203		ug/Kg		84	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.243	0.147	J	ug/Kg		61	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.450		ug/Kg		96	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.417		ug/Kg		88	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.418		ug/Kg		87	70 - 150
Perfluorooctanesulfonamide (PFOSA)	0.250	0.232		ug/Kg		93	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.250	0.223		ug/Kg		89	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.250	0.255		ug/Kg		102	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.250	0.242		ug/Kg		97	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.250	0.251		ug/Kg		100	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	0.960	J	ug/Kg		77	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	0.936	J	ug/Kg		75	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.188	0.164	J	ug/Kg		88	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.237	0.218		ug/Kg		92	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.279		ug/Kg		112	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.216		ug/Kg		86	60 - 150

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LLCS 410-764041/3-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			0.250	0.227		ug/Kg		91	60 - 155		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			0.234	0.205		ug/Kg		88	70 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			0.236	0.192	J	ug/Kg		81	45 - 160		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			0.223	0.208		ug/Kg		93	70 - 140		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			0.500	0.565		ug/Kg		113	45 - 130		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			1.25	1.100		ug/Kg		88	60 - 130		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			1.25	1.067		ug/Kg		85	60 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*103*		*8 - 130*
13C5 PFPeA	*90.1*		*35 - 130*
13C5 PFHxA	*93.4*		*40 - 130*
13C4 PFHpA	*98.2*		*40 - 130*
13C8 PFOA	*102*		*40 - 130*
13C9 PFNA	*92.9*		*40 - 130*
13C6 PFDA	*94.1*		*40 - 130*
13C7 PFUnA	*85.5*		*40 - 130*
13C2 PFTeDA	*58.0*		*20 - 130*
13C3 PFBS	*109*		*40 - 135*
13C3 PFHxS	*104*		*40 - 130*
13C8 PFOS	*87.8*		*40 - 130*
13C8 FOSA	*80.8*		*40 - 130*
d3-NMeFOSAA	*84.5*		*40 - 135*
d5-NEtFOSAA	*72.4*		*40 - 150*
13C2 4:2 FTS	*93.5*		*40 - 165*
13C2 6:2 FTS	*100*		*40 - 215*
13C2 8:2 FTS	*100*		*40 - 275*
13C3 HFPO-DA	*94.3*		*40 - 130*
d7-N-MeFOSE-M	*10.1*	*	*20 - 130*
d9-N-EtFOSE-M	*5.25*	*	*15 - 130*
d5-NEtPFOSA	*51.9*		*10 - 130*
d3-NMePFOSA	*56.4*		*10 - 130*
13C2 PFDoA	*80.3*		*40 - 130*

Lab Sample ID: 460-344049-A-5-B MS
Client Sample ID: Matrix Spike
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorobutanoic acid (PFBA)	0.16	J	4.85	4.496		ug/Kg	☼	90	70 - 140		
Perfluoropentanoic acid (PFPeA)	0.19	U	2.42	2.196		ug/Kg	☼	91	60 - 150		
Perfluorohexanoic acid (PFHxA)	0.19	U	2.42	2.294		ug/Kg	☼	95	65 - 140		

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: 460-344049-A-5-B MS
Matrix: Solid
Analysis Batch: 764500

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 764041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid (PFHpA)	0.11	J	2.42	2.346		ug/Kg	☼	92	65 - 145
Perfluorooctanoic acid (PFOA)	0.62		2.42	3.003		ug/Kg	☼	98	70 - 150
Perfluorononanoic acid (PFNA)	0.10	J	2.42	2.327		ug/Kg	☼	92	70 - 155
Perfluorodecanoic acid (PFDA)	0.13	J	2.42	2.266		ug/Kg	☼	88	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.19	U	2.42	2.392		ug/Kg	☼	99	70 - 155
Perfluorododecanoic acid (PFDoA)	0.19	U	2.42	2.384		ug/Kg	☼	98	70 - 150
Perfluorotridecanoic acid (PFTrDA)	0.19	U	2.42	2.060		ug/Kg	☼	85	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	2.42	2.197		ug/Kg	☼	91	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.19	U	2.15	1.949		ug/Kg	☼	91	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	2.28	2.179		ug/Kg	☼	96	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.18	J	2.21	2.230		ug/Kg	☼	93	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	2.31	2.235		ug/Kg	☼	97	65 - 155
Perfluorooctanesulfonic acid (PFOS)	1.56		2.25	3.657		ug/Kg	☼	93	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.19	U	2.33	2.063		ug/Kg	☼	89	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.19	U	2.34	1.974		ug/Kg	☼	85	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	2.35	1.660		ug/Kg	☼	71	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.39	U	4.55	4.235		ug/Kg	☼	93	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.39	U	4.61	4.003		ug/Kg	☼	87	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.39	U	4.65	4.284		ug/Kg	☼	92	70 - 150
Perfluorooctanesulfonamide (PFOSA)	0.19	U	2.42	2.317		ug/Kg	☼	96	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	2.42	2.364		ug/Kg	☼	98	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	2.42	2.342		ug/Kg	☼	97	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	2.42	1.969		ug/Kg	☼	81	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	2.42	2.399		ug/Kg	☼	99	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.59	J	12.1	11.82		ug/Kg	☼	93	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.67	J *	12.1	10.56		ug/Kg	☼	82	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.19	U	1.82	1.694		ug/Kg	☼	93	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.19	U	2.29	2.144		ug/Kg	☼	94	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.19	U	2.42	2.388		ug/Kg	☼	99	30 - 140

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: 460-344049-A-5-B MS
Matrix: Solid
Analysis Batch: 764500

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 764041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.19	U	2.42	2.213		ug/Kg	☼	91	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.19	U	2.42	2.296		ug/Kg	☼	95	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.19	U	2.26	2.071		ug/Kg	☼	91	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.19	U	2.29	1.914		ug/Kg	☼	84	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.19	U	2.16	2.134		ug/Kg	☼	99	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.39	U	4.85	4.379		ug/Kg	☼	90	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.97	U	12.1	10.19		ug/Kg	☼	84	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.97	U	12.1	11.09		ug/Kg	☼	92	60 - 150

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*102*		*8 - 130*
13C5 PFPeA	*98.3*		*35 - 130*
13C5 PFHxA	*94.7*		*40 - 130*
13C4 PFHpA	*98.7*		*40 - 130*
13C8 PFOA	*104*		*40 - 130*
13C9 PFNA	*98.0*		*40 - 130*
13C6 PFDA	*100*		*40 - 130*
13C7 PFUnA	*91.5*		*40 - 130*
13C2 PFTeDA	*72.4*		*20 - 130*
13C3 PFBS	*100*		*40 - 135*
13C3 PFHxS	*96.2*		*40 - 130*
13C8 PFOS	*95.0*		*40 - 130*
13C8 FOSA	*85.6*		*40 - 130*
d3-NMeFOSAA	*102*		*40 - 135*
d5-NEtFOSAA	*93.5*		*40 - 150*
13C2 4:2 FTS	*148*		*40 - 165*
13C2 6:2 FTS	*150*		*40 - 215*
13C2 8:2 FTS	*115*		*40 - 275*
13C3 HFPO-DA	*94.7*		*40 - 130*
d7-N-MeFOSE-M	*34.6*		*20 - 130*
d9-N-EtFOSE-M	*32.9*		*15 - 130*
d5-NEtPFOSA	*74.5*		*10 - 130*
d3-NMePFOSA	*74.7*		*10 - 130*
13C2 PFDoA	*89.1*		*40 - 130*

Lab Sample ID: 460-344049-A-5-C MSD
Matrix: Solid
Analysis Batch: 764500

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 764041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.16	J	4.77	4.443		ug/Kg	☼	90	70 - 140	1	30

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: 460-344049-A-5-C MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	0.19	U	2.38	2.265		ug/Kg	☼	95	60 - 150	3	30
Perfluorohexanoic acid (PFHxA)	0.19	U	2.38	2.125		ug/Kg	☼	89	65 - 140	8	30
Perfluoroheptanoic acid (PFHpA)	0.11	J	2.38	2.156		ug/Kg	☼	86	65 - 145	8	30
Perfluorooctanoic acid (PFOA)	0.62		2.38	3.004		ug/Kg	☼	100	70 - 150	0	30
Perfluorononanoic acid (PFNA)	0.10	J	2.38	2.372		ug/Kg	☼	95	70 - 155	2	30
Perfluorodecanoic acid (PFDA)	0.13	J	2.38	2.306		ug/Kg	☼	91	70 - 155	2	30
Perfluoroundecanoic acid (PFUnA)	0.19	U	2.38	2.340		ug/Kg	☼	98	70 - 155	2	30
Perfluorododecanoic acid (PFDoA)	0.19	U	2.38	2.358		ug/Kg	☼	99	70 - 150	1	30
Perfluorotridecanoic acid (PFTrDA)	0.19	U	2.38	2.031		ug/Kg	☼	85	65 - 150	1	30
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	2.38	2.119		ug/Kg	☼	89	65 - 150	4	30
Perfluorobutanesulfonic acid (PFBS)	0.19	U	2.12	1.842		ug/Kg	☼	87	65 - 145	6	30
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	2.24	2.073		ug/Kg	☼	93	55 - 160	5	30
Perfluorohexanesulfonic acid (PFHxS)	0.18	J	2.17	2.054		ug/Kg	☼	86	60 - 150	8	30
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	2.27	2.343		ug/Kg	☼	103	65 - 155	5	30
Perfluorooctanesulfonic acid (PFOS)	1.56		2.22	4.908		ug/Kg	☼	151	65 - 160	29	30
Perfluorononanesulfonic acid (PFNS)	0.19	U	2.29	2.175		ug/Kg	☼	95	55 - 140	5	30
Perfluorodecanesulfonic acid (PFDS)	0.19	U	2.30	2.053		ug/Kg	☼	89	40 - 155	4	30
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	2.31	1.906		ug/Kg	☼	82	25 - 160	14	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.39	U	4.47	4.456		ug/Kg	☼	100	60 - 150	5	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.39	U	4.54	4.008		ug/Kg	☼	88	55 - 200	0	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.39	U	4.58	4.372		ug/Kg	☼	95	70 - 150	2	30
Perfluorooctanesulfonamide (PFOSA)	0.19	U	2.38	2.133		ug/Kg	☼	89	70 - 140	8	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	2.38	2.222		ug/Kg	☼	93	70 - 155	6	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	2.38	2.150		ug/Kg	☼	90	70 - 140	9	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	2.38	2.036		ug/Kg	☼	85	65 - 155	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	2.38	2.220		ug/Kg	☼	93	65 - 165	8	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.59	J	11.9	11.31		ug/Kg	☼	90	70 - 140	4	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.67	J *	11.9	10.24		ug/Kg	☼	80	70 - 135	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.19	U	1.79	1.631		ug/Kg	☼	91	70 - 145	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.19	U	2.26	2.193		ug/Kg	☼	97	70 - 160	2	30

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: 460-344049-A-5-C MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 764500
Prep Batch: 764041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.19	U	2.38	2.382		ug/Kg	☼	100	30 - 140	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.19	U	2.38	2.067		ug/Kg	☼	87	60 - 150	7	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.19	U	2.38	2.264		ug/Kg	☼	95	60 - 155	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.19	U	2.23	2.148		ug/Kg	☼	96	70 - 150	4	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.19	U	2.25	2.052		ug/Kg	☼	91	45 - 160	7	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.19	U	2.13	1.834		ug/Kg	☼	86	70 - 140	15	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.39	U	4.77	4.248		ug/Kg	☼	89	45 - 130	3	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.97	U	11.9	9.874		ug/Kg	☼	83	60 - 130	3	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.97	U	11.9	11.47		ug/Kg	☼	96	60 - 150	3	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*95.7*		*8 - 130*
13C5 PFPeA	*97.3*		*35 - 130*
13C5 PFHxA	*101*		*40 - 130*
13C4 PFHpA	*106*		*40 - 130*
13C8 PFOA	*103*		*40 - 130*
13C9 PFNA	*104*		*40 - 130*
13C6 PFDA	*103*		*40 - 130*
13C7 PFUnA	*99.7*		*40 - 130*
13C2 PFTeDA	*82.2*		*20 - 130*
13C3 PFBS	*90.2*		*40 - 135*
13C3 PFHxS	*97.4*		*40 - 130*
13C8 PFOS	*95.0*		*40 - 130*
13C8 FOSA	*98.3*		*40 - 130*
d3-NMeFOSAA	*119*		*40 - 135*
d5-NEtFOSAA	*115*		*40 - 150*
13C2 4:2 FTS	*158*		*40 - 165*
13C2 6:2 FTS	*177*		*40 - 215*
13C2 8:2 FTS	*142*		*40 - 275*
13C3 HFPO-DA	*96.9*		*40 - 130*
d7-N-MeFOSE-M	*61.7*		*20 - 130*
d9-N-EtFOSE-M	*57.6*		*15 - 130*
d5-NEtPFOSA	*86.5*		*10 - 130*
d3-NMePFOSA	*84.0*		*10 - 130*
13C2 PFDoA	*93.1*		*40 - 130*

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: MB 410-765112/1-A
Matrix: Solid
Analysis Batch: 765196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 765112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.39	U	0.39	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.059	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.059	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.39	U	0.39	0.20	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.39	U	0.39	0.20	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.39	U	0.39	0.20	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.98	U	0.98	0.49	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.98	U	0.98	0.49	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: MB 410-765112/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 765196
Prep Batch: 765112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.20	U	0.20	0.098	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.39	U	0.39	0.20	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.98	U	0.98	0.49	ug/Kg		02/05/26 10:14	02/05/26 20:04	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.98	U	0.98	0.49	ug/Kg		02/05/26 10:14	02/05/26 20:04	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88.0*		*8 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C5 PFPeA	*83.3*		*35 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C5 PFHxA	*80.0*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C4 PFHpA	*84.4*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C8 PFOA	*79.8*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C9 PFNA	*78.2*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C6 PFDA	*87.5*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C7 PFUnA	*91.0*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C2 PFTeDA	*84.8*		*20 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C3 PFBS	*81.1*		*40 - 135*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C3 PFHxS	*85.6*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C8 PFOS	*85.1*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C8 FOSA	*70.1*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
d3-NMeFOSAA	*69.8*		*40 - 135*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
d5-NEtFOSAA	*70.0*		*40 - 150*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C2 4:2 FTS	*84.1*		*40 - 165*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C2 6:2 FTS	*83.3*		*40 - 215*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C2 8:2 FTS	*71.6*		*40 - 275*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C3 HFPO-DA	*82.0*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
d7-N-MeFOSE-M	*30.0*		*20 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
d9-N-EtFOSE-M	*25.5*		*15 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
d5-NEtPFOSA	*56.7*		*10 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
d3-NMePFOSA	*60.3*		*10 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*
13C2 PFDoA	*88.5*		*40 - 130*	*02/05/26 10:14*	*02/05/26 20:04*	*1*

Lab Sample ID: LCS 410-765112/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 765196
Prep Batch: 765112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	4.88	4.971		ug/Kg		102	70 - 140
Perfluoropentanoic acid (PFPeA)	2.44	2.446		ug/Kg		100	60 - 150
Perfluorohexanoic acid (PFHxA)	2.44	2.216		ug/Kg		91	65 - 140
Perfluoroheptanoic acid (PFHpA)	2.44	2.257		ug/Kg		93	65 - 145
Perfluorooctanoic acid (PFOA)	2.44	2.405		ug/Kg		99	70 - 150
Perfluorononanoic acid (PFNA)	2.44	2.244		ug/Kg		92	70 - 155
Perfluorodecanoic acid (PFDA)	2.44	2.180		ug/Kg		89	70 - 155

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LCS 410-765112/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 765196
Prep Batch: 765112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.44	2.246		ug/Kg		92	70 - 155
Perfluorododecanoic acid (PFDoA)	2.44	2.554		ug/Kg		105	70 - 150
Perfluorotridecanoic acid (PFTrDA)	2.44	2.477		ug/Kg		102	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.44	2.429		ug/Kg		100	65 - 150
Perfluorobutanesulfonic acid (PFBS)	2.17	2.210		ug/Kg		102	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	2.29	2.289		ug/Kg		100	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.22	2.245		ug/Kg		101	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.33	2.262		ug/Kg		97	65 - 155
Perfluorooctanesulfonic acid (PFOS)	2.27	2.115		ug/Kg		93	65 - 160
Perfluorononanesulfonic acid (PFNS)	2.35	2.087		ug/Kg		89	55 - 140
Perfluorodecanesulfonic acid (PFDS)	2.35	1.823		ug/Kg		78	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	2.37	1.798		ug/Kg		76	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.58	4.608		ug/Kg		101	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.64	4.496		ug/Kg		97	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.68	4.509		ug/Kg		96	70 - 150
Perfluorooctanesulfonamide (PFOSA)	2.44	2.334		ug/Kg		96	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.44	2.495		ug/Kg		102	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.44	2.464		ug/Kg		101	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.44	2.269		ug/Kg		93	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.44	2.517		ug/Kg		103	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.2	12.67		ug/Kg		104	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.2	11.76		ug/Kg		96	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.83	1.902		ug/Kg		104	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.31	2.315		ug/Kg		100	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.44	2.609		ug/Kg		107	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.44	2.269		ug/Kg		93	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.44	2.262		ug/Kg		93	60 - 155

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LCS 410-765112/2-A
Matrix: Solid
Analysis Batch: 765196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 765112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.28	2.016		ug/Kg		88	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.30	1.951		ug/Kg		85	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.18	2.071		ug/Kg		95	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.88	4.961		ug/Kg		102	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.2	10.36		ug/Kg		85	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.2	9.515		ug/Kg		78	60 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*72.9*		*8 - 130*
13C5 PFPeA	*72.2*		*35 - 130*
13C5 PFHxA	*73.5*		*40 - 130*
13C4 PFHpA	*76.5*		*40 - 130*
13C8 PFOA	*73.1*		*40 - 130*
13C9 PFNA	*68.1*		*40 - 130*
13C6 PFDA	*70.0*		*40 - 130*
13C7 PFUnA	*74.2*		*40 - 130*
13C2 PFTeDA	*62.4*		*20 - 130*
13C3 PFBS	*73.1*		*40 - 135*
13C3 PFHxS	*75.8*		*40 - 130*
13C8 PFOS	*71.6*		*40 - 130*
13C8 FOSA	*60.2*		*40 - 130*
d3-NMeFOSAA	*55.0*		*40 - 135*
d5-NEtFOSAA	*54.0*		*40 - 150*
13C2 4:2 FTS	*71.8*		*40 - 165*
13C2 6:2 FTS	*77.2*		*40 - 215*
13C2 8:2 FTS	*62.3*		*40 - 275*
13C3 HFPO-DA	*71.0*		*40 - 130*
d7-N-MeFOSE-M	*8.35*	*	*20 - 130*
d9-N-EtFOSE-M	*5.13*	*	*15 - 130*
d5-NEtPFOSA	*43.5*		*10 - 130*
d3-NMePFOSA	*45.0*		*10 - 130*
13C2 PFDoA	*67.6*		*40 - 130*

Lab Sample ID: LLCS 410-765112/3-A
Matrix: Solid
Analysis Batch: 765196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 765112

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.481	0.431		ug/Kg		90	70 - 140
Perfluoropentanoic acid (PFPeA)	0.240	0.227		ug/Kg		95	60 - 150
Perfluorohexanoic acid (PFHxA)	0.240	0.216		ug/Kg		90	65 - 140
Perfluoroheptanoic acid (PFHpA)	0.240	0.184	J	ug/Kg		76	65 - 145
Perfluorooctanoic acid (PFOA)	0.240	0.213		ug/Kg		89	70 - 150

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LLCS 410-765112/3-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 765196
Prep Batch: 765112

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanoic acid (PFNA)	0.240	0.225		ug/Kg		94	70 - 155
Perfluorodecanoic acid (PFDA)	0.240	0.209		ug/Kg		87	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.240	0.200		ug/Kg		83	70 - 155
Perfluorododecanoic acid (PFDoA)	0.240	0.206		ug/Kg		86	70 - 150
Perfluorotridecanoic acid (PFTrDA)	0.240	0.221		ug/Kg		92	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.240	0.197		ug/Kg		82	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.213	0.187	J	ug/Kg		87	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.226	0.186	J	ug/Kg		82	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.219	0.202		ug/Kg		92	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.229	0.209		ug/Kg		91	65 - 155
Perfluorooctanesulfonic acid (PFOS)	0.224	0.211		ug/Kg		94	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.231	0.181	J	ug/Kg		78	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.232	0.174	J	ug/Kg		75	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.233	0.166	J	ug/Kg		71	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.451	0.380		ug/Kg		84	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.458	0.357	J	ug/Kg		78	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.462	0.398		ug/Kg		86	70 - 150
Perfluorooctanesulfonamide (PFOSA)	0.240	0.224		ug/Kg		93	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.240	0.223		ug/Kg		93	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.240	0.224		ug/Kg		93	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.240	0.213		ug/Kg		89	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.240	0.217		ug/Kg		90	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.20	1.340		ug/Kg		111	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.20	0.843	J	ug/Kg		70	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.180	0.162	J	ug/Kg		90	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.227	0.209		ug/Kg		92	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.240	0.239		ug/Kg		99	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.240	0.208		ug/Kg		87	60 - 150

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LLCS 410-765112/3-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 765196
Prep Batch: 765112

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			0.240	0.225		ug/Kg		94	60 - 155		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)			0.225	0.197		ug/Kg		88	70 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			0.227	0.171	J	ug/Kg		75	45 - 160		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			0.214	0.170	J	ug/Kg		79	70 - 140		
3-Perfluoropropylpropanoic acid (3:3 FTCA)			0.481	0.391		ug/Kg		81	45 - 130		
3-Perfluoropentylpropanoic acid (5:3 FTCA)			1.20	0.872	J	ug/Kg		73	60 - 130		
3-Perfluoroheptylpropanoic acid (7:3 FTCA)			1.20	0.750	J	ug/Kg		62	60 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*84.3*		*8 - 130*
13C5 PFPeA	*83.3*		*35 - 130*
13C5 PFHxA	*85.7*		*40 - 130*
13C4 PFHpA	*86.5*		*40 - 130*
13C8 PFOA	*84.3*		*40 - 130*
13C9 PFNA	*79.7*		*40 - 130*
13C6 PFDA	*83.5*		*40 - 130*
13C7 PFUnA	*96.3*		*40 - 130*
13C2 PFTeDA	*71.9*		*20 - 130*
13C3 PFBS	*86.7*		*40 - 135*
13C3 PFHxS	*86.8*		*40 - 130*
13C8 PFOS	*80.1*		*40 - 130*
13C8 FOSA	*71.2*		*40 - 130*
d3-NMeFOSAA	*66.0*		*40 - 135*
d5-NEtFOSAA	*65.8*		*40 - 150*
13C2 4:2 FTS	*85.9*		*40 - 165*
13C2 6:2 FTS	*95.4*		*40 - 215*
13C2 8:2 FTS	*75.0*		*40 - 275*
13C3 HFPO-DA	*84.6*		*40 - 130*
d7-N-MeFOSE-M	*6.99*	*	*20 - 130*
d9-N-EtFOSE-M	*2.37*	*	*15 - 130*
d5-NEtPFOSA	*50.7*		*10 - 130*
d3-NMePFOSA	*51.7*		*10 - 130*
13C2 PFDoA	*84.5*		*40 - 130*

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-344047-1
Project/Site: Sea Park North - 2828 W 28th Street

Qualifiers

LCMS

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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

LCMS

Analysis Batch: 763219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-344047-7	FB_012926_P	Total/NA	Water	1633A	763508
MB 410-763508/8-A	Method Blank	Total/NA	Water	1633A	763508
LCS 410-763508/9-A	Lab Control Sample	Total/NA	Water	1633A	763508
LCSD 410-763508/10-A	Lab Control Sample Dup	Total/NA	Water	1633A	763508
LLCS 410-763508/11-A	Lab Control Sample	Total/NA	Water	1633A	763508

Prep Batch: 763508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-344047-7	FB_012926_P	Total/NA	Water	1633A	
MB 410-763508/8-A	Method Blank	Total/NA	Water	1633A	
LCS 410-763508/9-A	Lab Control Sample	Total/NA	Water	1633A	
LCSD 410-763508/10-A	Lab Control Sample Dup	Total/NA	Water	1633A	
LLCS 410-763508/11-A	Lab Control Sample	Total/NA	Water	1633A	

Prep Batch: 764041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-764041/1-A	Method Blank	Total/NA	Solid	1633A	
LCS 410-764041/2-A	Lab Control Sample	Total/NA	Solid	1633A	
LLCS 410-764041/3-A	Lab Control Sample	Total/NA	Solid	1633A	
460-344049-A-5-B MS	Matrix Spike	Total/NA	Solid	1633A	
460-344049-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	1633A	

Analysis Batch: 764500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-764041/1-A	Method Blank	Total/NA	Solid	1633A	764041
LCS 410-764041/2-A	Lab Control Sample	Total/NA	Solid	1633A	764041
LLCS 410-764041/3-A	Lab Control Sample	Total/NA	Solid	1633A	764041
460-344049-A-5-B MS	Matrix Spike	Total/NA	Solid	1633A	764041
460-344049-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	1633A	764041

Prep Batch: 765112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-344047-1	RXSB-19 (0-2)_P	Total/NA	Solid	1633A	
460-344047-2	RXSB-19 (6-8)_P	Total/NA	Solid	1633A	
460-344047-3	RXSB-16 (0-2)_P	Total/NA	Solid	1633A	
460-344047-4	RXSB-16 (6-8)_P	Total/NA	Solid	1633A	
460-344047-5	RXSB-17 (6-8)_P	Total/NA	Solid	1633A	
460-344047-6	DUP_012926	Total/NA	Solid	1633A	
MB 410-765112/1-A	Method Blank	Total/NA	Solid	1633A	
LCS 410-765112/2-A	Lab Control Sample	Total/NA	Solid	1633A	
LLCS 410-765112/3-A	Lab Control Sample	Total/NA	Solid	1633A	

Analysis Batch: 765196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-344047-1	RXSB-19 (0-2)_P	Total/NA	Solid	1633A	765112
460-344047-2	RXSB-19 (6-8)_P	Total/NA	Solid	1633A	765112
460-344047-3	RXSB-16 (0-2)_P	Total/NA	Solid	1633A	765112
460-344047-4	RXSB-16 (6-8)_P	Total/NA	Solid	1633A	765112
460-344047-5	RXSB-17 (6-8)_P	Total/NA	Solid	1633A	765112
460-344047-6	DUP_012926	Total/NA	Solid	1633A	765112
MB 410-765112/1-A	Method Blank	Total/NA	Solid	1633A	765112

LCMS (Continued)

Analysis Batch: 765196 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-765112/2-A	Lab Control Sample	Total/NA	Solid	1633A	765112
LLCS 410-765112/3-A	Lab Control Sample	Total/NA	Solid	1633A	765112

General Chemistry

Analysis Batch: 763300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-344047-1	RXSB-19 (0-2)_P	Total/NA	Solid	Moisture	
460-344047-2	RXSB-19 (6-8)_P	Total/NA	Solid	Moisture	
460-344047-3	RXSB-16 (0-2)_P	Total/NA	Solid	Moisture	
460-344047-4	RXSB-16 (6-8)_P	Total/NA	Solid	Moisture	
460-344047-5	RXSB-17 (6-8)_P	Total/NA	Solid	Moisture	
460-344047-6	DUP_012926	Total/NA	Solid	Moisture	

Client Sample ID: RXSB-19 (0-2)_P
Lab Sample ID: 460-344047-1
Date Collected: 01/29/26 09:45
Matrix: Solid
Date Received: 01/29/26 19:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	763300	E5GC	ELLE	02/02/26 08:45

Client Sample ID: RXSB-19 (0-2)_P
Lab Sample ID: 460-344047-1
Date Collected: 01/29/26 09:45
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633A			765112	RZZ4	ELLE	02/05/26 10:14
Total/NA	Analysis	1633A		1	765196	XBL5	ELLE	02/05/26 20:45

Client Sample ID: RXSB-19 (6-8)_P
Lab Sample ID: 460-344047-2
Date Collected: 01/29/26 10:20
Matrix: Solid
Date Received: 01/29/26 19:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	763300	E5GC	ELLE	02/02/26 08:45

Client Sample ID: RXSB-19 (6-8)_P
Lab Sample ID: 460-344047-2
Date Collected: 01/29/26 10:20
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633A			765112	RZZ4	ELLE	02/05/26 10:14
Total/NA	Analysis	1633A		1	765196	XBL5	ELLE	02/05/26 20:59

Client Sample ID: RXSB-16 (0-2)_P
Lab Sample ID: 460-344047-3
Date Collected: 01/29/26 12:00
Matrix: Solid
Date Received: 01/29/26 19:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	763300	E5GC	ELLE	02/02/26 08:45

Client Sample ID: RXSB-16 (0-2)_P
Lab Sample ID: 460-344047-3
Date Collected: 01/29/26 12:00
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633A			765112	RZZ4	ELLE	02/05/26 10:14
Total/NA	Analysis	1633A		1	765196	XBL5	ELLE	02/05/26 21:12

Client Sample ID: RXSB-16 (6-8)_P
Lab Sample ID: 460-344047-4
Date Collected: 01/29/26 12:20
Matrix: Solid
Date Received: 01/29/26 19:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	763300	E5GC	ELLE	02/02/26 08:45

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-344047-1
Project/Site: Sea Park North - 2828 W 28th Street

Client Sample ID: RXSB-16 (6-8)_P
Lab Sample ID: 460-344047-4
Date Collected: 01/29/26 12:20
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633A			765112	RZZ4	ELLE	02/05/26 10:14
Total/NA	Analysis	1633A		1	765196	XBL5	ELLE	02/05/26 21:26

Client Sample ID: RXSB-17 (6-8)_P
Lab Sample ID: 460-344047-5
Date Collected: 01/29/26 13:40
Matrix: Solid
Date Received: 01/29/26 19:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	763300	E5GC	ELLE	02/02/26 08:45

Client Sample ID: RXSB-17 (6-8)_P
Lab Sample ID: 460-344047-5
Date Collected: 01/29/26 13:40
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633A			765112	RZZ4	ELLE	02/05/26 10:14
Total/NA	Analysis	1633A		1	765196	XBL5	ELLE	02/05/26 21:40

Client Sample ID: DUP_012926
Lab Sample ID: 460-344047-6
Date Collected: 01/29/26 11:00
Matrix: Solid
Date Received: 01/29/26 19:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	763300	E5GC	ELLE	02/02/26 08:45

Client Sample ID: DUP_012926
Lab Sample ID: 460-344047-6
Date Collected: 01/29/26 11:00
Matrix: Solid
Date Received: 01/29/26 19:45
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633A			765112	RZZ4	ELLE	02/05/26 10:14
Total/NA	Analysis	1633A		1	765196	XBL5	ELLE	02/05/26 21:53

Client Sample ID: FB_012926_P
Lab Sample ID: 460-344047-7
Date Collected: 01/29/26 15:00
Matrix: Water
Date Received: 01/29/26 19:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633A			763508	Y4GV	ELLE	02/02/26 14:36
Total/NA	Analysis	1633A		1	763219	VGQ7	ELLE	02/02/26 23:32

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-344047-1
Project/Site: Sea Park North - 2828 W 28th Street

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-26

The following analytes are included in this report, but the laboratory is not certified by New York NELAP 10670. This list may include analytes for which the agency does not offer certification:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
1633_125_CAL1_00074	03/09/26	11/12/25	Methanol, Lot 9472110292533A	10 mL	1633_125_IN_B_00019	0.2 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.0446 ng/mL
							bis(trifluoromethane)sulfonimide	0.04895 ng/mL
							Perfluorononanesulfonic acid (PFNS)	0.0481 ng/mL
							Perfluorooctanoic acid (PFOA)	0.05 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	0.05 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.05 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.0473 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	0.0465 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	0.047 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	0.05 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.05 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.05 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	0.05 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	0.05 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.05 ng/mL
							PFECHS	0.0462 ng/mL
							FBSA	0.05 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.0938 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.0952 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.25 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	0.0456 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	0.0477 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	0.05 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.0467 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.0472 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.1 ng/mL
							FHxSA	0.05 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	0.0482 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	0.0485 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.096 ng/mL
							Perfluoropentanoic acid (PFPeA)	0.05 ng/mL
							Perfluorohexanoic acid (PFHxA)	0.05 ng/mL
							Perfluorododecanoic acid (PFDoA)	0.05 ng/mL
							Perfluorooctadecanoic acid	0.05 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	0.0444 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.25 ng/mL
							Perfluoropropionic acid	0.25 ng/mL
							Perfluorobutanoic acid (PFBA)	0.1 ng/mL
							Perfluoroheptanoic acid (PFHpA)	0.05 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.0375 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.25 ng/mL
							Perfluorononanoic acid (PFNA)	0.05 ng/mL
							Perfluoroundecanoic acid (PFUnA)	0.05 ng/mL
							Perfluorodecanoic acid (PFDA)	0.05 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	0.05 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.25 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00190	0.05 mL	d3-NMePFOSA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C8 FOSA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C5 PFHxA	2 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							13C3 PFHxS	1.896 ng/mL
							13C3 PFBS	1.864 ng/mL
							13C7 PFUnA	2 ng/mL
							13C3-PFPrA	2 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							d7-N-MeFOSE-M	5 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C4 PFHpA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C4 PFBA	2 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
.1633_125_IN_B_00019	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	1633_125_IN_A_00089	0.1 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23 ng/mL
							bis(trifluoromethane)sulfonimide	2.4475 ng/mL
							Perfluorononanesulfonic acid (PFNS)	2.405 ng/mL
							Perfluorooctanoic acid (PFOA)	2.5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	2.5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.365 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	2.325 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	2.35 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	2.5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	2.5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	2.5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECHS	2.31 ng/mL
							FBSA	2.5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	2.28 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	2.385 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	2.5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.335 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	5 ng/mL
							FHxSA	2.5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	2.41 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	2.425 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.8 ng/mL
							Perfluoropentanoic acid (PFPeA)	2.5 ng/mL
							Perfluorohexanoic acid (PFHxA)	2.5 ng/mL
							Perfluorododecanoic acid (PFDoA)	2.5 ng/mL
							Perfluorooctadecanoic acid	2.5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	2.22 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5 ng/mL
							Perfluoropropionic acid	12.5 ng/mL
							Perfluorobutanoic acid (PFBA)	5 ng/mL
							Perfluoroheptanoic acid (PFHpA)	2.5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.875 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5 ng/mL
							Perfluorononanoic acid (PFNA)	2.5 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluoroundecanoic acid (PFUnA)	2.5 ng/mL
							Perfluorodecanoic acid (PFDA)	2.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	2.5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5 ng/mL
..1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
...PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
...PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
...PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
...PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
...PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
...PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
...PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
...PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
...PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
...PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
...PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
...PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
...PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
...PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
...PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
...PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
...PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
...PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
...PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
...PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
...PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
...PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
...PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
...PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
...PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
...PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
...PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
...PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
...PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
...PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
...PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
...PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
...PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
...PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
...PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
...PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
...PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
...PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
...PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
...PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
...PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
...PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
...PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
...PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00190	05/11/26	11/11/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04597	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_04769	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05001	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05002	0.2 mL	13C8 FOSA	400 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05016	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05037	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05059	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05061	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05074	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05078	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05107	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05111	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05121	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05153	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05167	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05176	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05191	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05195	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05200	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05207	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05214	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05217	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05236	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05251	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05259	0.5 mL	d5-NEtFOSAA	1000 ng/mL
..PFC_ST_04597	11/11/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_04769	11/11/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
..PFC_ST_05001	11/11/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05002	11/11/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05016	11/11/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
..PFC_ST_05037	11/11/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05059	11/11/26	Wellington Laboratories, Lot M3PFHxS0425			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05061	11/11/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05074	11/11/26	Wellington Laboratories, Lot M7PFUdA0725			(Purchased Reagent)		13C7 PFUnA	50000 ng/mL
..PFC_ST_05078	11/11/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05107	10/27/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05111	11/11/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05121	11/11/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05153	11/11/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05167	11/11/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05176	11/11/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05191	11/11/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
..PFC_ST_05195	11/11/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05200	11/11/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05207	11/11/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05214	11/11/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05217	11/11/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05236	11/11/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05251	11/11/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
..PFC_ST_05259	11/11/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
1633_125_CAL1_00080	03/09/26	01/20/26	Methanol, Lot 109223010726B	10 mL	1633_125_IN_B_00019	0.2 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.0446 ng/mL
							bis(trifluoromethane)sulfonimide	0.04895 ng/mL
							Perfluorononanesulfonic acid (PFNS)	0.0481 ng/mL
							Perfluorooctanoic acid (PFOA)	0.05 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	0.05 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.05 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.0473 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	0.0465 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	0.047 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	0.05 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.05 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.05 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	0.05 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	0.05 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.05 ng/mL
							PFECHS	0.0462 ng/mL
							FBSA	0.05 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.0938 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.0952 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.25 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	0.0456 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	0.0477 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	0.05 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.0467 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.0472 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.1 ng/mL
							FHxSA	0.05 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	0.0482 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	0.0485 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.096 ng/mL
							Perfluoropentanoic acid (PFPeA)	0.05 ng/mL
							Perfluorohexanoic acid (PFHxA)	0.05 ng/mL
							Perfluorododecanoic acid (PFDoA)	0.05 ng/mL
							Perfluorooctadecanoic acid	0.05 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	0.0444 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.25 ng/mL
							Perfluoropropionic acid	0.25 ng/mL
							Perfluorobutanoic acid (PFBA)	0.1 ng/mL
							Perfluoroheptanoic acid (PFHpA)	0.05 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.0375 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.25 ng/mL
							Perfluorononanoic acid (PFNA)	0.05 ng/mL
							Perfluoroundecanoic acid (PFUnA)	0.05 ng/mL
							Perfluorodecanoic acid (PFDA)	0.05 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	0.05 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.25 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					1633_125_SS_00211	0.05 mL	d7-N-MeFOSE-M	5 ng/mL
							13C4 PFHpA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C7 PFUnA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							d3-NMePFOSA	2 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C4 PFBA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3-PFPrA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							13C3 PFBS	1.864 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C8 FOSA	2 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
.1633_125_IN_B_00019	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	1633_125_IN_A_00089	0.1 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23 ng/mL
							bis(trifluoromethane)sulfonimide	2.4475 ng/mL
							Perfluorononanesulfonic acid (PFNS)	2.405 ng/mL
							Perfluorooctanoic acid (PFOA)	2.5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	2.5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.365 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	2.325 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	2.35 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	2.5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.5 ng/mL

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Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorotridecanoic acid (PFTrDA)	2.5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	2.5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.5 ng/mL
							PFECHS	2.31 ng/mL
							FBSA	2.5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	2.28 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	2.385 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	2.5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.335 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	5 ng/mL
							FHxSA	2.5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	2.41 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	2.425 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.8 ng/mL
							Perfluoropentanoic acid (PFPeA)	2.5 ng/mL
							Perfluorohexanoic acid (PFHxA)	2.5 ng/mL
							Perfluorododecanoic acid (PFDoA)	2.5 ng/mL
							Perfluorooctadecanoic acid	2.5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	2.22 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5 ng/mL
							Perfluoropropionic acid	12.5 ng/mL
							Perfluorobutanoic acid (PFBA)	5 ng/mL
							Perfluoroheptanoic acid (PFHpA)	2.5 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.875 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5 ng/mL
							Perfluorononanoic acid (PFNA)	2.5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	2.5 ng/mL
							Perfluorodecanoic acid (PFDA)	2.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	2.5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5 ng/mL
..1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
...PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
...PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
...PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
...PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
...PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
...PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
...PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
...PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
...PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
...PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
...PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
...PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
...PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
...PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
...PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
...PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
...PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
...PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
...PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
...PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
...PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
...PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
...PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
...PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
...PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
...PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
...PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
...PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
...PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
...PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
...PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
...PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
...PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
...PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
...PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
...PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
...PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
...PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
...PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
...PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
...PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
...PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
...PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
...PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00211	07/19/26	01/19/26	Methanol, Lot EK350-US	25 mL	PFC_ST_05275	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05300	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05332	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05335	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05463	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05846	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
..PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
..PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
..PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL
..PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL
..PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
1633_125_CAL2_00034	02/17/26	11/12/25	Methanol, Lot 9472110292533A	10 mL	1633_125_IN_B_00019	0.5 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.1115 ng/mL
							bis(trifluoromethane)sulfonimide	0.122375 ng/mL
							Perfluorononanesulfonic acid (PFNS)	0.12025 ng/mL
							Perfluorooctanoic acid (PFOA)	0.125 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	0.125 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.125 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.11825 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	0.11625 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	0.1175 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	0.125 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.125 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.125 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	0.125 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	0.125 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.125 ng/mL
							PFECHS	0.1155 ng/mL
							FBSA	0.125 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.2345 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.238 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.625 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	0.114 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	0.11925 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	0.125 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.11675 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.118 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.25 ng/mL
							FHxSA	0.125 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	0.1205 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	0.12125 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.24 ng/mL
							Perfluoropentanoic acid (PFPeA)	0.125 ng/mL
							Perfluorohexanoic acid (PFHxA)	0.125 ng/mL
							Perfluorododecanoic acid (PFDoA)	0.125 ng/mL
							Perfluorooctadecanoic acid	0.125 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	0.111 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.625 ng/mL
							Perfluoropropionic acid	0.625 ng/mL
							Perfluorobutanoic acid (PFBA)	0.25 ng/mL
							Perfluoroheptanoic acid (PFHpA)	0.125 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.09375 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.625 ng/mL
							Perfluorononanoic acid (PFNA)	0.125 ng/mL
							Perfluoroundecanoic acid (PFUnA)	0.125 ng/mL
							Perfluorodecanoic acid (PFDA)	0.125 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	0.125 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.625 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00190	0.05 mL	d3-NMePFOSA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C8 FOSA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							13C3 PFBS	1.864 ng/mL
							13C7 PFUnA	2 ng/mL
							13C3-PFPrA	2 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							d7-N-MeFOSE-M	5 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C4 PFHpA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C4 PFBA	2 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
.1633_125_IN_B_00019	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	1633_125_IN_A_00089	0.1 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23 ng/mL
							bis(trifluoromethane)sulfonimide	2.4475 ng/mL
							Perfluorononanesulfonic acid (PFNS)	2.405 ng/mL
							Perfluorooctanoic acid (PFOA)	2.5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	2.5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.365 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorooctanesulfonic acid (PFOS)	2.325 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	2.35 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	2.5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	2.5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	2.5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.5 ng/mL
							PFECHS	2.31 ng/mL
							FBSA	2.5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	2.28 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	2.385 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	2.5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.335 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	5 ng/mL
							FHxSA	2.5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	2.41 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	2.425 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.8 ng/mL
							Perfluoropentanoic acid (PFPeA)	2.5 ng/mL
							Perfluorohexanoic acid (PFHxA)	2.5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorododecanoic acid (PFDoA)	2.5 ng/mL
							Perfluorooctadecanoic acid	2.5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	2.22 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5 ng/mL
							Perfluoropropionic acid	12.5 ng/mL
							Perfluorobutanoic acid (PFBA)	5 ng/mL
							Perfluoroheptanoic acid (PFHpA)	2.5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.875 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5 ng/mL
							Perfluorononanoic acid (PFNA)	2.5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	2.5 ng/mL
							Perfluorodecanoic acid (PFDA)	2.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	2.5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5 ng/mL
..1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
...PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
...PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
...PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
...PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
...PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
...PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
...PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
...PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
...PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
...PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
...PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
...PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
...PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
...PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
...PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
...PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
...PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
...PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
...PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
...PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
...PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
...PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
...PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
...PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
...PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
...PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
...PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
...PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
...PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
...PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
...PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
...PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
...PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
...PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
...PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
...PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
...PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
...PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
...PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
...PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
...PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
...PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
...PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
...PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
...PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00190	05/11/26	11/11/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04597	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_04769	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05001	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05002	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05016	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05037	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05059	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05061	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05074	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05078	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05107	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05111	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05121	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05153	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05167	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05176	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05191	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05195	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05200	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05207	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05214	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05217	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05236	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05251	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05259	0.5 mL	d5-NEtFOSAA	1000 ng/mL
..PFC_ST_04597	11/11/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_04769	11/11/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
..PFC_ST_05001	11/11/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05002	11/11/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05016	11/11/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
..PFC_ST_05037	11/11/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05059	11/11/26	Wellington Laboratories, Lot M3PFHxS0425			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05061	11/11/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05074	11/11/26	Wellington Laboratories, Lot M7PFUdA0725			(Purchased Reagent)		13C7 PFUnA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05078	11/11/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05107	10/27/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05111	11/11/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05121	11/11/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05153	11/11/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05167	11/11/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05176	11/11/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05191	11/11/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
..PFC_ST_05195	11/11/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05200	11/11/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05207	11/11/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05214	11/11/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05217	11/11/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05236	11/11/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05251	11/11/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
..PFC_ST_05259	11/11/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
1633_125_CAL2_00036	03/09/26	01/20/26	Methanol, Lot 109223010726B	10 mL	1633_125_IN_B_00019	0.5 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.1115 ng/mL
							bis(trifluoromethane)sulfonimide	0.122375 ng/mL
							Perfluorononanesulfonic acid (PFNS)	0.12025 ng/mL
							Perfluorooctanoic acid (PFOA)	0.125 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	0.125 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.125 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.11825 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	0.11625 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	0.1175 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	0.125 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.125 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.125 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	0.125 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	0.125 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.125 ng/mL
							PFECHS	0.1155 ng/mL
							FBSA	0.125 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.2345 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.238 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.625 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	0.114 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	0.11925 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	0.125 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.11675 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.118 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.25 ng/mL
							FHxSA	0.125 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	0.1205 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	0.12125 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.24 ng/mL
							Perfluoropentanoic acid (PFPeA)	0.125 ng/mL
							Perfluorohexanoic acid (PFHxA)	0.125 ng/mL
							Perfluorododecanoic acid (PFDoA)	0.125 ng/mL
							Perfluorooctadecanoic acid	0.125 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	0.111 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.625 ng/mL
							Perfluoropropionic acid	0.625 ng/mL
							Perfluorobutanoic acid (PFBA)	0.25 ng/mL
							Perfluoroheptanoic acid (PFHpA)	0.125 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.09375 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.625 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorononanoic acid (PFNA)	0.125 ng/mL
							Perfluoroundecanoic acid (PFUnA)	0.125 ng/mL
							Perfluorodecanoic acid (PFDA)	0.125 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	0.125 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.625 ng/mL
					1633_125_IS_00081	0.05 mL	13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							18O2 PFHxS	1.896 ng/mL
							13C3-PFBA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C2 PFHxA	5 ng/mL
							13C4 PFOA	5 ng/mL
					1633_125_SS_00211	0.05 mL	d7-N-MeFOSE-M	5 ng/mL
							13C4 PFHpA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C7 PFUnA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							d3-NMePFOSA	2 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C4 PFBA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3-PFPrA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							13C3 PFBS	1.864 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C8 FOSA	2 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
.1633_125_IN_B_00019	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	1633_125_IN_A_00089	0.1 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23 ng/mL
							bis(trifluoromethane)sulfonimide	2.4475 ng/mL
							Perfluorononanesulfonic acid (PFNS)	2.405 ng/mL
							Perfluorooctanoic acid (PFOA)	2.5 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorooctanesulfonamide (PFOSA)	2.5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.365 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	2.325 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	2.35 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	2.5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	2.5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	2.5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.5 ng/mL
							PFECHS	2.31 ng/mL
							FBSA	2.5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	2.28 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	2.385 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	2.5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.335 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	5 ng/mL
							FHxSA	2.5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	2.41 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	2.425 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.8 ng/mL
							Perfluoropentanoic acid (PFPeA)	2.5 ng/mL
							Perfluorohexanoic acid (PFHxA)	2.5 ng/mL
							Perfluorododecanoic acid (PFDoA)	2.5 ng/mL
							Perfluorooctadecanoic acid	2.5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	2.22 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5 ng/mL
							Perfluoropropionic acid	12.5 ng/mL
							Perfluorobutanoic acid (PFBA)	5 ng/mL
							Perfluoroheptanoic acid (PFHpA)	2.5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.875 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5 ng/mL
							Perfluorononanoic acid (PFNA)	2.5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	2.5 ng/mL
							Perfluorodecanoic acid (PFDA)	2.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	2.5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5 ng/mL
..1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
...PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
...PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
...PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
...PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
...PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
...PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
...PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
...PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
...PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
...PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
...PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
...PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
...PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
...PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
...PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
...PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
...PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
...PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
...PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
...PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
...PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
...PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
...PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
...PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
...PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
...PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
...PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
...PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
...PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
...PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
...PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
...PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
...PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
...PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
...PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
...PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
...PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
...PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
...PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
...PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
...PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
...PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
...PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
...PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
...PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.1633_125_IS_00081	04/28/26	10/29/25	Methanol, Lot 253669	10 mL	PFC_ST_04183	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_04184	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_04195	0.08 mL	18O2 PFHxS	379.2 ng/mL
					PFC_ST_04248	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_04261	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_04290	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_04469	0.2 mL	13C4 PFOA	1000 ng/mL
..PFC_ST_04183	08/11/26	Wellington Laboratories, Lot MPFNA1024			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_04184	08/11/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_04195	08/11/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
..PFC_ST_04248	06/04/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_04261	08/08/26	Wellington Laboratories, Lot MPFOS0325			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_04290	08/11/26	Wellington Laboratories, Lot MPFHxA1124			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_04469	08/11/26	Wellington Laboratories, Lot MPFOA1124			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
.1633_125_SS_00211	07/19/26	01/19/26	Methanol, Lot EK350-US	25 mL	PFC_ST_05275	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05300	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05332	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05335	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05463	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05846	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
..PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
..PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL
..PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL
..PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
1633_125_CAL3_00034	03/09/26	11/12/25	Methanol, Lot 9472110292533A	10 mL	1633_125_IN_A_00089	0.02 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.446 ng/mL
							bis(trifluoromethane)sulfonimide	0.4895 ng/mL
							Perfluorononanesulfonic acid (PFNS)	0.481 ng/mL
							Perfluorooctanoic acid (PFOA)	0.5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	0.5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.473 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	0.465 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	0.47 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	0.5 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	0.5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	0.5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.5 ng/mL
							PFECHS	0.462 ng/mL
							FBSA	0.5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.938 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.952 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.5 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	0.456 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	0.477 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	0.5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.467 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.472 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	1 ng/mL
							FHxSA	0.5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	0.482 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	0.485 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.96 ng/mL
							Perfluoropentanoic acid (PFPeA)	0.5 ng/mL
							Perfluorohexanoic acid (PFHxA)	0.5 ng/mL
							Perfluorododecanoic acid (PFDoA)	0.5 ng/mL
							Perfluorooctadecanoic acid	0.5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	0.444 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	2.5 ng/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluoropropionic acid	2.5 ng/mL
							Perfluorobutanoic acid (PFBA)	1 ng/mL
							Perfluoroheptanoic acid (PFHpA)	0.5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.375 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.5 ng/mL
							Perfluorononanoic acid (PFNA)	0.5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	0.5 ng/mL
							Perfluorodecanoic acid (PFDA)	0.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	0.5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	2.5 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00190	0.05 mL	d3-NMePFOSA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C8 FOSA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							13C3 PFBS	1.864 ng/mL
							13C7 PFUnA	2 ng/mL
							13C3-PFPrA	2 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							d7-N-MeFOSE-M	5 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C4 PFHpA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C4 PFBA	2 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d9-N-EtFOSE-M	5 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							d5-NEtFOSAA	5 ng/mL
.1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00190	05/11/26	11/11/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04597	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_04769	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05001	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05002	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05016	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05037	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05059	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05061	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05074	0.2 mL	13C7 PFUnA	400 ng/mL

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					Reagent ID	Volume Added		
					PFC_ST_05078	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05107	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05111	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05121	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05153	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05167	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05176	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05191	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05195	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05200	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05207	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05214	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05217	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05236	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05251	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05259	0.5 mL	d5-NEtFOSAA	1000 ng/mL
..PFC_ST_04597	11/11/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_04769	11/11/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
..PFC_ST_05001	11/11/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05002	11/11/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05016	11/11/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
..PFC_ST_05037	11/11/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05059	11/11/26	Wellington Laboratories, Lot M3PFHxS0425			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05061	11/11/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05074	11/11/26	Wellington Laboratories, Lot M7PFUdA0725			(Purchased Reagent)		13C7 PFUnA	50000 ng/mL
..PFC_ST_05078	11/11/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05107	10/27/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05111	11/11/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05121	11/11/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05153	11/11/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05167	11/11/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05176	11/11/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05191	11/11/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
..PFC_ST_05195	11/11/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05200	11/11/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05207	11/11/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05214	11/11/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05217	11/11/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05236	11/11/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05251	11/11/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g

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					Reagent ID	Volume Added		
..PFC_ST_05259	11/11/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
1633_125_CAL3_00036	03/09/26	01/20/26	Methanol, Lot 109223010726B	10 mL	1633_125_IN_A_00089	0.02 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.446 ng/mL
							bis(trifluoromethane)sulfonimide	0.4895 ng/mL
							Perfluorononanesulfonic acid (PFNS)	0.481 ng/mL
							Perfluorooctanoic acid (PFOA)	0.5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	0.5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.473 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	0.465 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	0.47 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	0.5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	0.5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	0.5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.5 ng/mL
							PFECHS	0.462 ng/mL
							FBSA	0.5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.938 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.952 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.5 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	0.456 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	0.477 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	0.5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.467 ng/mL

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					Reagent ID	Volume Added		
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.472 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	1 ng/mL
							FHxSA	0.5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	0.482 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	0.485 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.96 ng/mL
							Perfluoropentanoic acid (PFPeA)	0.5 ng/mL
							Perfluorohexanoic acid (PFHxA)	0.5 ng/mL
							Perfluorododecanoic acid (PFDoA)	0.5 ng/mL
							Perfluorooctadecanoic acid	0.5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	0.444 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	2.5 ng/mL
							Perfluoropropionic acid	2.5 ng/mL
							Perfluorobutanoic acid (PFBA)	1 ng/mL
							Perfluoroheptanoic acid (PFHpA)	0.5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.375 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.5 ng/mL
							Perfluorononanoic acid (PFNA)	0.5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	0.5 ng/mL
							Perfluorodecanoic acid (PFDA)	0.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	0.5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	2.5 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00211	0.05 mL	d7-N-MeFOSE-M	5 ng/mL
							13C4 PFHpA	2 ng/mL
							13C8 PFOA	2 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							13C6 PFDA	2 ng/mL
							13C7 PFUnA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							d3-NMePFOSA	2 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C4 PFBA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3-PFPrA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							13C3 PFBS	1.864 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C8 FOSA	2 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
.1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00211	07/19/26	01/19/26	Methanol, Lot EK350-US	25 mL	PFC_ST_05275	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05300	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05332	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05335	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05463	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05846	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
..PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
..PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
..PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL
..PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
1633_125_CAL4_00077	02/17/26	11/12/25	Methanol, Lot 9472110292533A	10 mL	1633_125_IN_A_00089	0.04 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.892 ng/mL
							bis(trifluoromethane)sulfonimide	0.979 ng/mL
							Perfluorononanesulfonic acid (PFNS)	0.962 ng/mL
							Perfluorooctanoic acid (PFOA)	1 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	1 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.946 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	0.93 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	0.94 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	1 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	1 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorotridecanoic acid (PFTrDA)	1 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	1 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1 ng/mL
							PFECHS	0.924 ng/mL
							FBSA	1 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.876 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.904 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	5 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	0.912 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	0.954 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	1 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.934 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.944 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	2 ng/mL
							FHxSA	1 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	0.964 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	0.97 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92 ng/mL
							Perfluoropentanoic acid (PFPeA)	1 ng/mL
							Perfluorohexanoic acid (PFHxA)	1 ng/mL
							Perfluorododecanoic acid (PFDoA)	1 ng/mL
							Perfluorooctadecanoic acid	1 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	0.888 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5 ng/mL
							Perfluoropropionic acid	5 ng/mL
							Perfluorobutanoic acid (PFBA)	2 ng/mL
							Perfluoroheptanoic acid (PFHpA)	1 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.75 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	5 ng/mL
							Perfluorononanoic acid (PFNA)	1 ng/mL
							Perfluoroundecanoic acid (PFUnA)	1 ng/mL
							Perfluorodecanoic acid (PFDA)	1 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	1 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	5 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00190	0.05 mL	d3-NMePFOSA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C8 FOSA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							13C3 PFBS	1.864 ng/mL
							13C7 PFUnA	2 ng/mL
							13C3-PFPrA	2 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							d7-N-MeFOSE-M	5 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C4 PFHpA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C4 PFBA	2 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
.1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00190	05/11/26	11/11/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04597	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_04769	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05001	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05002	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05016	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05037	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05059	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05061	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05074	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05078	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05107	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05111	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05121	0.5 mL	13C2 8:2 FTS	960 ng/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05153	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05167	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05176	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05191	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05195	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05200	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05207	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05214	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05217	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05236	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05251	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05259	0.5 mL	d5-NEtFOSAA	1000 ng/mL
..PFC_ST_04597	11/11/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_04769	11/11/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
..PFC_ST_05001	11/11/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05002	11/11/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05016	11/11/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
..PFC_ST_05037	11/11/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05059	11/11/26	Wellington Laboratories, Lot M3PFHxS0425			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05061	11/11/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05074	11/11/26	Wellington Laboratories, Lot M7PFUdA0725			(Purchased Reagent)		13C7 PFUnA	50000 ng/mL
..PFC_ST_05078	11/11/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05107	10/27/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05111	11/11/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05121	11/11/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05153	11/11/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05167	11/11/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05176	11/11/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05191	11/11/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
..PFC_ST_05195	11/11/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05200	11/11/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05207	11/11/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05214	11/11/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05217	11/11/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05236	11/11/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05251	11/11/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
..PFC_ST_05259	11/11/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
1633_125_CAL4_00083	03/09/26	01/20/26	Methanol, Lot 109223010726B	10 mL	1633_125_IN_A_00089	0.04 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.892 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							bis(trifluoromethane)sulfonimide	0.979 ng/mL
							Perfluorononanesulfonic acid (PFNS)	0.962 ng/mL
							Perfluorooctanoic acid (PFOA)	1 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	1 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.946 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	0.93 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	0.94 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	1 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	1 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	1 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	1 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1 ng/mL
							PFECHS	0.924 ng/mL
							FBSA	1 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.876 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.904 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	5 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	0.912 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	0.954 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	1 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.934 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.944 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	2 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							FHxSA	1 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	0.964 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	0.97 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92 ng/mL
							Perfluoropentanoic acid (PFPeA)	1 ng/mL
							Perfluorohexanoic acid (PFHxA)	1 ng/mL
							Perfluorododecanoic acid (PFDoA)	1 ng/mL
							Perfluorooctadecanoic acid	1 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	0.888 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5 ng/mL
							Perfluoropropionic acid	5 ng/mL
							Perfluorobutanoic acid (PFBA)	2 ng/mL
							Perfluoroheptanoic acid (PFHpA)	1 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.75 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	5 ng/mL
							Perfluorononanoic acid (PFNA)	1 ng/mL
							Perfluoroundecanoic acid (PFUnA)	1 ng/mL
							Perfluorodecanoic acid (PFDA)	1 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	1 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	5 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00211	0.05 mL	d7-N-MeFOSE-M	5 ng/mL
							13C4 PFHpA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C7 PFUnA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							d3-NMePFOSA	2 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C4 PFBA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3-PFPrA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							13C3 PFBS	1.864 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C8 FOSA	2 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
.1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00211	07/19/26	01/19/26	Methanol, Lot EK350-US	25 mL	PFC_ST_05275	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05300	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05332	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05335	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05463	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05846	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
..PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
..PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
..PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL
..PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL
..PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
1633_125_CAL5_00036	03/09/26	11/12/25	Methanol, Lot 9472110292533A	10 mL	1633_125_IN_A_00089	0.1 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23 ng/mL
							bis(trifluoromethane)sulfonimide	2.4475 ng/mL
							Perfluorononanesulfonic acid (PFNS)	2.405 ng/mL
							Perfluorooctanoic acid (PFOA)	2.5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	2.5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.365 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	2.325 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	2.35 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	2.5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	2.5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	2.5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.5 ng/mL
							PFECHS	2.31 ng/mL
							FBSA	2.5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	2.28 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	2.385 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	2.5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.335 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	5 ng/mL
							FHxSA	2.5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	2.41 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	2.425 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.8 ng/mL
							Perfluoropentanoic acid (PFPeA)	2.5 ng/mL
							Perfluorohexanoic acid (PFHxA)	2.5 ng/mL
							Perfluorododecanoic acid (PFDoA)	2.5 ng/mL
							Perfluorooctadecanoic acid	2.5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	2.22 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5 ng/mL
							Perfluoropropionic acid	12.5 ng/mL
							Perfluorobutanoic acid (PFBA)	5 ng/mL
							Perfluoroheptanoic acid (PFHpA)	2.5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.875 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorononanoic acid (PFNA)	2.5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	2.5 ng/mL
							Perfluorodecanoic acid (PFDA)	2.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	2.5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00190	0.05 mL	d3-NMePFOSA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C8 FOSA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							13C3 PFBS	1.864 ng/mL
							13C7 PFUnA	2 ng/mL
							13C3-PFPrA	2 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							d7-N-MeFOSE-M	5 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C4 PFHpA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C4 PFBA	2 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
.1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11CIPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00190	05/11/26	11/11/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04597	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_04769	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05001	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05002	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05016	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05037	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05059	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05061	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05074	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05078	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05107	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05111	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05121	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05153	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05167	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05176	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05191	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05195	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05200	0.2 mL	13C8 PFOA	400 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05207	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05214	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05217	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05236	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05251	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05259	0.5 mL	d5-NEtFOSAA	1000 ng/mL
..PFC_ST_04597	11/11/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_04769	11/11/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
..PFC_ST_05001	11/11/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05002	11/11/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05016	11/11/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
..PFC_ST_05037	11/11/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05059	11/11/26	Wellington Laboratories, Lot M3PFHxS0425			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05061	11/11/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05074	11/11/26	Wellington Laboratories, Lot M7PFUdA0725			(Purchased Reagent)		13C7 PFUnA	50000 ng/mL
..PFC_ST_05078	11/11/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05107	10/27/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05111	11/11/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05121	11/11/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05153	11/11/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05167	11/11/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05176	11/11/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05191	11/11/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
..PFC_ST_05195	11/11/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05200	11/11/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05207	11/11/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05214	11/11/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05217	11/11/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05236	11/11/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05251	11/11/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
..PFC_ST_05259	11/11/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
1633_125_CAL5_00038	03/09/26	01/20/26	Methanol, Lot 109223010726B	10 mL	1633_125_IN_A_00089	0.1 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23 ng/mL
							bis(trifluoromethane)sulfonimide	2.4475 ng/mL
							Perfluorononanesulfonic acid (PFNS)	2.405 ng/mL
							Perfluorooctanoic acid (PFOA)	2.5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	2.5 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.365 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	2.325 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	2.35 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	2.5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	2.5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	2.5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.5 ng/mL
							PFECHS	2.31 ng/mL
							FBSA	2.5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	2.28 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	2.385 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	2.5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.335 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	5 ng/mL
							FHxSA	2.5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	2.41 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	2.425 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.8 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluoropentanoic acid (PFPeA)	2.5 ng/mL
							Perfluorohexanoic acid (PFHxA)	2.5 ng/mL
							Perfluorododecanoic acid (PFDoA)	2.5 ng/mL
							Perfluorooctadecanoic acid	2.5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	2.22 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5 ng/mL
							Perfluoropropionic acid	12.5 ng/mL
							Perfluorobutanoic acid (PFBA)	5 ng/mL
							Perfluoroheptanoic acid (PFHpA)	2.5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.875 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5 ng/mL
							Perfluorononanoic acid (PFNA)	2.5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	2.5 ng/mL
							Perfluorodecanoic acid (PFDA)	2.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	2.5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00211	0.05 mL	d7-N-MeFOSE-M	5 ng/mL
							13C4 PFHpA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C7 PFUnA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							d3-NMePFOSA	2 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C4 PFBA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3-PFPrA	2 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							d5-NEtPFOSA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							13C3 PFBS	1.864 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C8 FOSA	2 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
.1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00211	07/19/26	01/19/26	Methanol, Lot EK350-US	25 mL	PFC_ST_05275	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05300	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05332	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05335	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05463	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05846	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
..PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
..PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
..PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL
..PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL
..PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
1633_125_CAL6_00035	03/09/26	11/12/25	Methanol, Lot 9472110292533A	10 mL	1633_125_IN_A_00089	0.2 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.46 ng/mL
							bis(trifluoromethane)sulfonimide	4.895 ng/mL
							Perfluorononanesulfonic acid (PFNS)	4.81 ng/mL
							Perfluorooctanoic acid (PFOA)	5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.73 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	4.65 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	4.7 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5 ng/mL
							PFECHS	4.62 ng/mL
							FBSA	5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.38 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.52 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	4.56 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	4.77 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.67 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	4.72 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	10 ng/mL
							FHxSA	5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	4.82 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	4.85 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.6 ng/mL
							Perfluoropentanoic acid (PFPeA)	5 ng/mL
							Perfluorohexanoic acid (PFHxA)	5 ng/mL
							Perfluorododecanoic acid (PFDoA)	5 ng/mL
							Perfluorooctadecanoic acid	5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	4.44 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	25 ng/mL
							Perfluoropropionic acid	25 ng/mL
							Perfluorobutanoic acid (PFBA)	10 ng/mL
							Perfluoroheptanoic acid (PFHpA)	5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.75 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25 ng/mL
							Perfluorononanoic acid (PFNA)	5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	5 ng/mL
							Perfluorodecanoic acid (PFDA)	5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	5 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	25 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00190	0.05 mL	d3-NMePFOSA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C8 FOSA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							13C3 PFBS	1.864 ng/mL
							13C7 PFUnA	2 ng/mL
							13C3-PFPrA	2 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							d7-N-MeFOSE-M	5 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C4 PFHpA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C4 PFBA	2 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
.1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00190	05/11/26	11/11/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04597	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_04769	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05001	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05002	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05016	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05037	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05059	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05061	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05074	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05078	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05107	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05111	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05121	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05153	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05167	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05176	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05191	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05195	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05200	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05207	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05214	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05217	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05236	0.5 mL	d3-NMeFOSAA	1000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05251	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05259	0.5 mL	d5-NEtFOSAA	1000 ng/mL
..PFC_ST_04597	11/11/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_04769	11/11/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
..PFC_ST_05001	11/11/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05002	11/11/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05016	11/11/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
..PFC_ST_05037	11/11/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05059	11/11/26	Wellington Laboratories, Lot M3PFHxS0425			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05061	11/11/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05074	11/11/26	Wellington Laboratories, Lot M7PFUdA0725			(Purchased Reagent)		13C7 PFUnA	50000 ng/mL
..PFC_ST_05078	11/11/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05107	10/27/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05111	11/11/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05121	11/11/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05153	11/11/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05167	11/11/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05176	11/11/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05191	11/11/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
..PFC_ST_05195	11/11/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05200	11/11/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05207	11/11/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05214	11/11/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05217	11/11/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05236	11/11/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05251	11/11/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
..PFC_ST_05259	11/11/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
1633_125_CAL6_00037	03/09/26	01/20/26	Methanol, Lot 109223010726B	10 mL	1633_125_IN_A_00089	0.2 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.46 ng/mL
							bis(trifluoromethane)sulfonimide	4.895 ng/mL
							Perfluorononanesulfonic acid (PFNS)	4.81 ng/mL
							Perfluorooctanoic acid (PFOA)	5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.73 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorooctanesulfonic acid (PFOS)	4.65 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	4.7 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5 ng/mL
							PFECHS	4.62 ng/mL
							FBSA	5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.38 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.52 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	4.56 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	4.77 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.67 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	4.72 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	10 ng/mL
							FHxSA	5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	4.82 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	4.85 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.6 ng/mL
							Perfluoropentanoic acid (PFPeA)	5 ng/mL
							Perfluorohexanoic acid (PFHxA)	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorododecanoic acid (PFDoA)	5 ng/mL
							Perfluorooctadecanoic acid	5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	4.44 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	25 ng/mL
							Perfluoropropionic acid	25 ng/mL
							Perfluorobutanoic acid (PFBA)	10 ng/mL
							Perfluoroheptanoic acid (PFHpA)	5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.75 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25 ng/mL
							Perfluorononanoic acid (PFNA)	5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	5 ng/mL
							Perfluorodecanoic acid (PFDA)	5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	25 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00211	0.05 mL	d7-N-MeFOSE-M	5 ng/mL
							13C4 PFHpA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C7 PFUnA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							d3-NMePFOSA	2 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C4 PFBA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3-PFPrA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C5 PFPeA	2 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							13C2 8:2 FTS	4.8 ng/mL
							13C3 PFBS	1.864 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C8 FOSA	2 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
.1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00211	07/19/26	01/19/26	Methanol, Lot EK350-US	25 mL	PFC_ST_05275	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05300	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.2 mL	13C6 PFDA	400 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05332	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05335	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05463	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05846	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
..PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
..PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
..PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL
..PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL
..PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
1633_125_CAL7_00036	03/09/26	11/12/25	Methanol, Lot 9472110292533A	10 mL	1633_125_IN_A_00089	0.4 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	8.92 ng/mL
							bis(trifluoromethane)sulfonimide	9.79 ng/mL
							Perfluorononanesulfonic acid (PFNS)	9.62 ng/mL
							Perfluorooctanoic acid (PFOA)	10 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	10 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	10 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.46 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	9.3 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	9.4 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	10 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	10 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	10 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	10 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	10 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10 ng/mL
							PFECHS	9.24 ng/mL
							FBSA	10 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	18.76 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	19.04 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorohexanesulfonic acid (PFHxS)	9.12 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	9.54 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	10 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.34 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.44 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	20 ng/mL
							FHxSA	10 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	9.64 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	9.7 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	19.2 ng/mL
							Perfluoropentanoic acid (PFPeA)	10 ng/mL
							Perfluorohexanoic acid (PFHxA)	10 ng/mL
							Perfluorododecanoic acid (PFDoA)	10 ng/mL
							Perfluorooctadecanoic acid	10 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	8.88 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50 ng/mL
							Perfluoropropionic acid	50 ng/mL
							Perfluorobutanoic acid (PFBA)	20 ng/mL
							Perfluoroheptanoic acid (PFHpA)	10 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	7.5 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50 ng/mL
							Perfluorononanoic acid (PFNA)	10 ng/mL
							Perfluoroundecanoic acid (PFUnA)	10 ng/mL
							Perfluorodecanoic acid (PFDA)	10 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	10 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	50 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00190	0.05 mL	d3-NMePFOSA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C8 FOSA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							13C3 PFBS	1.864 ng/mL
							13C7 PFUnA	2 ng/mL
							13C3-PFPrA	2 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							d7-N-MeFOSE-M	5 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C4 PFHpA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C4 PFBA	2 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
.1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00190	05/11/26	11/11/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04597	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_04769	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05001	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05002	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05016	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05037	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05059	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05061	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05074	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05078	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05107	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05111	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05121	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05153	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05167	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05176	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05191	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05195	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05200	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05207	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05214	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05217	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05236	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05251	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05259	0.5 mL	d5-NEtFOSAA	1000 ng/mL
..PFC_ST_04597	11/11/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_04769	11/11/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05001	11/11/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05002	11/11/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05016	11/11/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
..PFC_ST_05037	11/11/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05059	11/11/26	Wellington Laboratories, Lot M3PFHxS0425			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05061	11/11/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05074	11/11/26	Wellington Laboratories, Lot M7PFUdA0725			(Purchased Reagent)		13C7 PFUnA	50000 ng/mL
..PFC_ST_05078	11/11/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05107	10/27/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05111	11/11/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05121	11/11/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05153	11/11/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05167	11/11/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05176	11/11/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05191	11/11/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
..PFC_ST_05195	11/11/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05200	11/11/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05207	11/11/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05214	11/11/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05217	11/11/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05236	11/11/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05251	11/11/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
..PFC_ST_05259	11/11/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
1633_125_CAL7_00039	03/09/26	01/20/26	Methanol, Lot 109223010726B	10 mL	1633_125_IN_A_00089	0.4 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	8.92 ng/mL
							bis(trifluoromethane)sulfonimide	9.79 ng/mL
							Perfluorononanesulfonic acid (PFNS)	9.62 ng/mL
							Perfluorooctanoic acid (PFOA)	10 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	10 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	10 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.46 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	9.3 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	9.4 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	10 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	10 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	10 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	10 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	10 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10 ng/mL
							PFECHS	9.24 ng/mL
							FBSA	10 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	18.76 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	19.04 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	9.12 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	9.54 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	10 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.34 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.44 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	20 ng/mL
							FHxSA	10 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	9.64 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	9.7 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	19.2 ng/mL
							Perfluoropentanoic acid (PFPeA)	10 ng/mL
							Perfluorohexanoic acid (PFHxA)	10 ng/mL
							Perfluorododecanoic acid (PFDoA)	10 ng/mL
							Perfluorooctadecanoic acid	10 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	8.88 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluoropropionic acid	50 ng/mL
							Perfluorobutanoic acid (PFBA)	20 ng/mL
							Perfluoroheptanoic acid (PFHpA)	10 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	7.5 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50 ng/mL
							Perfluorononanoic acid (PFNA)	10 ng/mL
							Perfluoroundecanoic acid (PFUnA)	10 ng/mL
							Perfluorodecanoic acid (PFDA)	10 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	10 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	50 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00211	0.05 mL	d7-N-MeFOSE-M	5 ng/mL
							13C4 PFHpA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C7 PFUnA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							d3-NMePFOSA	2 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C4 PFBA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3-PFPrA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							13C3 PFBS	1.864 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C8 FOSA	2 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							d9-N-EtFOSE-M	5 ng/mL
.1633_125_IN_A_00089	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00211	07/19/26	01/19/26	Methanol, Lot EK350-US	25 mL	PFC_ST_05275	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05300	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05332	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05335	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.2 mL	d3-NMePFOSA	400 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05463	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05846	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
..PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
..PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
..PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL
..PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL
..PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
1633_125_CAL8_00032	03/09/26	11/12/25	Methanol, Lot 9472110292533A	10 mL	1633_125_IN_8_00010	2 mL	Perfluorooctanoic acid (PFOA)	50 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	35.475 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	46.5 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	47 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	45.6 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	47.7 ng/mL
							Perfluoropentanoic acid (PFPeA)	50 ng/mL
							Perfluorohexanoic acid (PFHxA)	50 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	44.4 ng/mL
							Perfluorobutanoic acid (PFBA)	100 ng/mL
							Perfluoroheptanoic acid (PFHpA)	50 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50 ng/mL
							Perfluorononanoic acid (PFNA)	50 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00190	0.05 mL	d3-NMePFOSA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C8 FOSA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							13C3 PFBS	1.864 ng/mL
							13C7 PFUnA	2 ng/mL
							13C3-PFPrA	2 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C2 8:2 FTS	4.8 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							d7-N-MeFOSE-M	5 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C4 PFHpA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C4 PFBA	2 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
.1633_125_IN_8_00010	05/04/26	11/04/25	Methanol, Lot EK250-US	10 mL	PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03665	0.0375 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	177.375 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.05 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00190	05/11/26	11/11/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04597	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_04769	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05001	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05002	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05016	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05037	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05059	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05061	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05074	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05078	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05107	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05111	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05121	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05153	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05167	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05176	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05191	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05195	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05200	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05207	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05214	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05217	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05236	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05251	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05259	0.5 mL	d5-NEtFOSAA	1000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04597	11/11/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_04769	11/11/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
..PFC_ST_05001	11/11/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05002	11/11/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05016	11/11/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
..PFC_ST_05037	11/11/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05059	11/11/26	Wellington Laboratories, Lot M3PFHxS0425			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05061	11/11/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05074	11/11/26	Wellington Laboratories, Lot M7PFUdA0725			(Purchased Reagent)		13C7 PFUnA	50000 ng/mL
..PFC_ST_05078	11/11/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05107	10/27/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05111	11/11/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05121	11/11/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05153	11/11/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05167	11/11/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05176	11/11/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05191	11/11/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
..PFC_ST_05195	11/11/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05200	11/11/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05207	11/11/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05214	11/11/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05217	11/11/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05236	11/11/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05251	11/11/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
..PFC_ST_05259	11/11/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
1633_125_CAL8_00034	03/09/26	01/20/26	Methanol, Lot 109223010726B	10 mL	1633_125_IN_8_00010	2 mL	Perfluorooctanoic acid (PFOA)	50 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	35.475 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	46.5 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	47 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	45.6 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	47.7 ng/mL
							Perfluoropentanoic acid (PFPeA)	50 ng/mL
							Perfluorohexanoic acid (PFHxA)	50 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorobutanesulfonic acid (PFBS)	44.4 ng/mL
							Perfluorobutanoic acid (PFBA)	100 ng/mL
							Perfluoroheptanoic acid (PFHpA)	50 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50 ng/mL
							Perfluorononanoic acid (PFNA)	50 ng/mL
					1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
					1633_125_SS_00211	0.05 mL	d7-N-MeFOSE-M	5 ng/mL
							13C4 PFHpA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C7 PFUnA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							d3-NMePFOSA	2 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C4 PFBA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3-PFPrA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							13C3 PFBS	1.864 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C8 FOSA	2 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
.1633_125_IN_8_00010	05/04/26	11/04/25	Methanol, Lot EK250-US	10 mL	PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03665	0.0375 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	177.375 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.05 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
.1633_125_SS_00211	07/19/26	01/19/26	Methanol, Lot EK350-US	25 mL	PFC_ST_05275	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05300	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05332	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05335	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05463	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05846	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
..PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
..PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
..PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL
..PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL
..PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
1633_125_ICV_00032	03/09/26	11/12/25	Methanol, Lot 947211092533A	10 mL	1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
1633_125_ICV_00032	03/09/26	11/12/25	Methanol, Lot 947211092533A	10 mL	1633_125_SS_00190	0.05 mL	d3-NMePFOSA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C8 FOSA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							13C3 PFBS	1.864 ng/mL
							13C7 PFUnA	2 ng/mL
							13C3-PFPrA	2 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							d7-N-MeFOSE-M	5 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C4 PFHpA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C4 PFBA	2 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
					PFC_ST_05090	50 uL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	4.715 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.8 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.685 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.755 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	31.25 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	31.25 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	6.25 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.725 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.665 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.2525 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.54 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.2515 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	1.2505 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.515 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.25 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.5 ng/mL
							Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	2.5 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	2.5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	1.11 ng/mL
							Perfluorobutanoic acid (PFBA)	5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	1.205 ng/mL
							Perfluorodecanoic acid (PFDA)	1.25 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	1.21 ng/mL
							Perfluorododecanoic acid (PFDoA)	1.25 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	1.19 ng/mL
							Perfluoroheptanoic acid (PFHpA)	1.25 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	1.1405 ng/mL
							Perfluorohexanoic acid (PFHxA)	1.25 ng/mL
							Perfluorononanesulfonic acid (PFNS)	1.2 ng/mL
							Perfluorononanoic acid (PFNA)	1.249 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	1.255 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	1.16 ng/mL
							Perfluorooctanoic acid (PFOA)	1.2515 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	1.175 ng/mL
							Perfluoropentanoic acid (PFPeA)	2.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	1.25 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	1.25 ng/mL
							Perfluoroundecanoic acid (PFUnA)	1.25 ng/mL
.1633_125_SS_00190	05/11/26	11/11/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04597	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_04769	0.2 mL	13C2 PFTeDA	400 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05001	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05002	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05016	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05037	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05059	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05061	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05074	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05078	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05107	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05111	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05121	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05153	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05167	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05176	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05191	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05195	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05200	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05207	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05214	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05217	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05236	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05251	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05259	0.5 mL	d5-NEtFOSAA	1000 ng/mL
..PFC_ST_04597	11/11/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_04769	11/11/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
..PFC_ST_05001	11/11/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05002	11/11/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05016	11/11/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
..PFC_ST_05037	11/11/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05059	11/11/26	Wellington Laboratories, Lot M3PFHxS0425			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05061	11/11/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05074	11/11/26	Wellington Laboratories, Lot M7PFUdA0725			(Purchased Reagent)		13C7 PFUnA	50000 ng/mL
..PFC_ST_05078	11/11/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05107	10/27/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05111	11/11/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05121	11/11/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05153	11/11/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_05167	11/11/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05176	11/11/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05191	11/11/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
..PFC_ST_05195	11/11/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05200	11/11/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05207	11/11/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05214	11/11/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05217	11/11/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05236	11/11/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05251	11/11/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
..PFC_ST_05259	11/11/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
.PFC_ST_05090	10/06/26	Wellington, Lot 1633STK0625			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	943 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	960 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	937 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	951 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	6250 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	6250 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	1250 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	945 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	933 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1000 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	250.5 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2508 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250.3 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	250.1 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2503 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	500 ng/mL
							Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	446 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	500 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluoro-4-methoxybutanoic acid (PFMBA)	500 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
							Perfluorobutanoic acid (PFBA)	1000 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
							Perfluorodecanoic acid (PFDA)	250 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	242 ng/mL
							Perfluorododecanoic acid (PFDoA)	250 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	238 ng/mL
							Perfluoroheptanoic acid (PFHpA)	250 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	228.1 ng/mL
							Perfluorohexanoic acid (PFHxA)	250 ng/mL
							Perfluorononanesulfonic acid (PFNS)	240 ng/mL
							Perfluorononanoic acid (PFNA)	249.8 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	251 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	232 ng/mL
							Perfluorooctanoic acid (PFOA)	250.3 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
							Perfluoropentanoic acid (PFPeA)	500 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
							Perfluoroundecanoic acid (PFUnA)	250 ng/mL
1633_125_ICV_00034	03/09/26	01/20/26	Methanol, Lot 109223010726B	10 mL	1633_125_IS_00085	0.05 mL	13C3-PFBA	2 ng/mL
							13C5 PFNA	2 ng/mL
							13C2 PFDA	2 ng/mL
							13C4 PFOS	1.916 ng/mL
							13C4 PFOA	5 ng/mL
							13C2 PFHxA	5 ng/mL
							18O2 PFHxS	1.896 ng/mL
.1633_125_IS_00085	04/28/26	11/12/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
1633_125_ICV_00034	03/09/26	01/20/26	Methanol, Lot 109223010726B	10 mL	1633_125_SS_00211	0.05 mL	d7-N-MeFOSE-M	5 ng/mL
							13C4 PFHpA	2 ng/mL
							13C8 PFOA	2 ng/mL
							13C6 PFDA	2 ng/mL
							13C7 PFUnA	2 ng/mL
							13C2 PFDoA	2 ng/mL
							13C2 PFTeDA	2 ng/mL
							13C3 PFHxS	1.896 ng/mL
							d3-NMePFOSA	2 ng/mL
							13C3 HFPO-DA	2 ng/mL
							13C4 PFBA	2 ng/mL
							13C5 PFHxA	2 ng/mL
							13C9 PFNA	2 ng/mL
							13C8 PFOS	1.916 ng/mL
							13C3-PFPrA	2 ng/mL
							d5-NEtPFOSA	2 ng/mL
							13C5 PFPeA	2 ng/mL
							13C2 8:2 FTS	4.8 ng/mL
							13C3 PFBS	1.864 ng/mL
							d3-NMeFOSAA	5 ng/mL
							d5-NEtFOSAA	5 ng/mL
							13C2 4:2 FTS	4.69 ng/mL
							13C2 6:2 FTS	4.76 ng/mL
							13C3-PFDoS	2 ng/mL
							13C8 FOSA	2 ng/mL
							d9-N-EtFOSE-M	5 ng/mL
					PFC_ST_05090	50 uL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	4.715 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.8 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.685 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.755 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	31.25 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	31.25 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	6.25 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.725 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.665 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.2525 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.54 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.2515 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	1.2505 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.515 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.25 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.5 ng/mL
							Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	2.5 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	2.5 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	1.11 ng/mL
							Perfluorobutanoic acid (PFBA)	5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	1.205 ng/mL
							Perfluorodecanoic acid (PFDA)	1.25 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	1.21 ng/mL
							Perfluorododecanoic acid (PFDoA)	1.25 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	1.19 ng/mL
							Perfluoroheptanoic acid (PFHpA)	1.25 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	1.1405 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorohexanoic acid (PFHxA)	1.25 ng/mL
							Perfluorononanesulfonic acid (PFNS)	1.2 ng/mL
							Perfluorononanoic acid (PFNA)	1.249 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	1.255 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	1.16 ng/mL
							Perfluorooctanoic acid (PFOA)	1.2515 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	1.175 ng/mL
							Perfluoropentanoic acid (PFPeA)	2.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	1.25 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	1.25 ng/mL
							Perfluoroundecanoic acid (PFUnA)	1.25 ng/mL
.1633_125_SS_00211	07/19/26	01/19/26	Methanol, Lot EK350-US	25 mL	PFC_ST_05275	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05300	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05332	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05335	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05463	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05740	0.2 mL	13C3-PFDoS	400 ng/mL
					PFC_ST_05846	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
..PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
..PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
..PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
..PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
..PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL
..PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL
..PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
..PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
..PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
..PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
..PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
..PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
..PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
..PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
..PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
..PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
..PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
..PFC_ST_05740	01/19/27	LGC, Lot 1-H1536184MW			(Purchased Reagent)		13C3-PFDoS	50 ug/mL
..PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
.PFC_ST_05090	10/06/26	Wellington, Lot 1633STK0625			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	943 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	960 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	937 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	951 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	6250 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	6250 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	1250 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	945 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	933 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1000 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	250.5 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2508 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250.3 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	250.1 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2503 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	500 ng/mL
							Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	446 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	500 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	500 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
							Perfluorobutanoic acid (PFBA)	1000 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
							Perfluorodecanoic acid (PFDA)	250 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	242 ng/mL
							Perfluorododecanoic acid (PFDoA)	250 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	238 ng/mL
							Perfluoroheptanoic acid (PFHpA)	250 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	228.1 ng/mL
							Perfluorohexanoic acid (PFHxA)	250 ng/mL
							Perfluorononanesulfonic acid (PFNS)	240 ng/mL
							Perfluorononanoic acid (PFNA)	249.8 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorooctanesulfonamide (PFOSA)	251 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	232 ng/mL
							Perfluorooctanoic acid (PFOA)	250.3 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
							Perfluoropentanoic acid (PFPeA)	500 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
							Perfluoroundecanoic acid (PFUnA)	250 ng/mL
1633_125_IS_V_00511	04/28/26	11/12/25	Methanol, Lot 251457	10 mL	1633_125_IS_00080	1 mL	13C5 PFNA	40 ng/mL
							13C2 PFDA	40 ng/mL
							18O2 PFHxS	37.92 ng/mL
							13C3-PFBA	40 ng/mL
							13C4 PFOS	38.32 ng/mL
							13C2 PFHxA	100 ng/mL
							13C4 PFOA	100 ng/mL
.1633_125_IS_00080	04/28/26	10/29/25	Methanol, Lot 253669	10 mL	PFC_ST_04183	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_04184	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_04195	0.08 mL	18O2 PFHxS	379.2 ng/mL
					PFC_ST_04248	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_04261	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_04290	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_04469	0.2 mL	13C4 PFOA	1000 ng/mL
..PFC_ST_04183	08/11/26	Wellington Laboratories, Lot MPFNA1024			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_04184	08/11/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_04195	08/11/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
..PFC_ST_04248	06/04/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_04261	08/08/26	Wellington Laboratories, Lot MPFOS0325			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_04290	08/11/26	Wellington Laboratories, Lot MPFHxA1124			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_04469	08/11/26	Wellington Laboratories, Lot MPFOA1124			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
1633_125_IS_V_00512	04/28/26	11/12/25	Methanol, Lot 251457	10 mL	1633_125_IS_00080	1 mL	13C5 PFNA	40 ng/mL
							13C2 PFDA	40 ng/mL
							18O2 PFHxS	37.92 ng/mL
							13C3-PFBA	40 ng/mL
							13C4 PFOS	38.32 ng/mL
							13C2 PFHxA	100 ng/mL
							13C4 PFOA	100 ng/mL
.1633_125_IS_00080	04/28/26	10/29/25	Methanol, Lot 253669	10 mL	PFC_ST_04183	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_04184	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_04195	0.08 mL	18O2 PFHxS	379.2 ng/mL
					PFC_ST_04248	0.08 mL	13C3-PFBA	400 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04261	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_04290	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_04469	0.2 mL	13C4 PFOA	1000 ng/mL
..PFC_ST_04183	08/11/26	Wellington Laboratories, Lot MPFNA1024			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_04184	08/11/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_04195	08/11/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
..PFC_ST_04248	06/04/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_04261	08/08/26	Wellington Laboratories, Lot MPFOS0325			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_04290	08/11/26	Wellington Laboratories, Lot MPFHxA1124			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_04469	08/11/26	Wellington Laboratories, Lot MPFOA1124			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
1633_125_IS_V_00565	04/28/26	12/26/25	Methanol, Lot 251457	10 mL	1633_125_IS_00088	1 mL	13C3-PFBA	40 ng/mL
							13C5 PFNA	40 ng/mL
							13C2 PFDA	40 ng/mL
							13C4 PFOS	38.32 ng/mL
							13C4 PFOA	100 ng/mL
							13C2 PFHxA	100 ng/mL
							18O2 PFHxS	37.92 ng/mL
.1633_125_IS_00088	04/28/26	12/10/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05201	0.2 mL	13C4 PFOA	1000 ng/mL
					PFC_ST_05211	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05201	11/12/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_05211	11/12/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
1633_125_IS_V_00579	06/30/26	01/27/26	Methanol, Lot 251457	10 mL	1633_125_IS_00091	1 mL	13C3-PFBA	40 ng/mL
							13C5 PFNA	40 ng/mL
							13C2 PFDA	40 ng/mL
							13C4 PFOS	38.32 ng/mL
							18O2 PFHxS	37.92 ng/mL
							13C2 PFHxA	100 ng/mL
							13C4 PFOA	100 ng/mL
.1633_125_IS_00091	06/30/26	12/31/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
					PFC_ST_05297	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05307	0.2 mL	13C4 PFOA	1000 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
..PFC_ST_05297	12/31/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05307	12/31/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
1633_125_IS_V_00591	06/30/26	02/03/26	Methanol, Lot 251457	10 mL	1633_125_IS_00092	1 mL	13C3-PFBA	40 ng/mL
							13C5 PFNA	40 ng/mL
							13C2 PFDA	40 ng/mL
							13C4 PFOS	38.32 ng/mL
							18O2 PFHxS	37.92 ng/mL
							13C2 PFHxA	100 ng/mL
							13C4 PFOA	100 ng/mL
.1633_125_IS_00092	06/30/26	12/31/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
					PFC_ST_05297	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05307	0.2 mL	13C4 PFOA	1000 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL
..PFC_ST_05297	12/31/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05307	12/31/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
1633_125_IS_V_00592	06/30/26	02/03/26	Methanol, Lot 251457	10 mL	1633_125_IS_00092	1 mL	13C3-PFBA	40 ng/mL
							13C5 PFNA	40 ng/mL
							13C2 PFDA	40 ng/mL
							13C4 PFOS	38.32 ng/mL
							18O2 PFHxS	37.92 ng/mL
							13C2 PFHxA	100 ng/mL
							13C4 PFOA	100 ng/mL
.1633_125_IS_00092	06/30/26	12/31/25	Methanol, Lot 253669	10 mL	PFC_ST_04712	0.08 mL	13C3-PFBA	400 ng/mL
					PFC_ST_05025	0.08 mL	13C5 PFNA	400 ng/mL
					PFC_ST_05044	0.08 mL	13C2 PFDA	400 ng/mL
					PFC_ST_05137	0.08 mL	13C4 PFOS	383.2 ng/mL
					PFC_ST_05282	0.08 mL	18O2 PFHxS	379.2 ng/mL
					PFC_ST_05297	0.2 mL	13C2 PFHxA	1000 ng/mL
					PFC_ST_05307	0.2 mL	13C4 PFOA	1000 ng/mL
..PFC_ST_04712	08/11/26	Wellington Laboratories, Lot M3PFBA0125			(Purchased Reagent)		13C3-PFBA	50000 ng/mL
..PFC_ST_05025	11/12/26	Wellington Laboratories, Lot MPFNA0425			(Purchased Reagent)		13C5 PFNA	50000 ng/mL
..PFC_ST_05044	11/12/26	Wellington Laboratories, Lot MPFDA1024			(Purchased Reagent)		13C2 PFDA	50000 ng/mL
..PFC_ST_05137	11/12/26	Wellington Laboratories, Lot MPFOS0825			(Purchased Reagent)		13C4 PFOS	47900 ng/mL
..PFC_ST_05282	11/12/26	Wellington Laboratories, Lot MPFHxS0924			(Purchased Reagent)		18O2 PFHxS	47400 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_05297	12/31/26	Wellington Laboratories, Lot MPFHxA0825			(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_05307	12/31/26	Wellington Laboratories, Lot MPFOA0525			(Purchased Reagent)		13C4 PFOA	50000 ng/mL
1633_125_MS_L_00125	02/17/26	12/31/25	Methanol, Lot EJ935-US	10 mL	1633_125_IN_A_00097	0.5 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	62.5 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	62.5 ng/mL
							Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	11.15 ng/mL
							Perfluorononanesulfonic acid (PFNS)	12.025 ng/mL
							Perfluorooctadecanoic acid	12.5 ng/mL
							Perfluorooctanoic acid (PFOA)	12.5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	12.5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	12.5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	11.825 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	11.625 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	11.75 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	12.5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	12.5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	12.5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	12.5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	12.5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	12.5 ng/mL
							PFECHS	11.55 ng/mL
							FBSA	12.5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	23.45 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	23.8 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	11.4 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	11.925 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	12.5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	11.675 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	11.8 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	25 ng/mL
							FHxSA	12.5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	12.05 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	12.125 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	24 ng/mL
							Perfluoropentanoic acid (PFPeA)	12.5 ng/mL
							Perfluorohexanoic acid (PFHxA)	12.5 ng/mL
							Perfluorododecanoic acid (PFDoA)	12.5 ng/mL
							bis(trifluoromethane)sulfonimide	12.5125 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	11.1 ng/mL
							Perfluorobutanoic acid (PFBA)	25 ng/mL
							Perfluoroheptanoic acid (PFHpA)	12.5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	9.375 ng/mL
							Perfluorononanoic acid (PFNA)	12.5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	12.5 ng/mL
							Perfluorodecanoic acid (PFDA)	12.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	12.5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5 ng/mL
							Perfluoropropionic acid	62.5 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5 ng/mL
.1633_125_IN_A_00097	02/17/26	12/31/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_02966	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_02967	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03557	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04434	0.025 mL	bis(trifluoromethane)sulfonimide	250.25 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04949	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
					PFC_ST_04970	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_05446	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
..PFC_ST_02966	12/31/26	Wellington Laboratories, Lot NMeFOSE1123M			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_02967	12/31/26	Wellington Laboratories, Lot NEtFOSE1123M			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03557	02/17/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04434	11/04/26	AccuStandard, Lot 225031579			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	100.1 ug/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04949	12/08/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
..PFC_ST_04970	12/31/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_05446	12/08/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
1633_125_MS_L_00126	02/17/26	12/31/25	Methanol, Lot EJ935-US	10 mL	1633_125_IN_A_00097	0.5 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	62.5 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	62.5 ng/mL
							Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	11.15 ng/mL
							Perfluorononanesulfonic acid (PFNS)	12.025 ng/mL
							Perfluorooctadecanoic acid	12.5 ng/mL
							Perfluorooctanoic acid (PFOA)	12.5 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	12.5 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	12.5 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	11.825 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	11.625 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	11.75 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	12.5 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	12.5 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	12.5 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	12.5 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	12.5 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	12.5 ng/mL
							PFECHS	11.55 ng/mL
							FBSA	12.5 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	23.45 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	23.8 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorohexanesulfonic acid (PFHxS)	11.4 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	11.925 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	12.5 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	11.675 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	11.8 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	25 ng/mL
							FHxSA	12.5 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	12.05 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	12.125 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	24 ng/mL
							Perfluoropentanoic acid (PFPeA)	12.5 ng/mL
							Perfluorohexanoic acid (PFHxA)	12.5 ng/mL
							Perfluorododecanoic acid (PFDoA)	12.5 ng/mL
							bis(trifluoromethane)sulfonimide	12.5125 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	11.1 ng/mL
							Perfluorobutanoic acid (PFBA)	25 ng/mL
							Perfluoroheptanoic acid (PFHpA)	12.5 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	9.375 ng/mL
							Perfluorononanoic acid (PFNA)	12.5 ng/mL
							Perfluoroundecanoic acid (PFUnA)	12.5 ng/mL
							Perfluorodecanoic acid (PFDA)	12.5 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	12.5 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5 ng/mL
							Perfluoropropionic acid	62.5 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5 ng/mL
.1633_125_IN_A_00097	02/17/26	12/31/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_02966	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_02967	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03557	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04434	0.025 mL	bis(trifluoromethane)sulfonimide	250.25 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04949	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
					PFC_ST_04970	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_05446	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
..PFC_ST_02966	12/31/26	Wellington Laboratories, Lot NMeFOSE1123M			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_02967	12/31/26	Wellington Laboratories, Lot NEtFOSE1123M			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03557	02/17/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04434	11/04/26	AccuStandard, Lot 225031579			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	100.1 ug/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04949	12/08/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
..PFC_ST_04970	12/31/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_05446	12/08/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
1633_125_MS_M_00154	02/17/26	12/31/25	Methanol, Lot EJ952-US	10 mL	1633_125_IN_A_00093	1 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	89.2 ng/mL
							bis(trifluoromethane)sulfonimide	99.55 ng/mL
							Perfluorononanesulfonic acid (PFNS)	96.2 ng/mL
							Perfluorooctanoic acid (PFOA)	100 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	100 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.6 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	93 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	94 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	100 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	100 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	100 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	100 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	100 ng/mL
							PFECHS	92.4 ng/mL
							FBSA	100 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	187.6 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	190.4 ng/mL
							N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	500 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	91.2 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	95.4 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	100 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	93.4 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.4 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	200 ng/mL
							FHxSA	100 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	96.4 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	97 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	192 ng/mL
							Perfluoropentanoic acid (PFPeA)	100 ng/mL
							Perfluorohexanoic acid (PFHxA)	100 ng/mL
							Perfluorododecanoic acid (PFDoA)	100 ng/mL
							Perfluorooctadecanoic acid	100 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	88.8 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	500 ng/mL
							Perfluoropropionic acid	500 ng/mL
							Perfluorobutanoic acid (PFBA)	200 ng/mL
							Perfluoroheptanoic acid (PFHpA)	100 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	75 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	500 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorononanoic acid (PFNA)	100 ng/mL
							Perfluoroundecanoic acid (PFUnA)	100 ng/mL
							Perfluorodecanoic acid (PFDA)	100 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	100 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	500 ng/mL
					1633_125_IN_A_00094	1 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	500 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	500 ng/mL
							Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	89.2 ng/mL
							Perfluorononanesulfonic acid (PFNS)	96.2 ng/mL
							Perfluorooctadecanoic acid	100 ng/mL
							Perfluorooctanoic acid (PFOA)	100 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	100 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.6 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	93 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	94 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	100 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	100 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	100 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	100 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	100 ng/mL
							PFECHS	92.4 ng/mL
							FBSA	100 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	187.6 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	190.4 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	91.2 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluoroheptanesulfonic acid (PFHpS)	95.4 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	100 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	93.4 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.4 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	200 ng/mL
							FHxSA	100 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	96.4 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	97 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	192 ng/mL
							Perfluoropentanoic acid (PFPeA)	100 ng/mL
							Perfluorohexanoic acid (PFHxA)	100 ng/mL
							Perfluorododecanoic acid (PFDoA)	100 ng/mL
							bis(trifluoromethane)sulfonimide	99.55 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	88.8 ng/mL
							Perfluorobutanoic acid (PFBA)	200 ng/mL
							Perfluoroheptanoic acid (PFHpA)	100 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	75 ng/mL
							Perfluorononanoic acid (PFNA)	100 ng/mL
							Perfluoroundecanoic acid (PFUnA)	100 ng/mL
							Perfluorodecanoic acid (PFDA)	100 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	100 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	500 ng/mL
							Perfluoropropionic acid	500 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	500 ng/mL
					1633_125_IN_A_00095	1 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	500 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	500 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	89.2 ng/mL
							Perfluorononanesulfonic acid (PFNS)	96.2 ng/mL
							Perfluorooctadecanoic acid	100 ng/mL
							Perfluorooctanoic acid (PFOA)	100 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	100 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.6 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	93 ng/mL
							Perfluoropentanesulfonic acid (PFPeS)	94 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	100 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	100 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	100 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	100 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	100 ng/mL
							PFECHS	92.4 ng/mL
							FBSA	100 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	187.6 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	190.4 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	91.2 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	95.4 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	100 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	93.4 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.4 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	200 ng/mL
							FHxSA	100 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorodecanesulfonic acid (PFDS)	96.4 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	97 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	192 ng/mL
							Perfluoropentanoic acid (PFPeA)	100 ng/mL
							Perfluorohexanoic acid (PFHxA)	100 ng/mL
							Perfluorododecanoic acid (PFDoA)	100 ng/mL
							bis(trifluoromethane)sulfonimide	99.55 ng/mL
							Perfluorobutanesulfonic acid (PFBS)	88.8 ng/mL
							Perfluorobutanoic acid (PFBA)	200 ng/mL
							Perfluoroheptanoic acid (PFHpA)	100 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	75 ng/mL
							Perfluorononanoic acid (PFNA)	100 ng/mL
							Perfluoroundecanoic acid (PFUnA)	100 ng/mL
							Perfluorodecanoic acid (PFDA)	100 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	100 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	500 ng/mL
							Perfluoropropionic acid	500 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	500 ng/mL
					1633_125_IN_A_00096	1 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	500 ng/mL
							N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	500 ng/mL
							Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	89.2 ng/mL
							Perfluorononanesulfonic acid (PFNS)	96.2 ng/mL
							Perfluorooctadecanoic acid	100 ng/mL
							Perfluorooctanoic acid (PFOA)	100 ng/mL
							Perfluorooctanesulfonamide (PFOSA)	100 ng/mL
							N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100 ng/mL
							4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.6 ng/mL
							Perfluorooctanesulfonic acid (PFOS)	93 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluoropentanesulfonic acid (PFPeS)	94 ng/mL
							N-methylperfluorooctane sulfonamide (NMeFOSA)	100 ng/mL
							N-ethylperfluorooctane sulfonamide (NEtFOSA)	100 ng/mL
							N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100 ng/mL
							Perfluorotridecanoic acid (PFTrDA)	100 ng/mL
							Perfluoro-3-methoxypropanoic acid (PFMPA)	100 ng/mL
							Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	100 ng/mL
							PFECHS	92.4 ng/mL
							FBSA	100 ng/mL
							1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	187.6 ng/mL
							1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	190.4 ng/mL
							Perfluorohexanesulfonic acid (PFHxS)	91.2 ng/mL
							Perfluoroheptanesulfonic acid (PFHpS)	95.4 ng/mL
							Perfluoro-4-methoxybutanoic acid (PFMBA)	100 ng/mL
							9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	93.4 ng/mL
							11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.4 ng/mL
							3-Perfluoropropylpropanoic acid (3:3 FTCA)	200 ng/mL
							FHxSA	100 ng/mL
							Perfluorodecanesulfonic acid (PFDS)	96.4 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	97 ng/mL
							1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	192 ng/mL
							Perfluoropentanoic acid (PFPeA)	100 ng/mL
							Perfluorohexanoic acid (PFHxA)	100 ng/mL
							Perfluorododecanoic acid (PFDoA)	100 ng/mL
							bis(trifluoromethane)sulfonimide	99.55 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorobutanesulfonic acid (PFBS)	88.8 ng/mL
							Perfluorobutanoic acid (PFBA)	200 ng/mL
							Perfluoroheptanoic acid (PFHpA)	100 ng/mL
							Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	75 ng/mL
							Perfluorononanoic acid (PFNA)	100 ng/mL
							Perfluoroundecanoic acid (PFUnA)	100 ng/mL
							Perfluorodecanoic acid (PFDA)	100 ng/mL
							Perfluorotetradecanoic acid (PFTeDA)	100 ng/mL
							3-Perfluoropentylpropanoic acid (5:3 FTCA)	500 ng/mL
							Perfluoropropionic acid	500 ng/mL
							3-Perfluoroheptylpropanoic acid (7:3 FTCA)	500 ng/mL
.1633_125_IN_A_00093	03/20/26	11/04/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03447	0.025 mL	bis(trifluoromethane)sulfonimide	244.75 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03936	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04388	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04690	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
					PFC_ST_04729	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04801	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04947	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03447	03/20/26	AccuStandard, Lot 224061564			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	97900 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03936	11/04/26	Wellington Laboratories, Lot brNMeFOSE0225			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04388	05/22/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04690	10/15/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
..PFC_ST_04729	11/04/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04801	11/04/26	Wellington Laboratories, Lot brNEtFOSE0225			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04947	11/04/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
.1633_125_IN_A_00094	02/17/26	12/08/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_02966	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_02967	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03557	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04434	0.025 mL	bis(trifluoromethane)sulfonimide	250.25 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04949	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
					PFC_ST_04972	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_05446	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
..PFC_ST_02966	12/31/26	Wellington Laboratories, Lot NMeFOSE1123M			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_02967	12/31/26	Wellington Laboratories, Lot NEtFOSE1123M			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03557	02/17/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04434	11/04/26	AccuStandard, Lot 225031579			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	100.1 ug/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04949	12/08/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
..PFC_ST_04972	12/08/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_05446	12/08/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
.1633_125_IN_A_00095	02/17/26	12/08/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_02966	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_02967	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03557	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04434	0.025 mL	bis(trifluoromethane)sulfonimide	250.25 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04949	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
					PFC_ST_04972	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_05446	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_02966	12/31/26	Wellington Laboratories, Lot NMeFOSE1123M			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_02967	12/31/26	Wellington Laboratories, Lot NEtFOSE1123M			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03557	02/17/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11CIPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04434	11/04/26	AccuStandard, Lot 225031579			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	100.1 ug/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04949	12/08/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
..PFC_ST_04972	12/08/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_05446	12/08/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
.1633_125_IN_A_00096	02/17/26	12/08/25	Methanol, Lot EJ935-US	10 mL	PFC_ST_02966	0.25 mL	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1250 ng/mL
					PFC_ST_02967	0.25 mL	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1250 ng/mL
					PFC_ST_03140	0.05 mL	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	223 ng/mL
					PFC_ST_03527	0.05 mL	Perfluorononanesulfonic acid (PFNS)	240.5 ng/mL
					PFC_ST_03557	0.05 mL	Perfluorooctadecanoic acid	250 ng/mL
					PFC_ST_03637	0.05 mL	Perfluorooctanoic acid (PFOA)	250 ng/mL
					PFC_ST_03642	0.05 mL	Perfluorooctanesulfonamide (PFOSA)	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_03656	0.05 mL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	250 ng/mL
					PFC_ST_03665	0.05 mL	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	236.5 ng/mL
					PFC_ST_03678	0.05 mL	Perfluorooctanesulfonic acid (PFOS)	232.5 ng/mL
					PFC_ST_03698	0.05 mL	Perfluoropentanesulfonic acid (PFPeS)	235 ng/mL
					PFC_ST_03719	0.05 mL	N-methylperfluorooctane sulfonamide (NMeFOSA)	250 ng/mL
					PFC_ST_03720	0.05 mL	N-ethylperfluorooctane sulfonamide (NEtFOSA)	250 ng/mL
					PFC_ST_03735	0.05 mL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	250 ng/mL
					PFC_ST_03739	0.05 mL	Perfluorotridecanoic acid (PFTrDA)	250 ng/mL
					PFC_ST_03768	0.05 mL	Perfluoro-3-methoxypropanoic acid (PFMPA)	250 ng/mL
					PFC_ST_03776	0.05 mL	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	250 ng/mL
					PFC_ST_03780	0.05 mL	PFECHS	231 ng/mL
					PFC_ST_03790	0.05 mL	FBSA	250 ng/mL
					PFC_ST_03923	0.1 mL	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	469 ng/mL
					PFC_ST_03928	0.1 mL	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	476 ng/mL
					PFC_ST_03946	0.05 mL	Perfluorohexanesulfonic acid (PFHxS)	228 ng/mL
					PFC_ST_03948	0.05 mL	Perfluoroheptanesulfonic acid (PFHpS)	238.5 ng/mL
					PFC_ST_03982	0.05 mL	Perfluoro-4-methoxybutanoic acid (PFMBA)	250 ng/mL
					PFC_ST_03987	0.05 mL	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	233.5 ng/mL
					PFC_ST_03988	0.05 mL	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	236 ng/mL
					PFC_ST_03990	0.1 mL	3-Perfluoropropylpropanoic acid (3:3 FTCA)	500 ng/mL
					PFC_ST_04012	0.05 mL	FHxSA	250 ng/mL
					PFC_ST_04048	0.05 mL	Perfluorodecanesulfonic acid (PFDS)	241 ng/mL
					PFC_ST_04051	0.05 mL	Perfluorododecanesulfonic acid (PFDoS)	242.5 ng/mL
					PFC_ST_04080	0.1 mL	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480 ng/mL
					PFC_ST_04130	0.05 mL	Perfluoropentanoic acid (PFPeA)	250 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_04132	0.05 mL	Perfluorohexanoic acid (PFHxA)	250 ng/mL
					PFC_ST_04167	0.05 mL	Perfluorododecanoic acid (PFDoA)	250 ng/mL
					PFC_ST_04434	0.025 mL	bis(trifluoromethane)sulfonimide	250.25 ng/mL
					PFC_ST_04490	0.05 mL	Perfluorobutanesulfonic acid (PFBS)	222 ng/mL
					PFC_ST_04767	0.1 mL	Perfluorobutanoic acid (PFBA)	500 ng/mL
					PFC_ST_04774	0.05 mL	Perfluoroheptanoic acid (PFHpA)	250 ng/mL
					PFC_ST_04793	0.0375 mL	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	187.5 ng/mL
					PFC_ST_04804	0.05 mL	Perfluorononanoic acid (PFNA)	250 ng/mL
					PFC_ST_04807	0.05 mL	Perfluoroundecanoic acid (PFUnA)	250 ng/mL
					PFC_ST_04815	0.05 mL	Perfluorodecanoic acid (PFDA)	250 ng/mL
					PFC_ST_04858	0.05 mL	Perfluorotetradecanoic acid (PFTeDA)	250 ng/mL
					PFC_ST_04949	0.25 mL	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1250 ng/mL
					PFC_ST_04972	0.25 mL	Perfluoropropionic acid	1250 ng/mL
					PFC_ST_05446	0.25 mL	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1250 ng/mL
..PFC_ST_02966	12/31/26	Wellington Laboratories, Lot NMeFOSE1123M			(Purchased Reagent)		N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	50000 ng/mL
..PFC_ST_02967	12/31/26	Wellington Laboratories, Lot NEtFOSE1123M			(Purchased Reagent)		N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	50000 ng/mL
..PFC_ST_03140	11/04/26	Wellington Laboratories, Lot PFEESA0524			(Purchased Reagent)		Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	44600 ng/mL
..PFC_ST_03527	11/04/26	Wellington Laboratories, Lot LPFNS0724			(Purchased Reagent)		Perfluorononanesulfonic acid (PFNS)	48100 ng/mL
..PFC_ST_03557	02/17/26	Wellington Laboratories, Lot PFODA0224			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_03637	11/04/26	Wellington Laboratories, Lot br-PFOA0524			(Purchased Reagent)		Perfluorooctanoic acid (PFOA)	50000 ng/mL
..PFC_ST_03642	09/09/26	Wellington Laboratories, Lot brFOSA0225			(Purchased Reagent)		Perfluorooctanesulfonamide (PFOSA)	50000 ng/mL
..PFC_ST_03656	11/04/26	Wellington Laboratories, Lot brNEtFOSAA0924			(Purchased Reagent)		N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50000 ng/mL
..PFC_ST_03665	11/04/26	Wellington Laboratories, Lot NaDONA1124			(Purchased Reagent)		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47300 ng/mL
..PFC_ST_03678	11/04/26	Wellington Laboratories, Lot br-PFOSK0924			(Purchased Reagent)		Perfluorooctanesulfonic acid (PFOS)	46500 ng/mL
..PFC_ST_03698	11/04/26	Wellington Laboratories, Lot LPFPeS0924			(Purchased Reagent)		Perfluoropentanesulfonic acid (PFPeS)	47000 ng/mL
..PFC_ST_03719	11/04/26	Wellington Laboratories, Lot brNMeFOSA0924			(Purchased Reagent)		N-methylperfluorooctane sulfonamide (NMeFOSA)	50000 ng/mL
..PFC_ST_03720	11/04/26	Wellington Laboratories, Lot brNEtFOSA1024			(Purchased Reagent)		N-ethylperfluorooctane sulfonamide (NEtFOSA)	50000 ng/mL
..PFC_ST_03735	11/04/26	Wellington Laboratories, Lot brNMeFOSAA0824			(Purchased Reagent)		N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_03739	11/04/26	Wellington Laboratories, Lot PFTrDA0724			(Purchased Reagent)		Perfluorotridecanoic acid (PFTrDA)	50000 ng/mL
..PFC_ST_03768	11/04/26	Wellington Laboratories, Lot PF4OPeA1024			(Purchased Reagent)		Perfluoro-3-methoxypropanoic acid (PFMPA)	50000 ng/mL
..PFC_ST_03776	11/04/26	Wellington Laboratories, Lot 36OPFHpA0424			(Purchased Reagent)		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50000 ng/mL
..PFC_ST_03780	11/04/26	Wellington Laboratoires, Lot PFECHS0225			(Purchased Reagent)		PFECHS	46200 ppb
..PFC_ST_03790	07/21/26	Wellington Laboratories, Lot FBSA0225I			(Purchased Reagent)		FBSA	50000 ng/mL
..PFC_ST_03923	11/04/26	Wellington Laboratories, Lot 42FTS0924			(Purchased Reagent)		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	46900 ng/mL
..PFC_ST_03928	10/15/26	Wellington Laboratories, Lot 62FTS0225			(Purchased Reagent)		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	47600 ng/mL
..PFC_ST_03946	11/04/26	Wellington Laboratories, Lot brPFHxSK0724			(Purchased Reagent)		Perfluorohexanesulfonic acid (PFHxS)	45600 ng/mL
..PFC_ST_03948	11/04/26	Wellington Laboratories, Lot LPFHpS1024			(Purchased Reagent)		Perfluoroheptanesulfonic acid (PFHpS)	47700 ng/mL
..PFC_ST_03982	11/04/26	Wellington Laboratories, Lot PF5OHxA0724			(Purchased Reagent)		Perfluoro-4-methoxybutanoic acid (PFMBA)	50000 ng/mL
..PFC_ST_03987	11/04/26	Wellington Laboratories, Lot 9ClPF3ONS0125			(Purchased Reagent)		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	46700 ng/mL
..PFC_ST_03988	11/04/26	Wellington Laboratories, Lot 11ClPF3OUdS0125			(Purchased Reagent)		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47200 ng/mL
..PFC_ST_03990	11/04/26	Wellington Laboratories, Lot FPrPA1024			(Purchased Reagent)		3-Perfluoropropylpropanoic acid (3:3 FTCA)	50000 ng/mL
..PFC_ST_04012	11/04/26	Wellington Laboratories, Lot FHxSA0424I			(Purchased Reagent)		FHxSA	50000 ng/mL
..PFC_ST_04048	11/04/26	Wellington Laboratories, Lot LPFDS0624			(Purchased Reagent)		Perfluorodecanesulfonic acid (PFDS)	48200 ng/mL
..PFC_ST_04051	11/04/26	Wellington Laboratories, Lot LPFDoS1124			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48500 ng/mL
..PFC_ST_04080	11/04/26	Wellington Laboratories, Lot 82FTS0624			(Purchased Reagent)		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	48000 ng/mL
..PFC_ST_04130	07/21/26	Wellington Laboratories, Lot PFPeA0924			(Purchased Reagent)		Perfluoropentanoic acid (PFPeA)	50000 ng/mL
..PFC_ST_04132	11/04/26	Wellington Laboratories, Lot PFHxA0325			(Purchased Reagent)		Perfluorohexanoic acid (PFHxA)	50000 ng/mL
..PFC_ST_04167	11/04/26	Wellington Laboratories, Lot PFDoA1124			(Purchased Reagent)		Perfluorododecanoic acid (PFDoA)	50000 ng/mL
..PFC_ST_04434	11/04/26	AccuStandard, Lot 225031579			(Purchased Reagent)		bis(trifluoromethane)sulfonimide	100.1 ug/mL
..PFC_ST_04490	11/04/26	Wellington Laboratories, Lot LPFBS0125			(Purchased Reagent)		Perfluorobutanesulfonic acid (PFBS)	44400 ng/mL
..PFC_ST_04767	11/04/26	Wellington Laboratories, Lot PFBA0625			(Purchased Reagent)		Perfluorobutanoic acid (PFBA)	50000 ng/mL
..PFC_ST_04774	11/04/26	Wellington Laboratories, Lot PFHpA1124			(Purchased Reagent)		Perfluoroheptanoic acid (PFHpA)	50000 ng/mL
..PFC_ST_04793	11/04/26	Wellington Laboratories, Lot HFPODA0425			(Purchased Reagent)		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	50000 ng/mL
..PFC_ST_04804	11/04/26	Wellington Laboratories, Lot br-PFNA0724			(Purchased Reagent)		Perfluorononanoic acid (PFNA)	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_04807	11/04/26	Wellington Laboratories, Lot PFUdA0425			(Purchased Reagent)		Perfluoroundecanoic acid (PFUnA)	50000 ng/mL
..PFC_ST_04815	11/04/26	Wellington Laboratories, Lot PFDA0724			(Purchased Reagent)		Perfluorodecanoic acid (PFDA)	50000 ng/mL
..PFC_ST_04858	11/04/26	Wellington Laboratories, Lot PFTeDA0425			(Purchased Reagent)		Perfluorotetradecanoic acid (PFTeDA)	50000 ng/mL
..PFC_ST_04949	12/08/26	Wellington Laboratories, Lot FPePA0425			(Purchased Reagent)		3-Perfluoropentylpropanoic acid (5:3 FTCA)	50000 ng/mL
..PFC_ST_04972	12/08/26	Wellington Laboratories, Lot PFPrA0825			(Purchased Reagent)		Perfluoropropionic acid	50000 ng/mL
..PFC_ST_05446	12/08/26	Wellington Laboratories, Lot FHpPA1224			(Purchased Reagent)		3-Perfluoroheptylpropanoic acid (7:3 FTCA)	50000 ng/mL
1633_125_SS_00162	05/22/26	08/11/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04192	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_04250	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_04255	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_04283	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_04296	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_04334	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_04358	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_04366	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_04485	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_04487	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_04489	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_04512	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_04530	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_04536	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_04563	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_04568	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_04605	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_04617	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_04627	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_04631	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_04652	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_04680	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_04687	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_04695	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_04713	0.5 mL	d3-NMeFOSAA	1000 ng/mL
.PFC_ST_04192	08/11/26	Wellington Laboratories, Lot M3PFBS0225			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
.PFC_ST_04250	05/22/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
.PFC_ST_04255	08/11/26	Wellington Laboratories, Lot MPFDoA1124			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
.PFC_ST_04283	08/11/26	Wellington Laboratories, Lot M5PFPeA1124			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
.PFC_ST_04296	07/28/26	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
.PFC_ST_04334	08/11/26	Wellington Laboratories, Lot M3PFHxS0425			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
.PFC_ST_04358	08/11/26	Wellington Laboratories, Lot M8PFOA0724			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
.PFC_ST_04366	08/11/26	Wellington Laboratories, Lot M7PFUdA1124			(Purchased Reagent)		13C7 PFUnA	50000 ng/mL
.PFC_ST_04485	08/11/26	Wellington Laboratories, Lot M5PFHxA1224			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
.PFC_ST_04487	08/11/26	Wellington Laboratories, Lot M9PFNA0325			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
.PFC_ST_04489	08/11/26	Wellington Laboratories, Lot M3HFPODA0125			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC_ST_04512	08/11/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
.PFC_ST_04530	08/11/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
.PFC_ST_04536	08/11/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
.PFC_ST_04563	08/11/26	Wellington Laboratories, Lot M4PFHpA1024			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
.PFC_ST_04568	08/11/26	Wellington Laboratories, Lot M6PFDA0525			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
.PFC_ST_04605	08/11/26	Wellington Laboratories, Lot MPFBA0924			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
.PFC_ST_04617	08/11/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
.PFC_ST_04627	08/11/26	Wellington Laboratories, Lot M262FTS1224			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
.PFC_ST_04631	08/11/26	Wellington Laboratories, Lot M242FTS0125			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
.PFC_ST_04652	07/28/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
.PFC_ST_04680	08/11/26	Wellington Laboratories, Lot d5NEtFOSAA0125			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
.PFC_ST_04687	08/11/26	Wellington Laboratories, Lot d7NMeFOSE0425M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
.PFC_ST_04695	08/11/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
.PFC_ST_04713	08/11/26	Wellington Laboratories, Lot d3NMeFOSAA0525			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
1633_125_SS_00201	05/11/26	12/01/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04423	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05003	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05014	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05086	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05165	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05178	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05184	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05189	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05196	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05204	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05242	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05253	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05292	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05308	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05318	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05330	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05349	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05356	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05373	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05375	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05382	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05386	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05396	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05469	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05479	0.2 mL	13C5 PFHxA	400 ng/mL
.PFC_ST_04423	12/01/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC_ST_05003	12/01/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
.PFC_ST_05014	12/01/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
.PFC_ST_05086	12/01/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
.PFC_ST_05165	12/01/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
.PFC_ST_05178	12/01/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_05184	12/01/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
.PFC_ST_05189	12/01/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
.PFC_ST_05196	12/01/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
.PFC_ST_05204	12/01/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
.PFC_ST_05242	12/01/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
.PFC_ST_05253	12/01/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
.PFC_ST_05292	12/01/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
.PFC_ST_05308	12/01/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
.PFC_ST_05318	12/01/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
.PFC_ST_05330	12/01/26	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
.PFC_ST_05349	12/01/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
.PFC_ST_05356	12/01/26	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
.PFC_ST_05373	12/01/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
.PFC_ST_05375	12/01/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
.PFC_ST_05382	12/01/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
.PFC_ST_05386	12/01/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
.PFC_ST_05396	12/01/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
.PFC_ST_05469	12/01/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
.PFC_ST_05479	12/01/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
1633_125_SS_00202	05/11/26	12/01/25	Methanol, Lot EK350-US	25 mL	PFC_ST_04423	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05003	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05014	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05086	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05165	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05178	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05184	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05189	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05196	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05204	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05242	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05253	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
					PFC_ST_05292	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05308	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05318	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05330	0.2 mL	13C7 PFUnA	400 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05349	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05356	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05373	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05375	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05382	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05386	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05396	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05469	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05479	0.2 mL	13C5 PFHxA	400 ng/mL
.PFC_ST_04423	12/01/26	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
.PFC_ST_05003	12/01/26	Wellington Laboratories, Lot M8FOSA0525I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
.PFC_ST_05014	12/01/26	Wellington Laboratories, Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50000 ng/mL
.PFC_ST_05086	12/01/26	Cambridge Isotope Laboratories, Inc, Lot SEDG-006			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
.PFC_ST_05165	12/01/26	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
.PFC_ST_05178	12/01/26	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_05184	12/01/26	Wellington Laboratories, Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50000 ng/mL
.PFC_ST_05189	12/01/26	Wellington Laboratories, Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50000 ng/mL
.PFC_ST_05196	12/01/26	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
.PFC_ST_05204	12/01/26	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
.PFC_ST_05242	12/01/26	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
.PFC_ST_05253	12/01/26	Wellington Laboratories, Lot d9NEtFOSE0425M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
.PFC_ST_05292	12/01/26	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
.PFC_ST_05308	12/01/26	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
.PFC_ST_05318	12/01/26	Wellington Laboratories, Lot M242FTS0725			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
.PFC_ST_05330	12/01/26	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
.PFC_ST_05349	12/01/26	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
.PFC_ST_05356	12/01/26	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
.PFC_ST_05373	12/01/26	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
.PFC_ST_05375	12/01/26	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
.PFC_ST_05382	12/01/26	Wellington Laboratories, Lot dNEtFOSA1124M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
.PFC_ST_05386	12/01/26	Wellington Laboratories, Lot M262FTS0625			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
.PFC_ST_05396	12/01/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
.PFC_ST_05469	12/01/26	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
.PFC_ST_05479	12/01/26	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
1633_125_SS_00212	07/19/26	01/19/26	Methanol, Lot EK350-US	50 mL	PFC_ST_05275	1 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05300	0.4 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.4 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.4 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05332	0.4 mL	13C7 PFUnA	400 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_05335	0.4 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.4 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.4 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.4 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05463	0.4 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.4 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.4 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.4 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.4 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.4 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.4 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.4 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	1 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.4 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	1 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	1 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	1 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	1 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05740	0.4 mL	13C3-PFDoS	400 ng/mL
					PFC_ST_05846	0.4 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	1 mL	d9-N-EtFOSE-M	1000 ng/mL
.PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
.PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
.PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
.PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
.PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
.PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL
.PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL
.PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
.PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
.PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
.PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
.PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
.PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
.PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
.PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
.PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
.PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
.PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
.PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
.PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
.PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
.PFC_ST_05740	01/19/27	LGC, Lot 1-H1536184MW			(Purchased Reagent)		13C3-PFDoS	50 ug/mL
.PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
.PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
1633_125_SS_00214	07/19/26	01/19/26	Methanol, Lot EK350-US	25 mL	PFC_ST_05275	0.5 mL	d7-N-MeFOSE-M	1000 ng/mL
					PFC_ST_05300	0.2 mL	13C4 PFHpA	400 ng/mL
					PFC_ST_05310	0.2 mL	13C8 PFOA	400 ng/mL
					PFC_ST_05325	0.2 mL	13C6 PFDA	400 ng/mL
					PFC_ST_05332	0.2 mL	13C7 PFUnA	400 ng/mL
					PFC_ST_05335	0.2 mL	13C2 PFDoA	400 ng/mL
					PFC_ST_05339	0.2 mL	13C2 PFTeDA	400 ng/mL
					PFC_ST_05354	0.2 mL	13C3 PFHxS	379.2 ng/mL
					PFC_ST_05455	0.2 mL	d3-NMePFOSA	400 ng/mL
					PFC_ST_05463	0.2 mL	13C3 HFPO-DA	400 ng/mL
					PFC_ST_05473	0.2 mL	13C4 PFBA	400 ng/mL
					PFC_ST_05477	0.2 mL	13C5 PFHxA	400 ng/mL
					PFC_ST_05480	0.2 mL	13C9 PFNA	400 ng/mL
					PFC_ST_05486	0.2 mL	13C8 PFOS	383.2 ng/mL
					PFC_ST_05500	0.2 mL	13C3-PFPrA	400 ng/mL
					PFC_ST_05511	0.2 mL	d5-NEtPFOSA	400 ng/mL
					PFC_ST_05534	0.2 mL	13C5 PFPeA	400 ng/mL
					PFC_ST_05560	0.5 mL	13C2 8:2 FTS	960 ng/mL
					PFC_ST_05583	0.2 mL	13C3 PFBS	372.8 ng/mL
					PFC_ST_05590	0.5 mL	d3-NMeFOSAA	1000 ng/mL
					PFC_ST_05614	0.5 mL	d5-NEtFOSAA	1000 ng/mL
					PFC_ST_05643	0.5 mL	13C2 4:2 FTS	938 ng/mL
					PFC_ST_05701	0.5 mL	13C2 6:2 FTS	952 ng/mL
					PFC_ST_05740	0.2 mL	13C3-PFDoS	400 ng/mL
					PFC_ST_05846	0.2 mL	13C8 FOSA	400 ng/mL
					PFC_ST_05878	0.5 mL	d9-N-EtFOSE-M	1000 ng/mL
.PFC_ST_05275	01/19/27	Wellington Laboratories, Lot d7NMeFOSE0925M			(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
.PFC_ST_05300	01/08/27	Wellington Laboratories, Lot M4PFHpA0725			(Purchased Reagent)		13C4 PFHpA	50000 ng/mL
.PFC_ST_05310	01/19/27	Wellington Laboratories, Lot M8PFOA0625			(Purchased Reagent)		13C8 PFOA	50000 ng/mL
.PFC_ST_05325	01/08/27	Wellington Laboratories Inc., Lot M6PFDA0925			(Purchased Reagent)		13C6 PFDA	50 ug/mL
.PFC_ST_05332	01/08/27	Wellington Laboratories Inc., Lot M7PFUdA0925			(Purchased Reagent)		13C7 PFUnA	50 ug/mL
.PFC_ST_05335	01/08/27	Wellington Laboratories Inc., Lot MPFDoA0525			(Purchased Reagent)		13C2 PFDoA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC_ST_05339	01/08/27	Wellington Laboratories Inc., Lot M2PFTeDA0525			(Purchased Reagent)		13C2 PFTeDA	50 ug/mL
.PFC_ST_05354	01/08/27	Wellington Laboratories, Lot M3PFHxS1025			(Purchased Reagent)		13C3 PFHxS	47400 ng/mL
.PFC_ST_05455	01/19/27	Wellington Laboratories, Lot dNMeFOSA1024M			(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
.PFC_ST_05463	01/08/27	Wellington Laboratories, Lot M3HFPODA0825			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_05473	01/08/27	Wellington Laboratories, Lot MPFBA0725			(Purchased Reagent)		13C4 PFBA	50000 ng/mL
.PFC_ST_05477	01/08/27	Wellington Laboratories, Lot M5PFHxA0925			(Purchased Reagent)		13C5 PFHxA	50000 ng/mL
.PFC_ST_05480	01/08/27	Wellington Laboratories, Lot M9PFNA0625			(Purchased Reagent)		13C9 PFNA	50000 ng/mL
.PFC_ST_05486	01/08/27	Wellington Laboratories, Lot M8PFOS1224			(Purchased Reagent)		13C8 PFOS	47900 ng/mL
.PFC_ST_05500	01/19/27	Cambridge Isotope Laboratories, Inc, Lot B003784			(Purchased Reagent)		13C3-PFPrA	50000 ng/mL
.PFC_ST_05511	01/08/27	Wellington Laboratories, Lot dNEtFOSA1125M			(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
.PFC_ST_05534	01/08/27	Wellington Laboratories, Lot M5PFPeA0825			(Purchased Reagent)		13C5 PFPeA	50000 ng/mL
.PFC_ST_05560	12/31/26	Wellington Laboratories, Lot M282FTS0425			(Purchased Reagent)		13C2 8:2 FTS	48000 ng/mL
.PFC_ST_05583	01/13/27	Wellington Laboratories, Lot M3PFBS0825			(Purchased Reagent)		13C3 PFBS	46600 ng/mL
.PFC_ST_05590	01/19/27	Wellington Laboratories, Lot d3NMeFOSAA0925			(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
.PFC_ST_05614	01/19/27	Wellington Laboratories, Lot d5NEtFOSAA0525			(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
.PFC_ST_05643	01/19/27	Wellington Laboratories, Lot M242FTS1225			(Purchased Reagent)		13C2 4:2 FTS	46900 ng/mL
.PFC_ST_05701	01/19/27	Wellington Laboratories, Lot M262FTS1125			(Purchased Reagent)		13C2 6:2 FTS	47600 ng/mL
.PFC_ST_05740	01/19/27	LGC, Lot 1-H1536184MW			(Purchased Reagent)		13C3-PFDoS	50 ug/mL
.PFC_ST_05846	01/19/27	Wellington Laboratories, Lot M8FOSA1225I			(Purchased Reagent)		13C8 FOSA	50000 ng/mL
.PFC_ST_05878	01/19/27	Wellington Laboratories, Lot d9NEtFOSE1025M			(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/g
1633_125_WDM_00018	05/12/26	11/12/25	Methanol, Lot 9472110292533A	10 mL	PFC_IN_01525	0.05 mL	Taurodeoxycholic Acid	25.3 ng/mL
							Taurochenodeoxycholic acid	23.7025 ng/mL
							Tauroursodeoxycholic acid	25.45 ng/mL
.PFC_IN_01525	08/02/26	11/12/25	Methanol, Lot EH850-US	5 mL	PFC_IN_01524	0.1 mL	Taurodeoxycholic Acid	5060 ng/mL
							Taurochenodeoxycholic acid	4740.5 ng/mL
							Tauroursodeoxycholic acid	5090 ng/mL
..PFC_IN_01524	08/02/26	11/12/25	Methanol, Lot EH850-US	4 mL	PFC_IN_01521	1 mL	Taurodeoxycholic Acid	253000 ng/mL
					PFC_IN_01522	1 mL	Taurochenodeoxycholic acid	237025 ng/mL
					PFC_IN_01523	1 mL	Tauroursodeoxycholic acid	254500 ng/mL
...PFC_IN_01521	09/29/26	11/12/25	Methanol, Lot EI950-US	50 mL	PFC_ST_TDCA_00005	0.0506 g	Taurodeoxycholic Acid	1012000 ng/mL
....PFC_ST_TDCA_00005	09/29/26	Sigma Aldrich, Lot SLCD5024			(Purchased Reagent)		Taurodeoxycholic Acid	1000000 mg/Kg
...PFC_IN_01522	08/02/26	11/12/25	Methanol, Lot EH850-US	50 mL	PFC_ST_TCDCA_00001	0.0499 g	Taurochenodeoxycholic acid	948100 ng/mL
....PFC_ST_TCDCA_00001	08/02/26	Sigma Aldrich, Lot SLCJ5790			(Purchased Reagent)		Taurochenodeoxycholic acid	950000 ppm
...PFC_IN_01523	09/30/26	11/12/25	Methanol, Lot EH850-US	50 mL	PFC_ST_TUDCA_00002	0.0509 g	Tauroursodeoxycholic acid	1018000 ng/mL
....PFC_ST_TUDCA_00002	09/30/26	Calbiochem, Lot 3847932			(Purchased Reagent)		Tauroursodeoxycholic acid	1000000 ppm
1633_125_WDM_00019	05/12/26	12/16/25	Methanol, Lot 9271712162533A	10 mL	PFC_IN_01525	0.05 mL	Taurodeoxycholic Acid	25.3 ng/mL
							Taurochenodeoxycholic acid	23.7025 ng/mL
							Tauroursodeoxycholic acid	25.45 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC_IN_01525	08/02/26	11/12/25	Methanol, Lot EH850-US	5 mL	PFC_IN_01524	0.1 mL	Taurodeoxycholic Acid	5060 ng/mL
							Taurochenodeoxycholic acid	4740.5 ng/mL
							Tauroursodeoxycholic acid	5090 ng/mL
..PFC_IN_01524	08/02/26	11/12/25	Methanol, Lot EH850-US	4 mL	PFC_IN_01521	1 mL	Taurodeoxycholic Acid	253000 ng/mL
					PFC_IN_01522	1 mL	Taurochenodeoxycholic acid	237025 ng/mL
					PFC_IN_01523	1 mL	Tauroursodeoxycholic acid	254500 ng/mL
...PFC_IN_01521	09/29/26	11/12/25	Methanol, Lot EI950-US	50 mL	PFC_ST_TDCA_00005	0.0506 g	Taurodeoxycholic Acid	1012000 ng/mL
....PFC_ST_TDCA_00005	09/29/26	Sigma Aldrich, Lot SLCD5024			(Purchased Reagent)		Taurodeoxycholic Acid	1000000 mg/Kg
...PFC_IN_01522	08/02/26	11/12/25	Methanol, Lot EH850-US	50 mL	PFC_ST_TCDCA_00001	0.0499 g	Taurochenodeoxycholic acid	948100 ng/mL
....PFC_ST_TCDCA_00001	08/02/26	Sigma Aldrich, Lot SLCJ5790			(Purchased Reagent)		Taurochenodeoxycholic acid	950000 ppm
...PFC_IN_01523	09/30/26	11/12/25	Methanol, Lot EH850-US	50 mL	PFC_ST_TUDCA_00002	0.0509 g	Tauroursodeoxycholic acid	1018000 ng/mL
....PFC_ST_TUDCA_00002	09/30/26	Calbiochem, Lot 3847932			(Purchased Reagent)		Tauroursodeoxycholic acid	1000000 ppm

Reagent

PFC_ST_02966

6020949
ID: PFC_ST_02969
Exp:09/19/28 Prpd VK3G Opn
Native NEtPFOSA Stock

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: N-EtFOSA-M
LOT NUMBER: NEtFOSA0923M
COMPOUND: N-Ethylperfluoro-1-octanesulfonamide

STRUCTURE:



CAS #: 4151-50-2

410-6020932

MOLECULAR FORMULA:	$C_{10}H_6F_{17}NO_2S$	**MOLECULAR WEIGHT:**	527.20
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	09/19/2023		
EXPIRY DATE: (mm/dd/yyyy)	09/19/2028		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 10/04/2023 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

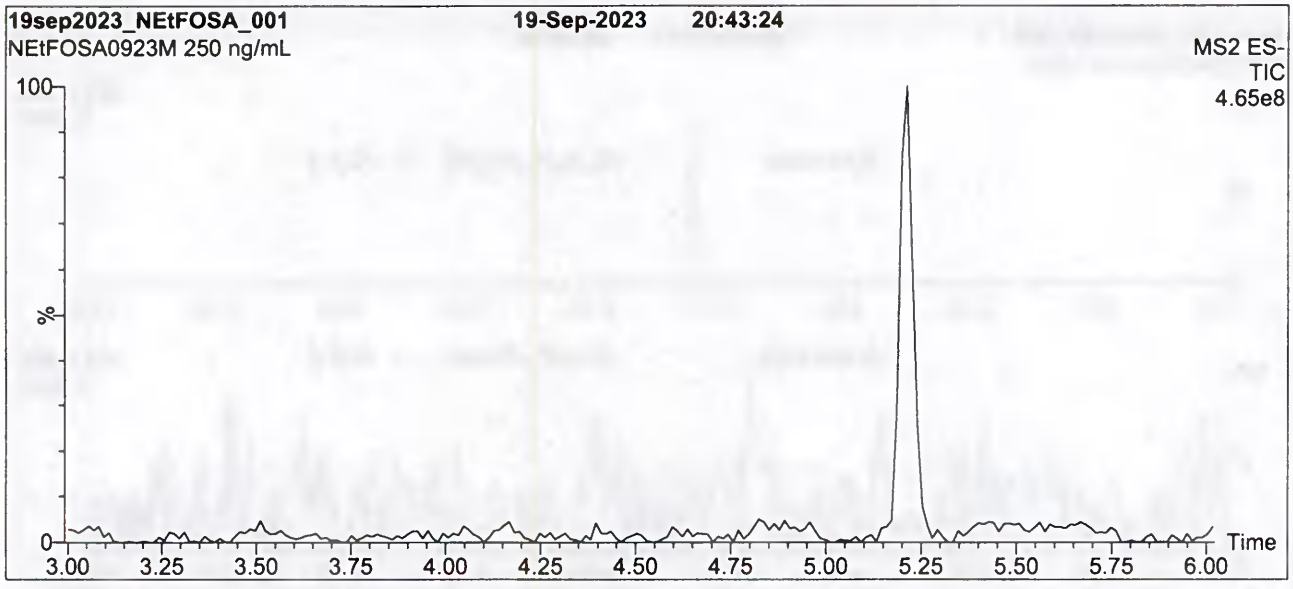
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

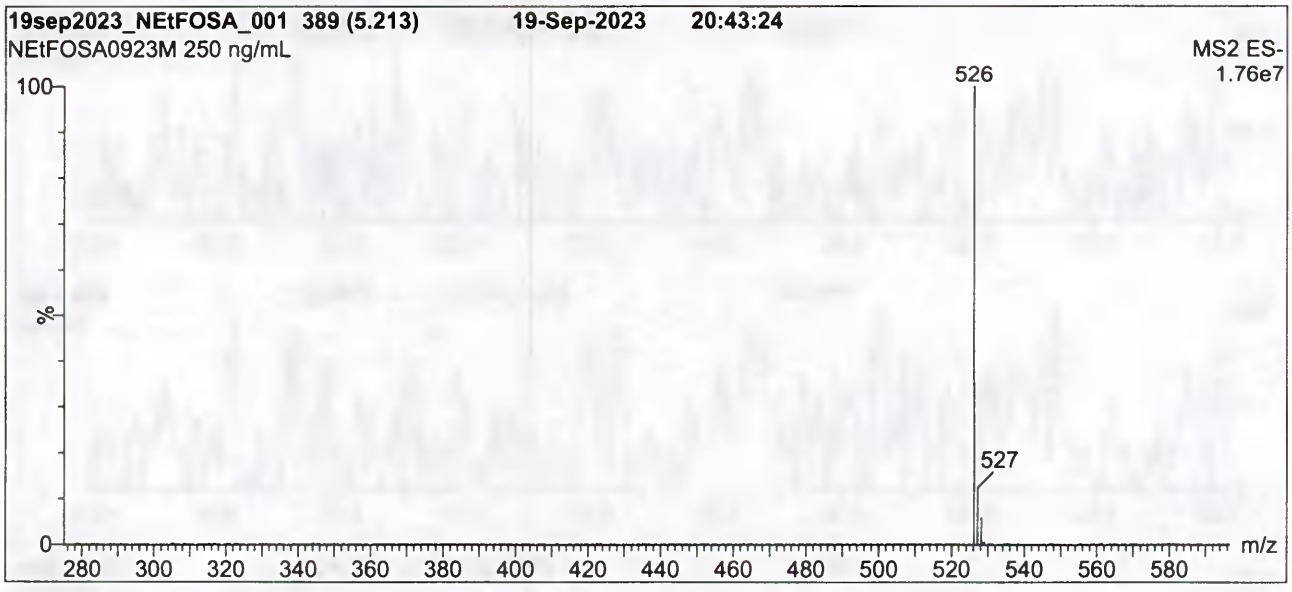
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **N-EtFOSA-M; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 min and hold for 2 min
before returning to initial conditions in 0.5 min.
Time: 12 min

Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (275 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 1.00
Cone Voltage (V) = 44.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **N-EtFOSA-M; LC/MS/MS Data (Selected MRM Transitions)**

Conditions for Figure 2:

Injection: On-column (N-EtFOSA-M)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.34e-3

Collision Energy (eV) = 24

Form#:27. Issued 2004-11-10
Revision#:9. Revised 2020-12-23

NEtFOSA09023M (4 of 4)
rev0

Reagent

PFC_ST_02967

ID: PFC_ST_02968
Exp:03/07/29 Prpd:VK3G Opn
Native NMePFOSA Stock

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: N-MeFOSA-M
LOT NUMBER: NMeFOSA0324M
COMPOUND: N-Methylperfluoro-1-octanesulfonamide

STRUCTURE:



CAS #: 31506-32-8

410-6020937

MOLECULAR FORMULA:	$C_9H_4F_{17}NO_2S$	**MOLECULAR WEIGHT:**	513.17
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	03/07/2024		
EXPIRY DATE: (mm/dd/yyyy)	03/07/2029		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains <0.1% total of branched N-methylperfluorooctanesulfonamide isomers, and ~0.2% of N-methylperfluoro-1-heptanesulfonamide.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 03/28/204
(mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

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Figure 1: N-MeFOSA-M; LC/MS Data (Full Scan and Mass Spectrum)

Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP$_{18}$
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 min and hold for
2 min before returning to initial conditions in 0.5 min.
Time: 12 min

Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 1.00
Cone Voltage (V) = 44.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **N-MeFOSA-M; LC/MS/MS Data (Selected MRM Transitions)**

Conditions for Figure 2:

Injection: On-column (N-MeFOSA-M)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.39e-3

Collision Energy (eV) = 24

Reagent

PFC_ST_03140

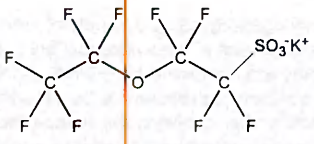
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: PFEESA **LOT NUMBER:** PFEESA0524

COMPOUND: Potassium perfluoro(2-ethoxyethane)sulfonate

STRUCTURE: **CAS #:** 117205-07-9



410-6223168

MOLECULAR FORMULA:	$C_4F_9O_4SK$	**MOLECULAR WEIGHT:**	354.19
CONCENTRATION:	50.0 ± 2.5 µg/mL (K salt)	**SOLVENT(S):**	Methanol
	44.6 ± 2.2 µg/mL (PFEESA acid)		
	44.5 ± 2.2 µg/mL (PFEESA anion)		
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	06/03/2024		
EXPIRY DATE: (mm/dd/yyyy)	06/03/2029		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~0.2% of perfluoro-n-octanoic acid (PFOA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 06/19/2024 (mm/dd/yyyy)

B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

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SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

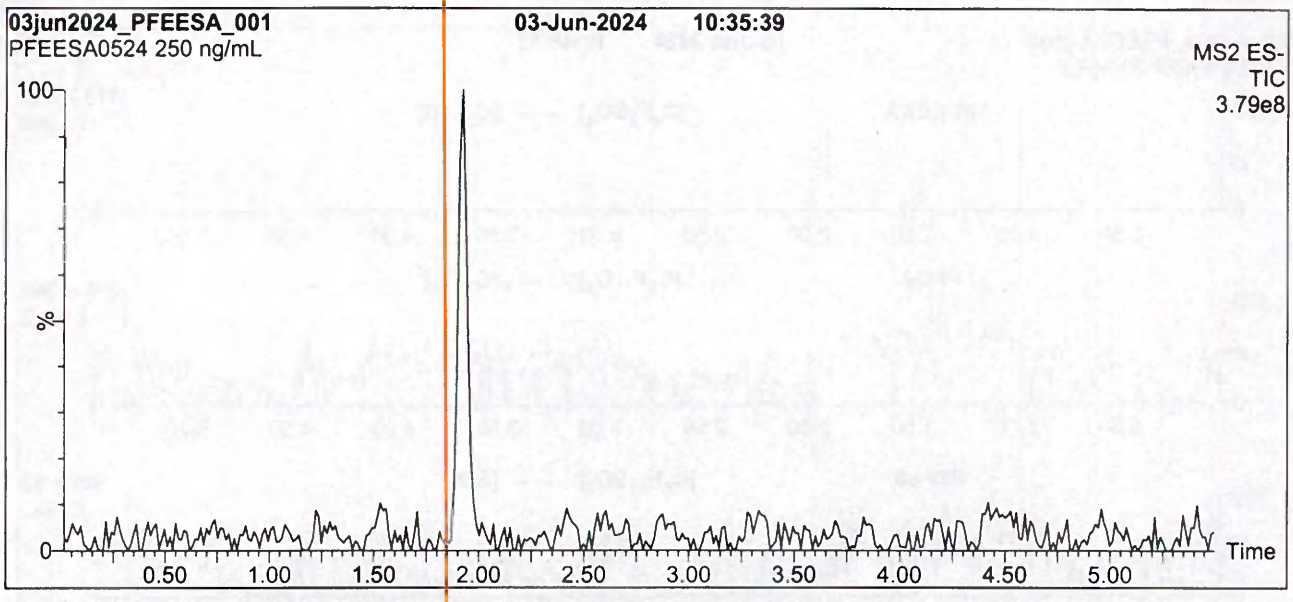
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

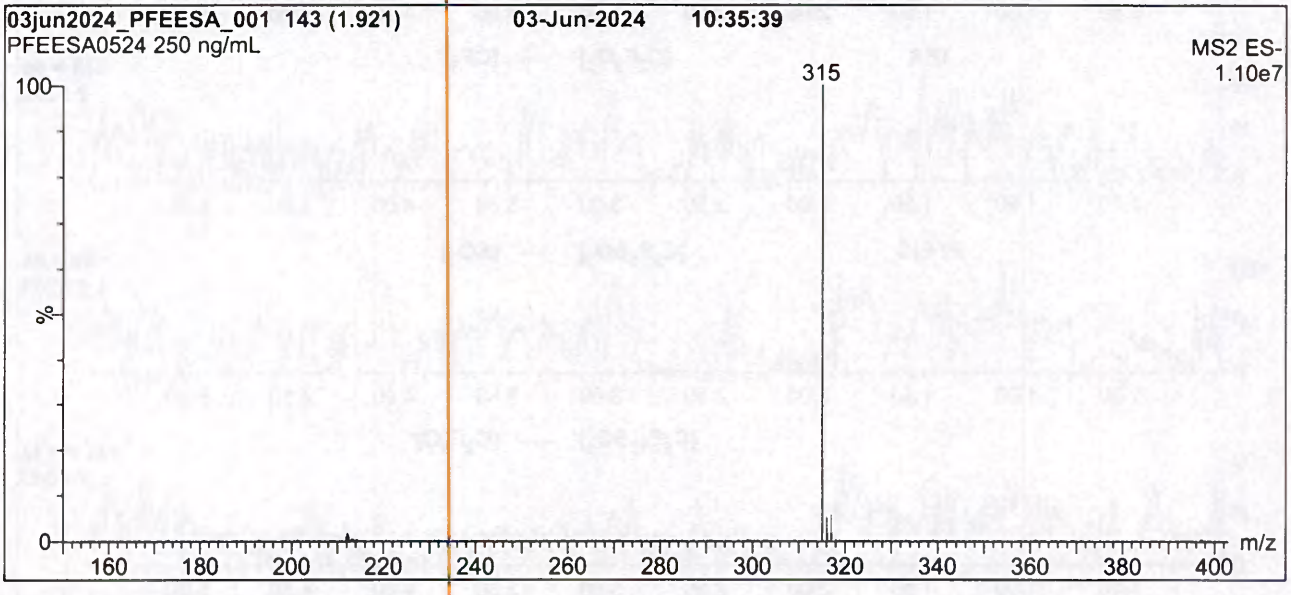
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

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Figure 1: PFEESA; LC/MS Data (Full Scan and Mass Spectrum)





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 min and hold for 2 min
before returning to initial conditions in 0.5 min.
Time: 12 min

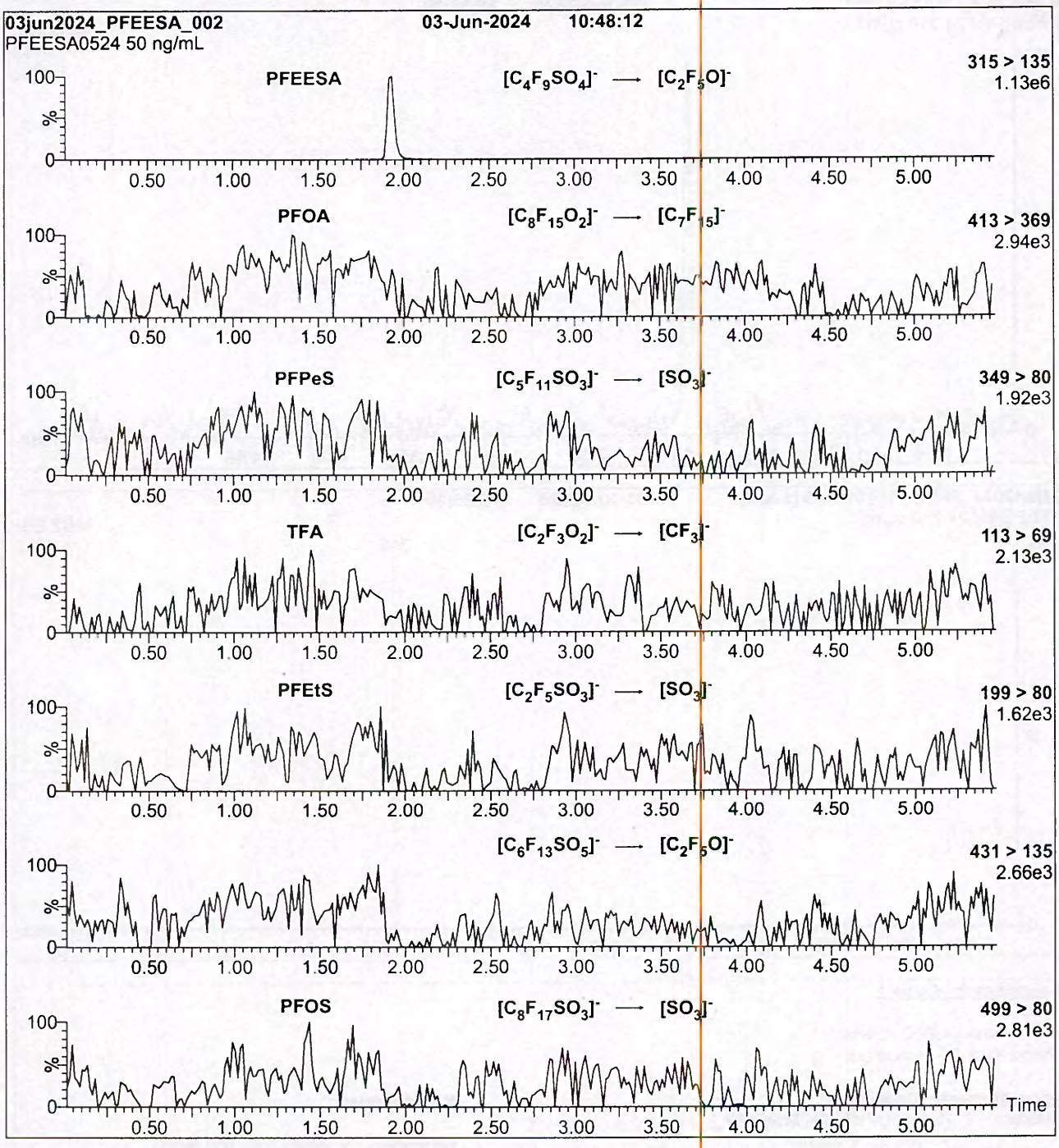
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 1.00
Cone Voltage (V) = 38.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **PFEESA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFEESA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.36e-3
Collision Energy (eV) = 22

Reagent

PFC_ST_03447

125 Market Street
New Haven CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

PFC_ST_03447

Catalog No PFOS-030S
Description Bis(trifluoromethane)sulfonimide lithium salt (HQ-115)
Lot: 224061564
Solvent: Methanol
Hazards *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified Jun 27 2024
Expiration Jul 27 2026
Sample Size 1 mL
Components 1
Storage Condition Freeze (< -10 °C)

410-7082864

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Bis(trifluoromethane)sulfonimide lithium salt	90076-65-6	97 0	104 6*	101 5

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT 1339) and ISO 17034 (AR-1463)

* Weight compensated to 100% purity

A product with a suffix (1A, -2B, etc. or -01 -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4% and was determined in accordance with ISO 17034. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater A period (.) is used as a decimal place marker

The information on this certificate may not be reproduced without the express permission of the manufacturer See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

1. **Quality Standards:**

   ISO 17034.2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025 2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001 2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side This product can be used for quantification and/or identification This product can also be used as a reference material to validate analytical procedures subject to the conditions under Section 7

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory Please refer to the NIST test number listed on the front of this certificate Class A glassware is used in the manufacture and quality control of all standards Good Laboratory Practices have been used throughout the preparation of this Standard

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability**· The manufacturer guarantees the stability of this solution through the expiration date stated on the label when handled and stored according to the conditions stated on the label

6. **Uncertainty**· The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula. $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass volume short-term stability long-term stability and homogeneity factors associated with the production of this product The expanded uncertainty assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only The company's liability will be limited to replacement of product or refund of purchase price Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

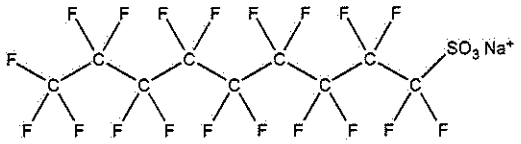
PFC_ST_03527

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC JT_ 03527

PRODUCT CODE.	L-PFNS	**LOT NUMBER.**	LPFNS0724
COMPOUND.	Sodium perfluoro-1-nonanesulfonate		
STRUCTURE.		**CAS #.**	98789-57 2



410-7222604

MOLECULAR FORMULA.	$C_9F_{19}SO_3Na$	**MOLECULAR WEIGHT:**	572.12
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 48 1 ± 2.4 µg/mL (PFNS acid) 48 0 ± 2.4 µg/mL (PFNS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY.	>98%		
LAST TESTED. (mm/dd/yyyy)	07/17/2024		
EXPIRY DATE. (mm/dd/yyyy)	07/17/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 07/24/2024 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Gueiph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@weil-labs.com

INTENDED USE.

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HANDLING.

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$$u_c(y(x_1\ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

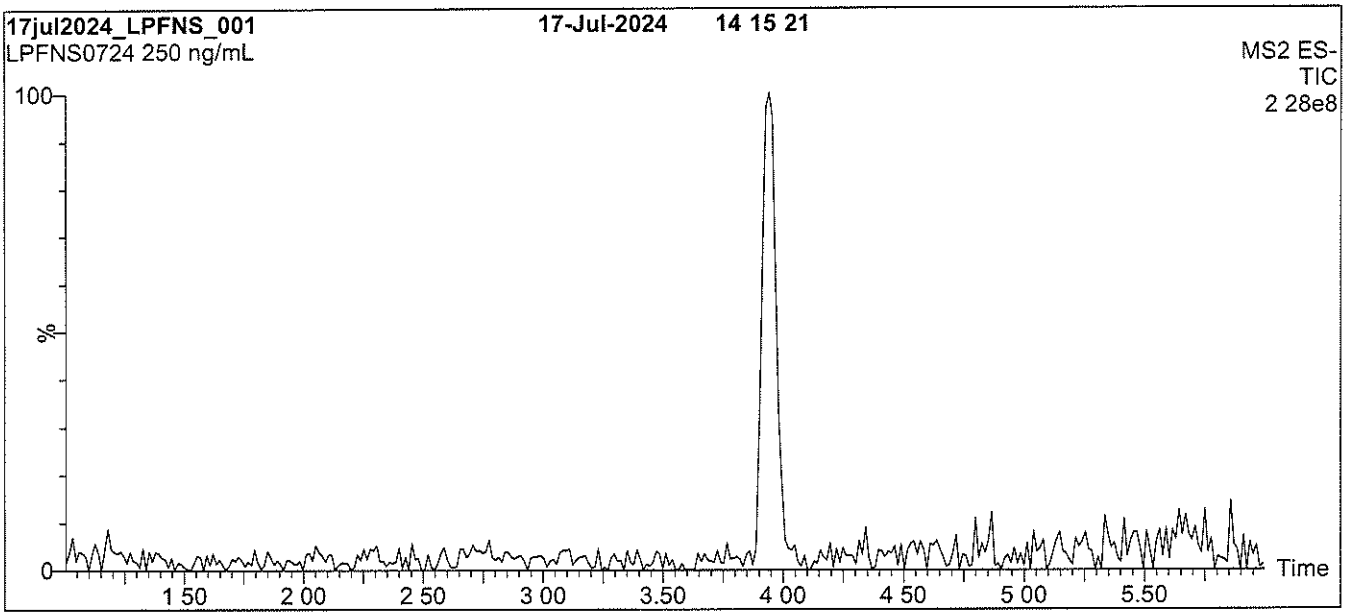
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523).

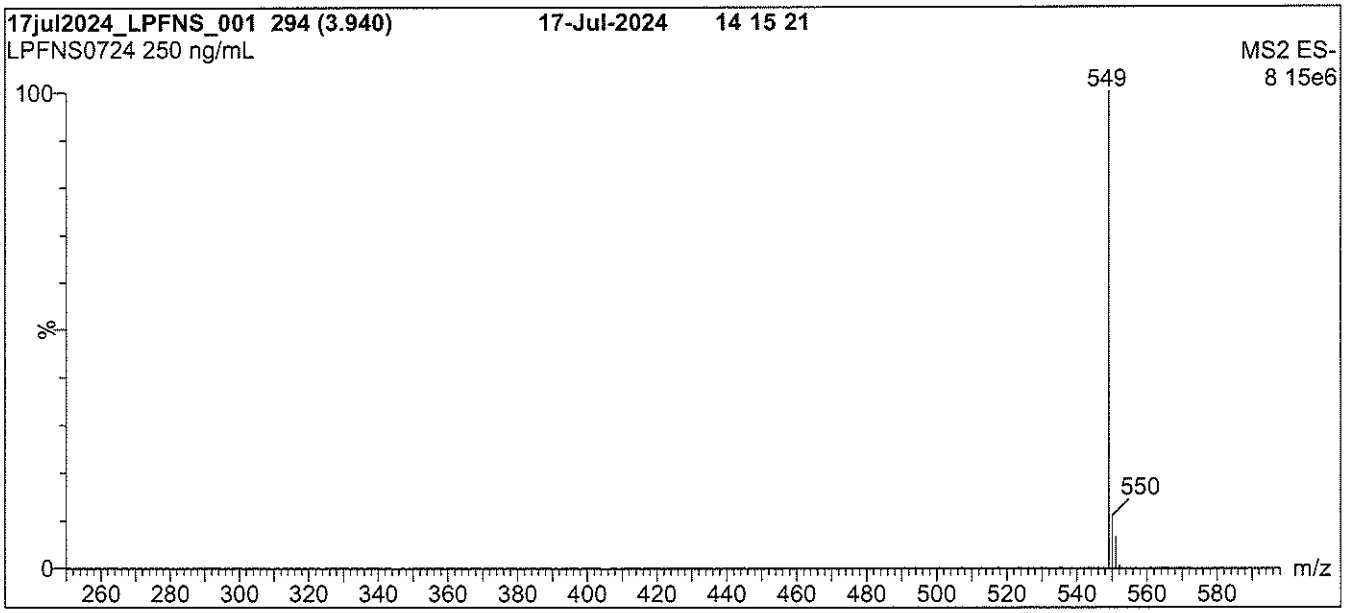
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **L-PFNS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

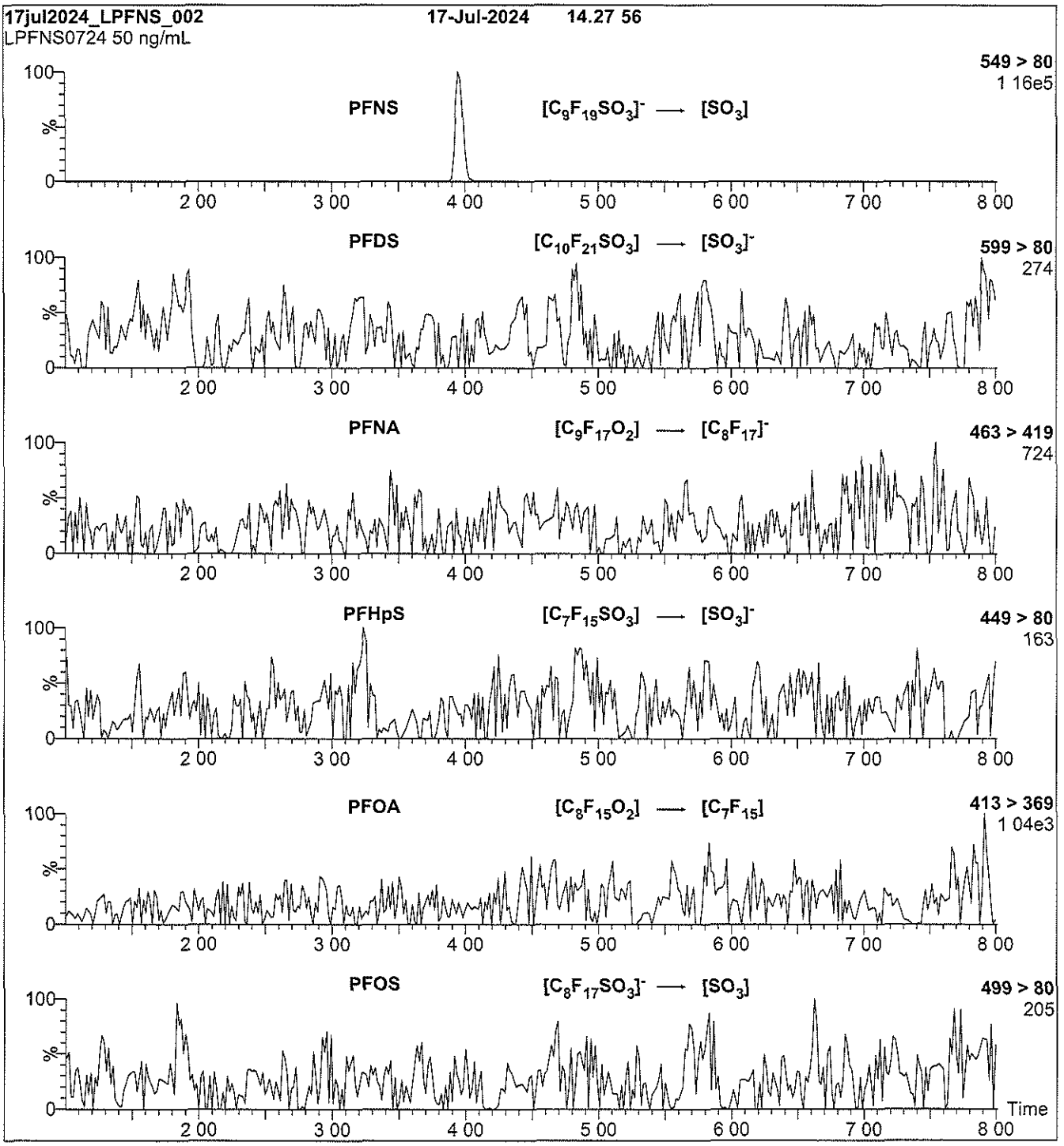
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) =1000

Figure 2. **L-PFNS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (L-PFNS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5.94e-3
Collision Energy (eV) = 64

Reagent

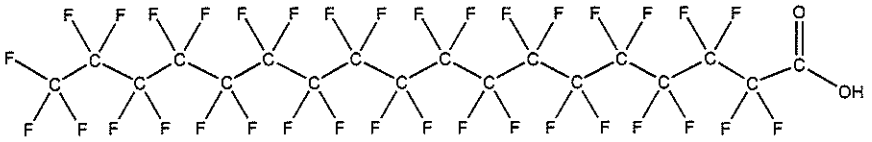
PFC_ST_03557

7243169
ID: PFC_ST_0355
Exp:02/21/29 Prpd:R7RE Opn:02/17/25
Native PFODA Stock
410-7243169

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	PFODA	**LOT NUMBER.**	PFODA0224
COMPOUND.	Perfluoro-n-octadecanoic acid		
STRUCTURE.		**CAS #.**	16517-11-6



MOLECULAR FORMULA.	$C_{18}HF_{35}O_2$	**MOLECULAR WEIGHT:**	914 14
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	02/21/2024		
EXPIRY DATE. (mm/dd/yyyy)	02/21/2029		
RECOMMENDED STORAGE.	Store ampoule at ambient temperature in a dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- The solubility of this product in methanol is very sensitive to storage conditions and solvent composition The stated validity period applies to the sealed ampoules stored at ambient temperature

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Certified By _____ **Date** 02/21/2024 (mm/dd/yyyy)
B G. Chittim General Manager

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519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS LC/MS/MS SFC/UV/MS/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS/MS and/or SFC/UV/MS/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty, $u_c(y)$ of a value y and the uncertainty of the independent parameters x_1 x_2, $.x_n$ on which it depends is.

$$u_c(y(x_1\ x,\ \ .x_n)) = \sqrt{\sum^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

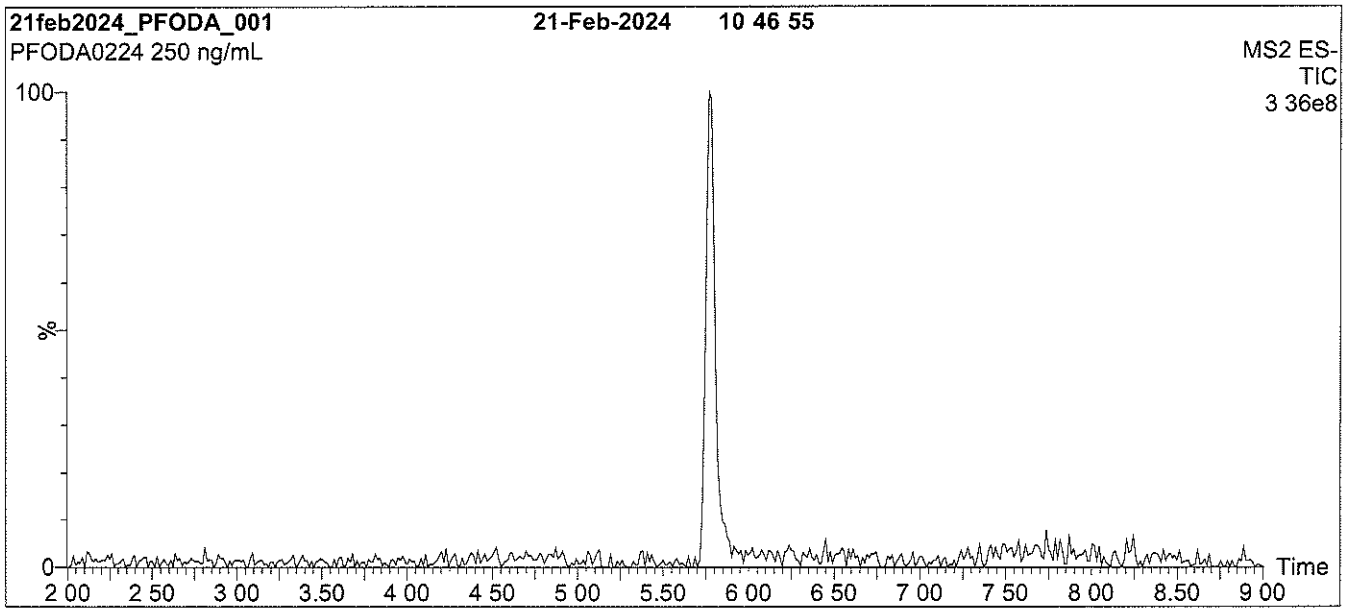
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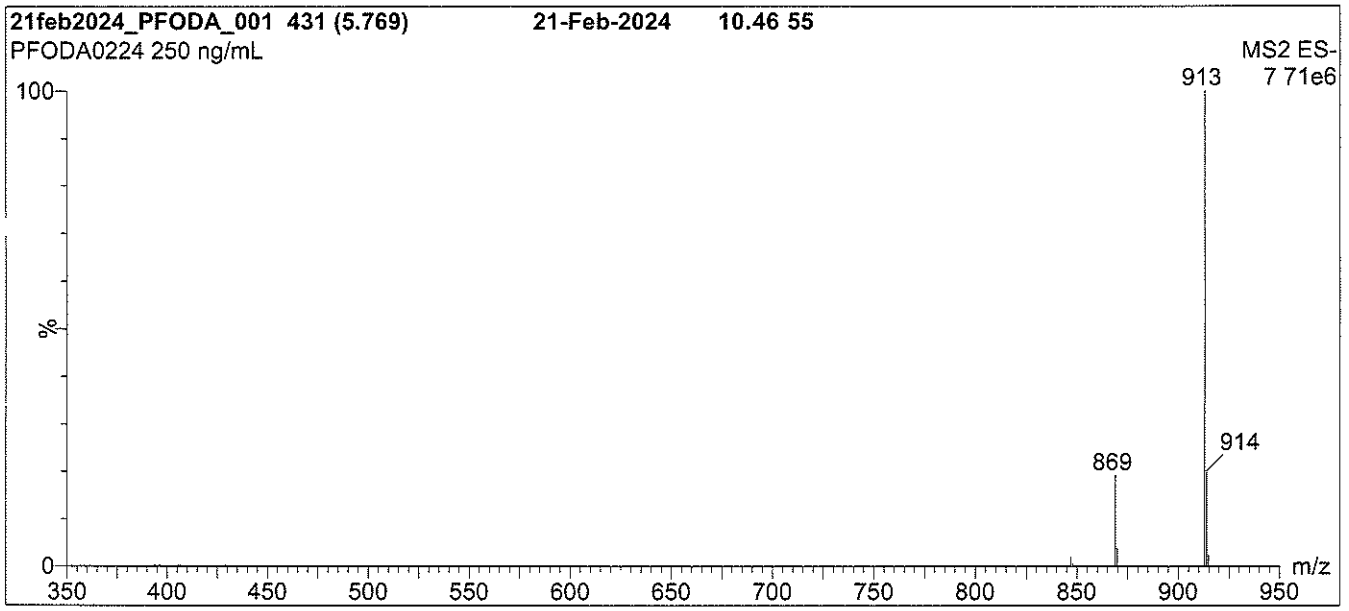
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **PFODA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S Micro MS

Chromatographic Conditions.

Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start: 30% H_2O / 70% (80.20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 8 min and hold for 2 min before returning to initial conditions in 0 5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (350 - 950 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **PFODA, LC/MS/MS Data (Selected MRM Transitions)**

Conditions for Figure 2.

Injection	On-column (PFODA)	**MS Parameters.**	
Mobile phase	Same as Figure 1	Collision Gas (mbar) = 4.44e-3	
Flow.	300 µL/min	Collision Energy (eV) = 15	

Reagent

PFC_ST_03637

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-03636, 03637
03638, 03639

br-PFOA

Perfluorooctanoic Acid
Solution/Mixture of Linear and Branched Isomers

410-7412397

PRODUCT CODE.	br-PFOA
LOT NUMBER.	brPFOA0524
CONCENTRATION.	50 0 ± 2 5 µg/mL
SOLVENT(S).	Methanol/Water (<1%)
DATE PREPARED. (mm/dd/yyyy)	05/31/2024
LAST TESTED. (mm/dd/yyyy)	06/04/2024
EXPIRY DATE. (mm/dd/yyyy)	06/04/2029
RECOMMENDED STORAGE.	Store ampoule in a cool dark place

DESCRIPTION.

The chemical purity has been determined to be ≥98% perfluorooctanoic acid linear and branched isomers
The full name structure and percent composition for each of the isomeric components are given in Table A

DOCUMENTATION/ DATA ATTACHED.

Table A. Isomeric Components and Percent Composition by ^{9}F NMR
Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (SIR)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- It is recommended to integrate and quantify the linear and branched isomers seperately as their response factors can vary depending on optimization acquisitions parameters
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters
- Contains ~0 6% of perfluoro-n-heptanoic acid (PFHpA)
- CAS#· 335-67 1 (for linear isomer)

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INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handl'ng of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized us ng single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a comb nation of the most relevant techniques, such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest n each solution are required to be <5% RSD New solution lots of existing products as well as mixtures and calibration solutions are compared to older lots or equivalent products in a similar manner This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions n the storage containers. In order to mainta n the ntegrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$, of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is

$$u_c(y(x \quad x \quad .x_n)) = \sqrt{\sum^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken nto account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

Th s product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR 1523)

CALA Testing Ac reditation No. A1226

ANAB ANSI National Accreditation Board ACCRED TED ISO 17034 REFERENCE MATERIAL PRODUCER

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Table A. **br-PFOA, Isomeric Components and Percent Composition (by ^{9}F-NMR)***

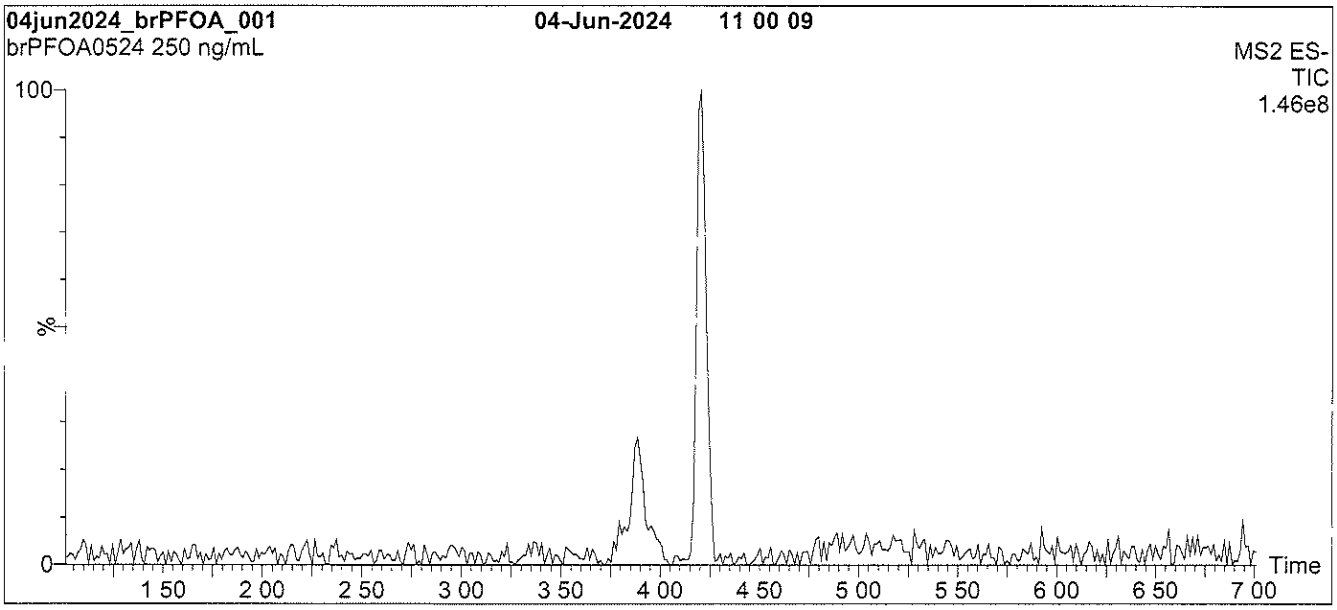
Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR
1	Perfluoro-n-octanoic acid	$CF_3(CF_2)_6CO_2H$	66 3
2	Perfluoro-3-methylheptanoic acid	$CF_3(CF_2)_3CFCF_2CO_2H$ CF_3	5 0
3	Perfluoro-4-methylheptanoic acid	$CF_3(CF_2)_2CF(CF_2)_2CO_2H$ CF_3	6 9
4	Perfluoro-5-methylheptanoic acid	$CF_3CF_2CF(CF_2)_3CO_2H$ CF_3	7 2
5	Perfluoro-6-methylheptanoic acid	$CF_3CF(CF_2)_4CO_2H$ CF_3	13 3
6	Perfluoro-5 5-dimethylhexanoic acid	CF_3 $CF_3C(CF_2)_3CO_2H$ CF_3	0 4
7	Perfluoro-4 5-dimethylhexanoic acid	CF_3 $CF_3CFCF(CF_2)_2CO_2H$ CF_3	0 5
8	Perfluoro-3 5-dimethylhexanoic acid	CF_3 $CF_3CFCF_2CFCF_2CO_2H$ CF_3	0 2
9	Perfluoro-4 4-dimethylhexanoic acid	CF_3 $CF_3CF_2C(CF_2)_2CO_2H$ CF_3	0.2
10	Perfluoro-3 3-dimethylhexanoic acid	CF_3 $CF_3(CF_2)_2CCF_2CO_2H$ CF_3	

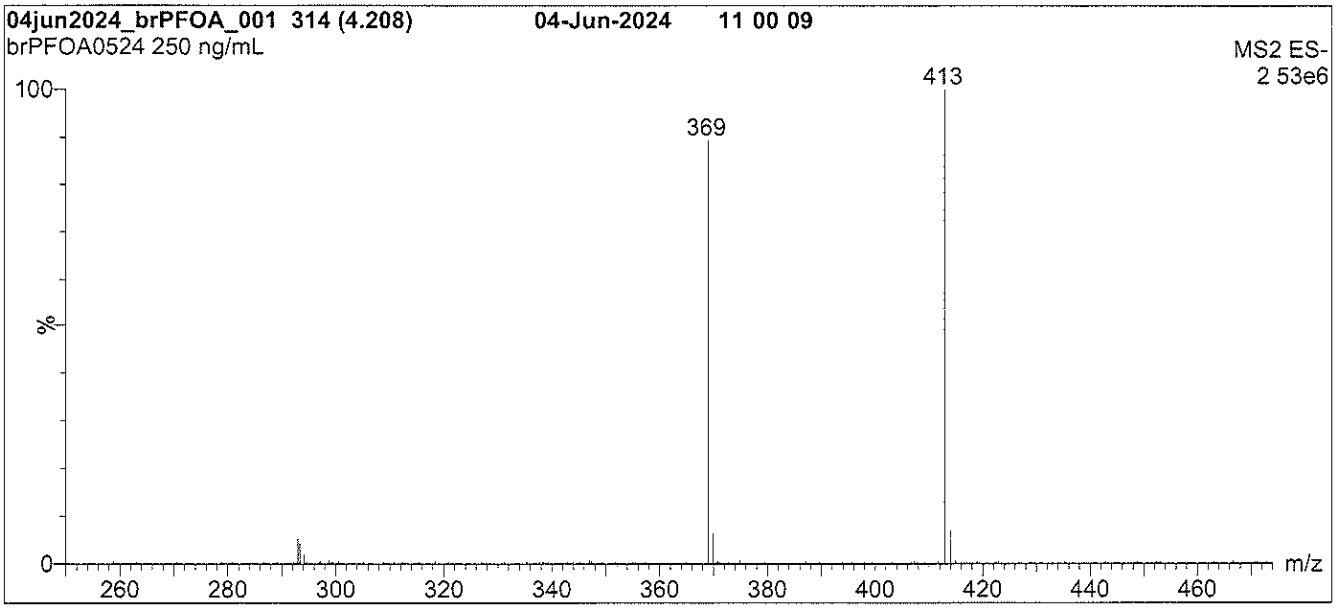
* Percent of total perfluorooctanoic acid isomers only

Certified By _____ **Date** 08/15/2024 (mm/dd/yyyy)

B G. Chittim General Manager

Figure 1. **br-PFOA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 12 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 15 min

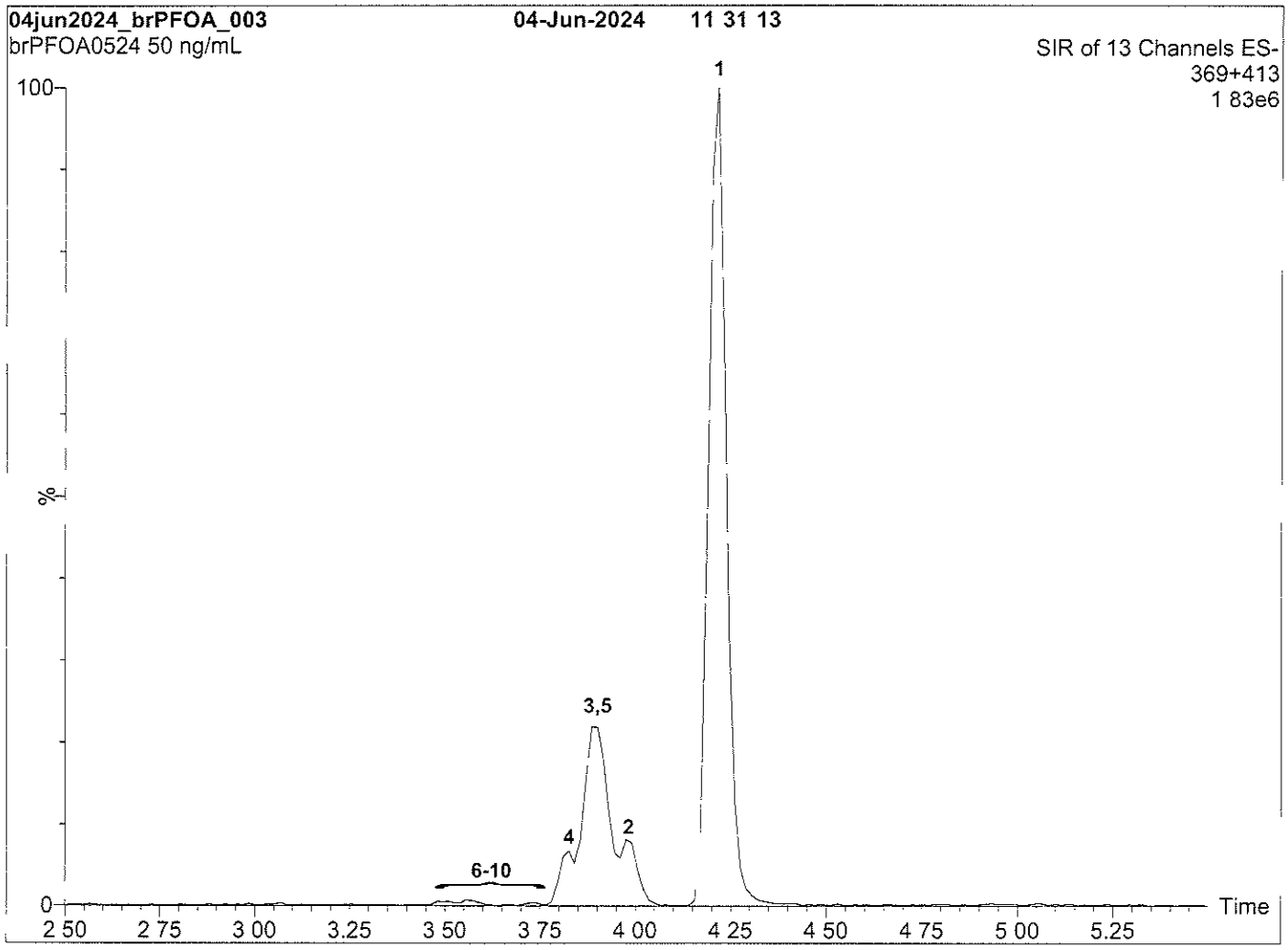
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **br-PFOA, LC/MS Data (SIR)**



Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP 8
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH OAc buffer)
Ramp to 90% organic over 12 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 15 min

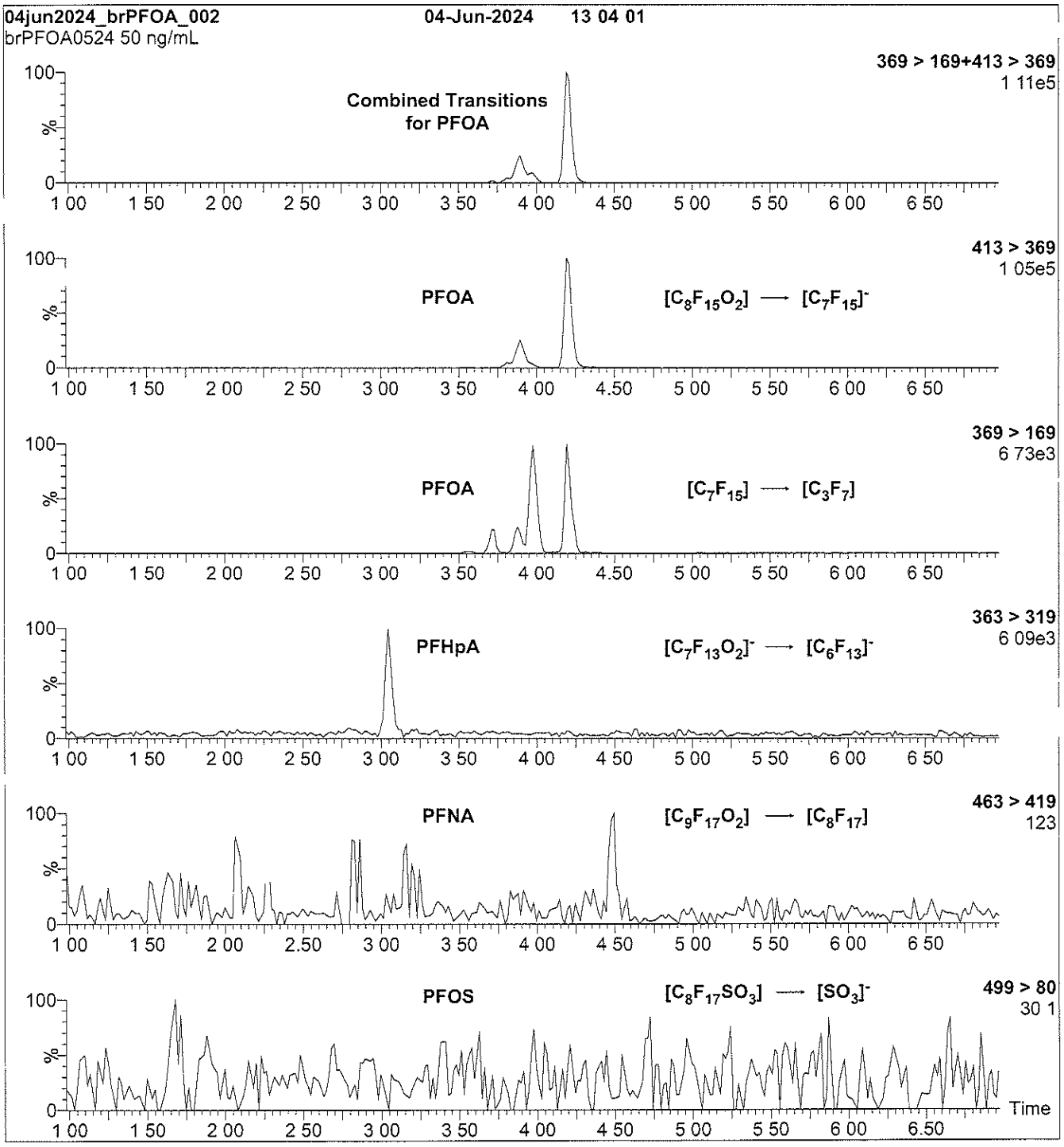
Flow: 300 µL/min

MS Parameters.

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **br-PFOA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3.

Injection	On-column (br-PFOA)
Mobile phase	Same as Figures 1 & 2
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.31e-3
Collision Energy (eV) = 15

Reagent

PFC_ST_03642

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

DEC_ST_03640 03641
03642

br-FOSA

Perfluorooctanesulfonamide Solution/Mixture of Linear and Branched Isomers

410-7412475

PRODUCT CODE.	br-FOSA
LOT NUMBER.	brFOSA0225
CONCENTRATION.	50 0 ± 2 5 µg/mL
SOLVENT(S).	Isopropanol
DATE PREPARED. (mm/dd/yyyy)	02/04/2025
LAST TESTED. (mm/dd/yyyy)	02/06/2025
EXPIRY DATE. (mm/dd/yyyy)	02/06/2030
RECOMMENDED STORAGE.	Refrigerate ampoule

DESCRIPTION.

The chemical purity has been determined to be ≥98% perfluorooctanesulfonamide (linear and branched isomers) The full name structure and percent composition for each of the identified isomeric components are given in Table A

DOCUMENTATION/ DATA ATTACHED.

Table A. Isomeric Components and Percent Composition by ^{19}F NMR
Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (SIR)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- CAS #: 754-91-6 (for linear isomer)
- It is recommended to integrate and quantify the linear and branched isomers serperately as their response factors can vary depending on optimized acquisition parameters

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INTENDED USE.

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HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-function ng fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR GC/MS, LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given d luent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of nterest in each solution are required to be <5% RSD New solution lots of existing products as well as mixtures and calibration solutions, are compared to older lots or equivalent products in a similar manner This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equ pment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is

$$u_c(y(x \quad x_2 \quad .x_n)) = \sqrt{\sum^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongo ng stability studies of this product have demonstrated stab lity n its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

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ISO 17034
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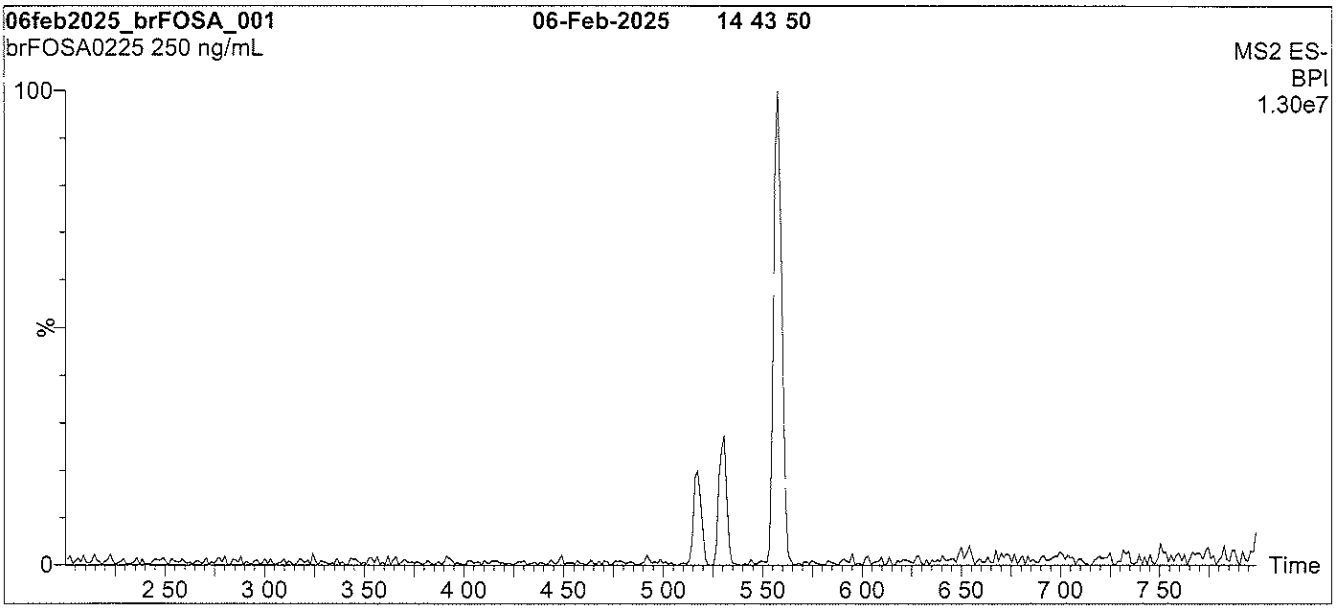
Table A. **br-FOSA Isomeric Components and Percent Composition (by ^{9}F-NMR)***

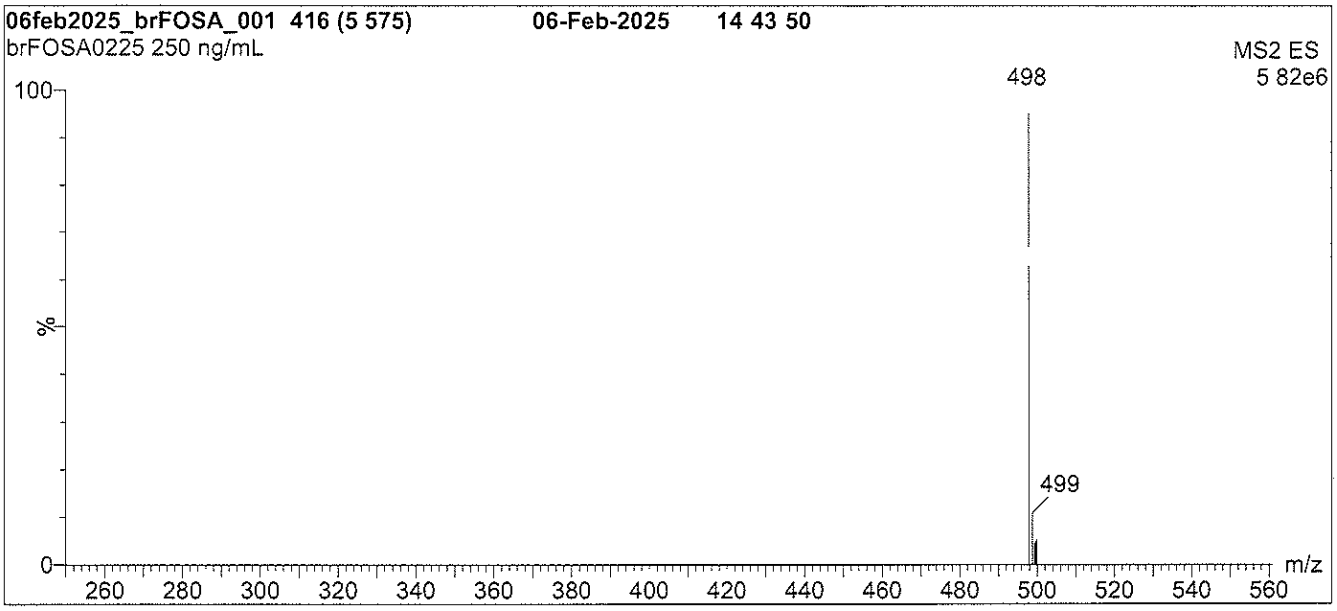
Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR
1	Perfluoro-1-octanesulfonamide	$CF_3(CF_2)_7SO_2NH_2$	66 6
2	Perfluoro-1-methyl-1 heptanesulfonamide**	$CF_3(CF_2)_5CFSO_2NH_2$ CF_3	0 8
3	Perfluoro-2-methyl-1-heptanesulfonamide	$CF_3(CF_2)_4CFCF_2SO_2NH_2$ CF_3	0 3
4	Perfluoro-3-methyl 1-heptanesulfonamide	$CF_3(CF_2)_3CF(CF_2)_2SO_2NH_2$ CF_3	4 2
5	Perfluoro-4-methyl-1-heptanesulfonamide	$CF_3(CF_2)_2CF(CF_2)_3SO_2NH_2$ CF_3	3 5
6	Perfluoro-5-methyl-1-heptanesulfonamide	$CF_3CF_2CF(CF_2)_4SO_2NH_2$ CF_3	7 8
7	Perfluoro-6-methyl 1-heptanesulfonamide	$CF_3CF(CF_2)_5SO_2NH_2$ CF_3	16 8
8	Perfluoro-5 5-dimethyl 1-hexanesulfonamide	CF_3 $CF_3C(CF_2)_4SO_2NH_2$ CF_3	0.2

* Percent of total perfluorooctanesulfonamide isomers only
** Systematic Name Perfluoro-2-octanesulfonamide

Certified By _____ **Date** 02/10/2025
(mm/dd/yyyy)
B G. Chittim General Manager

Figure 1. **br-FOSA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

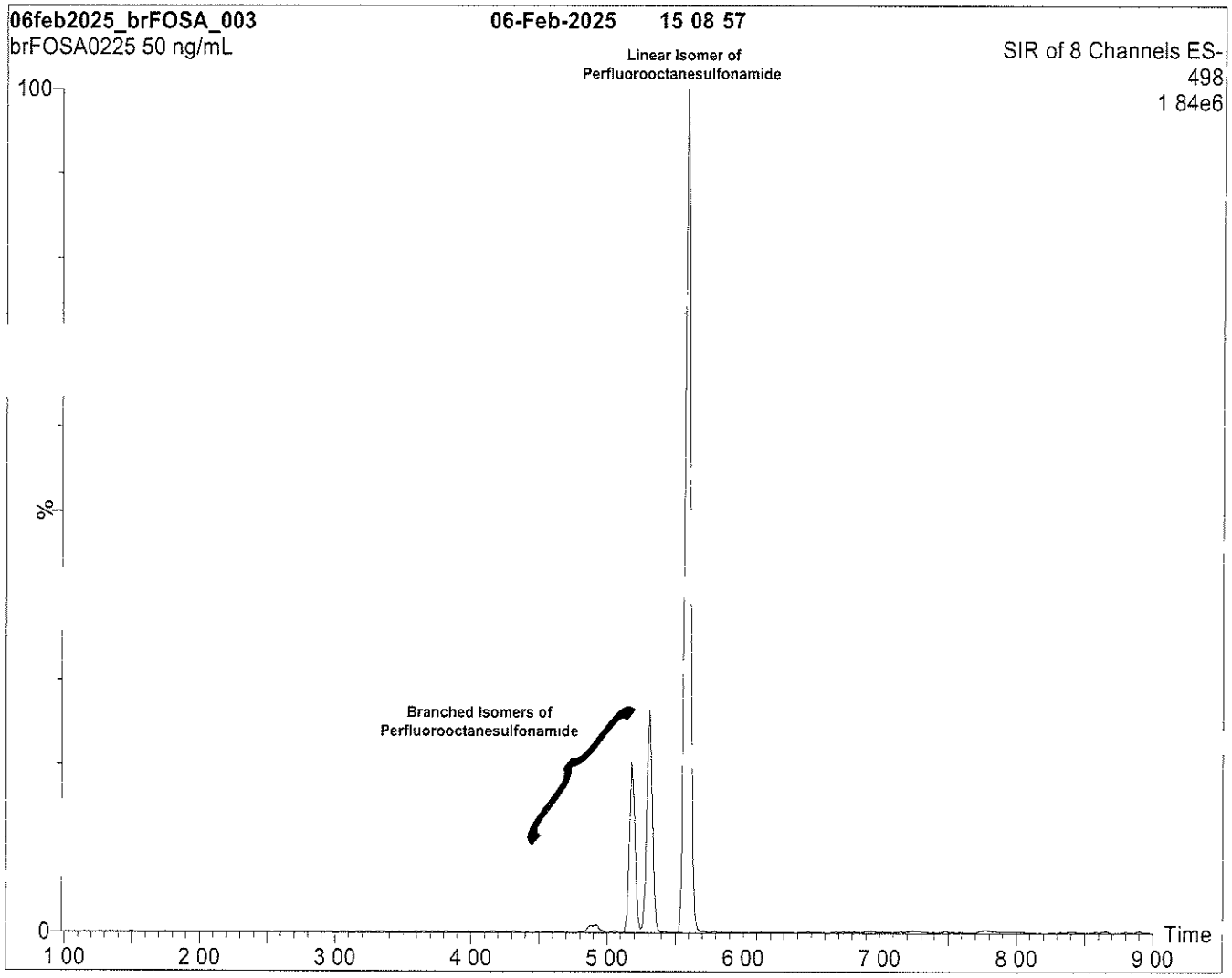
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80:20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions over 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 1 50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **br-FOSA, LC/MS Data (SIR)**



Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

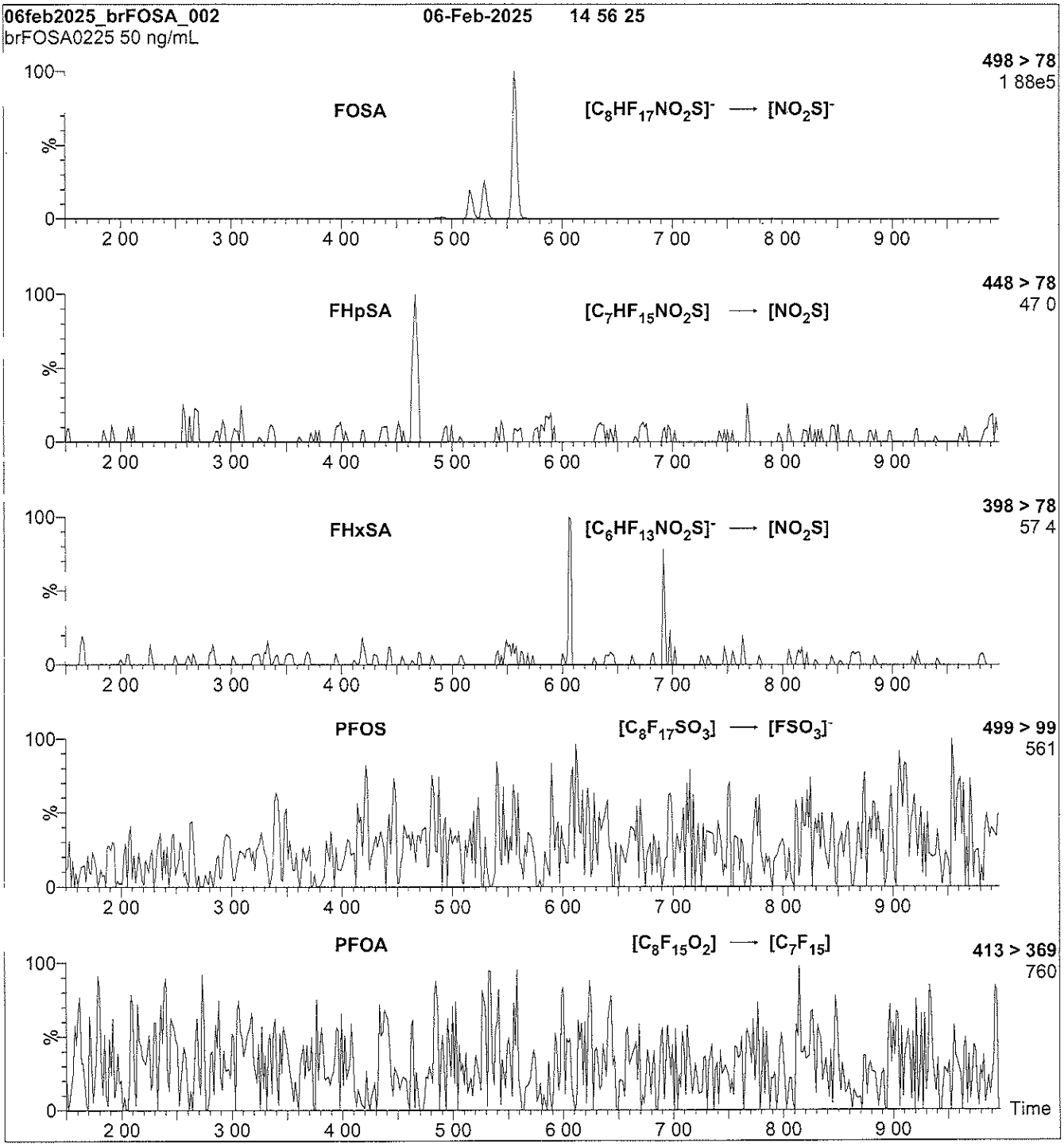
Column	Acquity UPLC BEH Shield RP $_8$ 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80 20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions over 0 5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: SIR

Source Electrospray (negative)
Capillary Voltage (kV) = 1 50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **br-FOSA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3.

Injection	On-column (br-FOSA)
Mobile phase	Same as Figures 1 & 2
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4 14e-3
Collision Energy (eV) = 30

Reagent

PFC_ST_03656

7447598
ID: PFC_ST_03656
Exp:03/24/29 Prpd:R7RE Opn:
Native NEtFOSAA Mixed Isomers

410-7447598

br-NEtFOSAA

N-Ethylperfluorooctanesulfonamidoacetic Acid Solution/Mixture of Linear and Branched Isomers

PRODUCT CODE.	br-NEtFOSAA
LOT NUMBER.	brNEtFOSAA0924
CONCENTRATION.	50 0 ± 2 5 µg/mL
SOLVENT(S).	Methanol/Water (<1%)
DATE PREPARED. (mm/dd/yyyy)	09/20/2024
LAST TESTED. (mm/dd/yyyy)	09/24/2024
EXPIRY DATE. (mm/dd/yyyy)	09/24/2029
RECOMMENDED STORAGE.	Refrigerate ampoule

DESCRIPTION.

The chemical purity has been determined to be ≥98% N-ethylperfluorooctanesulfonamidoacetic acid (linear and branched isomers) The full name structure and percent composition for each of the identified isomeric components are given in Table A.

DOCUMENTATION/ DATA ATTACHED.

Table A. Isomeric Components and Percent Composition by ^{19}F NMR
Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (SIR)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- It is recommended to integrate and quantify the linear and branched isomers separately as their response factors can vary depending on optimized acquisition parameters
- Contains 4 mole eq of NaOH to prevent conversion of the acetic acid moiety to its respective methyl ester

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INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS, LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products as well as mixtures and calibration solutions, are compared to older lots or equivalent products in a similar manner This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x x_2, x_n on which it depends is

$$u\ (y(x\ \ x_2\ \ x_n)) = \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY.

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB AR 1523)

CALA Testing Accreditation No. A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A. **br-NEtFOSAA, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

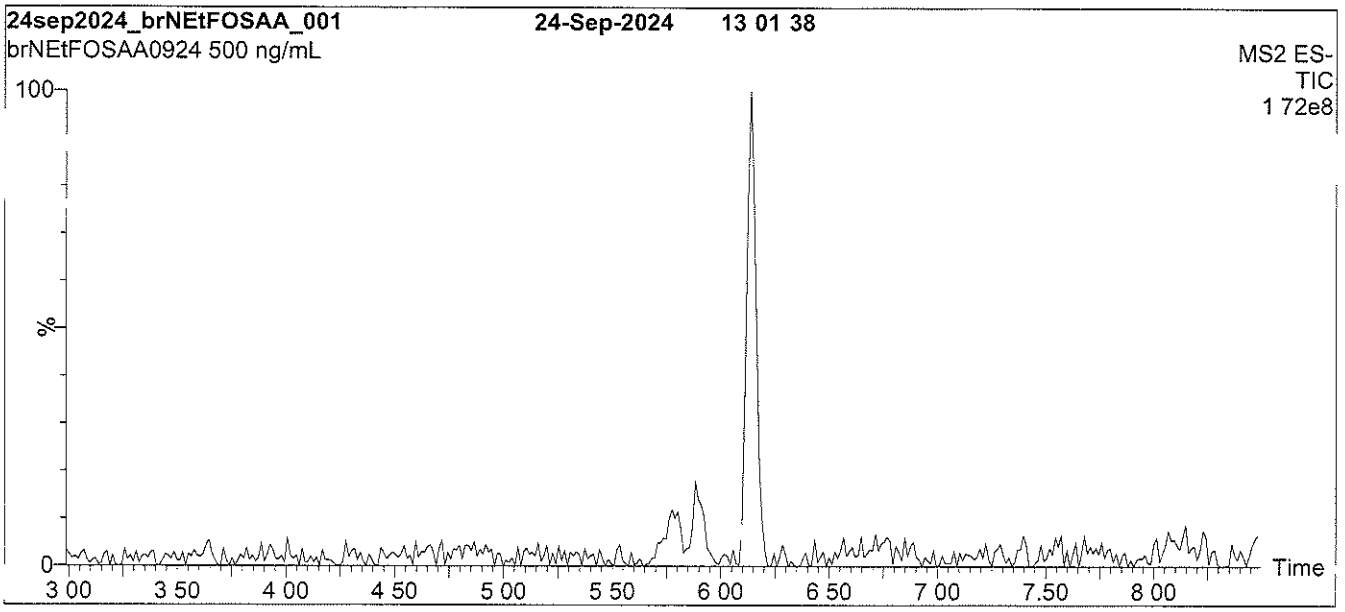
Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR
1	N-Ethylperfluoro-1-octanesulfonamidoacetic acid	$CF_3(CF_2)_7SO_2N(C_2H_5)CH_2CO_2H$	77 5
2	N-Ethylperfluoro-3-methyl-1-heptanesulfonamidoacetic acid	$CF_3(CF_2)_3CF(CF_3)(CF_2)_2SO_2N(C_2H_5)CH_2CO_2H$	2 3
3	N-Ethylperfluoro-4-methyl-1-heptanesulfonamidoacetic acid	$CF_3(CF_2)_2CF(CF_3)(CF_2)_3SO_2N(C_2H_5)CH_2CO_2H$	2 2
4	N-Ethylperfluoro-5-methyl-1-heptanesulfonamidoacetic acid	$CF_3CF_2CF(CF_3)(CF_2)_4SO_2N(C_2H_5)CH_2CO_2H$	5 4
5	N-Ethylperfluoro-6-methyl-1-heptanesulfonamidoacetic acid	$CF_3CF(CF_3)(CF_2)_5SO_2N(C_2H_5)CH_2CO_2H$	10 4
6	N-Ethylperfluoro-5 5-dimethyl-1-hexanesulfonamidoacetic acid	$CF_3C(CF_3)_2(CF_2)_4SO_2N(C_2H_5)CH_2CO_2H$	0 3
7	N-Ethylperfluoro-4 5-dimethyl-1-hexanesulfonamidoacetic acid	$CF_3CFCF(CF_3)(CF_2)_3SO_2N(C_2H_5)CH_2CO_2H$	0 3
8	N-Ethylperfluoro-3 5-dimethyl-1-hexanesulfonamidoacetic acid	$CF_3CFCF_2CF(CF_3)(CF_2)_2SO_2N(C_2H_5)CH_2CO_2H$	0 3
9	Other Unidentified Isomers		1 3

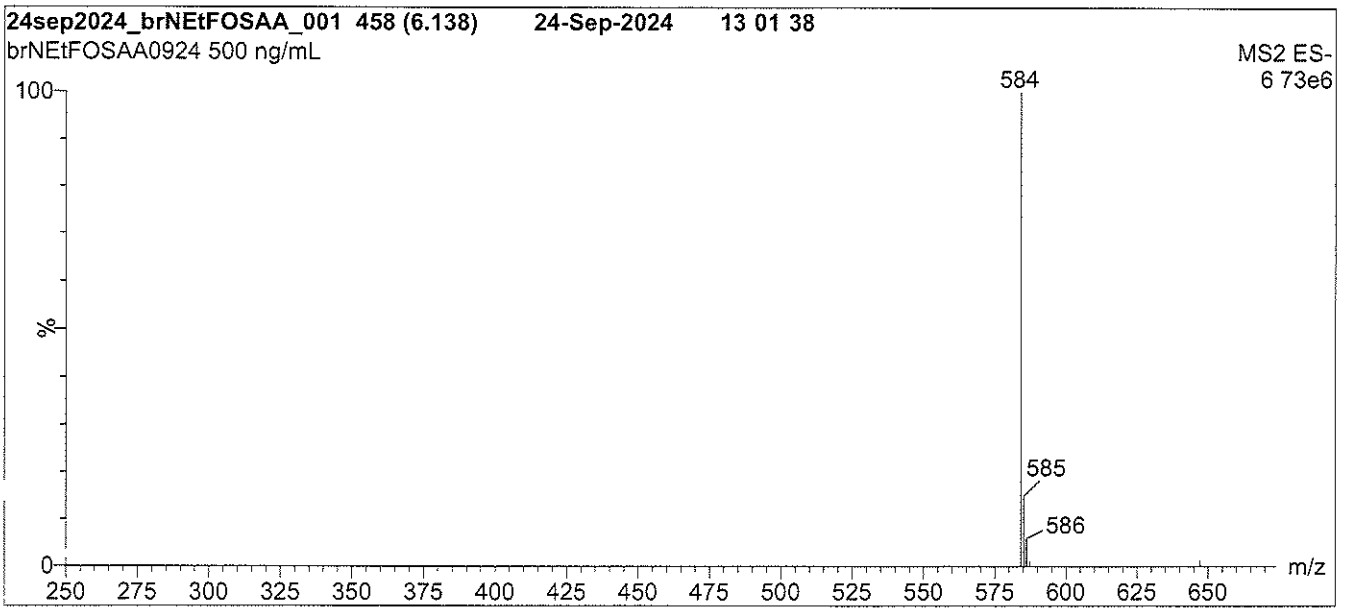
* Percent of total N-ethylperfluorooctanesulfonamidoacetic acid isomers only

Certified By _____ **Date** 10/09/2024 (mm/dd/yyyy)

B G. Chittim General Manager

Figure 1. **br-NEtFOSAA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

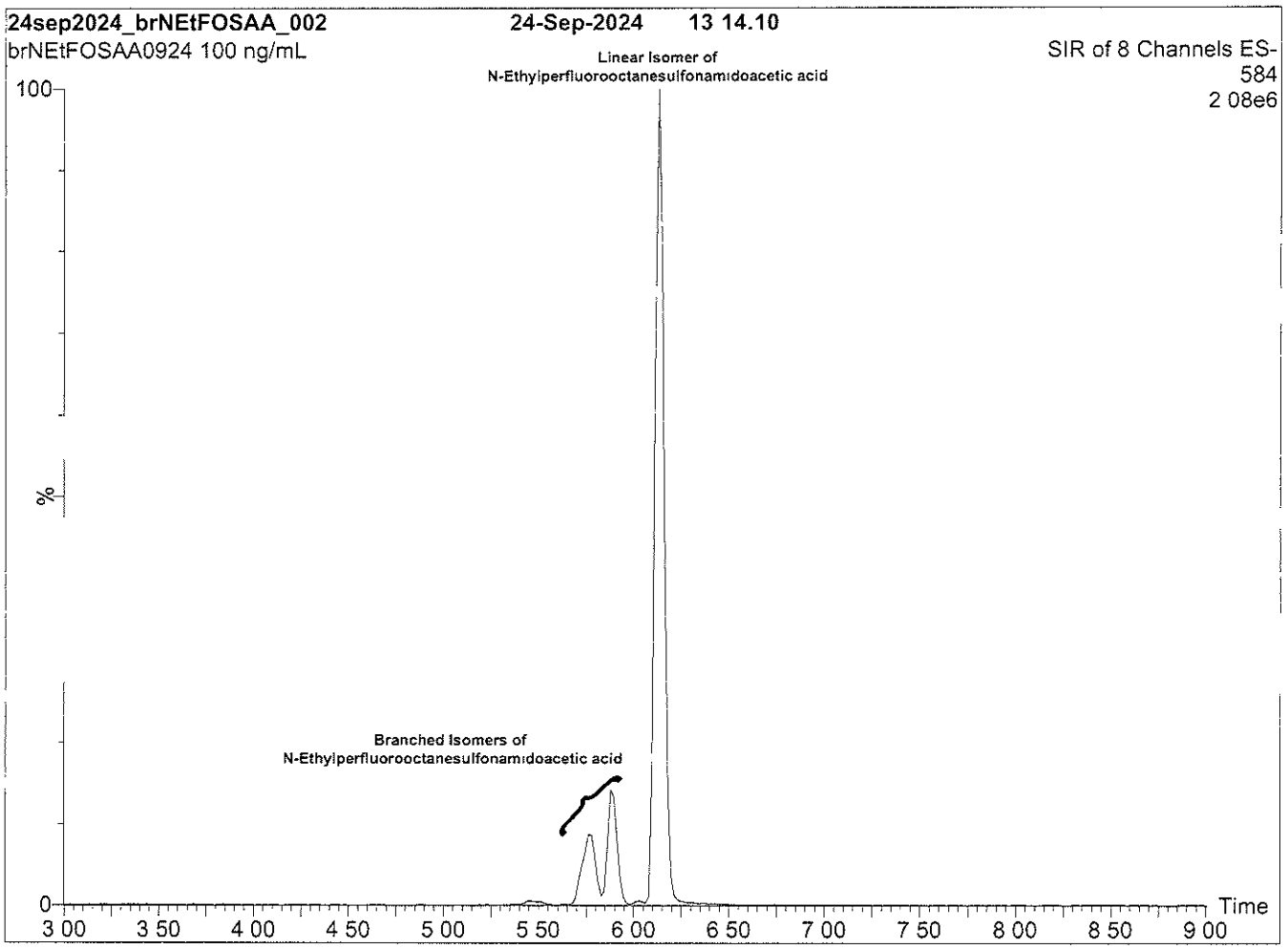
Column	Acquity UPLC BEH Shield RP$_8$ 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80:20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **br-NEtFOSAA, LC/MS Data (SIR)**



Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

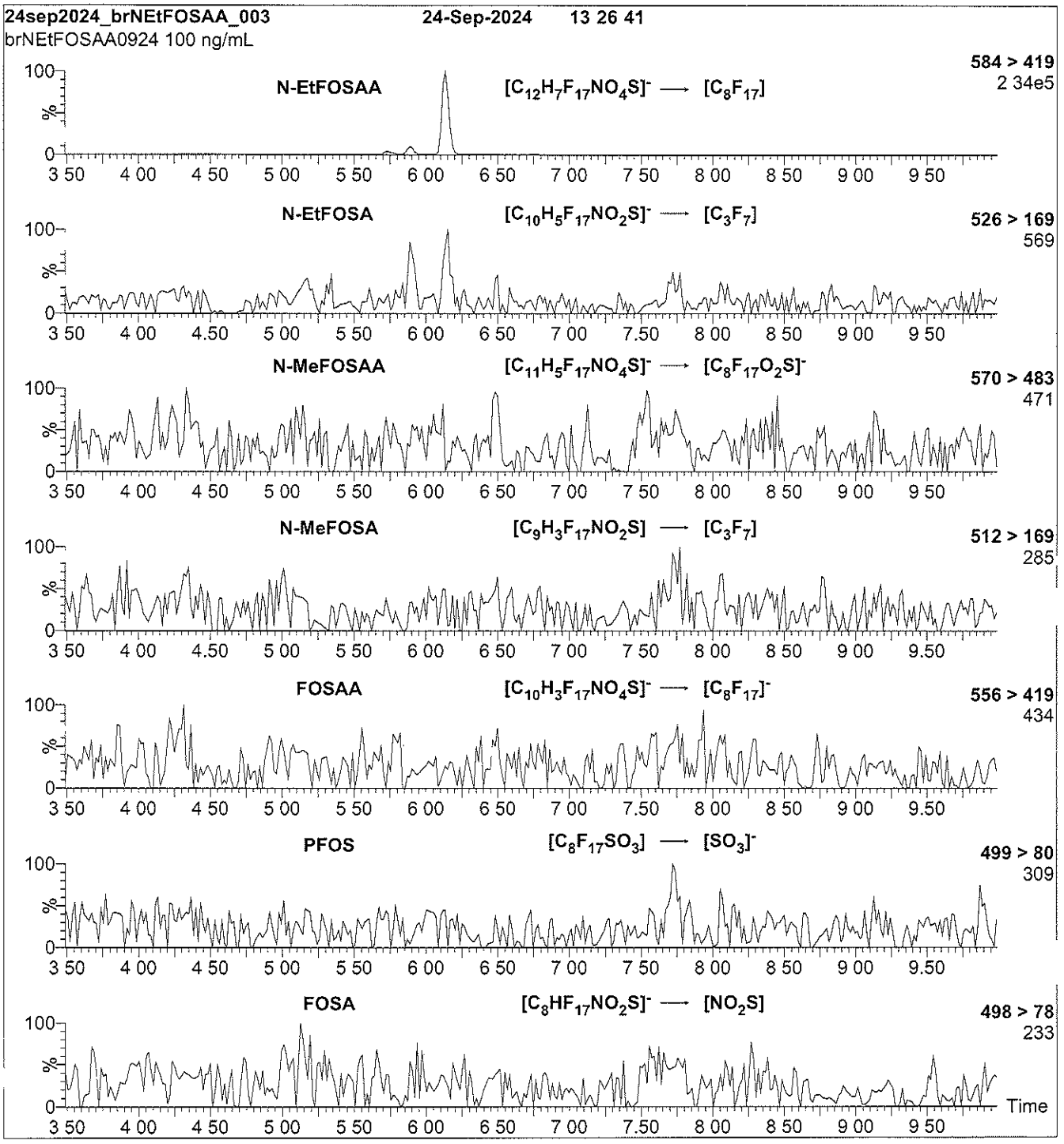
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80.20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: SIR

Source. Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = Variable (2-64)
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **br-NEtFOSAA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3.

Injection	On-column (br-NEtFOSAA)
Mobile phase	Same as Figures 1 & 2
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.31e-3
Collision Energy (eV) = 18

Reagent

PFC_ST_03665

7447684

ID: PFC_ST_03665

Exp:12/03/29 Prpd:R7RE Opn:

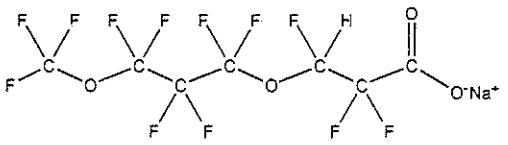
Native NaDONA Stock

410-7447684

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	NaDONA	**LOT NUMBER.**	NaDONA1124
COMPOUND.	Sodium *rac*-dodecafluoro-3H-4 8-dioxanonanoate		
STRUCTURE.		**CAS #:**	2250081-67-3



MOLECULAR FORMULA.	$C_7HF_{12}O_4Na$	**MOLECULAR WEIGHT:**	400 05
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt)	**SOLVENT(S).**	Methanol
	47 3 ± 2 4 µg/mL (NaDONA acid)		Water (<1%)
	47 1 ± 2 4 µg/mL (NaDONA anion)		
CHEMICAL PURITY.	>98%		
LAST TESTED. (mm/dd/yyyy)	12/03/2024		
EXPIRY DATE. (mm/dd/yyyy)	12/03/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- This compound is commercially known as ADONA
- NaDONA is a mixture of two stereoisomers (a pair of enantiomers) that coelute using the provided conditions
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By _____ **Date** 01/20/2025 (mm/dd/yyyy)

B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s), and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is

$$u\ (y(x\ \ x\ \ \ x_n)) = \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the ndividual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using cal'brated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international nterlaboratory stud'es has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stab lity in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

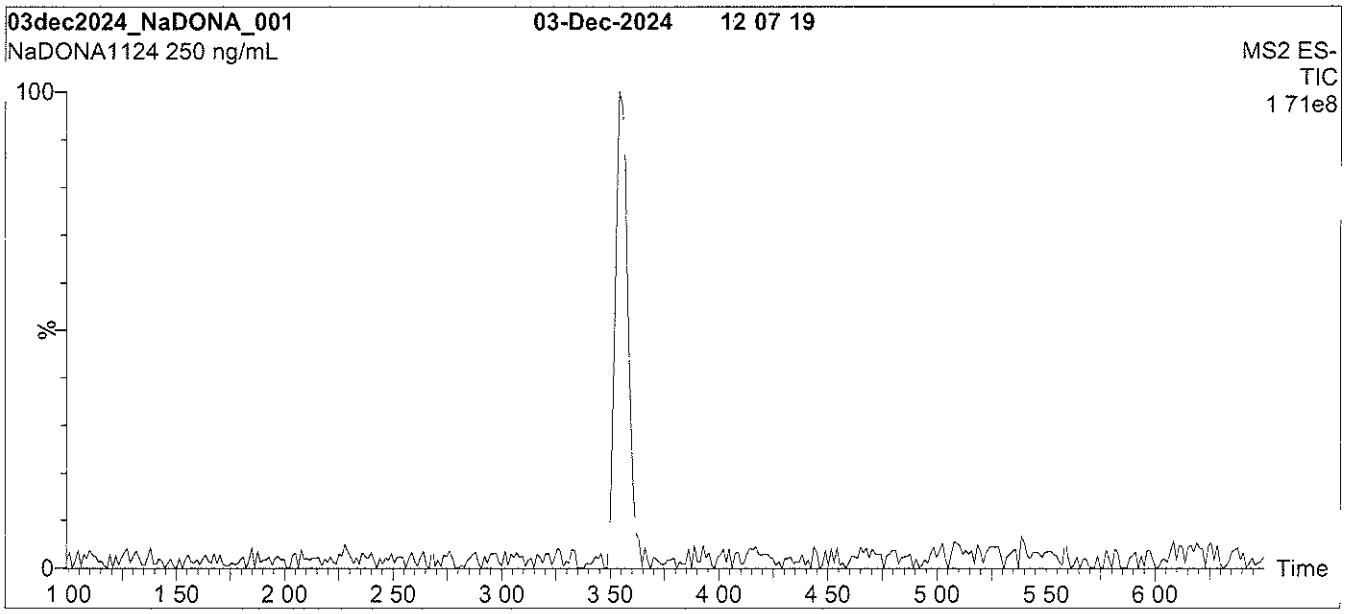
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR 1523)

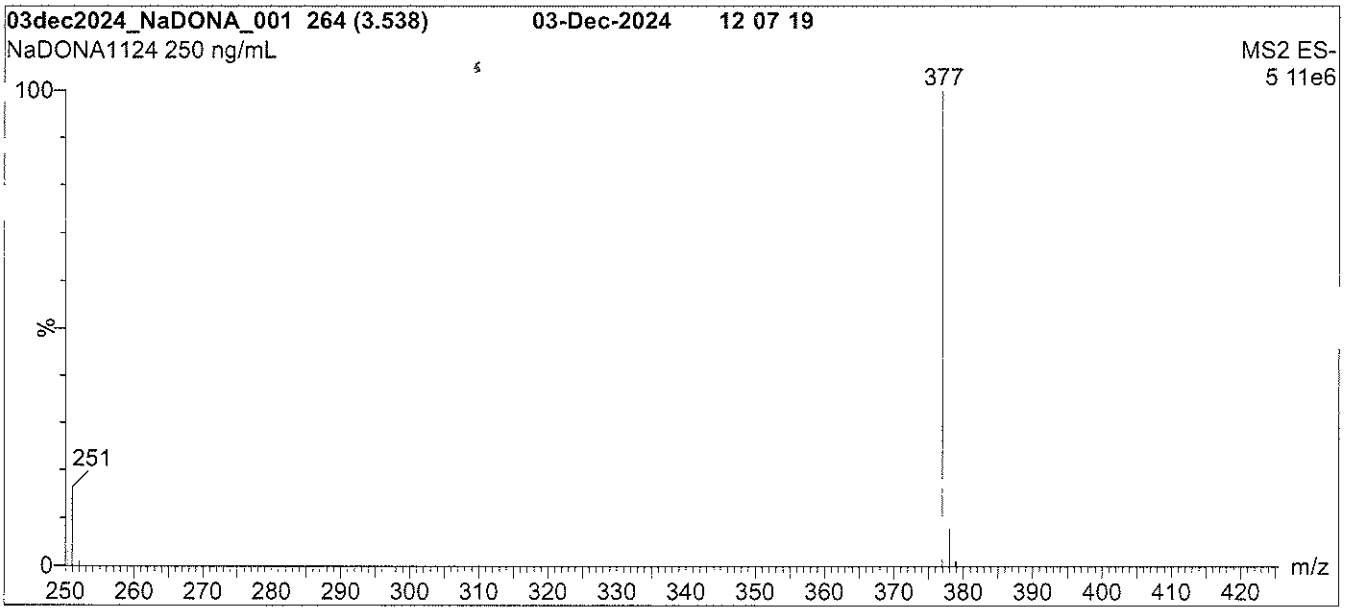
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **NaDONA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

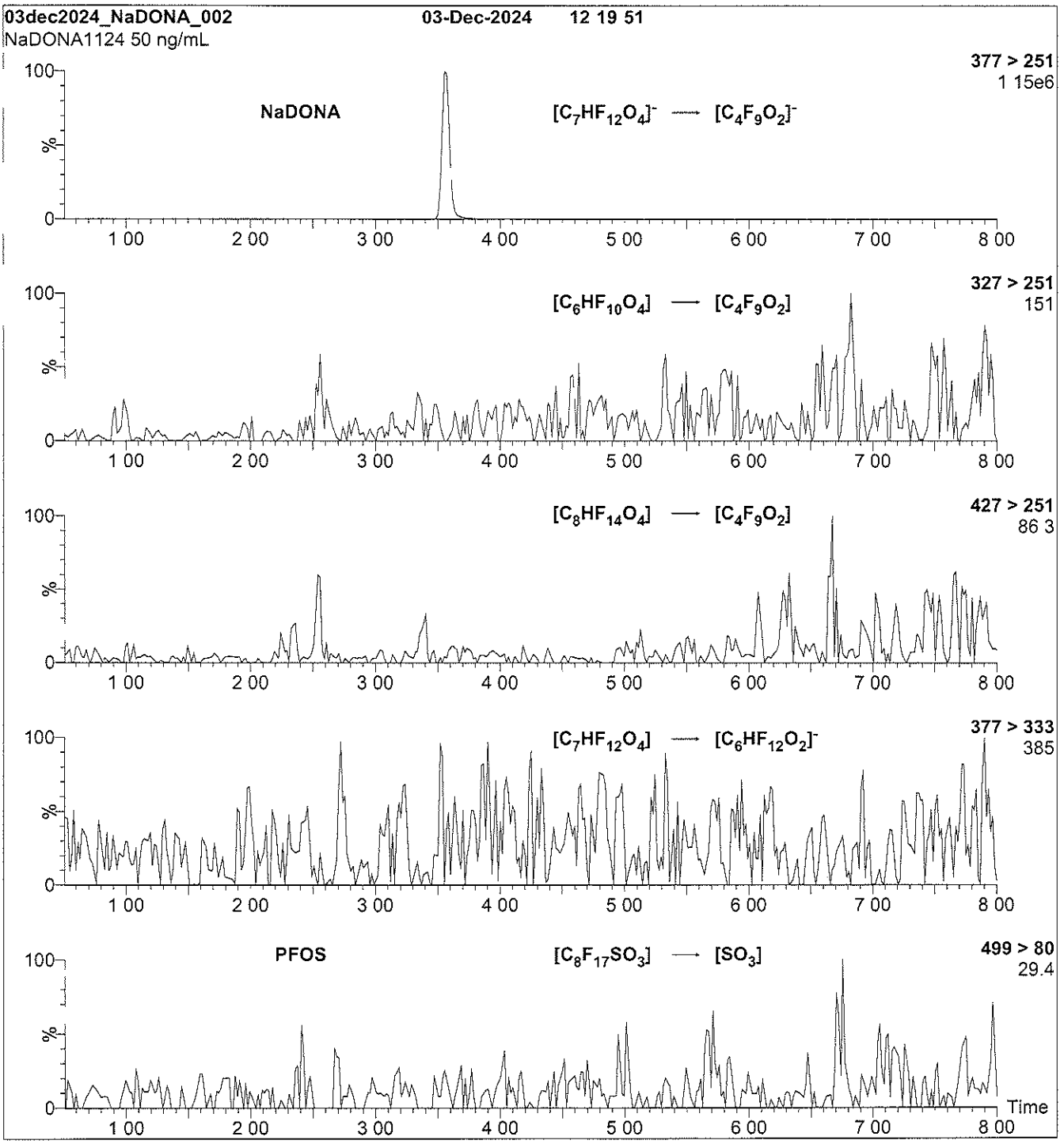
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80:20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 9 min and hold for 1 m n before returning to initial conditions in 0 5 min Time 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (250 - 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **NaDONA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (NaDONA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.34e-3
Collision Energy (eV) = 10

Reagent

PFC_ST_03678

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

br-PFOSK

7447746

ID: PFC_ST_03678

Exp:09/09/29 Prpd:R7RE Opn:

Native PFOS Mixed Isomers Stock

410-7447746

Potassium Perfluorooctanesulfonate Solution/Mixture of Linear and Branched Isomers

PRODUCT CODE.	br-PFOSK
LOT NUMBER.	brPFOSK0924
CONCENTRATION.	50 0 ± 2 5 µg/mL (total K salt)
	46.5 ± 2 3 µg/mL (total PFOS acid)
	46.4 ± 2 3 µg/mL (total PFOS anion)
SOLVENT(S).	Methanol
DATE PREPARED. (mm/dd/yyyy)	09/04/2024
LAST TESTED. (mm/dd/yyyy)	09/09/2024
EXPIRY DATE. (mm/dd/yyyy)	09/09/2029
RECOMMENDED STORAGE.	Store ampoule in a cool dark place

DESCRIPTION.

The chemical purity has been determined to be ≥98% perfluorooctanesulfonate linear and branched isomers The full name structure and percent composition for each of the isomeric components are given in Table A.

DOCUMENTATION/ DATA ATTACHED.

Table A Isomeric Components and Percent Composition by ^{9}F-NMR
Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (SIR)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- A 5-point calibration curve was generated using linear PFOS (potassium salt) and mass-labelled PFOS as an internal standard to enable quantitation of br-PFOSK using isotopic dilution
- It is recommended to integrate and quantify the linear and branched isomers separately as their response factors can vary depending on optimized acquisition parameters
- CAS#: 2795-39-3 (for linear isomer: potassium salt)

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HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is

$$u\ (y(x_1\ x_2\ \ .x_n)) = \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

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CALA esting Accreditation No. A 226

ANAB ANSI lat onal Accreditation Board ACCRED TED ISO17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concern ng this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us d rectly at info@well-labs.com

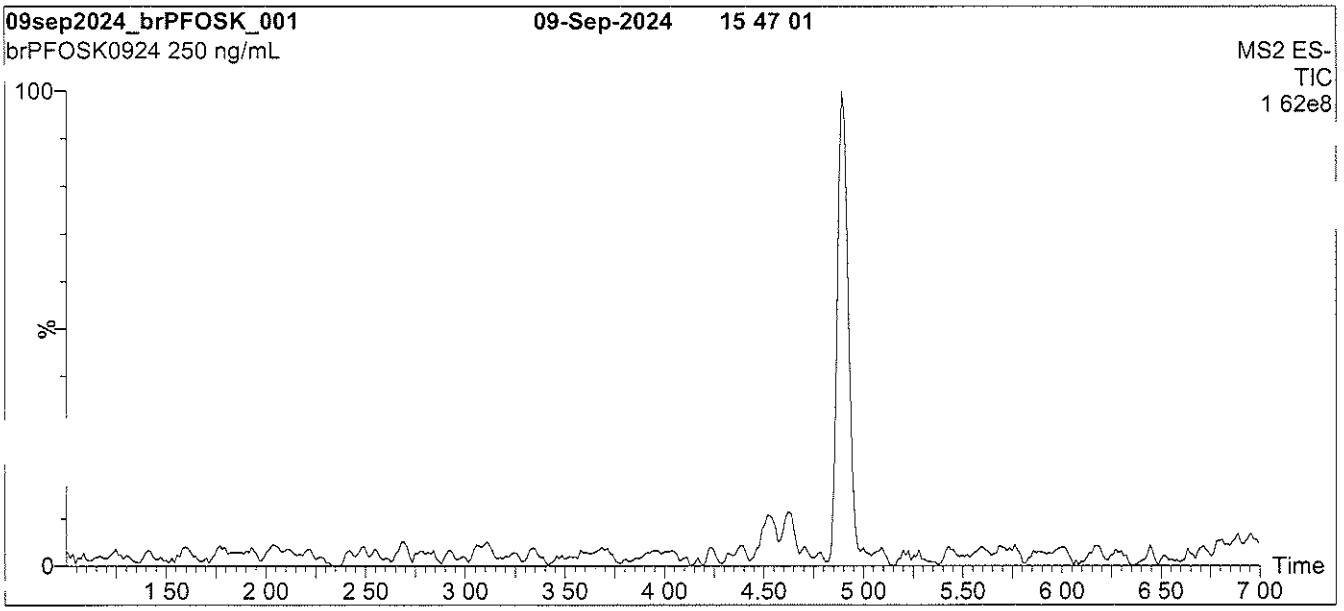
Table A. **br-PFOSK, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

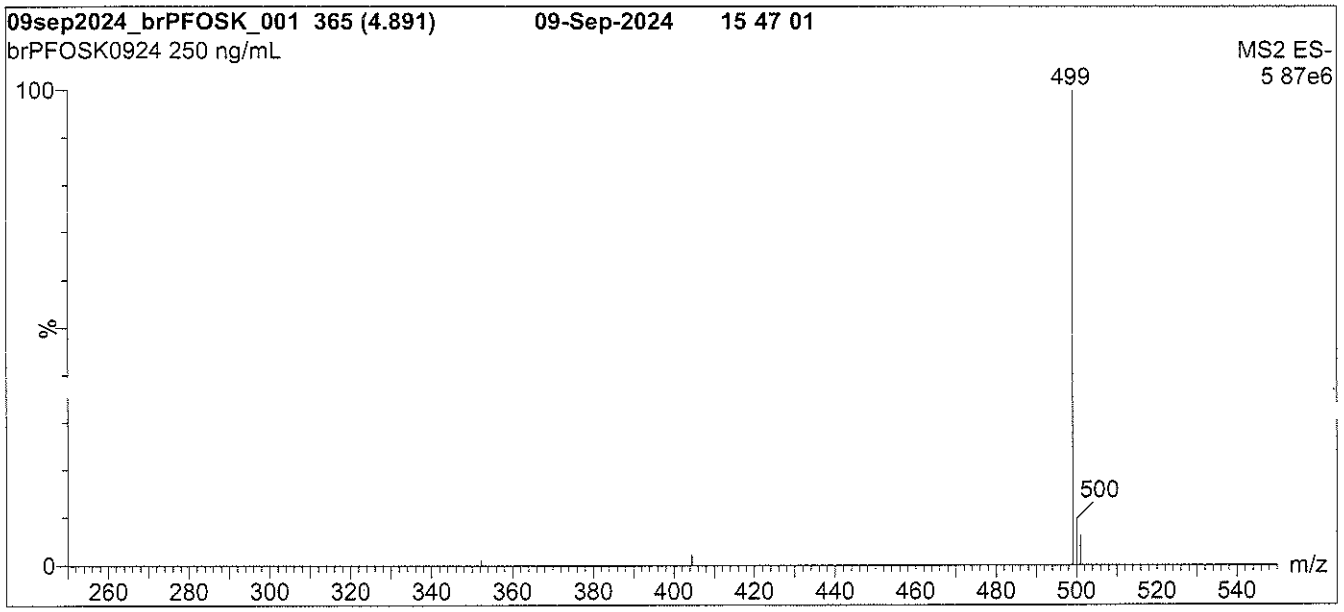
Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR
1	Potassium perfluoro-1-octanesulfonate	$CF_3(CF_2)_7SO_3^-K^+$	78 8
2	Potassium perfluoro-1-methyl-1-heptanesulfonate**	$CF_3(CF_2)_5CF(CF_3)SO_3^-K^+$	1 2
3	Potassium perfluoro-2-methyl-1-heptanesulfonate	$CF_3(CF_2)_4CF(CF_3)CF_2SO_3^-K^+$	0 6
4	Potassium perfluoro-3-methyl-1-heptanesulfonate	$CF_3(CF_2)_3CF(CF_3)(CF_2)_2SO_3^-K^+$	1 9
5	Potassium perfluoro-4-methyl-1-heptanesulfonate	$CF_3(CF_2)_2CF(CF_3)(CF_2)_3SO_3^-K^+$	2.2
6	Potassium perfluoro-5-methyl-1-heptanesulfonate	$CF_3CF_2CF(CF_3)(CF_2)_4SO_3^-K^+$	4 5
7	Potassium perfluoro-6-methyl-1-heptanesulfonate	$CF_3CF(CF_3)(CF_2)_5SO_3^-K^+$	10 0
8	Potassium perfluoro-5 5-dimethyl-1-hexanesulfonate	$CF_3C(CF_3)_2(CF_2)_4SO_3^-K^+$	0 2
9	Potassium perfluoro-4,4-dimethyl-1-hexanesulfonate	$CF_3CF_2C(CF_3)_2(CF_2)_3SO_3^-K^+$	0 03
10	Potassium perfluoro-4 5-dimethyl-1-hexanesulfonate	$CF_3CF(CF_3)CF(CF_2)_3SO_3^-K^+$	0 4
11	Potassium perfluoro-3 5-dimethyl-1-hexanesulfonate	$CF_3CF(CF_3)CF_2CF(CF_2)_2SO_3^-K^+$	0 07

* Percent of total perfluorooctanesulfonate isomers only
** Systematic Name Potassium perfluoro-2-octanesulfonate

Certified By B G. Chittim General Manager **Date** 10/08/2024 (mm/dd/yyyy)

Figure 1. **br-PFOSK, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

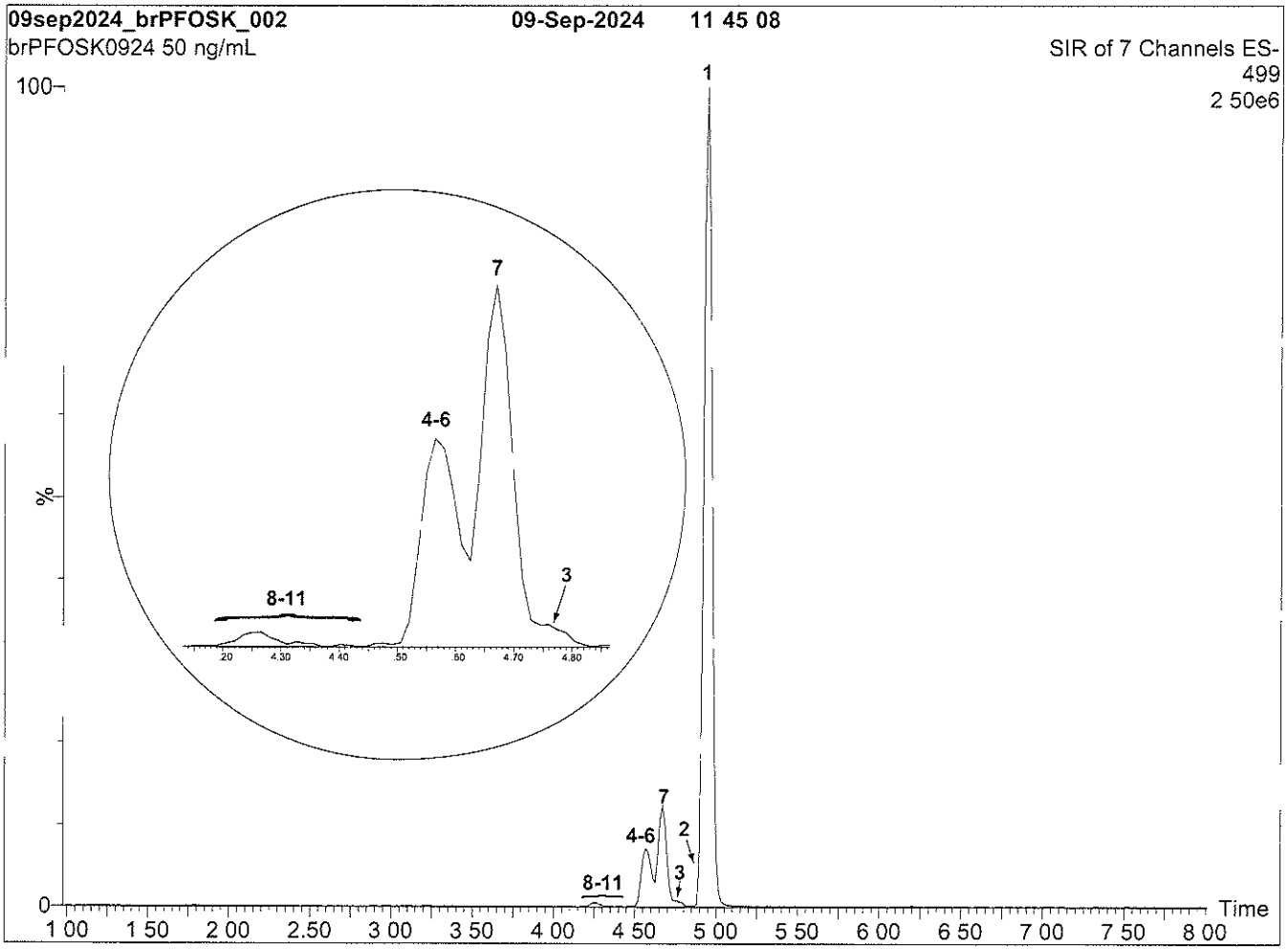
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80:20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0 5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **br-PFOSK, LC/MS Data (SIR)**



Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

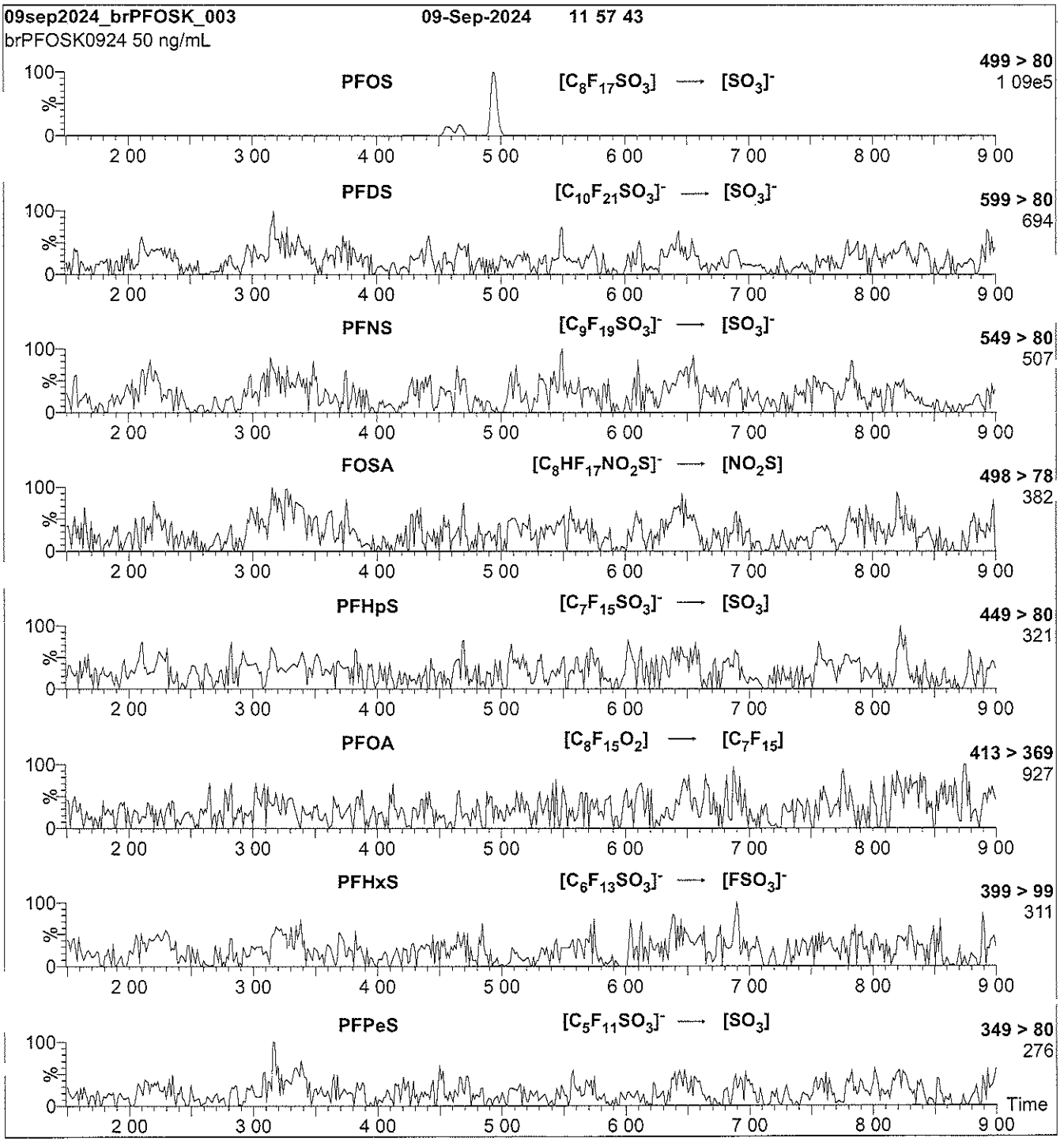
Column	Acquity UPLC BEH Shield RP $_8$ 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80 20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 m n and hold for 1 min before returning to initial conditions in 0.5 m n Time 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: SIR

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 2.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **br-PFOSK, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3.

Injection	On-column (br-PFOSK)
Mobile phase	Same as Figures 1 & 2
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.29e-3
Collision Energy (eV) = 64

Reagent

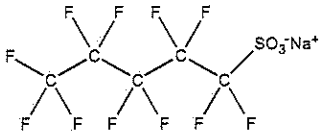
PFC_ST_03698

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PFC_ST_03409

PRODUCT CODE.	L PFPeS	**LOT NUMBER.**	LPFPeS1223
COMPOUND.	Sodium perfluoro-1 pentanesulfonate		
STRUCTURE.		**CAS #.**	630402-22-1



410-6842835

MOLECULAR FORMULA.	$C_5F\ SO_3Na$	**MOLECULAR WEIGHT:**	372 09
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt)	**SOLVENT(S).**	Methanol
	47 0 ± 2.4 µg/mL (PFPeS acid)		
	46 9 ± 2 3 µg/mL (PFPeS anion)		
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	12/18/2023		
EXPIRY DATE. (mm/dd/yyyy)	12/18/2028		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 01/31/2024 (mm/dd/yyyy)

B G. Chittim General Manager

Wellington Laboratories Inc. 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains

HANDLING.

This product should only be used by qualified personnel fam'liar with its potential hazards and trained n the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS LC/MS/MS SFC/UV/MS/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystall ne material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken nto consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS/MS and/or SFC/UV/MS/MS The relative response factors of the analyte of 'nterest 'n each solution are required to be <5% RSD New solution lots of existing products are compared to older lots 'n the same manner which further confirms the homogeneity of the crystalline material as well as the stab lity and homogeneity of the solutions in the storage conta ners In order to maintain the integrity of the assigned value(s) and associated uncertainty the d'lution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$, of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on wh ch it depends is

$$u\ (y(x\ \ x\ \ \ .x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account nclude those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability stud es of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated techn cal and purity specifications

QUALITY MANAGEMENT:

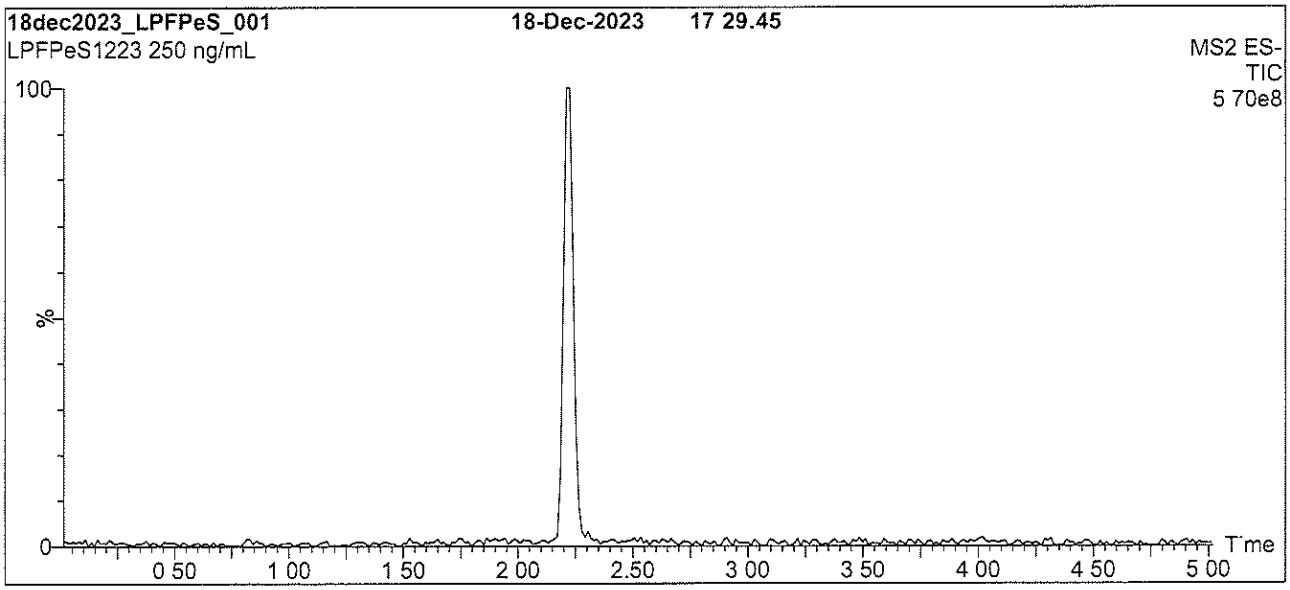
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by ANSI National Accreditation Board (ANAB AR-1523)

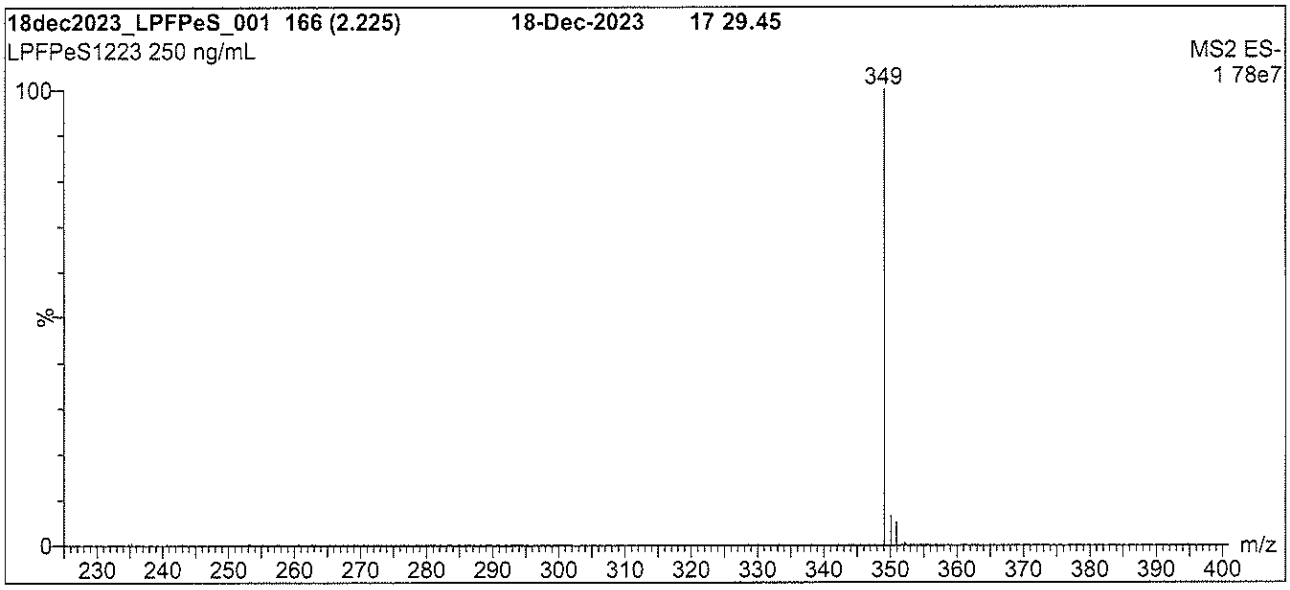
CALA Testing Accreditation No A1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **L-PFPeS LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

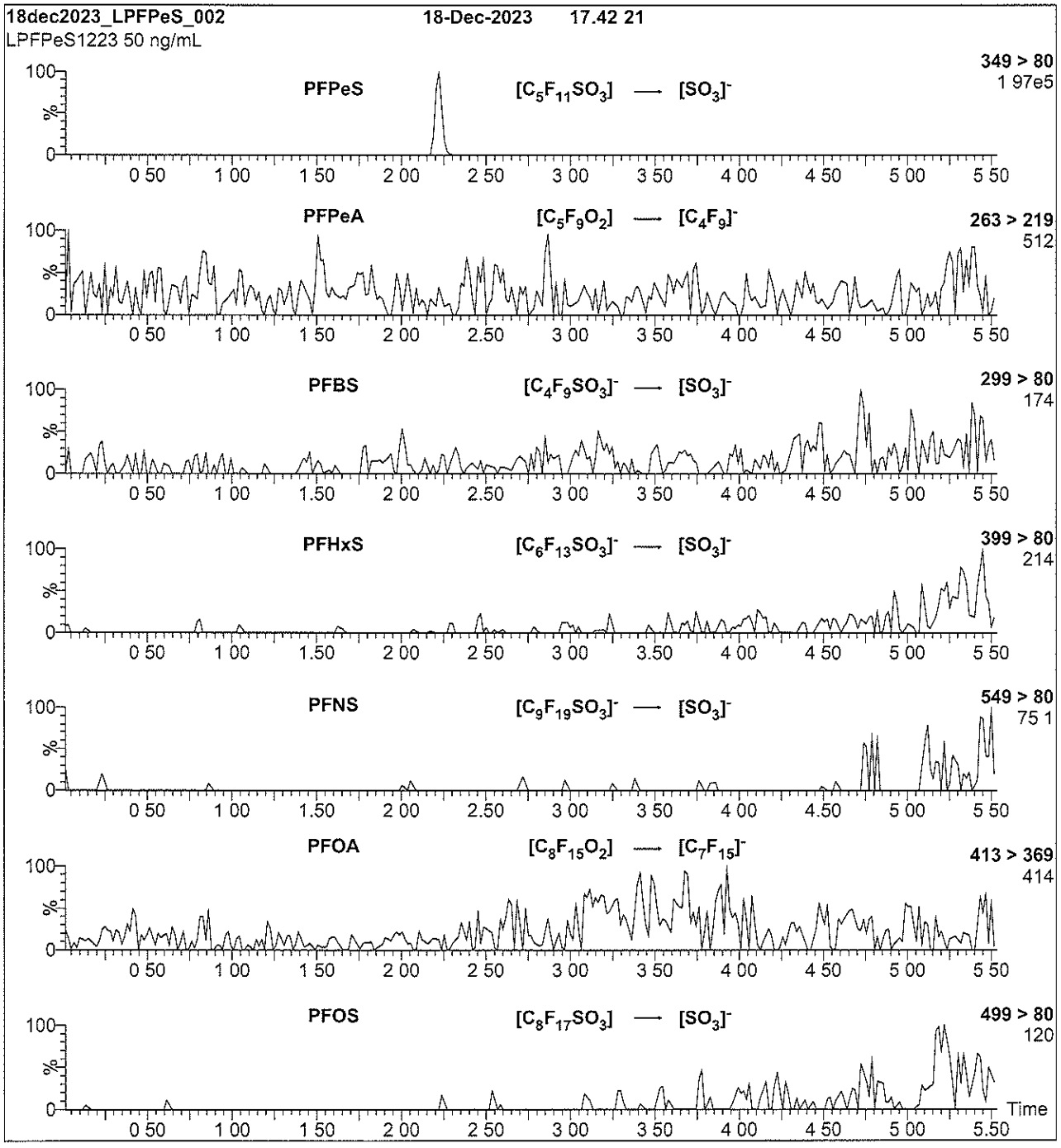
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80 20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 8 min and hold for 2 min before returning to initial conditions over 0 5 min Time 12 m n
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (225 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **L-PFPeS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (L-PFPeS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.41e-3
Collision Energy (eV) = 32

Reagent

PFC_ST_03719

7448425
ID: PFC_ST 03717
Exp:09/24/29 Prpd:R7RE Opn:
Native NMePFOSA Mixed Isomers

410-7448425

br-NMeFOSA

N-Methylperfluorooctanesulfonamide Solution/Mixture of Linear and Branched Isomers

PRODUCT CODE.	br-NMeFOSA
LOT NUMBER.	brNMeFOSA0924
CONCENTRATION.	50 0 ± 2 5 µg/mL
SOLVENT(S).	Methanol
DATE PREPARED. (mm/dd/yyyy)	09/23/2024
LAST TESTED. (mm/dd/yyyy)	09/24/2024
EXPIRY DATE. (mm/dd/yyyy)	09/24/2029
RECOMMENDED STORAGE.	Store ampoule in a cool dark place

DESCRIPTION.

The chemical purity has been determined to be ≥98% N-methylperfluorooctanesulfonamide (linear and branched isomers) The full name structure and percent composition for each of the identified isomeric components are given in Table A

DOCUMENTATION/ DATA ATTACHED.

Table A. Isomeric Components and Percent Composition by ^{9}F NMR
Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (SIR)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- It is recommended to integrate and quantify the linear and branched isomers separately as their response factors can vary depending on optimized acquisition parameters
- CAS # 31506-32-8 (for linear isomer)

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where x is expressed as a relative standard uncertainty of the individual parameter

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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER

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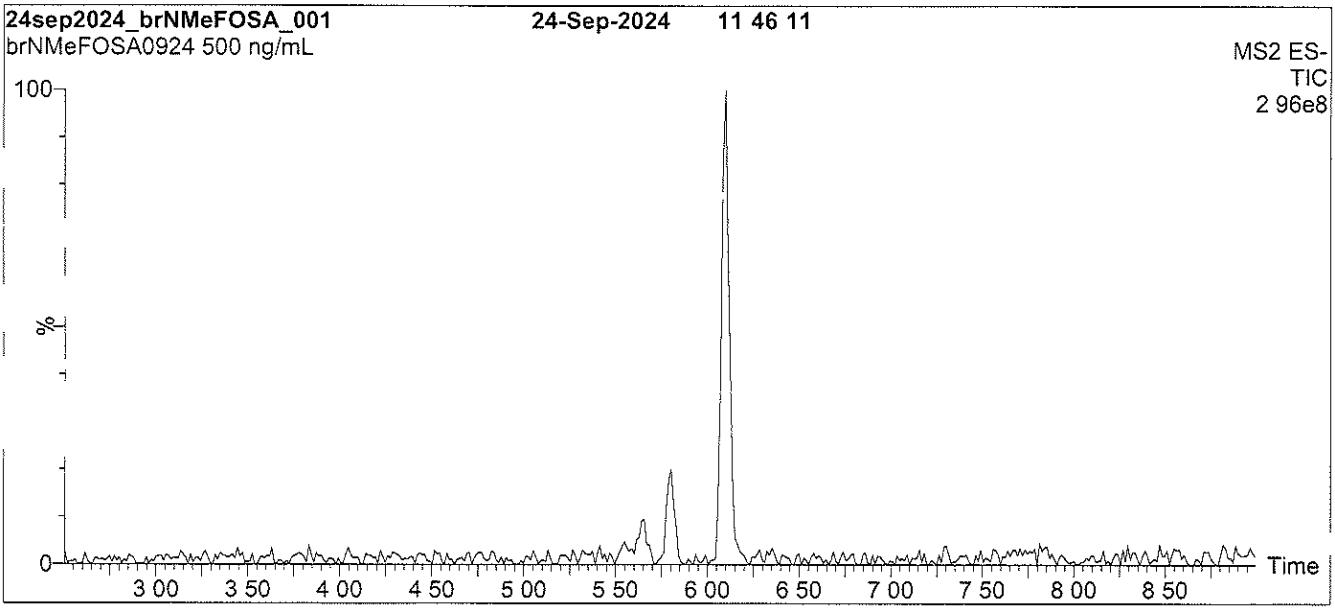
Table A. **br-NMeFOSA, Isomeric Components and Percent Composition (by ^{9}F-NMR)***

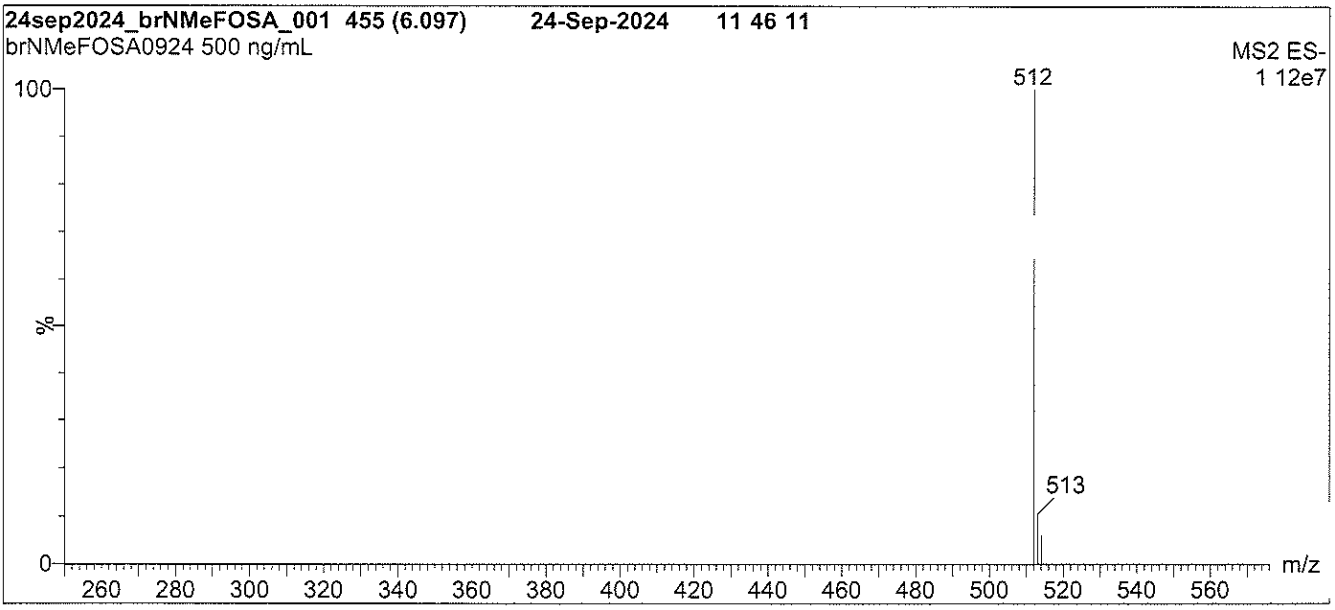
Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR
1	N-Methylperfluoro-1-octanesulfonamide	$CF_3(CF_2)_7SO_2NH$ $\vert$ CH_3	72 3
2	N-Methylperfluoro-3-methyl-1-heptanesulfonamide	$CF_3(CF_2)_3CF(CF_2)_2SO_2NH$ $\vert$ $\vert$ CF_3 CH_3	2 1
3	N-Methylperfluoro-4-methyl-1-heptanesulfonamide	$CF_3(CF_2)_2CF(CF_2)_3SO_2NH$ $\vert$ $\vert$ CF_3 CH_3	2 6
4	N Methylperfluoro-5-methyl-1-heptanesulfonamide	$CF_3CF_2CF(CF_2)_4SO_2NH$ $\vert$ $\vert$ CF_3 CH_3	6 7
5	N-Methylperfluoro-6-methyl-1-heptanesulfonamide	$CF_3CF(CF_2)_5SO_2NH$ $\vert$ $\vert$ CF_3 CH_3	16 2
6	N-Methylperfluoro-5 5-dimethyl-1-hexanesulfonamide	CF_3 $CF_3C(CF_2)_4SO_2NH$ $\vert$ $\vert$ CF_3 CH_3	0 04

* Percent of total N-methylperfluorooctanesulfonamide isomers only

Certified By _____ **Date** 09/30/2024
(mm/dd/yyyy)
B G. Chittim General Manager

Figure 1. **br-NMeFOSA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

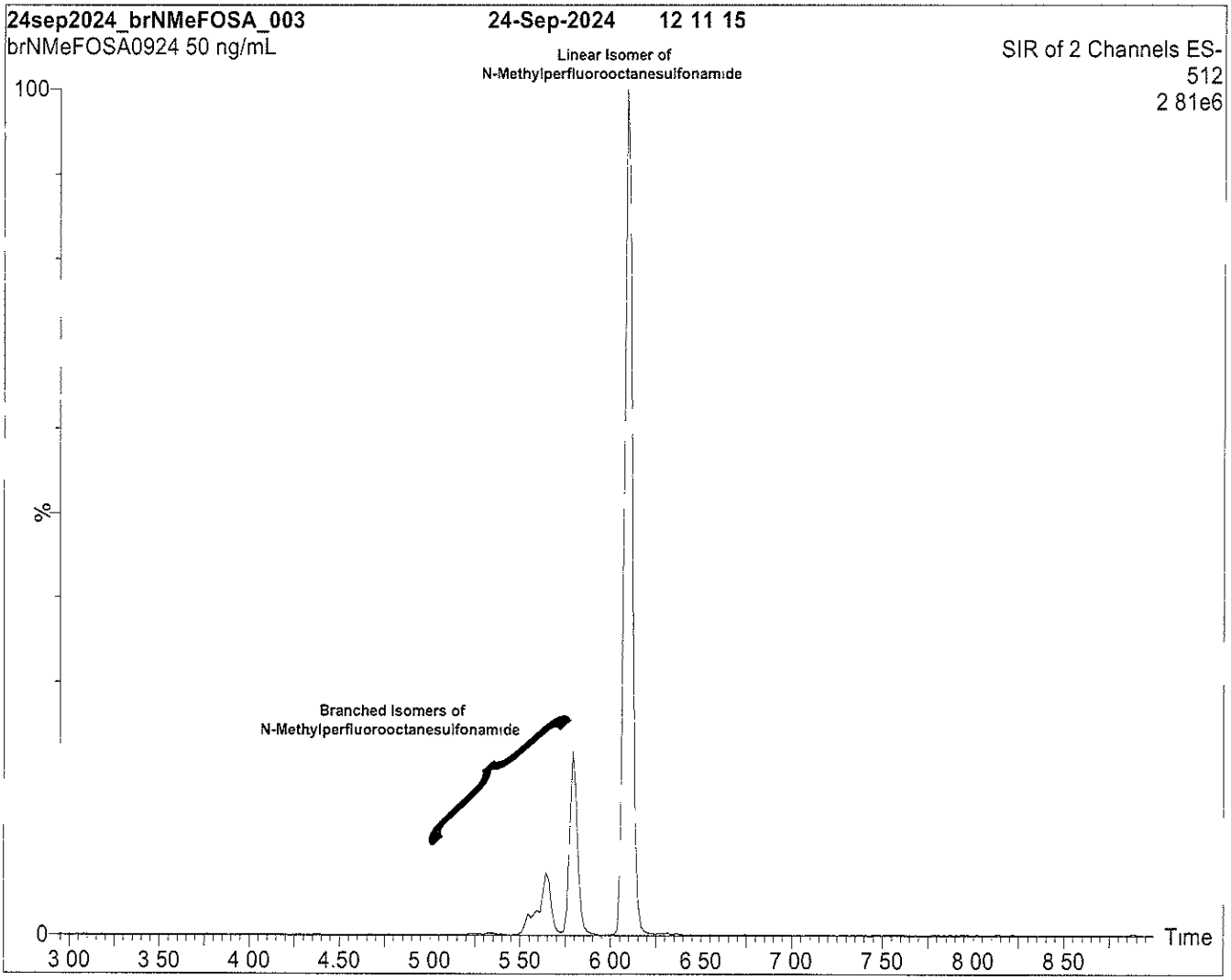
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start: 40% H_2O / 60% (80 20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions over 0.5 m n Time 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source· Electrospray (negative)
Capillary Voltage (kV) = 1 50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **br-NMeFOSA, LC/MS Data (SIR)**



Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

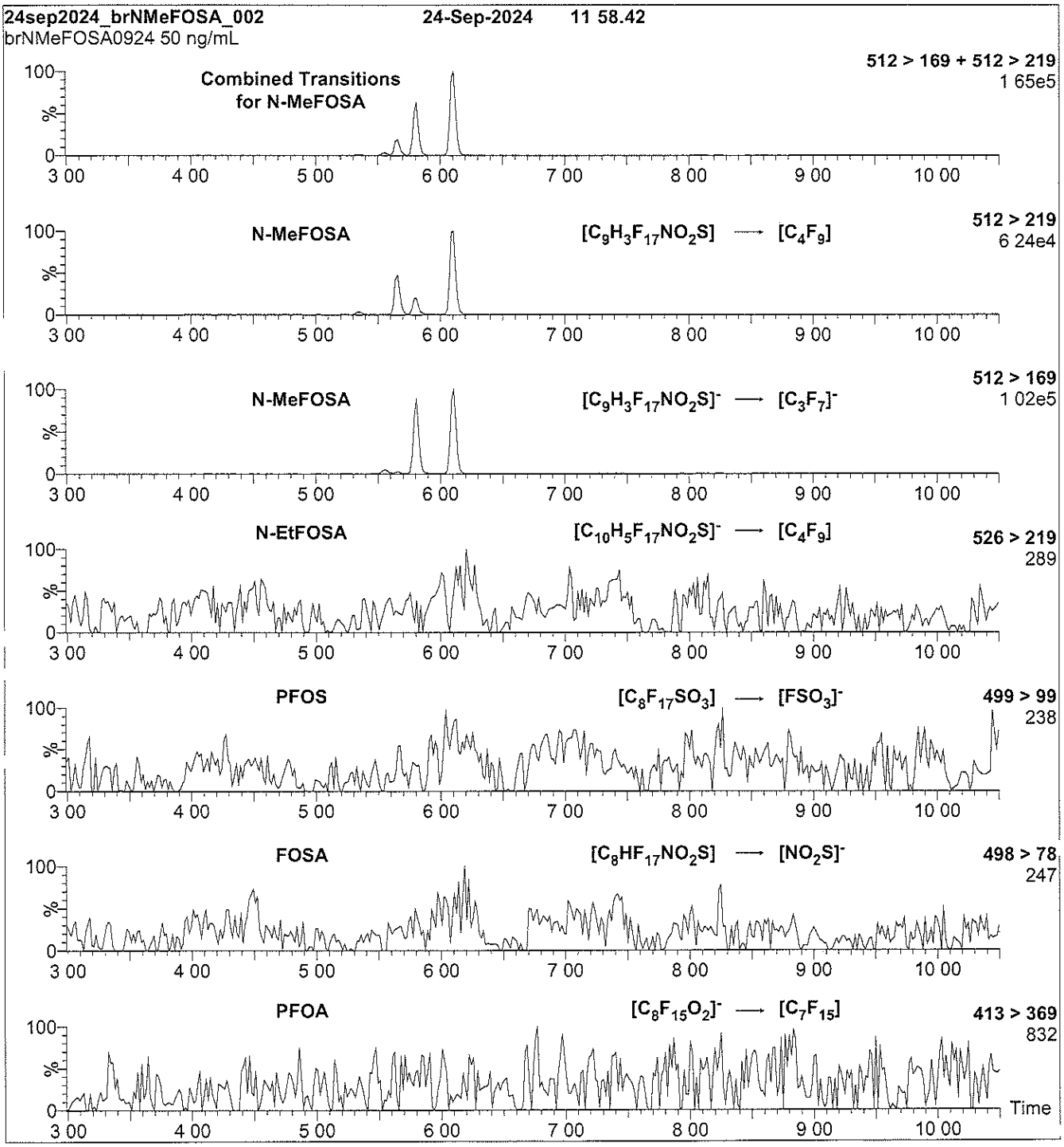
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 40% H_2O / 60% (80.20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions over 0.5 min Time· 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: SIR

Source Electrospray (negative)
Capillary Voltage (kV) = 1.50
Cone Voltage (V) = variable (2-74)
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **br-NMeFOSA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3.

Injection	On-column (br-NMeFOSA)
Mobile phase	Same as Figure 1
Flow	300 µL/m n

MS Parameters.

Collision Gas (mbar) = 4.34e-3
Collision Energy (eV) = 24

Reagent

PFC_ST_03720

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

br-NEtFOSA

N-Ethylperfluorooctanesulfonamide Solution/Mixture of Linear and Branched Isomers

7448430

ID: PFC_ST_03722
Exp:09/24/29 Prpd:R7RE Opn:
Native NEtPFOSA Mixed Isomers

410-7448430

PRODUCT CODE.	br-NEtFOSA
LOT NUMBER.	brNEtFOSA1024
CONCENTRATION.	50 0 ± 2.5 µg/mL
SOLVENT(S).	Methanol
DATE PREPARED. (mm/dd/yyyy)	09/23/2024
LAST TESTED. (mm/dd/yyyy)	09/24/2024
EXPIRY DATE. (mm/dd/yyyy)	09/24/2029
RECOMMENDED STORAGE.	Store ampoule in a cool dark place

DESCRIPTION.

The chemical purity has been determined to be ≥98% N-ethylperfluorooctanesulfonamide (linear and branched isomers) The full name structure and percent composition for each of the identified isomeric components are given in Table A

DOCUMENTATION/ DATA ATTACHED.

Table A. Isomeric Components and Percent Composition by ^{19}F-NMR
Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (SIR)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- It is recommended to integrate and quantify the linear and branched isomers separately as their response factors can vary depending on optimized acquisition parameters
- CAS #: 4151-50-2 (for linear isomer)

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519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products, as well as mixtures and calibration solutions are compared to older lots or equivalent products in a similar manner This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the ntegrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is.

$$u_c(y(x \quad x_2 \quad .x_n)) - \sqrt{\sum^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

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CALA Testing Accreditation No. A 226

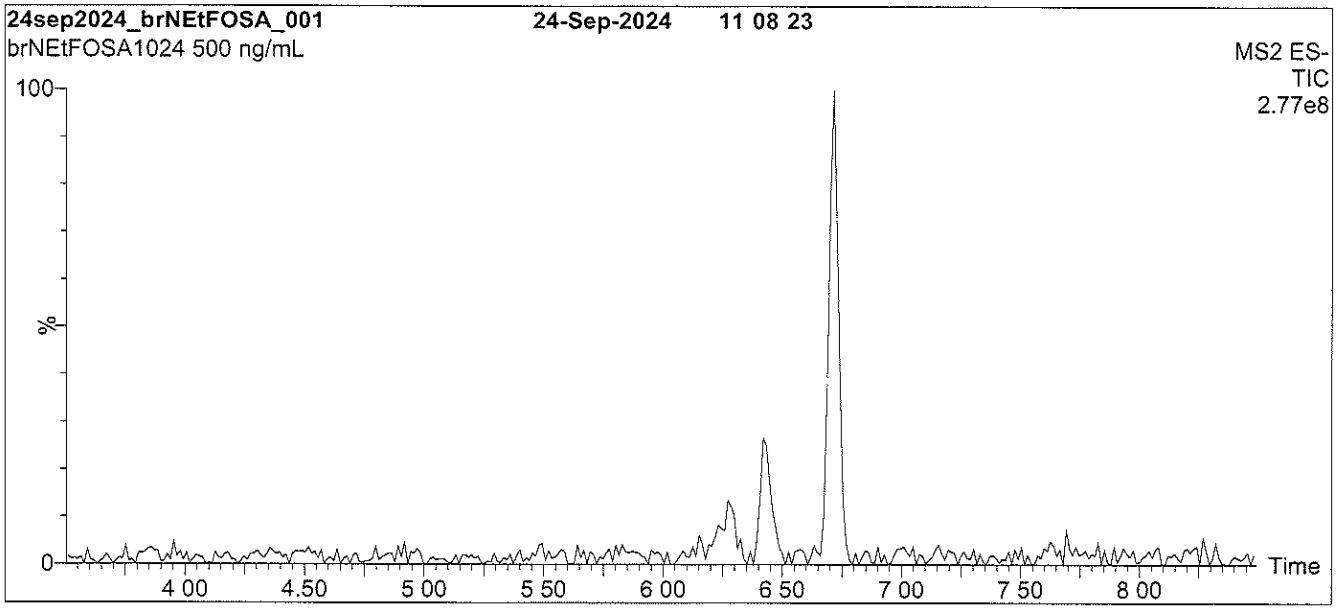
ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

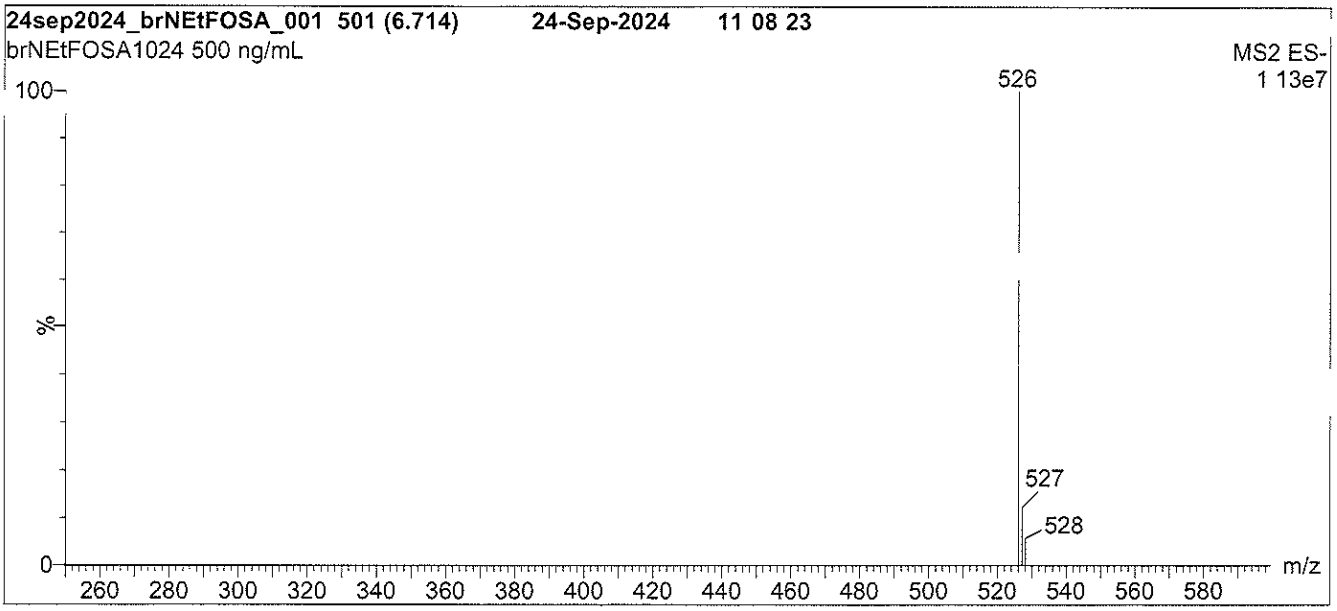
For additional information or assistance concerning this or any other products from Wellington Laboratories Inc please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A. **br-NEtFOSA, Isomeric Components and Percent Composition (by ^{9}F-NMR)***

Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR
1	N-Ethylperfluoro-1-octanesulfonamide	$CF_3(CF_2)_7SO_2NH$ $\quad\quad\quad

Figure 1. **br-NEtFOSA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

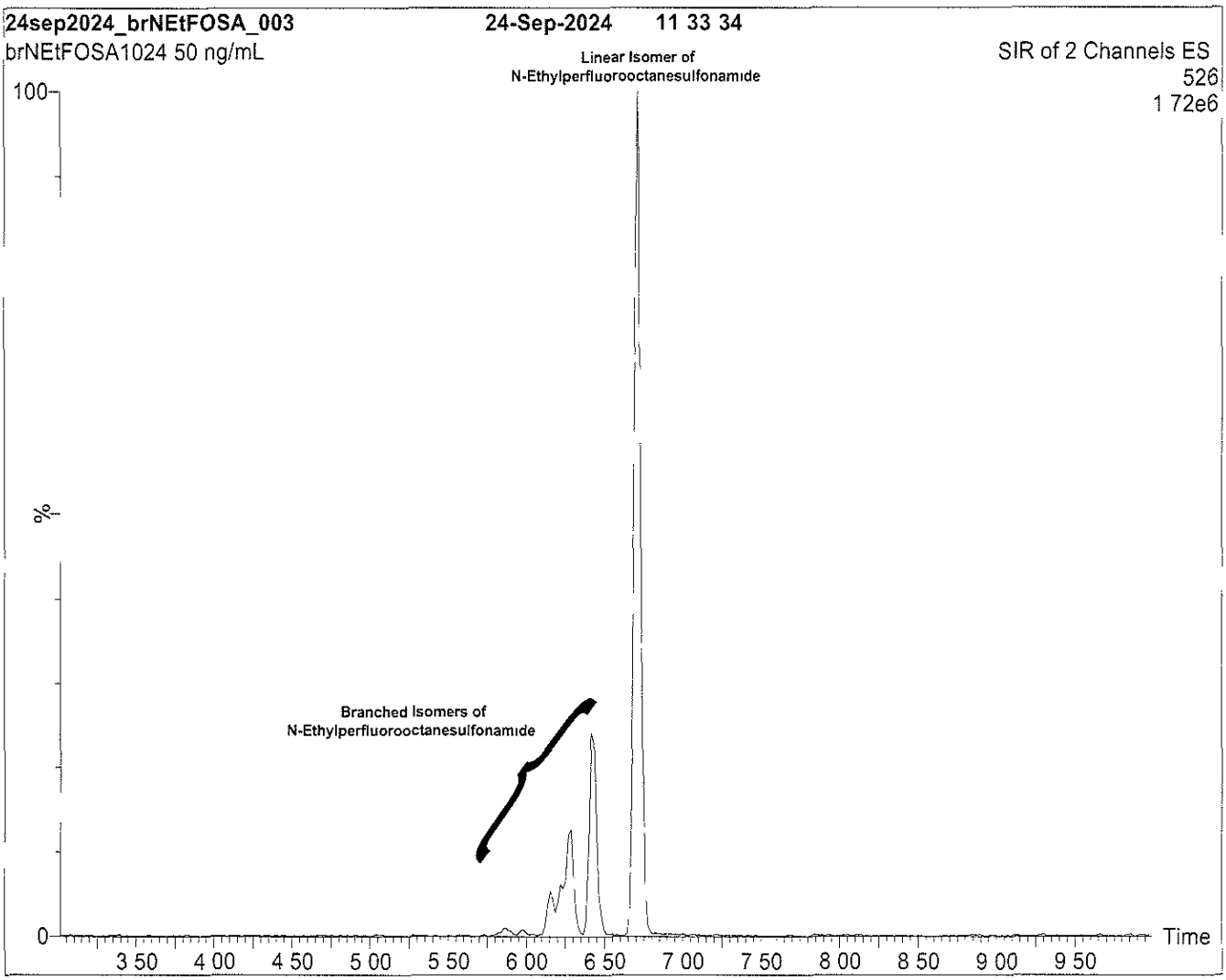
Column	Acquity UPLC BEH Shield RP$_8$ 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 40% H_2O / 60% (80:20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions over 0 5 min Time 12 min
Flow	300 µL/m n

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 1.50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **br-NEtFOSA, LC/MS Data (SIR)**



Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start. 40% H_2O / 60% (80 20 MeOH.ACN)
(both with 10 mM NH OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions over 0 5 min
Time 12 min

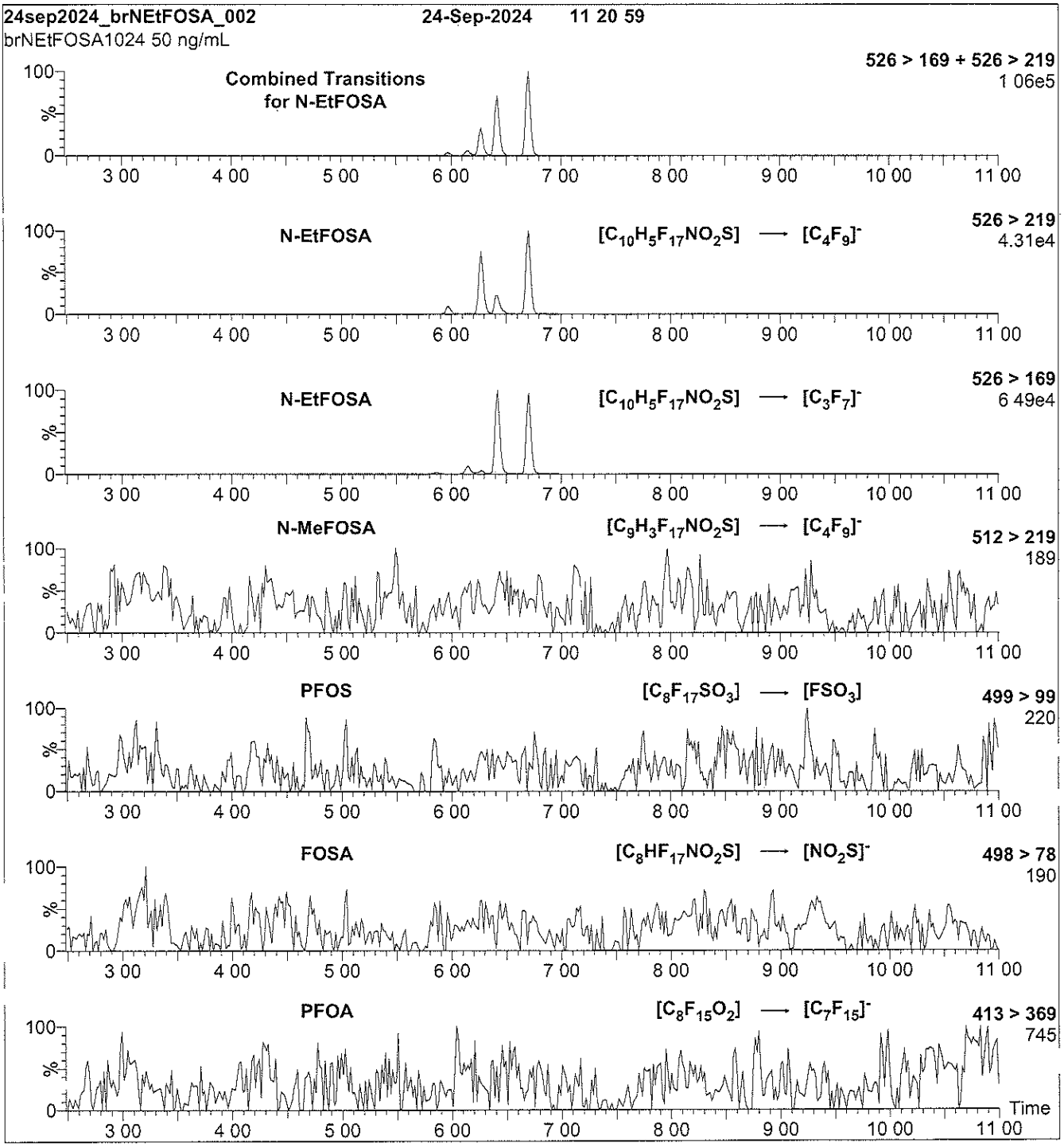
Flow: 300 µL/min

MS Parameters.

Experiment. SIR

Source Electrospray (negative)
Capillary Voltage (kV) = 1 50
Cone Voltage (V) = variable (2 74)
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **br-NEtFOSA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3.

Injection	On-column (br-NEtFOSA)
Mobile phase	Same as Figures 1 and 2
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.34e-3
Collision Energy (eV) = 24

Reagent

PFC_ST_03735

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

br-NMeFOSAA

N-Methylperfluorooctanesulfonamidoacetic Acid Solution/Mixture of Linear and Branched Isomers

PRODUCT CODE.	br NMeFOSAA
LOT NUMBER.	brNMeFOSAA0824
CONCENTRATION.	50 0 ± 2 5 µg/mL
SOLVENT(S).	Methanol/Water (<1%)
DATE PREPARED. (mm/dd/yyyy)	08/22/2024
LAST TESTED. (mm/dd/yyyy)	08/30/2024
EXPIRY DATE. (mm/dd/yyyy)	08/30/2029
RECOMMENDED STORAGE.	Refrigerate ampoule

DESCRIPTION.

The chemical purity has been determined to be ≥98% N-methylperfluorooctanesulfonamidoacetic acid (linear and branched isomers) The full name structure and percent composition for each of the identified isomeric components are given in Table A

DOCUMENTATION/ DATA ATTACHED.

Table A. Isomeric Components and Percent Composition by ^{9}F-NMR
Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (SIR)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- It is recommended to integrate and quantify the linear and branched isomers separately as their resonse factors can vary depending on optimized acquisition parameters
- Contains 4 mole eq of NaOH to prevent conversion of the acetic acid moiety to its respective methyl ester
- CAS #: 2355-31-9 (for linear isomer)

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SYNTHESIS / CHARACTERIZATION.

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UNCERTAINTY:

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The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the ndependent parameters x x_2, $.x_n$ on which it depends is

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where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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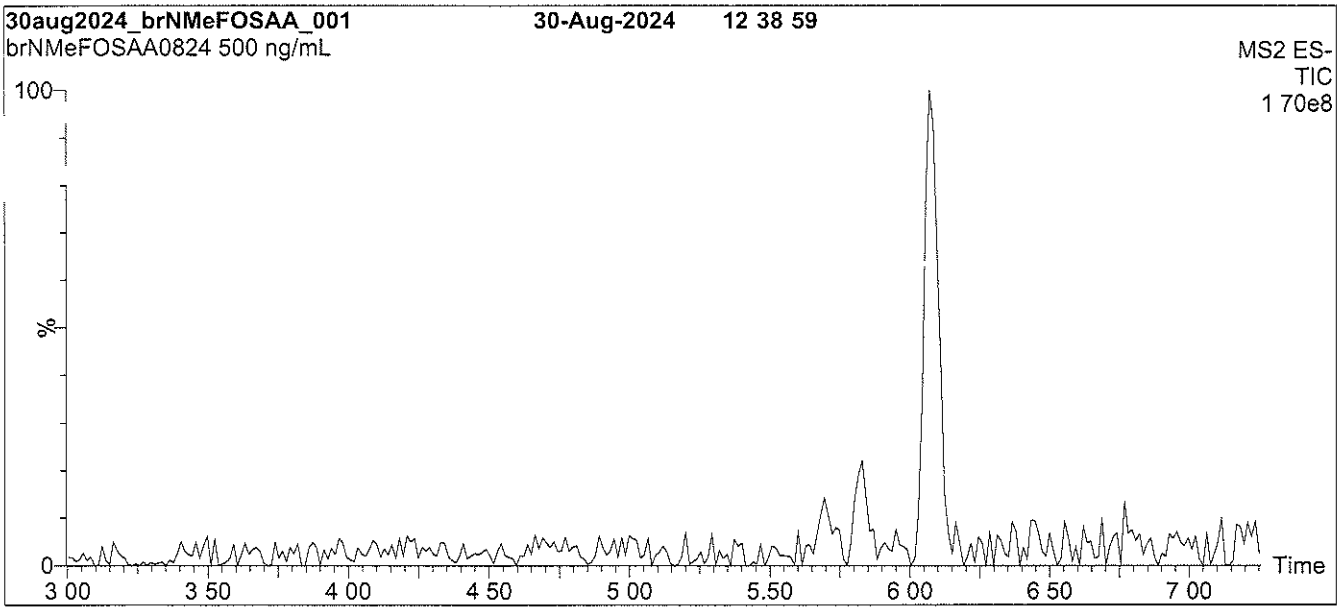
Table A. **br-NMeFOSAA, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

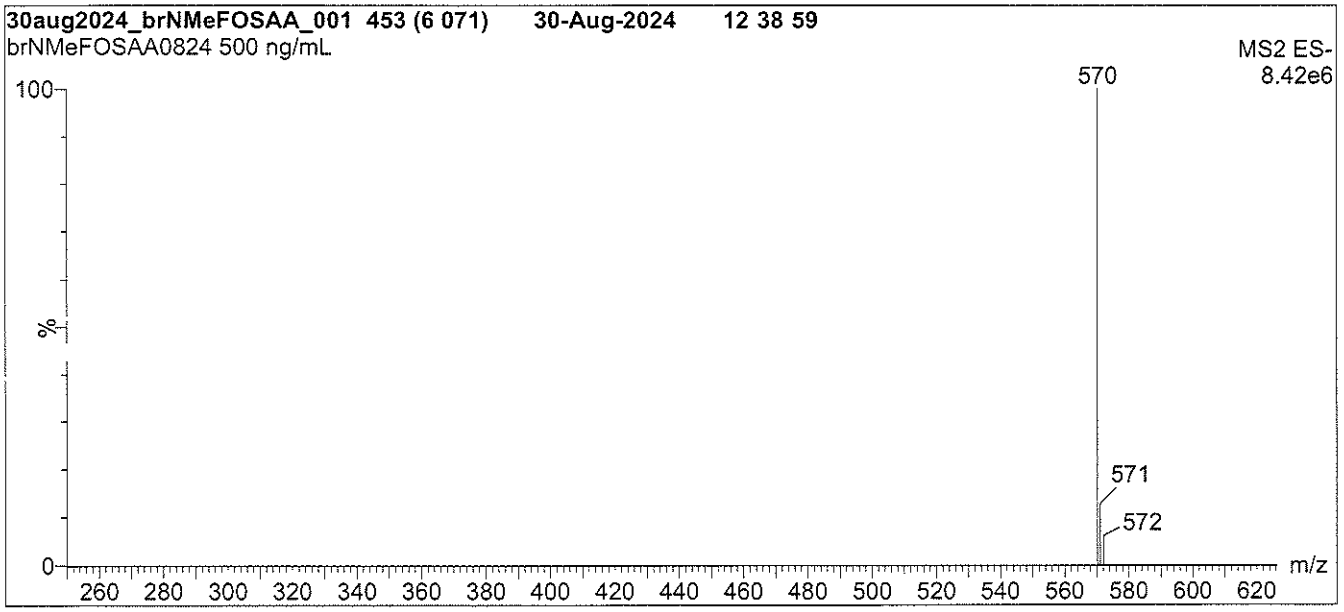
Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR	
1	N-Methylperfluoro-1-octanesulfonamidoacetic acid	$CF_3(CF_2)_7SO_2NCH_2CO_2H$ CH_3	76 0	76 0
2	N-Methylperfluoro-3-methyl-1-heptanesulfonamidoacetic acid	$CF_3(CF_2)_3CF(CF_2)_2SO_2NCH_2CO_2H$ CF_3 CH_3	0 7	24 0
3	N-Methylperfluoro-4-methyl-1-heptanesulfonamidoacetic acid	$CF_3(CF_2)_2CF(CF_2)_3SO_2NCH_2CO_2H$ CF_3 CH_3	2 0	
4	N Methylperfluoro-5-methyl-1-heptanesulfonamidoacetic acid	$CF_3CF_2CF(CF_2)_4SO_2NCH_2CO_2H$ CF_3 CH_3	6 0	
5	N-Methylperfluoro-6-methyl-1-heptanesulfonamidoacetic acid	$CF_3CF(CF_2)_5SO_2NCH_2CO_2H$ CF_3 CH_3	14 0	
6	N-Methylperfluoro-5 5-dimethyl-1-hexanesulfonamidoacetic acid	CF_3 $CF_3C(CF_2)_4SO_2NCH_2CO_2H$ CF_3 CH_3	0 2	
7	Other Unidentified Isomers		1 1	

* Percent of total N-methylperfluorooctanesulfonamidoacetic acid isomers only

Certified By _____ **Date** 09/09/2024
(mm/dd/yyyy)
B G. Chittim General Manager

Figure 1. **br-NMeFOSAA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start. 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions over 0.5 min
Time 12 min

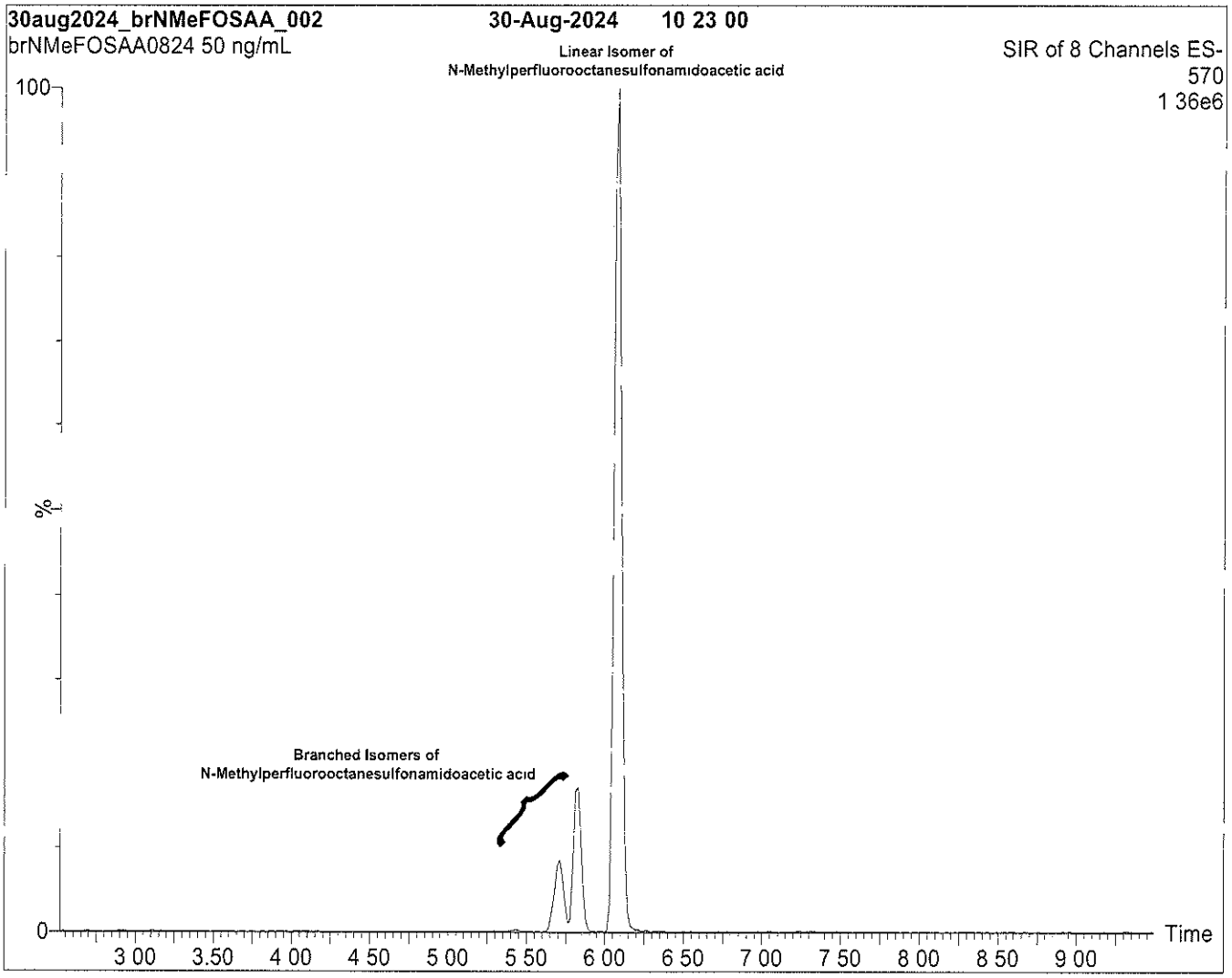
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **br-NMeFOSAA, LC/MS Data (SIR)**



Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

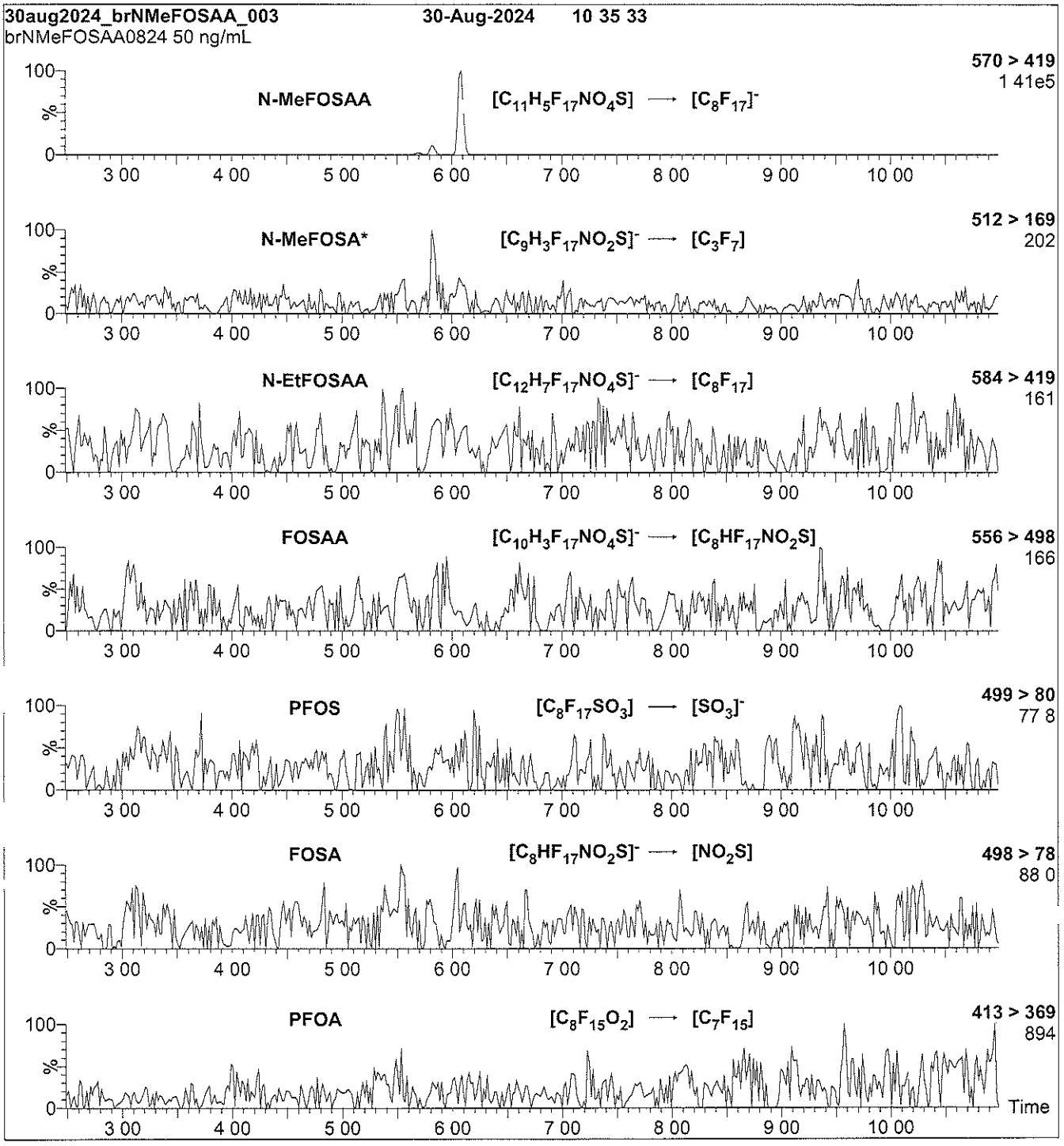
Column	Acquity UPLC BEH Shield RP $_{s}$ 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80 20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions over 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: SIR

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = variable (2-64)
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **br-NMeFOSAA, LC/MS/MS Data (Selected MRM Transitions)**



*__Note__. N-MeFOSA is formed by in-source fragmentation

Conditions for Figure 3.

Injection	On-column (br-NMeFOSAA)
Mobile phase	Same as Figures 1 & 2
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.59e-3
Collision Energy (eV) = 18

Reagent

PFC_ST_03739

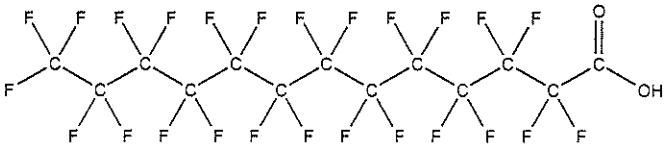
7448478
ID: PFC_ST_03739
Exp:07/17/29 Prpd:R7RE Opn.
Native PFTrDA Stock
= 410-7448478

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. PFTrDA
COMPOUND. Perfluoro-n-tridecanoic acid
LOT NUMBER. PFTrDA0724

STRUCTURE.
CAS #: 72629-94-8



MOLECULAR FORMULA. $C_{13}HF_{25}O_2$
CONCENTRATION. 50 0 ± 2 5 µg/mL
MOLECULAR WEIGHT: 664 11
SOLVENT(S). Methanol
Water (<1%)

CHEMICAL PURITY. >98%
LAST TESTED. (mm/dd/yyyy) 07/17/2024
EXPIRY DATE. (mm/dd/yyyy) 07/17/2029
RECOMMENDED STORAGE. Store ampoule in a cool dark place

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~0 4% of perfluoro-n-dodecanoic acid (PFDoA)

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Certified By _____ **Date** 09/19/2024
(mm/dd/yyyy)
B G. Chittim General Manager

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where x is expressed as a relative standard uncertainty of the individual parameter

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TRACEABILITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

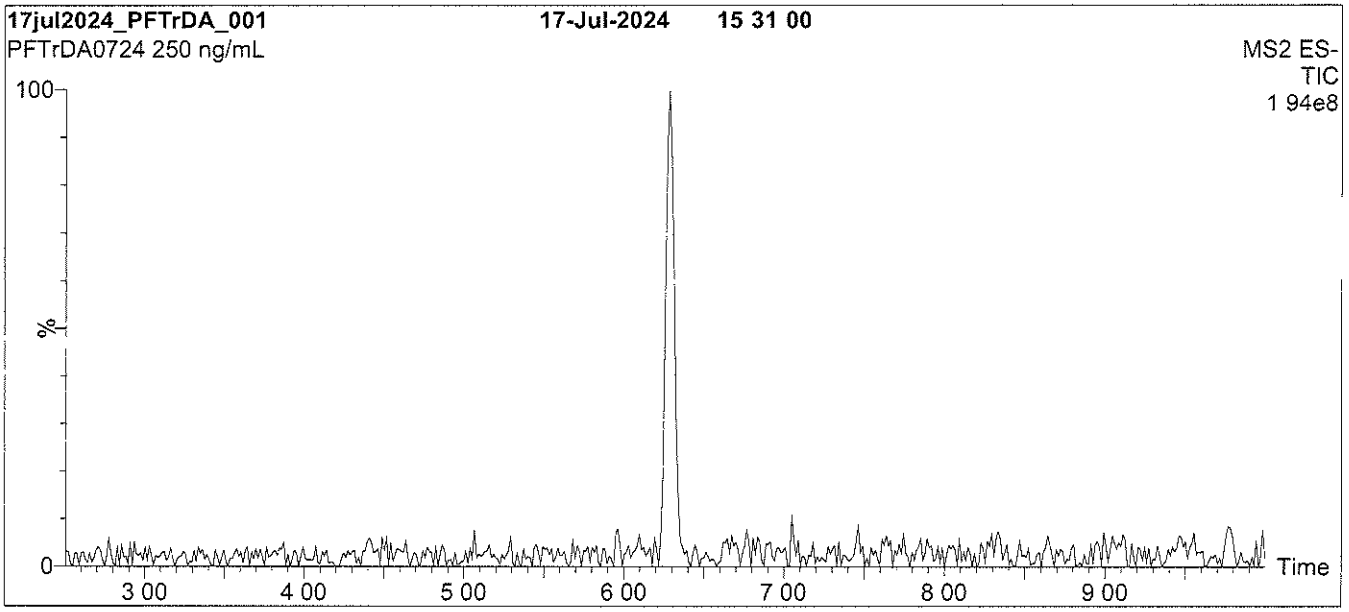
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR 1523)

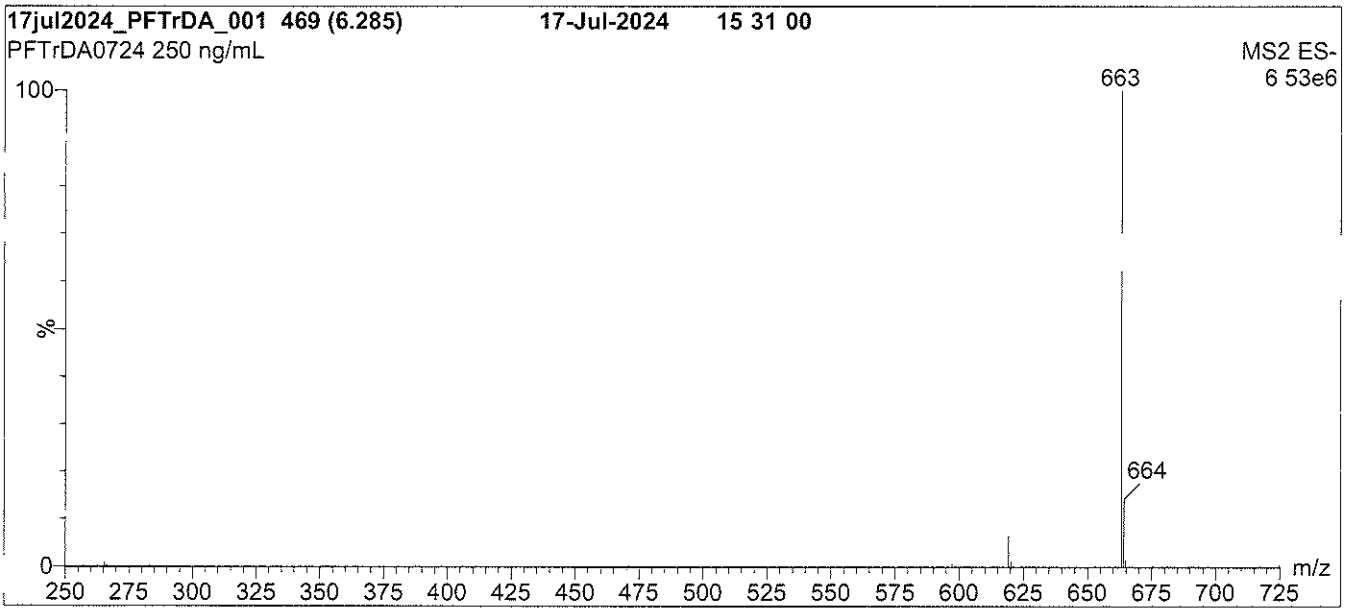
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **PFTrDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

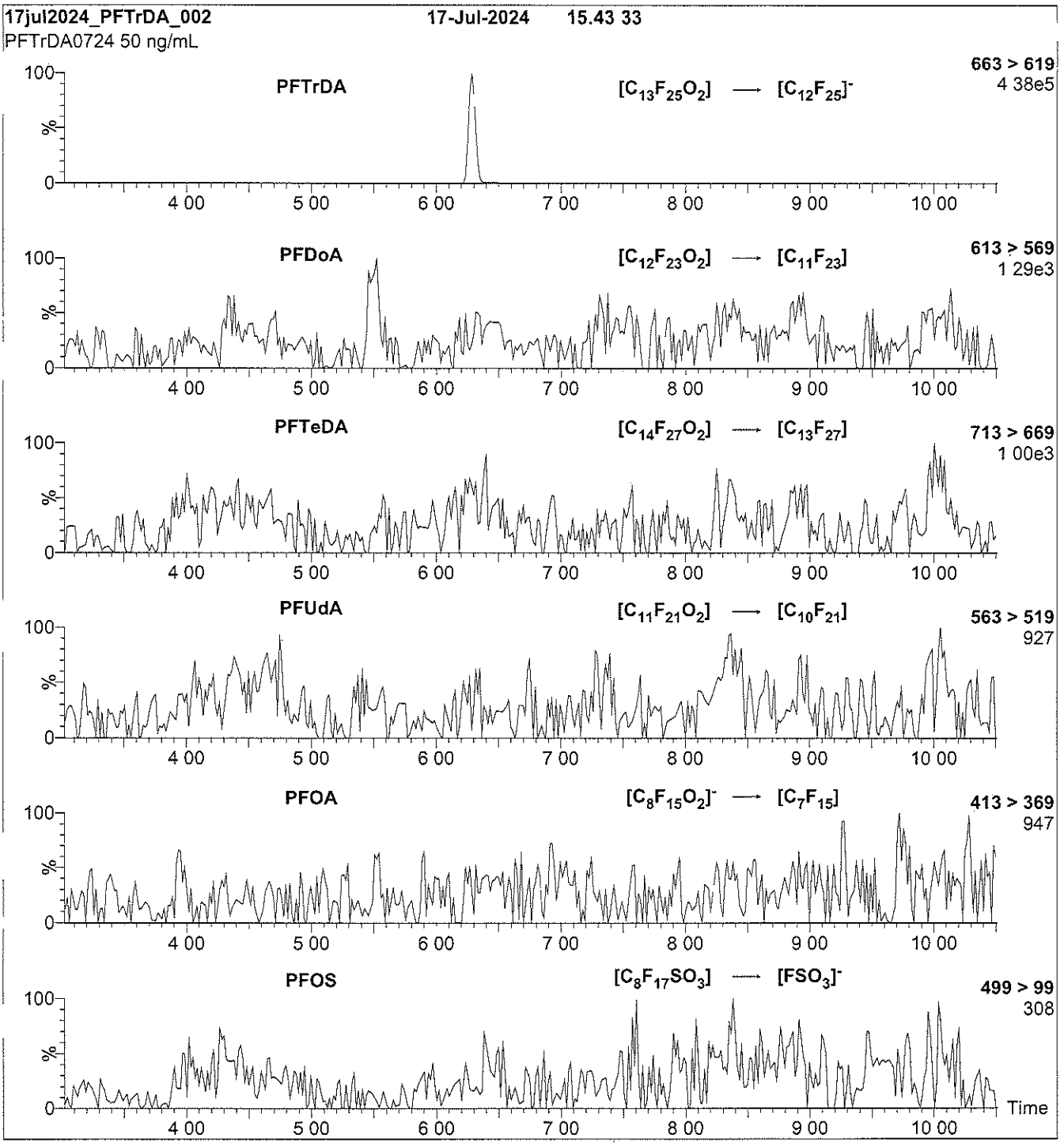
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 40% H_2O / 60% (80.20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time· 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source. Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **PFTrDA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (PFTrDA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5 94e-3
Collision Energy (eV) = 12

Reagent

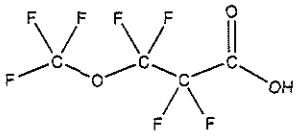
PFC_ST_03768

7448634
ID: PFC_ST_03768
Exp:06/21/29 Prpd:R7RE Opn:
Native PFMPA (PF4OPeA) Stock
410-7448634

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	PF4OPeA	**LOT NUMBER.**	PF4OPeA1024
COMPOUND.	Perfluoro-4-oxapentanoic acid		
SYNONYM.	Perfluoro-3-methoxypropanoic acid (PFMPA)		
STRUCTURE.		**CAS #.**	377 73-1



MOLECULAR FORMULA.	$C_4HF_7O_3$	**MOLECULAR WEIGHT:**	230 04
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	10/18/2024		
EXPIRY DATE. (mm/dd/yyyy)	10/18/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 12/10/2024 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, x_n on which it depends is

$$u(y(x \quad x_2 \quad x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

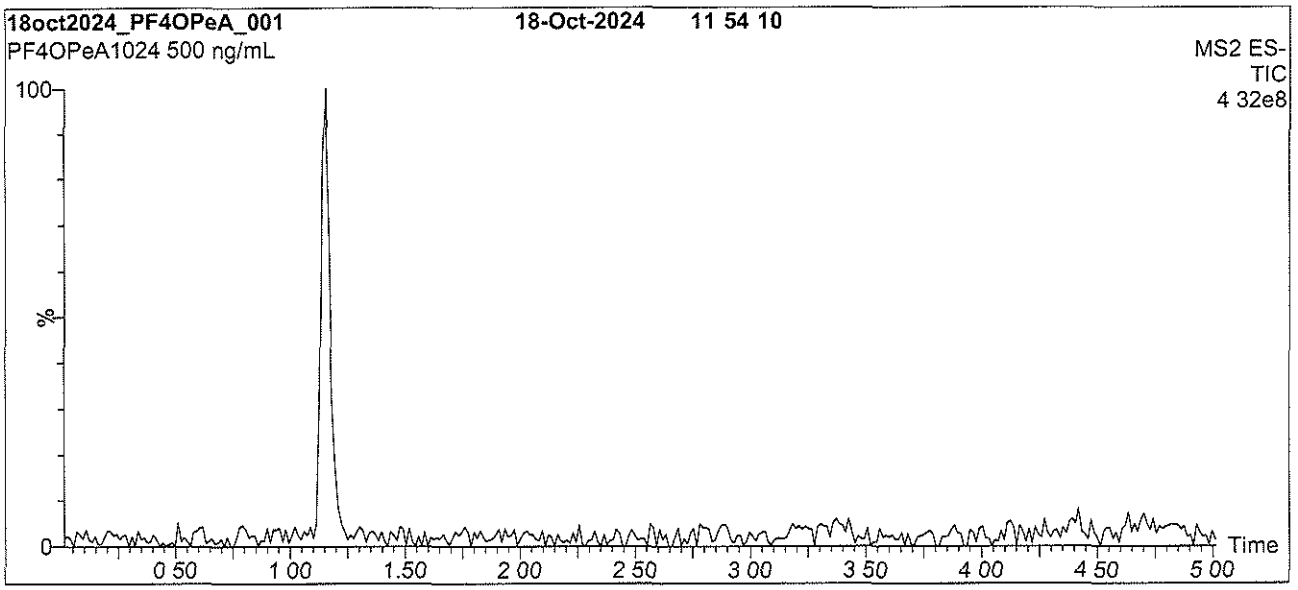
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB, AR-1523)

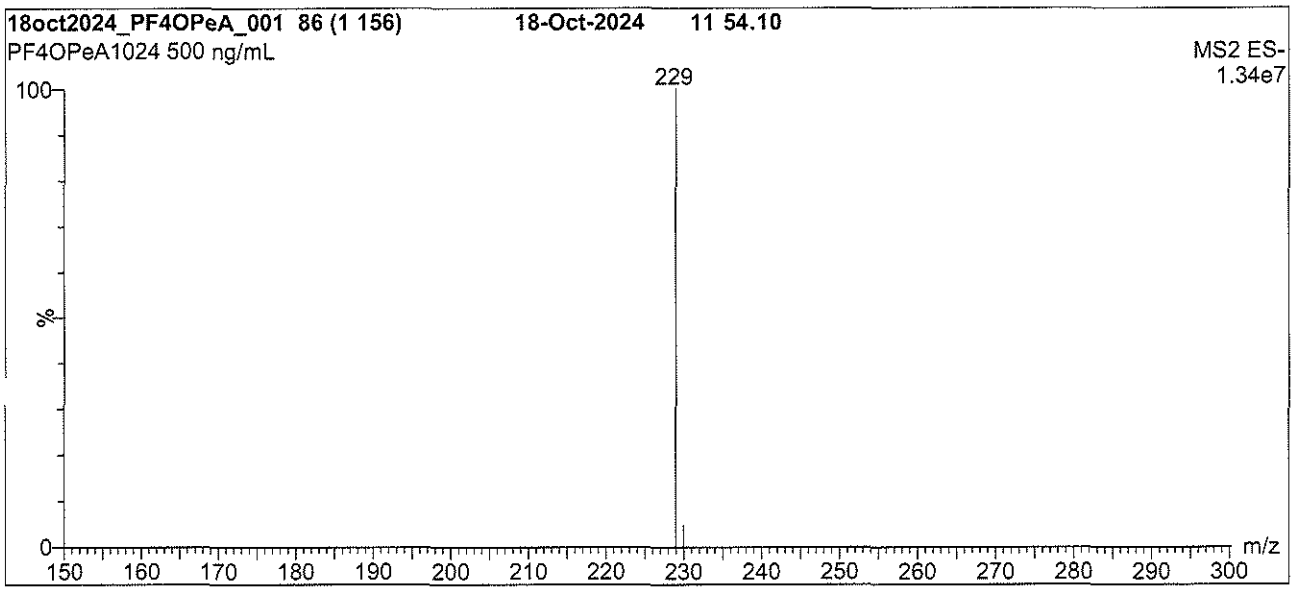
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **PF4OPeA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 12 min

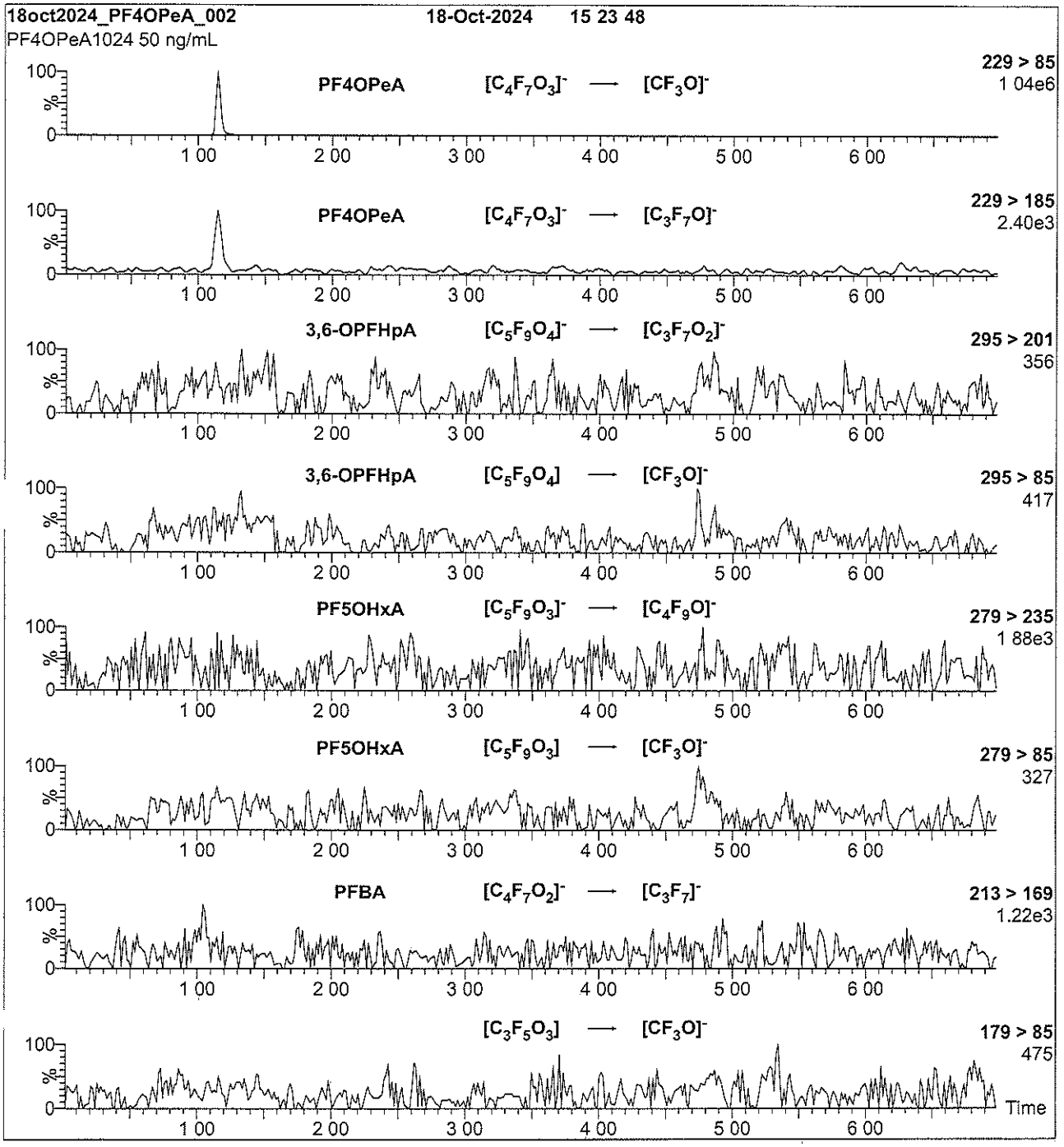
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source. Electrospray (negative)
Capillary Voltage (kV) = 0.50
Cone Voltage (V) = 9.50
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **PF4OPeA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (PF4OPeA)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.54e-3
Collision Energy (eV) = 10

Reagent

PFC_ST_03776

WELLINGTON LABORATORIES

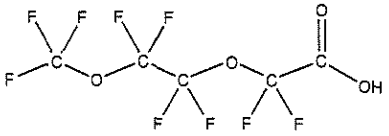
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. 3 6-OPFHpA
COMPOUND. Perfluoro-3 6-dioxaheptanoic acid

LOT NUMBER. 36OPFHpA0424

STRUCTURE.

CAS #: 151772-58-6



MOLECULAR FORMULA. $C_5HF_9O_4$
CONCENTRATION. 50 0 ± 2 5 µg/mL

MOLECULAR WEIGHT: 296 04
SOLVENT(S). Methanol
Water (<1%)

CHEMICAL PURITY. >98%
LAST TESTED. (mm/dd/yyyy) 04/17/2024
EXPIRY DATE. (mm/dd/yyyy) 04/17/2029
RECOMMENDED STORAGE. Store ampoule in a cool dark place

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 04/23/2024 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS LC/MS/MS SFC/UV/MS/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS/MS and/or SFC/UV/MS/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is.

$$u\ (y(x\ \ x_2\ \ .x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY.

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date, in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY.

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

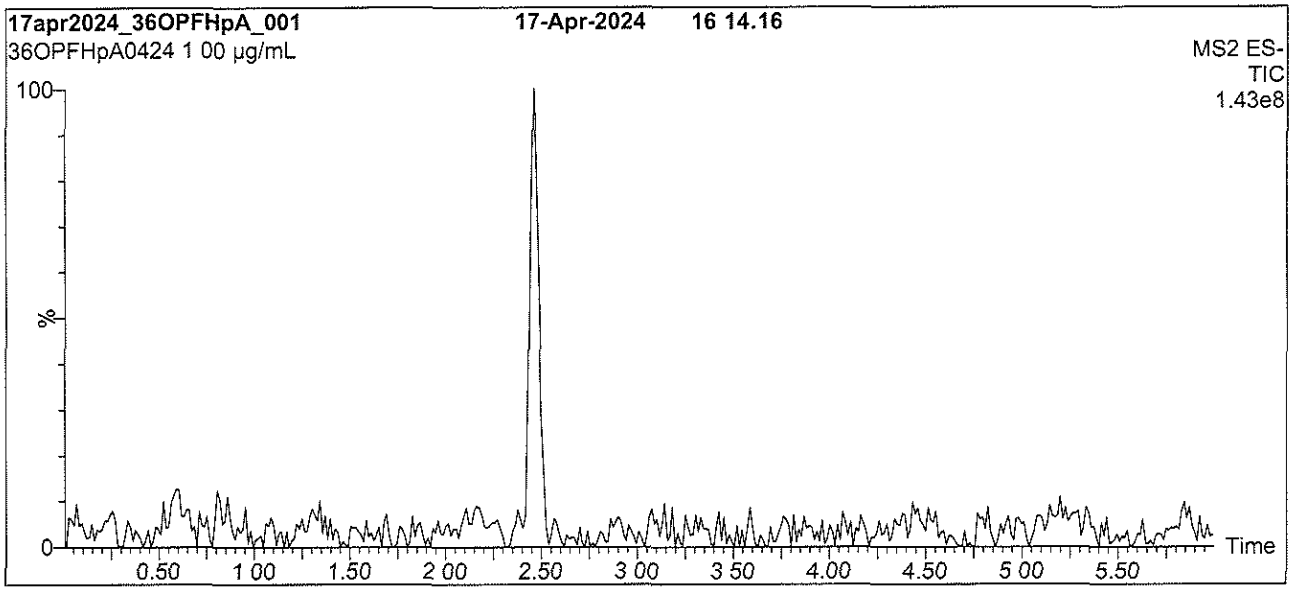
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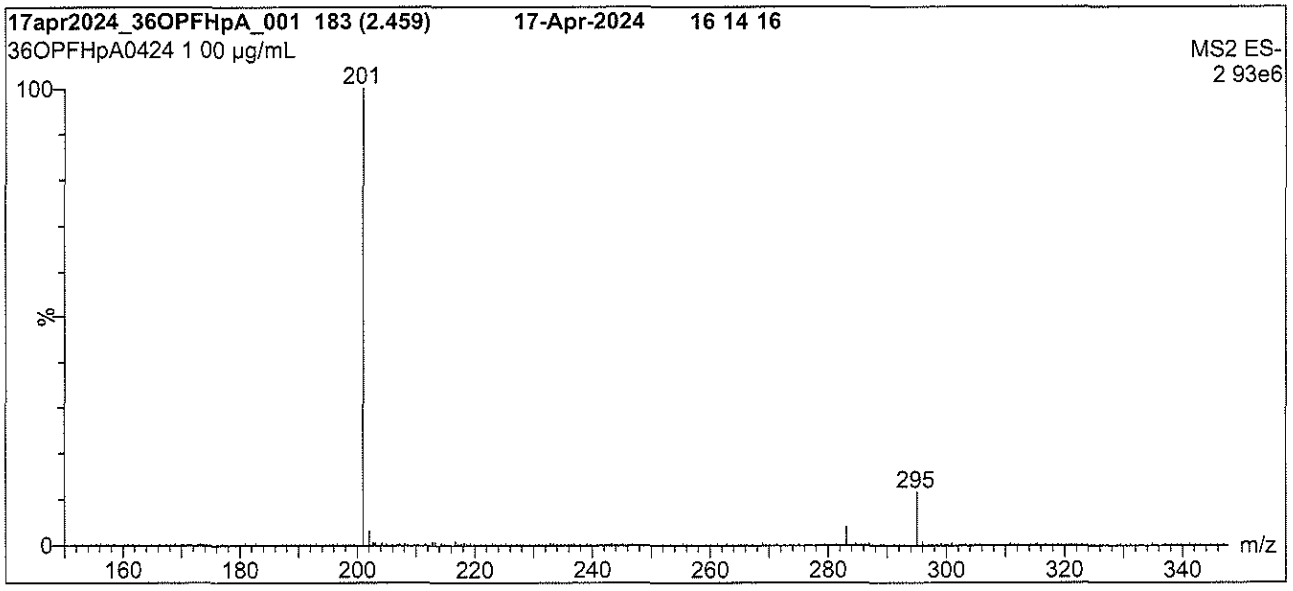
CALA testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **3,6-OPFHpA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

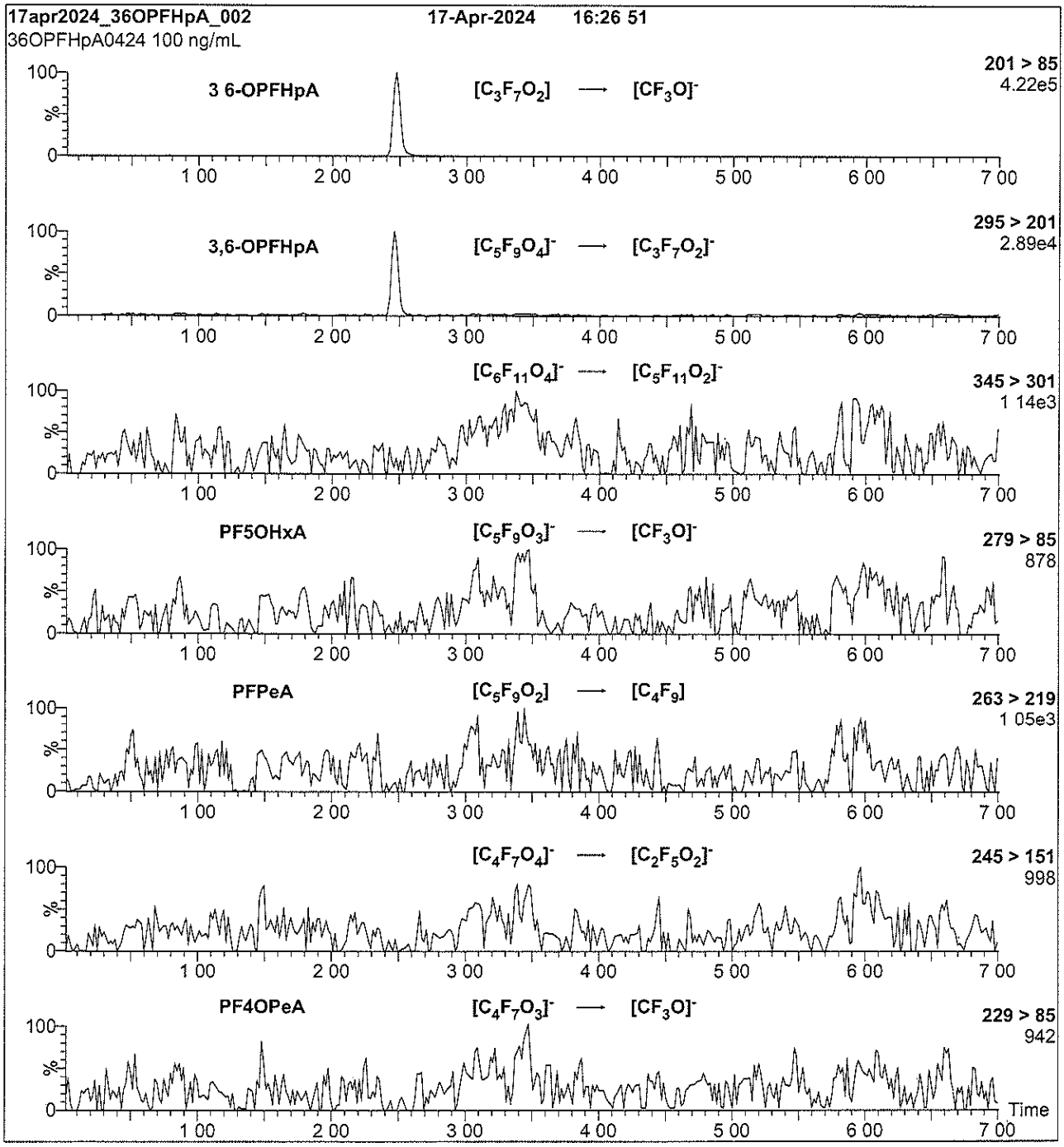
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80:20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 8 min and hold for 2 min before returning to initial conditions in 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 75
Cone Voltage (V) = 40 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **3,6-OPFHpA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.			
Injection	On-column (3 6-OPFHpA)	**MS Parameters.**	
Mobile phase	Same as Figure 1	Collision Gas (mbar) = 4.36e-3 Collision Energy (eV) = 10	
Flow	300 µL/min		

Reagent

PFC_ST_03780

7448674

ID: PFC_ST_03780

Exp:06/11/29 Prpd:R7RE Opn:

Native PFECHS Acid Stock (2:3 cis

410-7448674

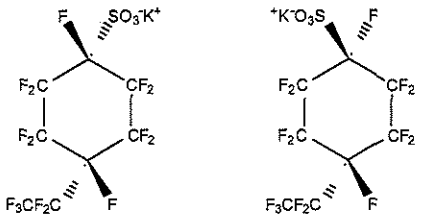
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. PFECHS **LOT NUMBER.** PFECHS0225

COMPOUND. *Potassium perfluoro-4-ethylcyclohexanesulfonate (isomeric mixture)*

STRUCTURE.



cis-isomer *trans*-isomer

CAS #: 335-24-0

MOLECULAR FORMULA.	$C_8F_5SO_3K$	**MOLECULAR WEIGHT:**	500 22
CONCENTRATION.	50 0 ± 2.5 µg/mL (K salt)	**SOLVENT(S).**	Methanol
	46.2 ± 2.3 µg/mL (PFECHS acid)		
	46 1 ± 2 3 µg/mL (PFECHS anion)		
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	02/03/2025		
EXPIRY DATE. (mm/dd/yyyy)	02/03/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan Extracted Chromatogram and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains a mixture of the *cis/trans* isomers of PFECHS at a ratio of 1 1 85 (*cis·trans* by ^{19}F NMR)
- Contains ~0 7% total of two unknown impurities

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Certified By _____ **Date** 02/06/2025 (mm/dd/yyyy)

B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

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where x is expressed as a relative standard uncertainty of the individual parameter

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

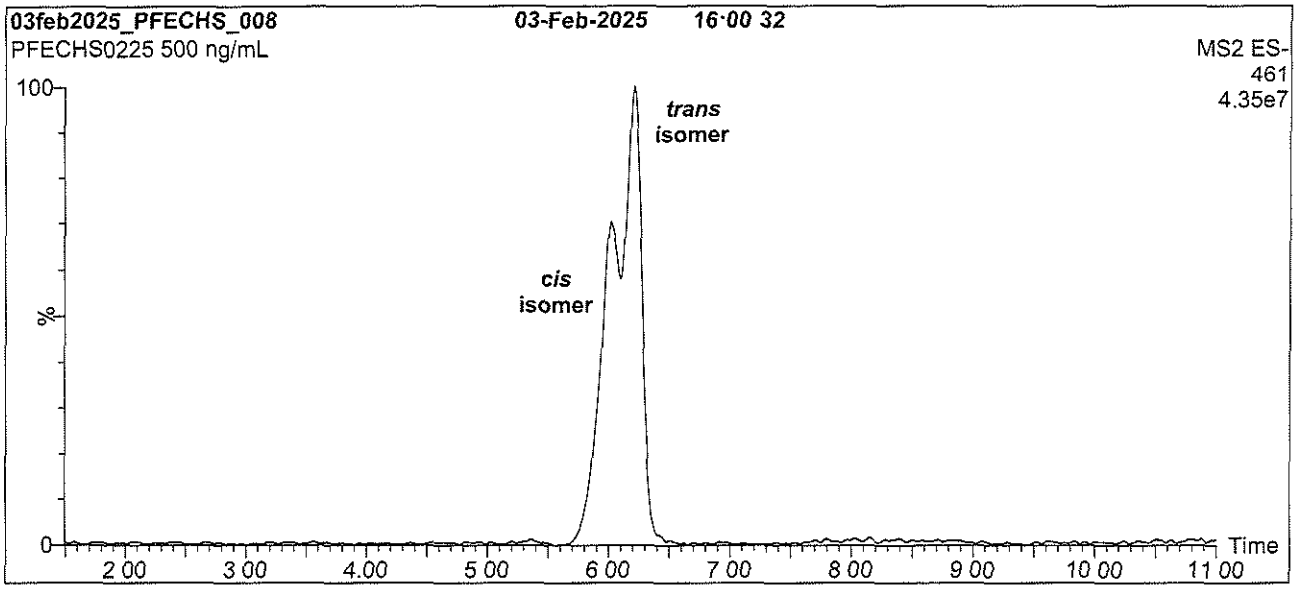
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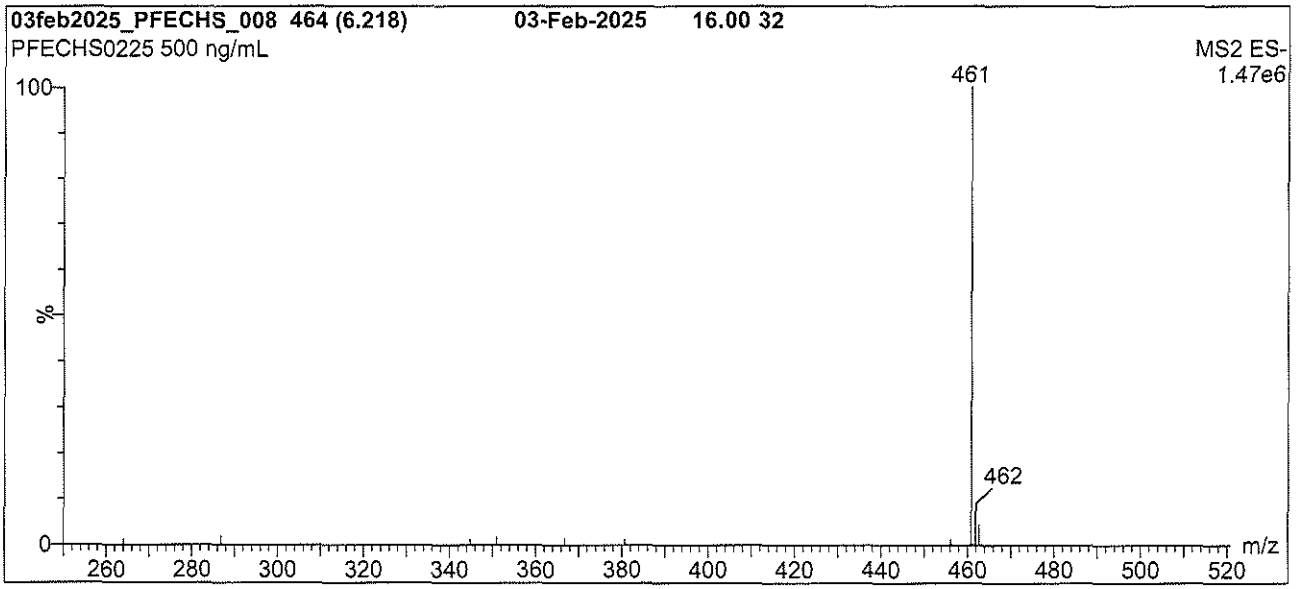
CALA
esting
Accreditation No. A1226

ANAB
ANSI National Accreditation Board
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **PFECHS, LC/MS Data (Full Scan Extracted Chromatogram and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity CSH Fluoro-Phenyl
1.7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 65% H_2O / 35% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Hold for 6 minutes then ramp to 90% organic over 4 min and hold for 2 min before returning to initial conditions in 1 min
Time 15 min

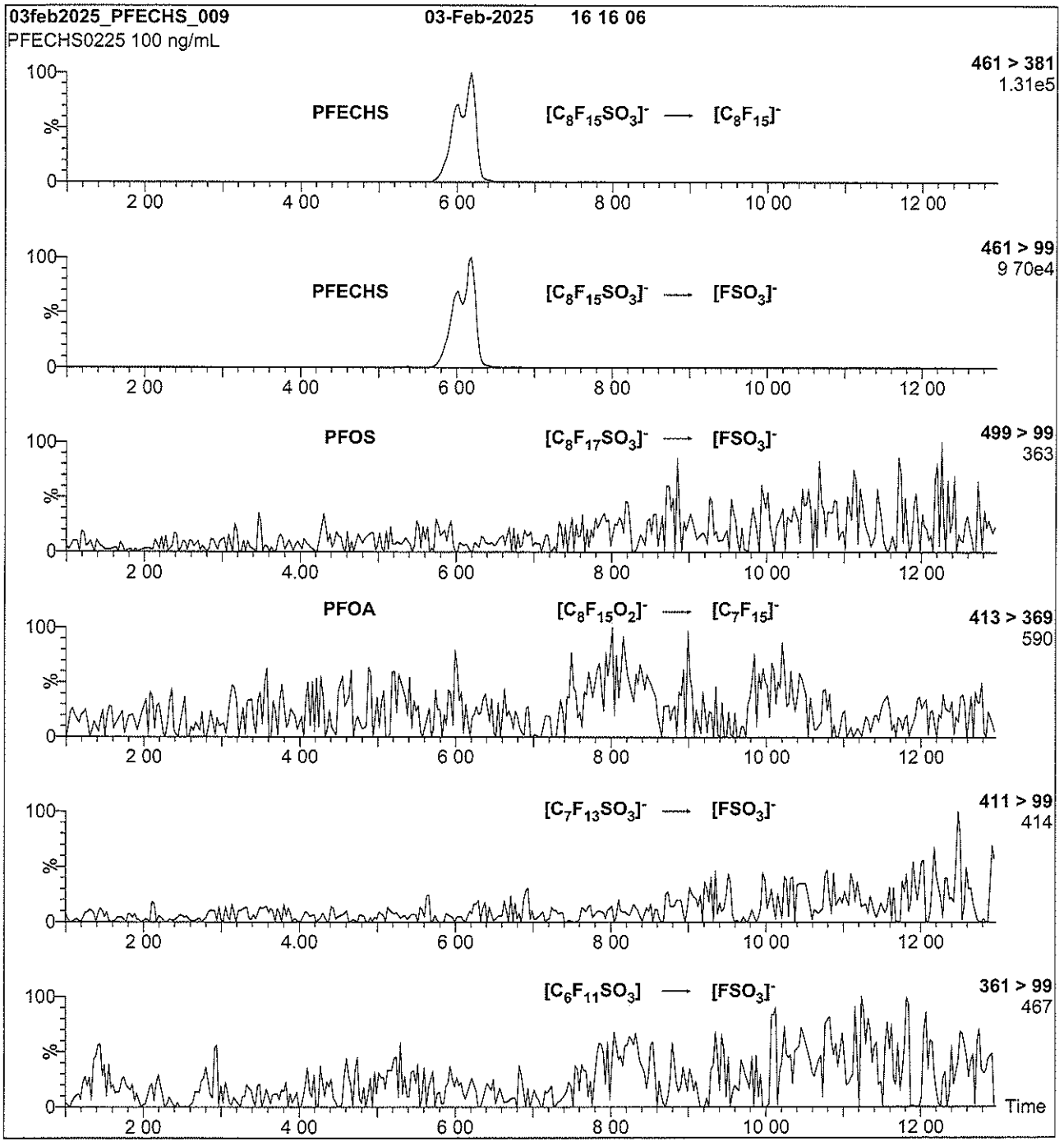
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 1.50
Cone Voltage (V) = 45.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **PFECHS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (PFECHS)
Mobile phase.	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.36e-3
Collision Energy (eV) = 24

Reagent

PFC_ST_03790

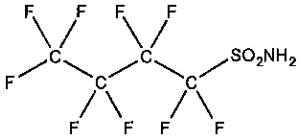
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_04010
PFC_ST_04011

PRODUCT CODE. FBSA-I
COMPOUND. Perfluoro-1-butanesulfonamide
LOT NUMBER. FBSA0225I

STRUCTURE.




7626876
ID: PFC_ST_04010
Exp:02/10/30 Prpd:JVK6 Opn:
Native FBSA Stock


7626877
ID: PFC_ST_04011
Exp:02/10/30 Prpd:JVK6 Opn:
Native FBSA Stock

MOLECULAR FORMULA.	$C_4H_2F_9NO_2S$	**MOLECULAR WEIGHT:**	299 11
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Isopropanol
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	02/10/2025		
EXPIRY DATE. (mm/dd/yyyy)	02/10/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		


410-7626876

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

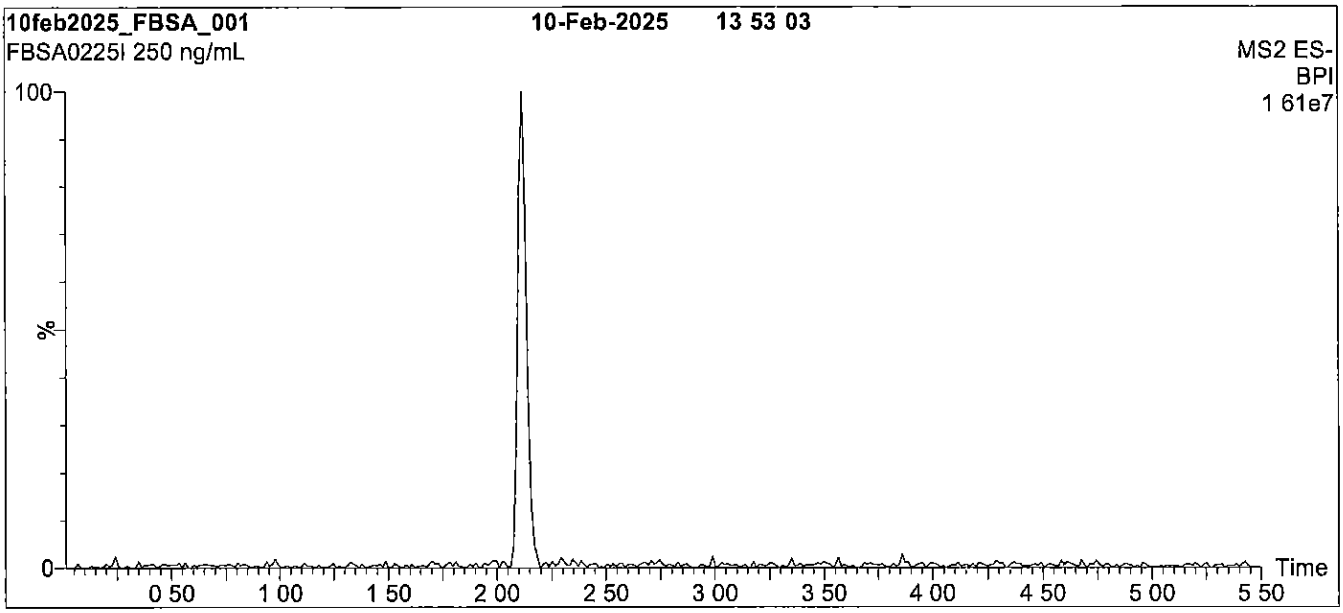
- See page 2 for further details

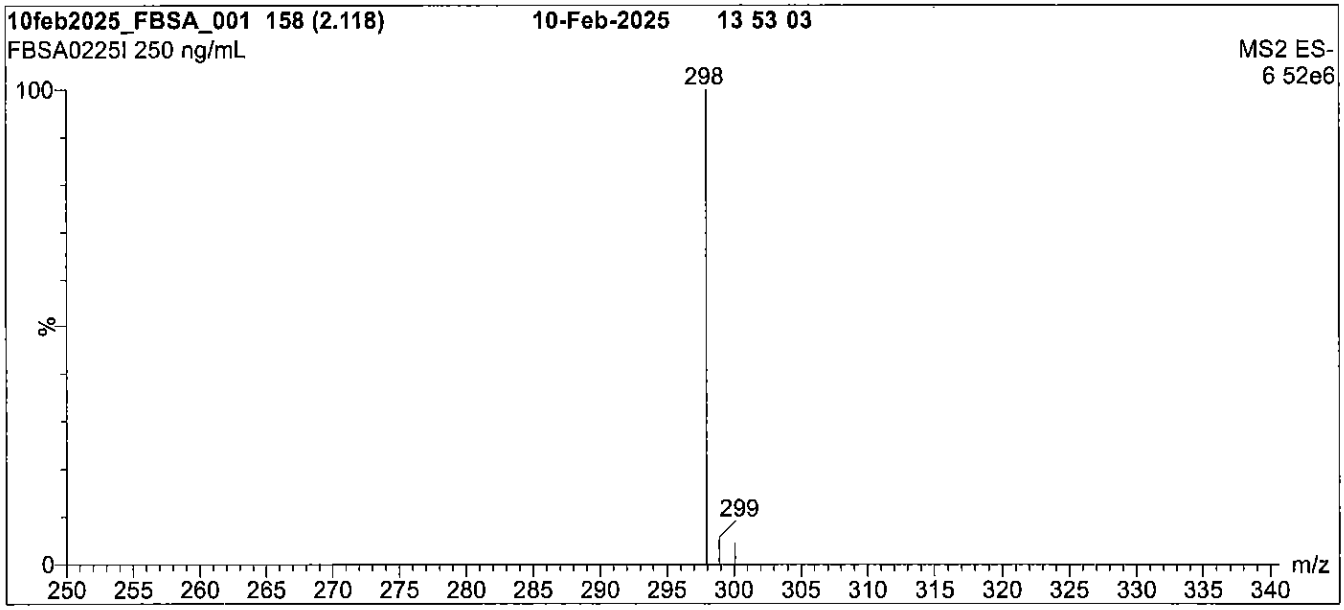
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Certified By· _____ **Date·** 02/21/2025
(mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs com

Figure 1: **FBSA-I, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start. 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 mln and hold for 1 min
before returning to initial conditions in 0 5 min.
Time 12 min

Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 1 50
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Reagent

PFC_ST_03923

WELLINGTON LABORATORIES

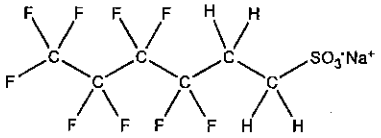
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_03919, 03920, 03921, 03922, 03923, 03924

PRODUCT CODE: 4:2FTS **LOT NUMBER:** 42FTS0924

COMPOUND: Sodium 1H,1H,2H,2H-perfluorohexanesulfonate

STRUCTURE: **CAS #:** 27619-93-8



410-Z605013

MOLECULAR FORMULA:	$C_6H_4F_9SO_3Na$	**MOLECULAR WEIGHT:**	350.13
CONCENTRATION:	50.0 ± 2.5 µg/mL (Na salt)	**SOLVENT(S):**	Methanol
	46.9 ± 2.3 µg/mL (4:2FTS acid)		
	46.7 ± 2.3 µg/mL (4:2FTS anion)		
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	10/02/2024		
EXPIRY DATE: (mm/dd/yyyy)	10/02/2029		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 10/03/2024 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

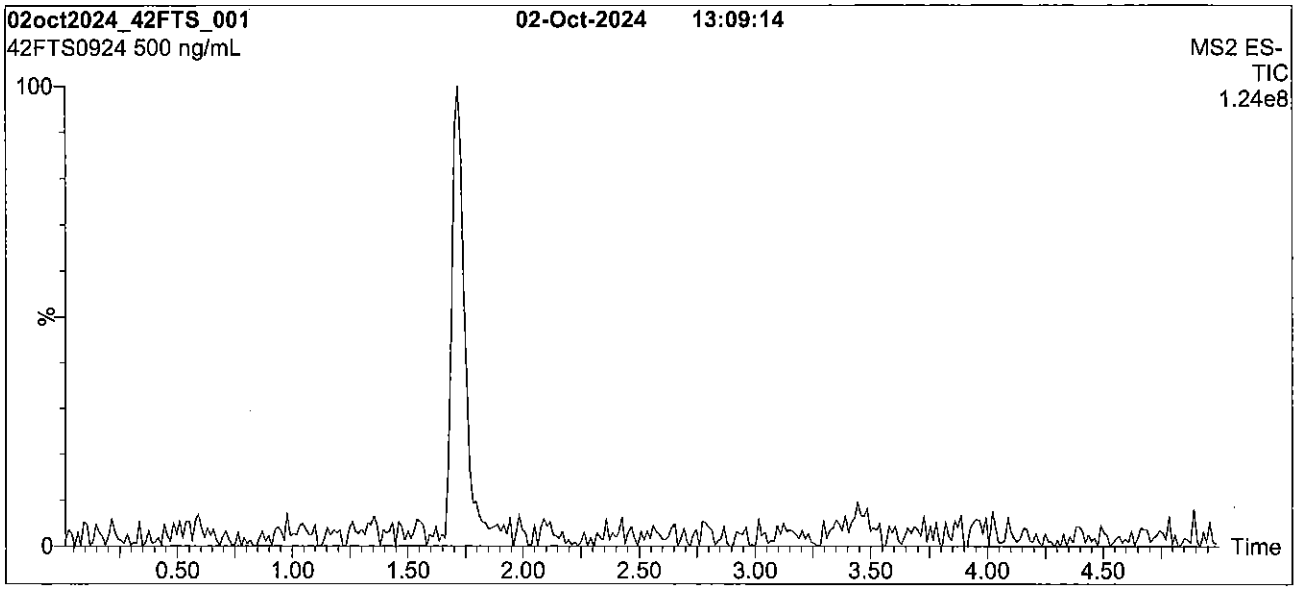
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

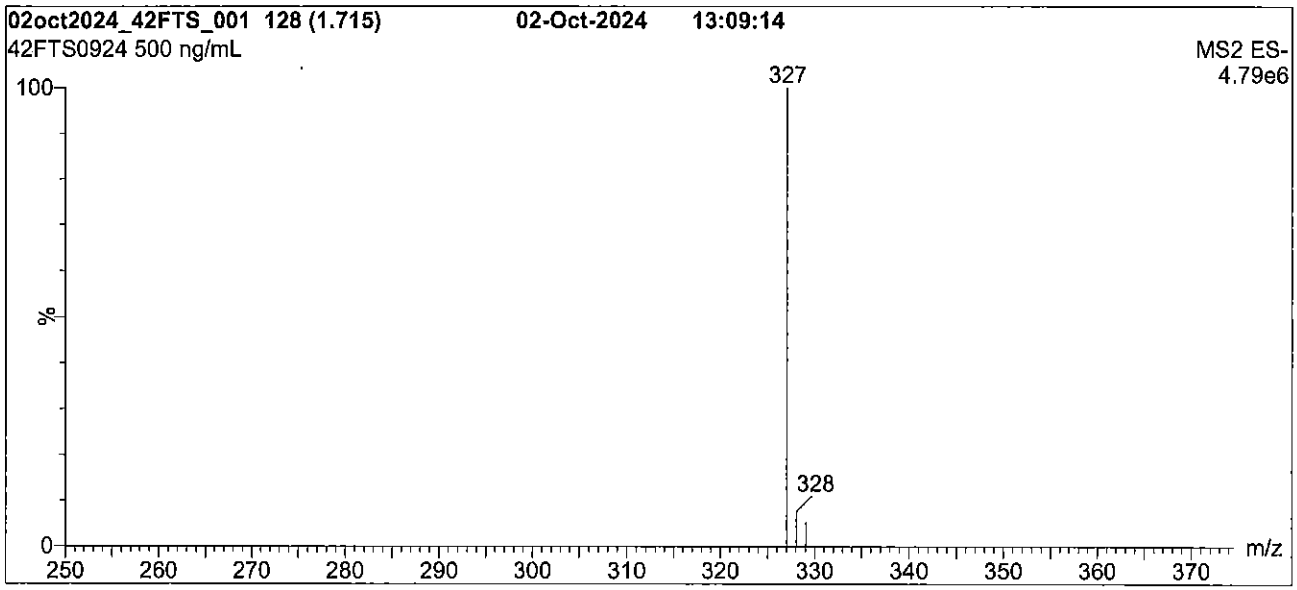
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **4:2FTS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

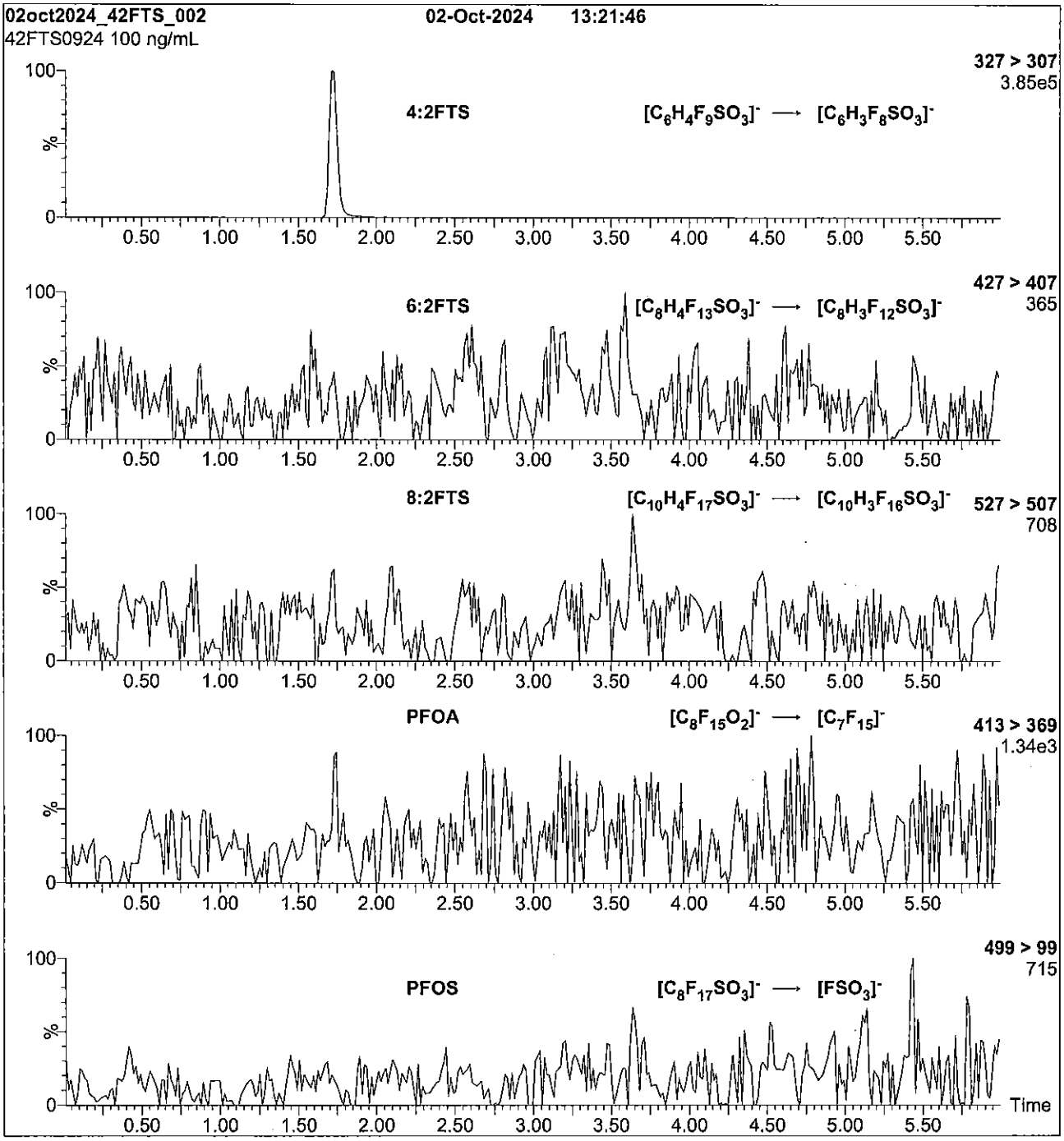
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **4:2FTS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (4:2FTS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.56e-3
Collision Energy (eV) = 18

Reagent

PFC_ST_03928

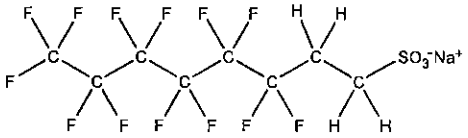
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-03925, 03926, 03927, 03928, 03929, 03930

PRODUCT CODE: 6:2FTS **LOT NUMBER:** 62FTS0225
COMPOUND: Sodium 1H,1H,2H,2H-perfluorooctanesulfonate

STRUCTURE: **CAS #:** 27619-94-9



410-7605227

MOLECULAR FORMULA:	$C_8H_4F_{13}SO_3Na$	**MOLECULAR WEIGHT:**	450.15
CONCENTRATION:	50.0 ± 2.5 µg/mL (Na salt) 47.6 ± 2.4 µg/mL (6:2FTS acid) 47.4 ± 2.4 µg/mL (6:2FTS anion)	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	03/04/2025		
EXPIRY DATE: (mm/dd/yyyy)	03/04/2030		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 03/06/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

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INTENDED USE:

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HANDLING:

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SYNTHESIS / CHARACTERIZATION:

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

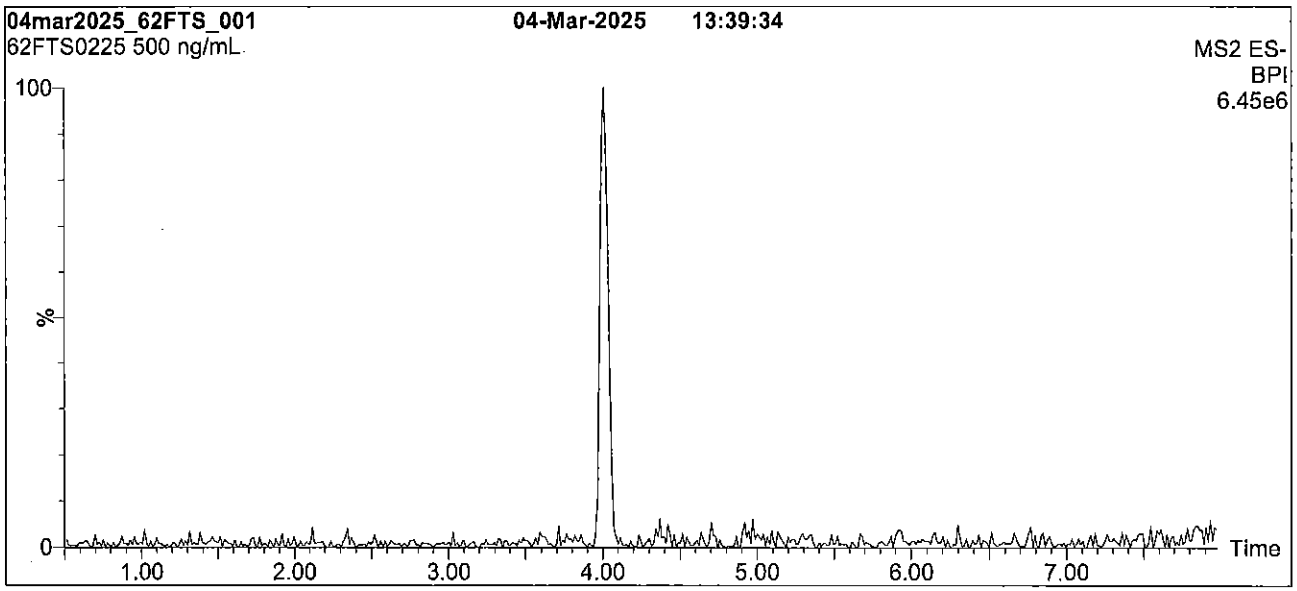
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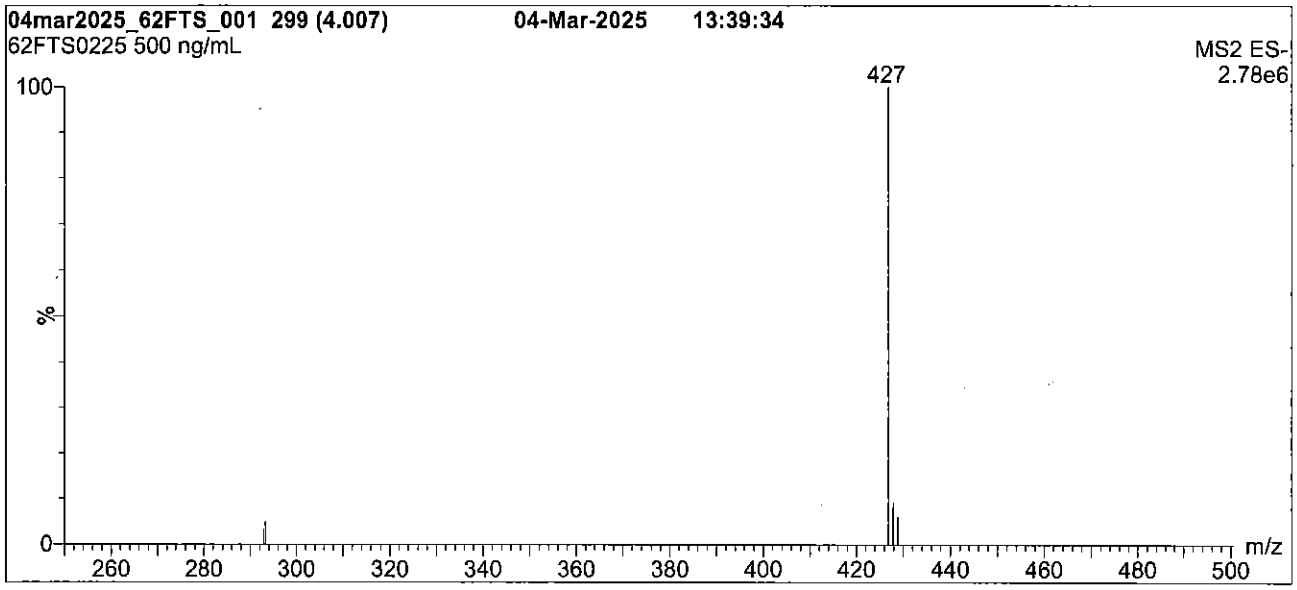
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **6:2FTS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0.5 min.
Time: 12 min

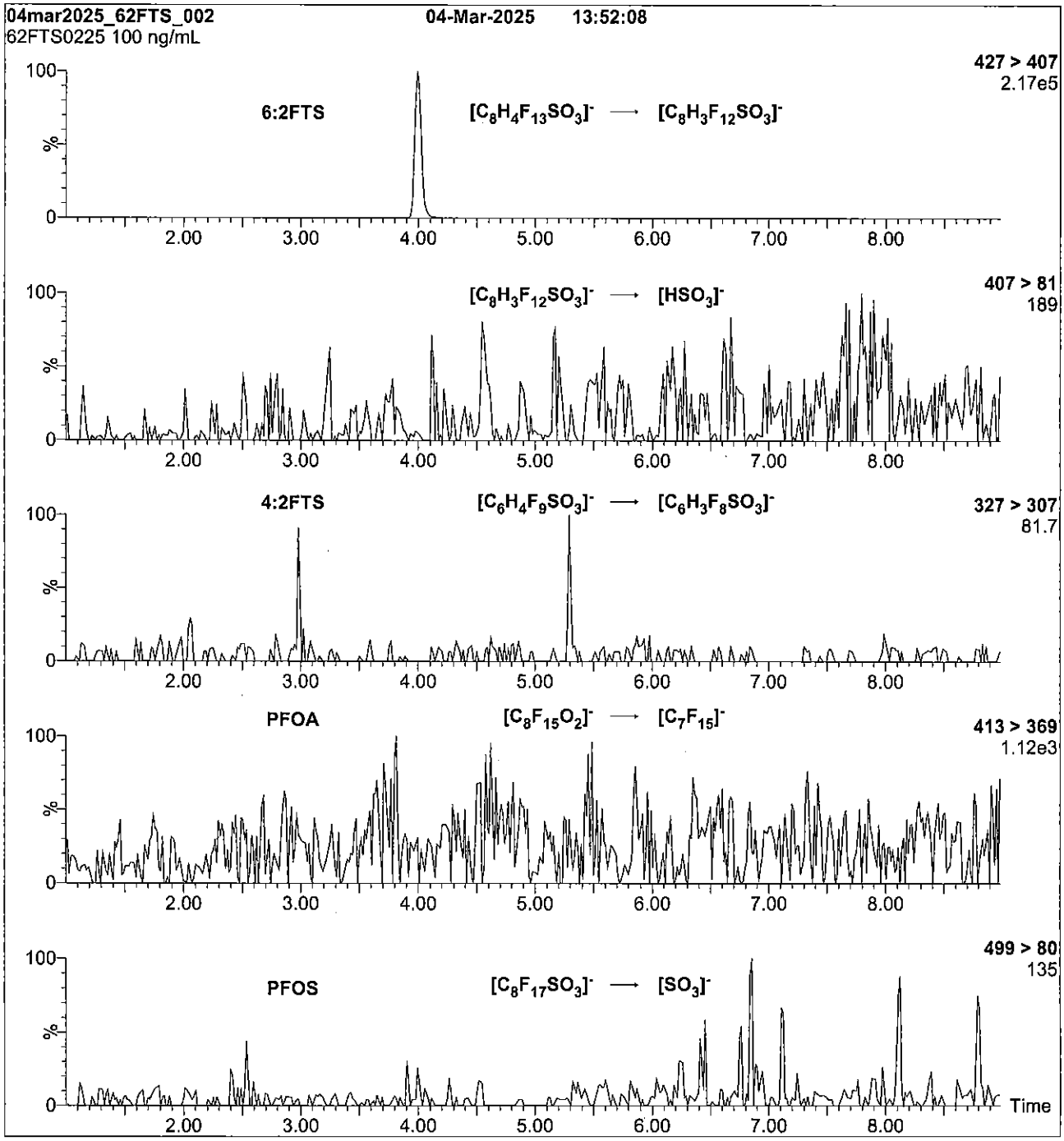
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **6:2FTS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (6:2FTS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.64e-3
Collision Energy (eV) = 20

Reagent

PFC_ST_03936

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PFC-ST-03935, 03936, 03937, 03938, 03939

br-NMeFOSE

2-(N-Methylperfluorooctanesulfonamido)ethanol Solution/Mixture of Linear and Branched Isomers

PRODUCT CODE:	br-NMeFOSE
LOT NUMBER:	brNMeFOSE0225
CONCENTRATION:	50.0 ± 2.5 µg/mL
SOLVENT(S):	Methanol
DATE PREPARED: (mm/dd/yyyy)	02/20/2025
LAST TESTED: (mm/dd/yyyy)	03/13/2025 (HRGC/LRMS)
	02/21/2025 (LC/MS)
EXPIRY DATE: (mm/dd/yyyy)	03/13/2030
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

410-7605308

DESCRIPTION:

The chemical purity has been determined to be ≥98% 2-(N-methylperfluorooctanesulfonamido)ethanol linear and branched isomers. The full name, structure, and percent composition for each of the isomeric components are given in Table A.

DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by ^{19}F-NMR
Figure 1: HRGC/LRMS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS Data (Full Scan and Mass Spectrum)
Figure 3: LC/MS Data (SIR)
Figure 4: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- CAS #: 24448-09-7 (for linear isomer).
- It is recommended to integrate and quantify the linear and branched isomers separately as their response factors can vary depending on optimized acquisition parameters.

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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Table A: **br-NMeFOSE; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

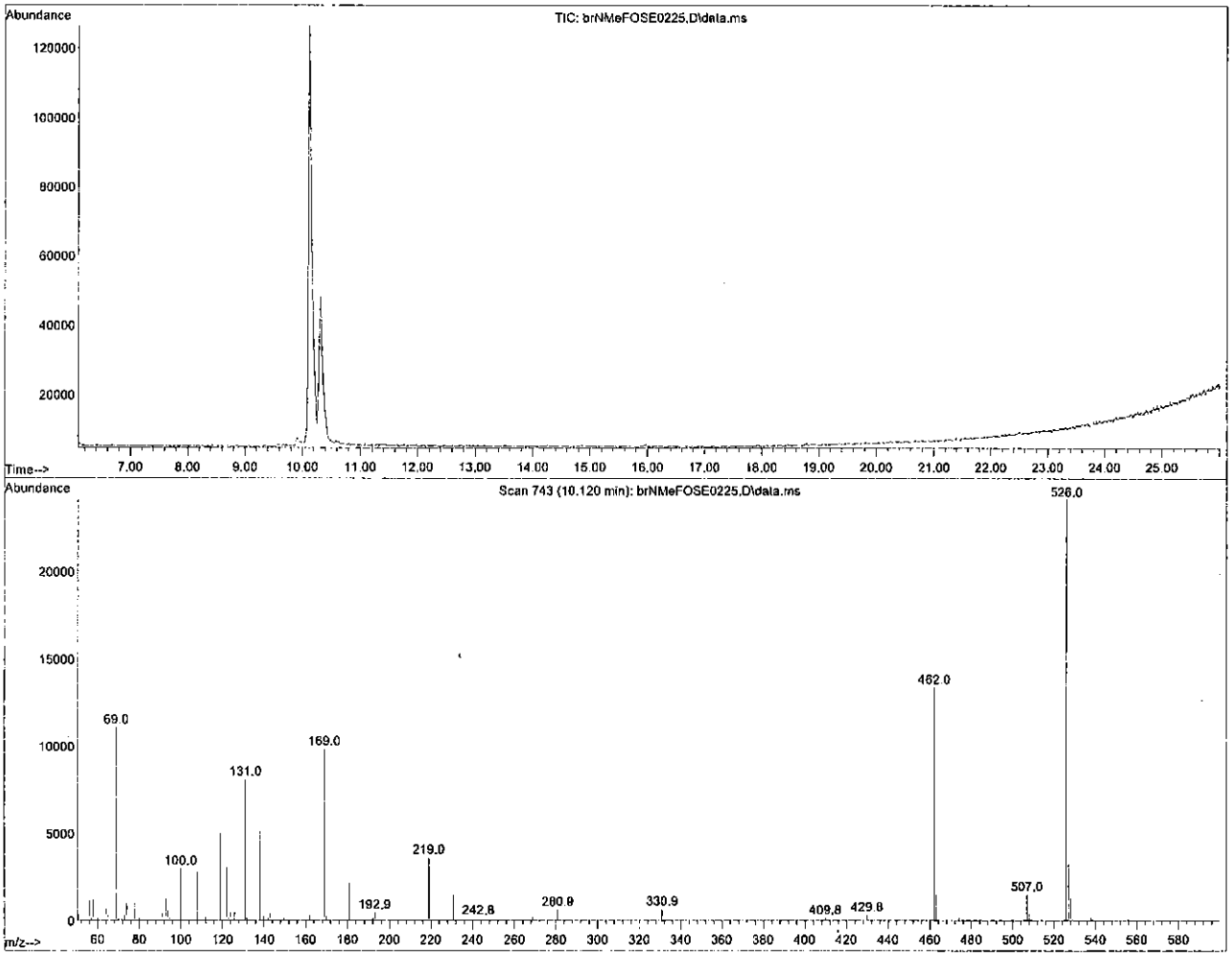
Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR
1	2-(N-Methylperfluoro-1-octanesulfonamido)ethanol	$CF_3(CF_2)_7SO_2N(CH_3)CH_2CH_2OH$	67.6
2	2-(N-Methylperfluoro-3-methyl-1-heptanesulfonamido)ethanol	$CF_3(CF_2)_3CF(CF_3)(CF_2)_2SO_2N(CH_3)CH_2CH_2OH$	3.9
3	2-(N-Methylperfluoro-4-methyl-1-heptanesulfonamido)ethanol	$CF_3(CF_2)_2CF(CF_3)(CF_2)_3SO_2N(CH_3)CH_2CH_2OH$	3.2
4	2-(N-Methylperfluoro-5-methyl-1-heptanesulfonamido)ethanol	$CF_3CF_2CF(CF_3)(CF_2)_4SO_2N(CH_3)CH_2CH_2OH$	7.7
5	2-(N-Methylperfluoro-6-methyl-1-heptanesulfonamido)ethanol	$CF_3CF(CF_3)(CF_2)_5SO_2N(CH_3)CH_2CH_2OH$	17.5
6	2-(N-Methylperfluoro-5,5-dimethyl-1-hexanesulfonamido)ethanol	$CF_3C(CF_3)_2(CF_2)_4SO_2N(CH_3)CH_2CH_2OH$	0.2

* Percent of total 2-(N-methylperfluorooctanesulfonamido)ethanol isomers only. Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages.

Certified By: _____ **Date:** 04/04/2025
(mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: **br-NMeFOSE; HRGC/LRMS Data (Full Scan and Mass Spectrum)**



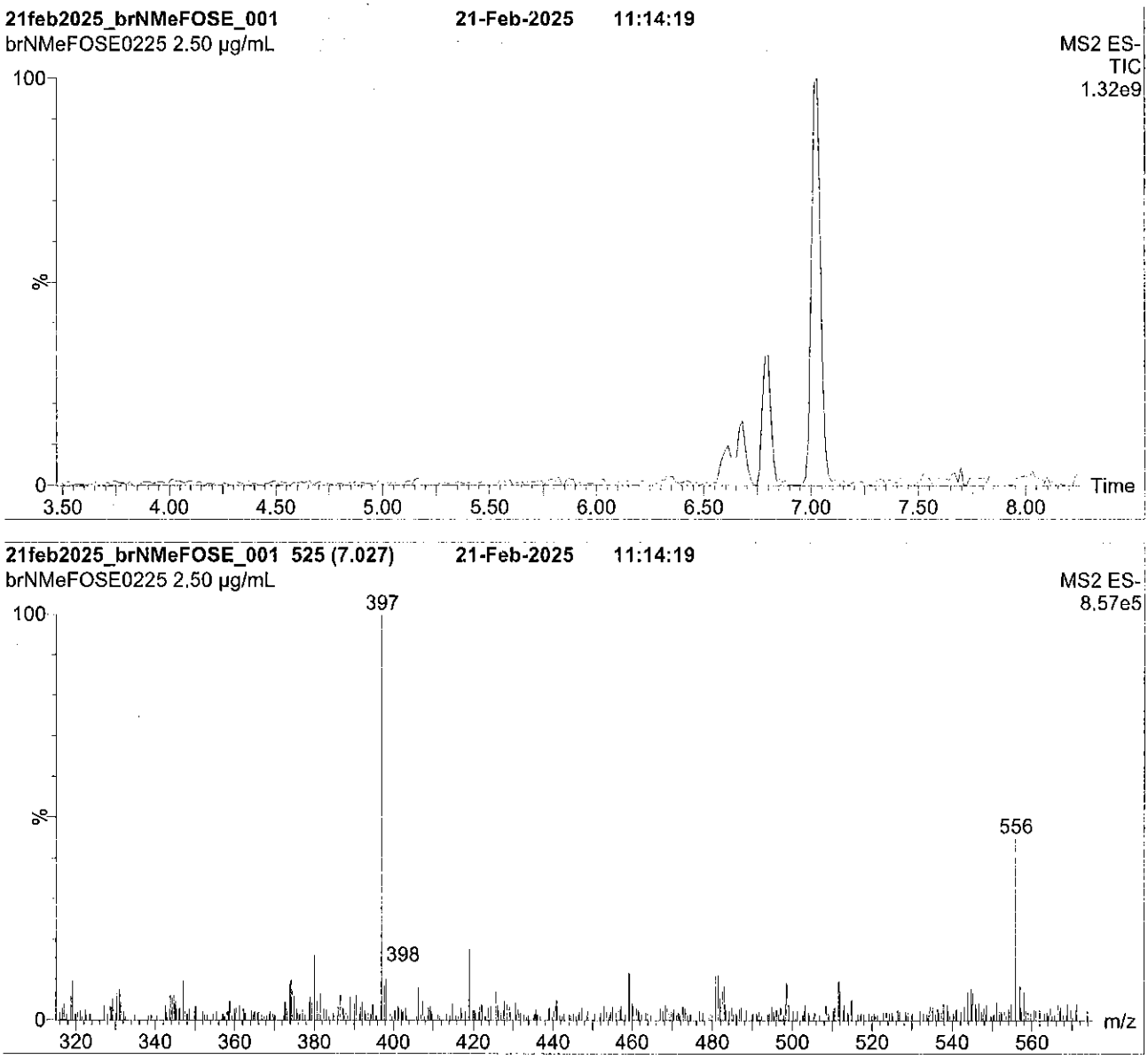
Conditions for Figure 1:

Agilent 7890A HRGC
Agilent 5975C MSD

Chromatographic Conditions:

Column:	30 m HP-5MS UI (0.25 mm id, 0.25 µm film thickness) Agilent J&W
Flow:	Constant at 1.0 mL/min
Injector:	250°C (Splitless Injection)
Oven:	100°C (5 min) 10°C/min to 310°C 310°C (10 min)
Ionization:	EI+
Detector:	230°C Full Scan (50-1000 amu)

Figure 2: **br-NMeFOSE; LC/MS Data (Full Scan and Mass Spectrum)**



Conditions for Figure 2:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% MeOH
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

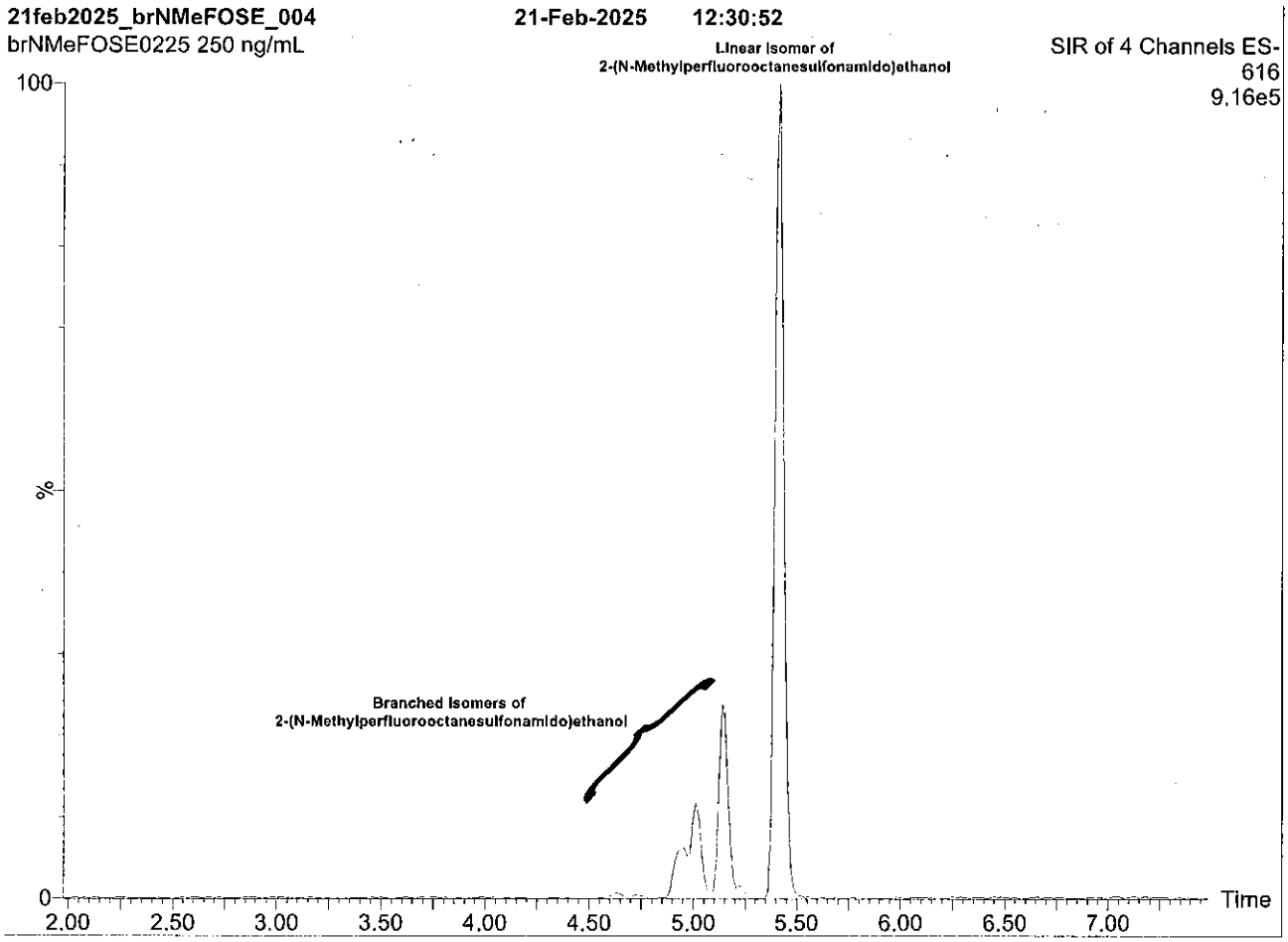
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 3: **br-NMeFOSE; LC/MS Data (SIR)**



Conditions for Figure 3:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

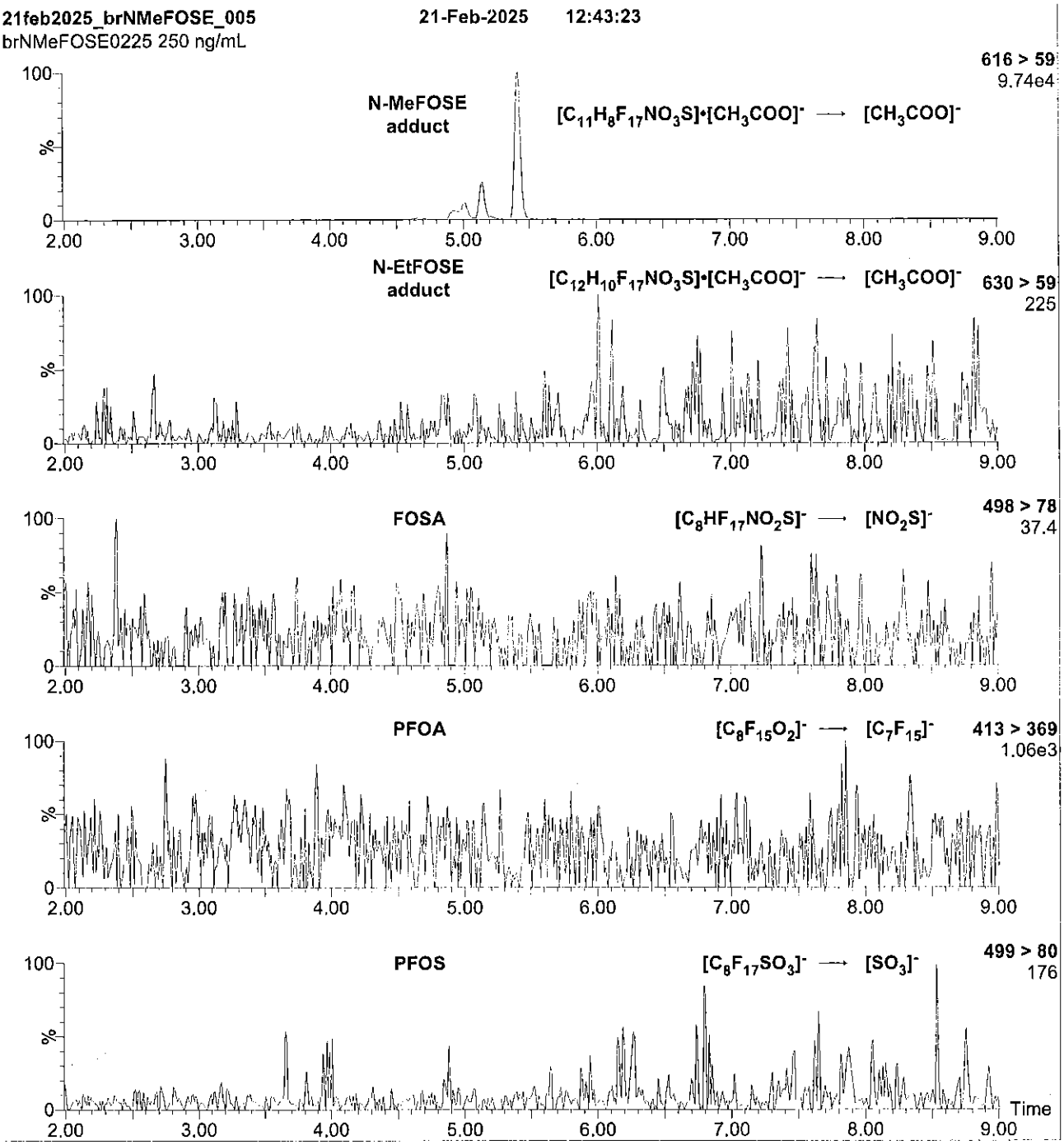
Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (15-20)
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 4: **br-NMeFOSE; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 4:

Injection: On-column (br-NMeFOSE)

Mobile phase: Same as Figure 3

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.34e-3
Collision Energy (eV) = 12

Reagent

PFC_ST_03946

PFC-ST-03514

br-PFHxSK

410-7205079

Potassium Perfluorohexanesulfonate Solution/Mixture of Linear and Branched Isomers

PRODUCT CODE.	br-PFHxSK
LOT NUMBER.	brPFHxSK0724
CONCENTRATION.	50 0 ± 2 5 µg/mL (total K salt)
	45 6 ± 2.3 µg/mL (total PFHxS acid)
	45 5 ± 2.3 µg/mL (total PFHxS anion)
SOLVENT(S).	Methanol
DATE PREPARED. (mm/dd/yyyy)	07/29/2024
LAST TESTED. (mm/dd/yyyy)	07/31/2024
EXPIRY DATE. (mm/dd/yyyy)	07/31/2029
RECOMMENDED STORAGE.	Store ampoule in a cool dark place

DESCRIPTION.

The chemical purity has been determined to be ≥98% perfluorohexanesulfonate linear and branched isomers The full name structure and percent composition for each of the identified isomeric components are given in Table A.

DOCUMENTATION/ DATA ATTACHED.

Table A. Isomeric Components and Percent Composition by ^{19}F-NMR
Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (SIR)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- It is recommended to integrate and quantify the linear and branched isomers separately as their response factors can vary depending on optimized acquisition parameters
- Contains ~0 3% of perfluoro-n-hexanoic acid and ~0 3% of perfluoro-1-pentanesulfonate
- CAS #: 3871-99-6 (for linear isomer· potassium salt)

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519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS LC/MS, SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products as well as mixtures and calibration solutions are compared to older lots or equivalent products in a similar manner This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1 x_2, x_n on which it depends is:

$$u_c(y(x_1\ x_2\ \ x_n)) = \sqrt{\sum^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

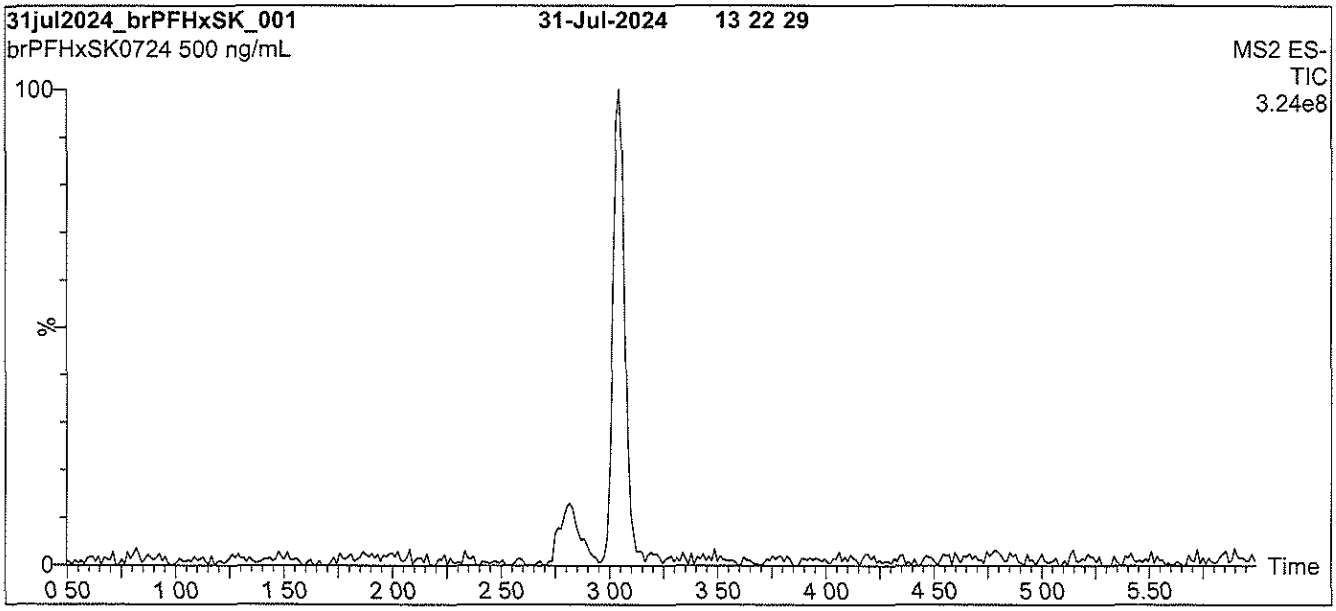
Table A. **br-PFHxSK, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

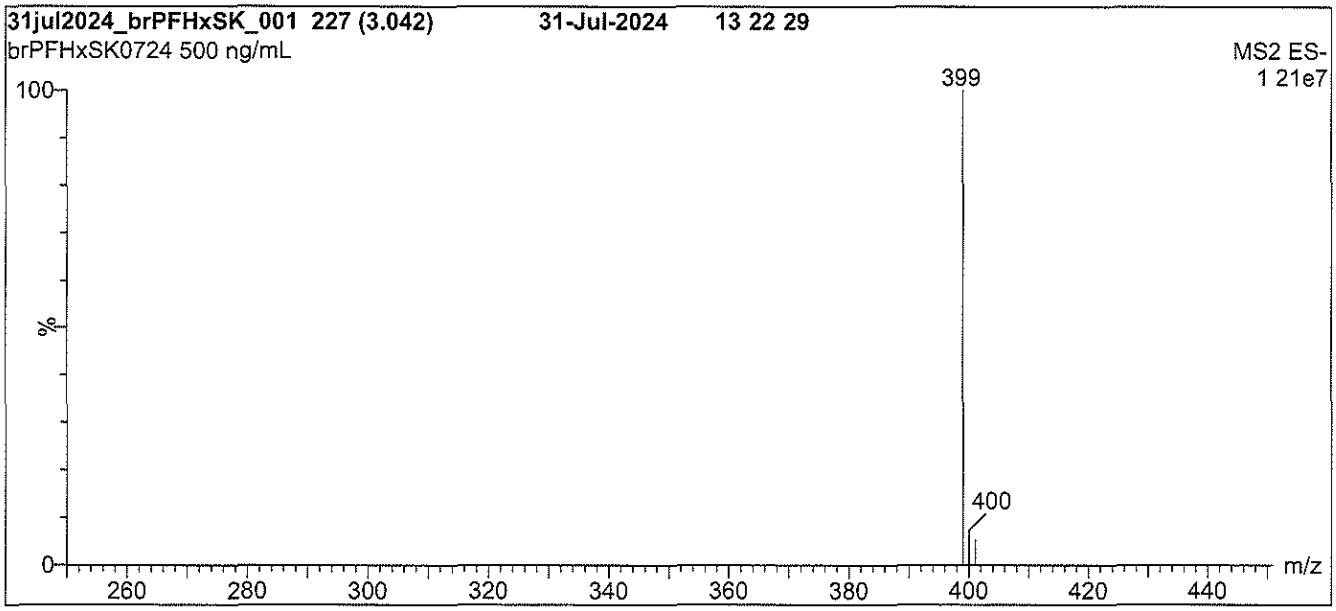
Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR
1	Potassium perfluoro-1-hexanesulfonate	$CF_3(CF_2)_5SO_3^-K^+$	81 1
2	Potassium perfluoro-1-methyl-1-pentanesulfonate**	$CF_3(CF_2)_3CF(CF_3)SO_3^-K^+$	2 9
3	Potassium perfluoro-2-methyl-1-pentanesulfonate	$CF_3(CF_2)_2CF(CF_3)CF_2SO_3^-K^+$	1.4
4	Potassium perfluoro-3-methyl-1-pentanesulfonate	$CF_3CF_2CF(CF_3)(CF_2)_2SO_3^-K^+$	5 0
5	Potassium perfluoro-4-methyl-1-pentanesulfonate	$CF_3CF(CF_3)(CF_2)_3SO_3^-K^+$	8 9
6	Potassium perfluoro-3 3-dimethyl-1-butanesulfonate	$CF_3C(CF_3)(CF_2)_2SO_3^-K^+$	0 2
7	Other Unidentified Isomers		0 5

* Percent of total perfluorohexanesulfonate isomers only
** Systematic Name Potassium perfluoro-2-hexanesulfonate

Certified By _____ **Date** 09/25/2024
(mm/dd/yyyy)
B G. Chittim General Manager

Figure 1. **br-PFHxSK, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80·20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

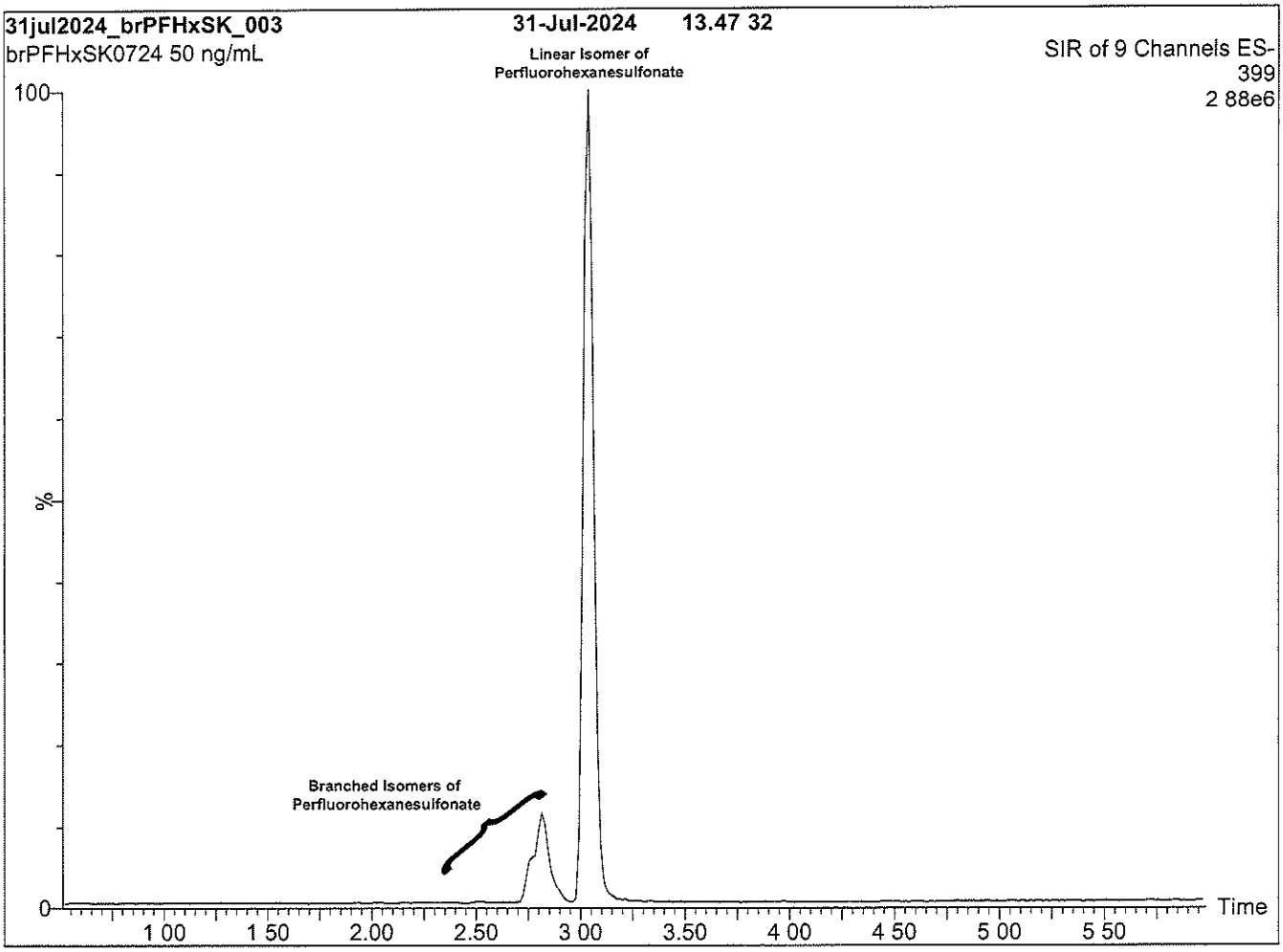
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **br-PFHxSK, LC/MS Data (SIR)**



Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

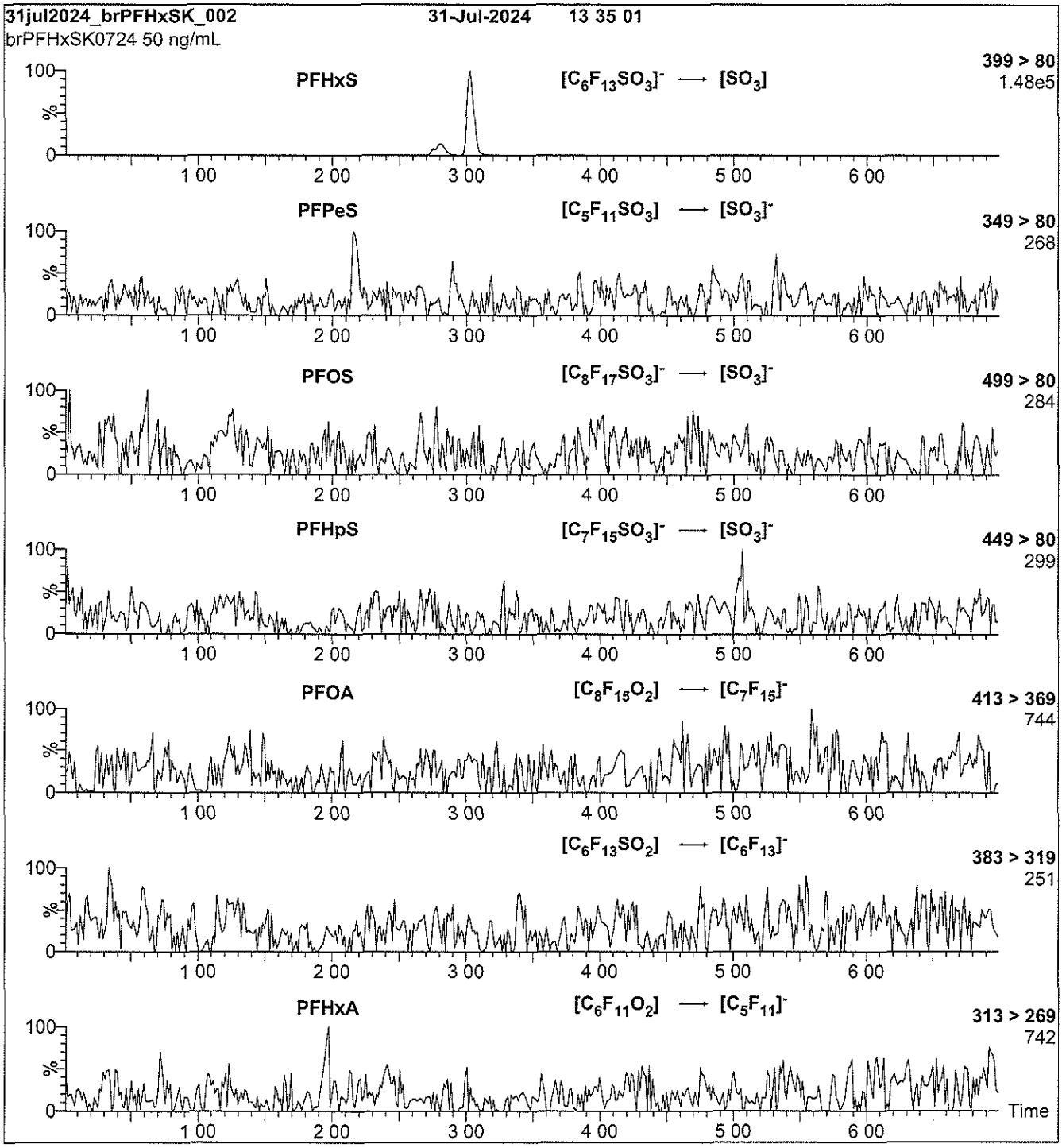
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80.20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: SIR

Source· Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (2-6)
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **br-PFHxSK, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3.

Injection On-column (br-PFHxSK)

Mobile phase: Same as Figures 1 and 2

Flow: 300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.31e-3
Collision Energy (eV) = 42

Reagent

PFC_ST_03948

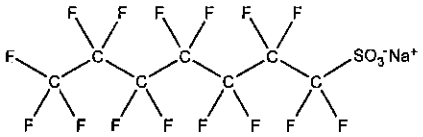
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-03947, 03948, 03949

PRODUCT CODE: L-PFHpS
LOT NUMBER: LPFHpS1024
COMPOUND: Sodium perfluoro-1-heptanesulfonate

STRUCTURE:



CAS #: 21934-50-9

410-7605610

MOLECULAR FORMULA:	$C_7F_{15}SO_3Na$	**MOLECULAR WEIGHT:**	472.10
CONCENTRATION:	50.0 ± 2.5 µg/mL (Na salt) 47.7 ± 2.4 µg/mL (PFHpS acid) 47.6 ± 2.4 µg/mL (PFHpS anion)	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	10/09/2024		
EXPIRY DATE: (mm/dd/yyyy)	10/09/2029		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 10/17/2024 (mm/dd/yyyy)
B.G. Chittim, General Manager

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INTENDED USE:

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HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

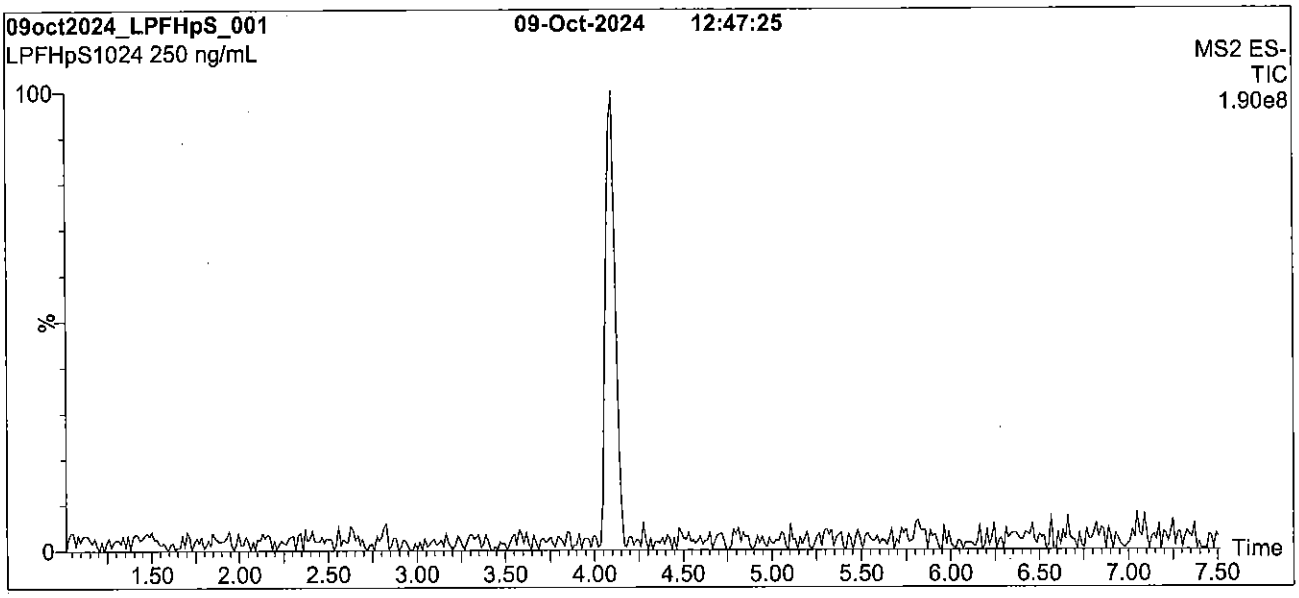
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

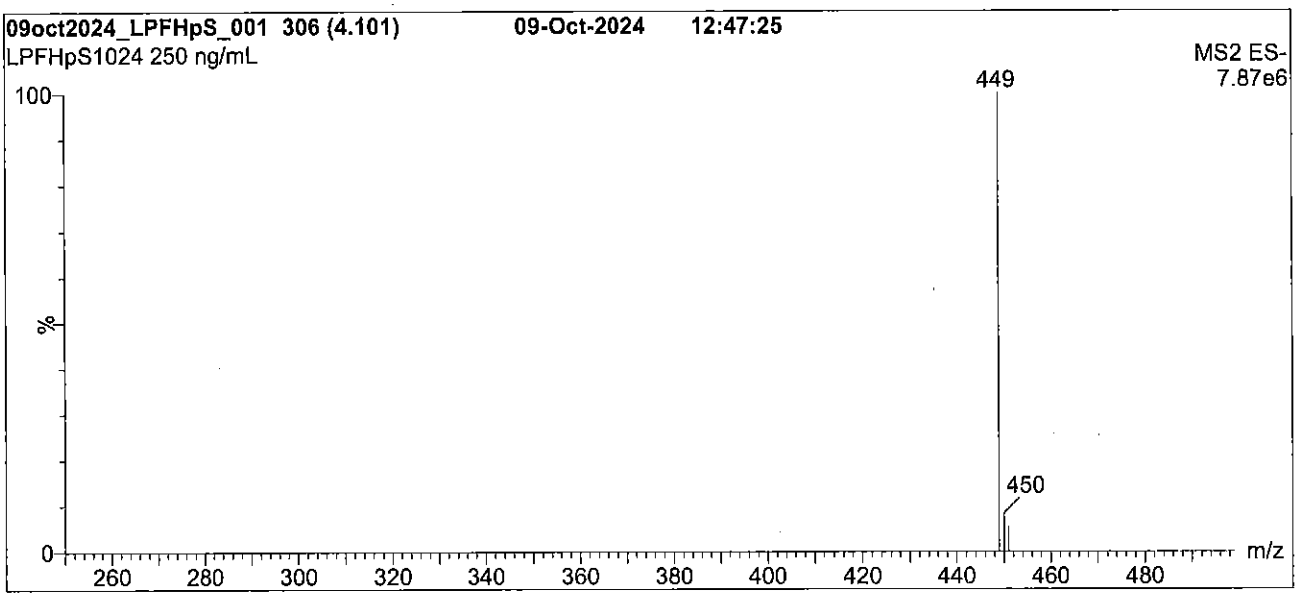
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **L-PFHpS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0.5 min.
Time: 12 min

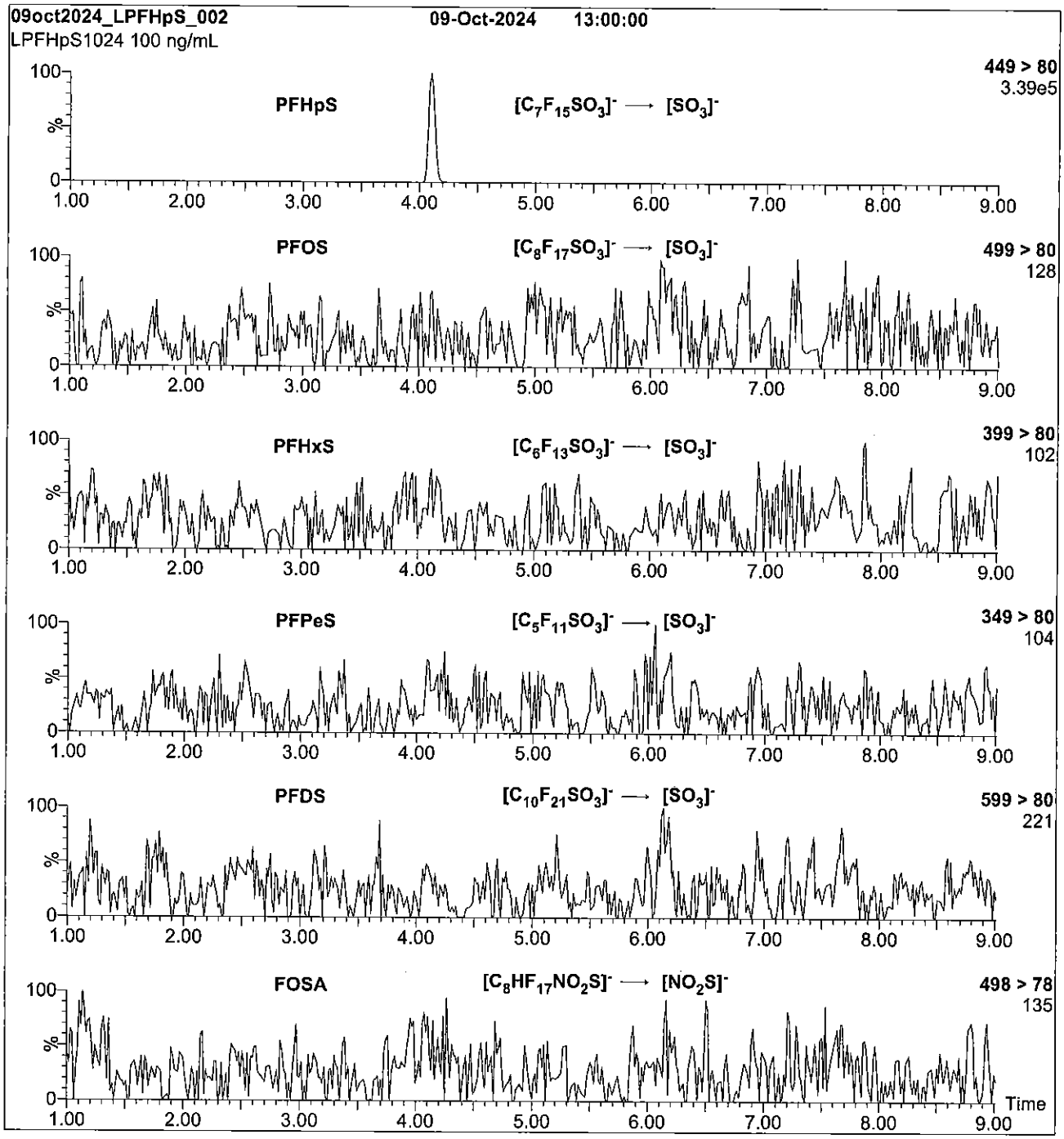
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **L-PFHpS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (L-PFHpS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.31e-3
Collision Energy (eV) = 42

Reagent

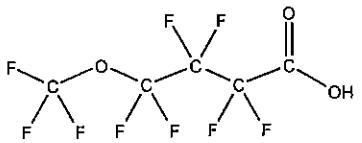
PFC_ST_03982

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PFC_ST_003982
PFC_ST_003983

PRODUCT CODE.	PF5OHxA	**LOT NUMBER.**	PF5OHxA0724
COMPOUND.	Perfluoro-5-oxahexanoic acid		
SYNONYM.	Perfluoro-4-methoxybutanoic acid (PFMBA)		
STRUCTURE.		**CAS #.**	863090-89-5



7626650
ID: PFC_ST_03982
Exp:07/11/29 Prpd:JVK6 Opn:
Native PF5OHxA Stock (PFECA A

7626651
ID: PFC_ST_03983
Exp:07/11/29 Prpd:JVK6 Opn:
Native PF5OHxA Stock (PFECA A

MOLECULAR FORMULA.	$C_5HF_8O_3$	**MOLECULAR WEIGHT:**	280 05
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	07/11/2024		
EXPIRY DATE. (mm/dd/yyyy)	07/11/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

410-7626650

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

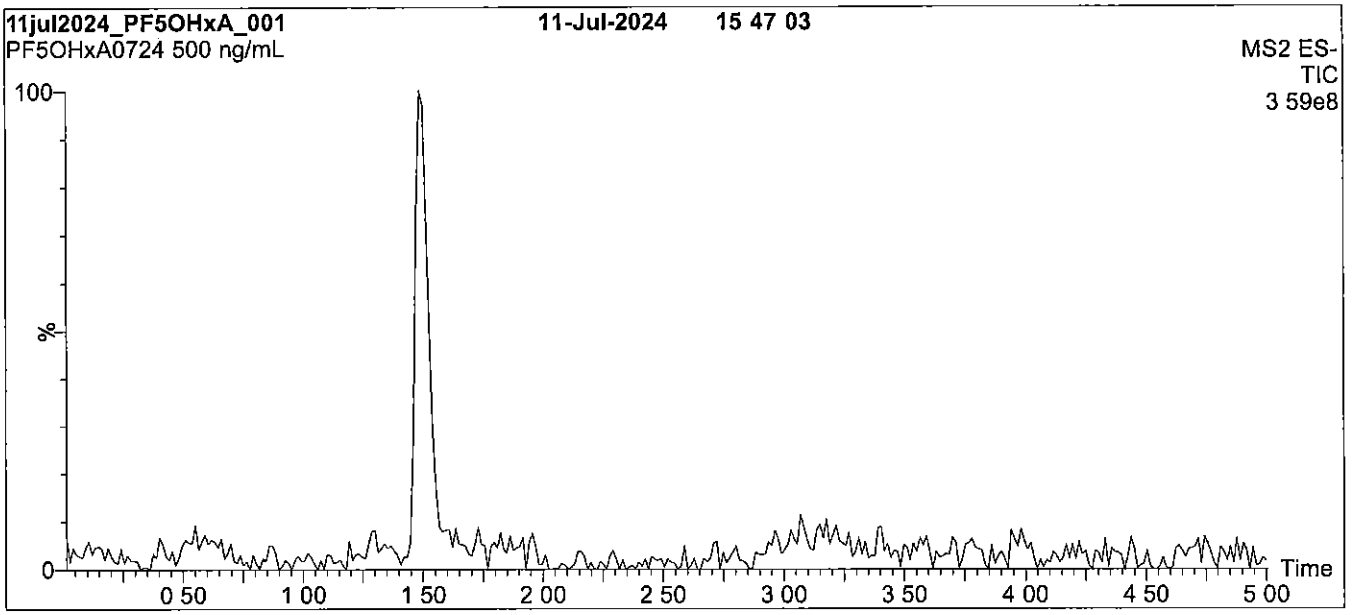
- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

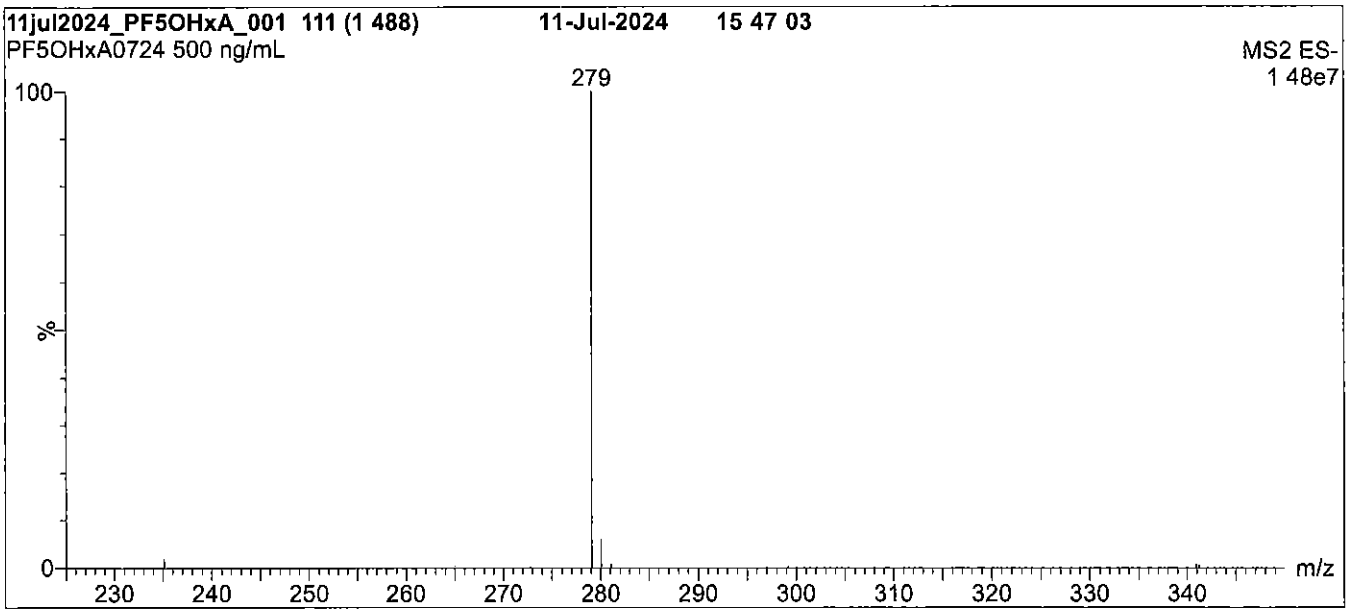
FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 07/12/2024 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

Figure 1. **PF5OHxA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP 18, 1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start 50% H_2O / 50% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 min and hold for 2 min
before returning to initial conditions in 0.5 min
Time 12 min

Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 0.50
Cone Voltage (V) = 14.50
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Reagent

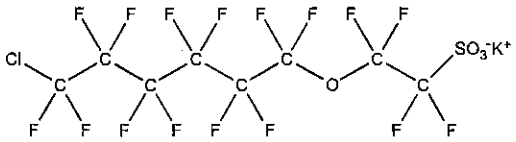
PFC_ST_03987

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-03986
PFC_ST_03987

PRODUCT CODE:	9Cl-PF3ONS	**LOT NUMBER:**	9ClPF3ONS0125
COMPOUND:	Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate		
STRUCTURE:		**CAS #:**	73606-19-6



410-7626657

MOLECULAR FORMULA:	$C_8F_{16}ClO_4SK$	**MOLECULAR WEIGHT:**	570.67
CONCENTRATION:	50.0 ± 2.5 µg/mL (K Salt)	**SOLVENT(S):**	Methanol
	46.7 ± 2.3 µg/mL (9Cl-PF3ONS acid)		
	46.6 ± 2.3 µg/mL (9Cl-PF3ONS anion)		
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	01/21/2025		
EXPIRY DATE: (mm/dd/yyyy)	01/21/2030		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- This compound is the major component of the commercial formulation known as F-53B.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 02/12/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

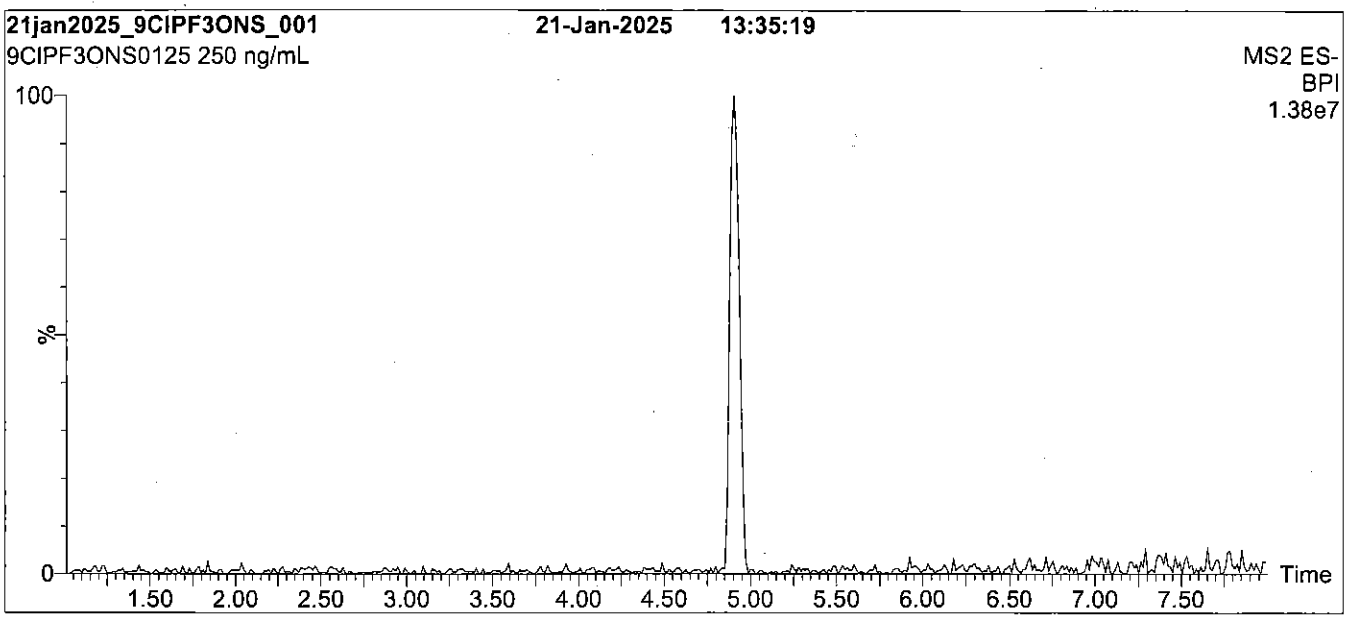
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

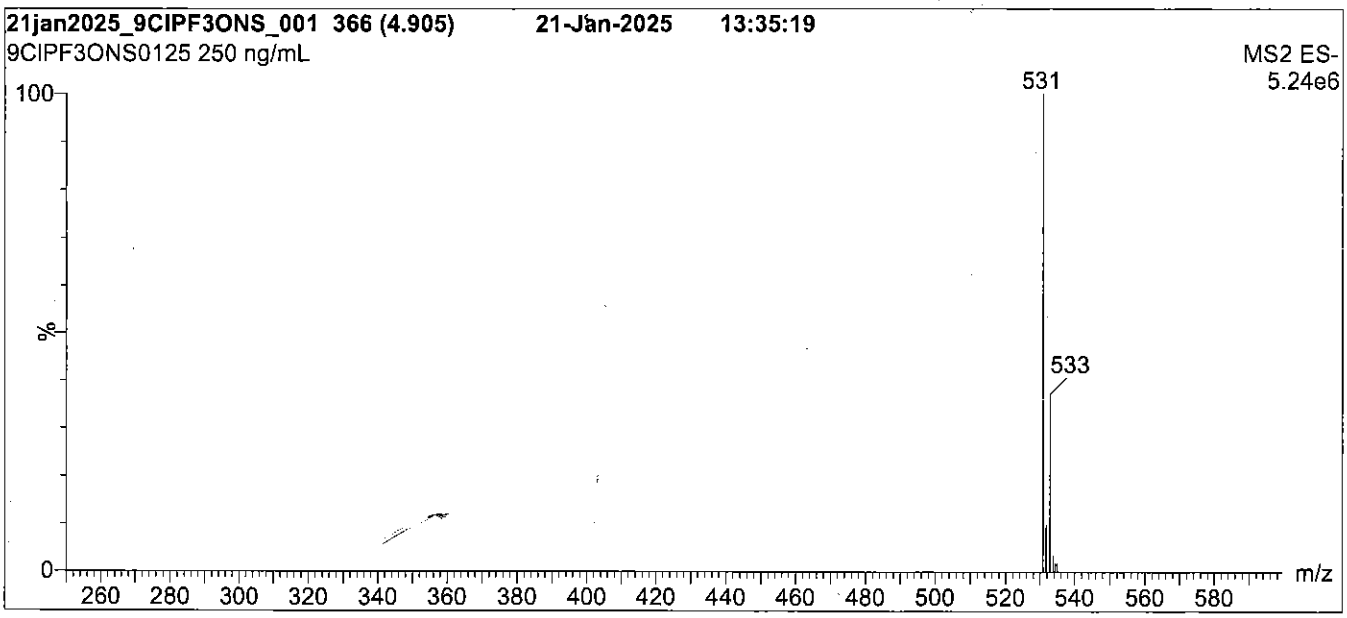
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **9Cl-PF3ONS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

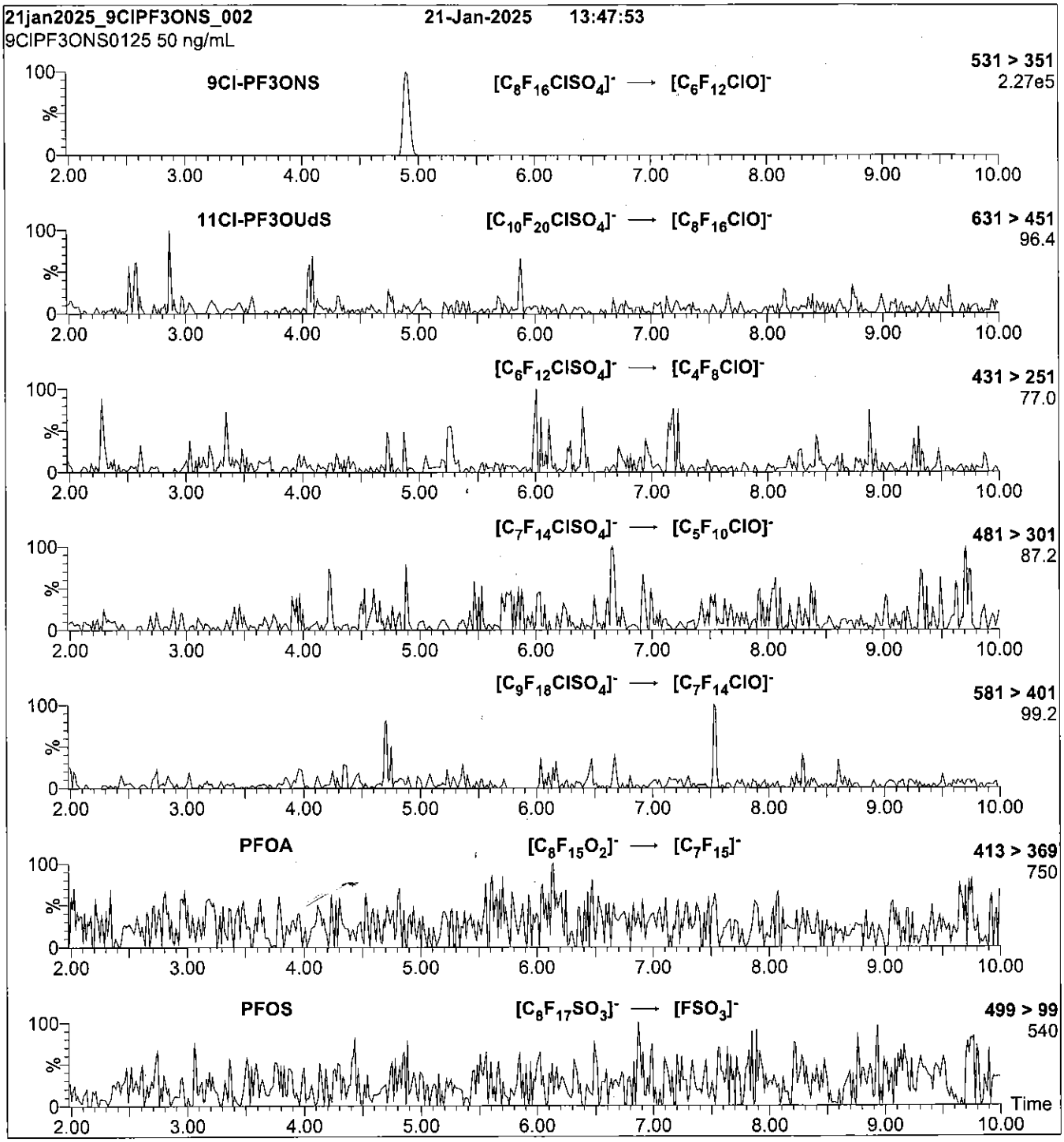
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **9Cl-PF3ONS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (9Cl-PF3ONS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.87e-3
Collision Energy (eV) = 20

Reagent

PFC_ST_03988

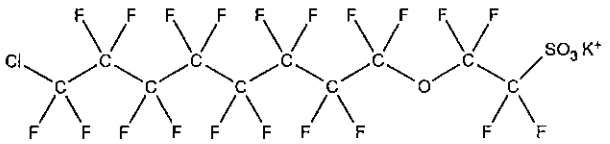
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_03988
PFC_ST_03989

PRODUCT CODE. 11Cl-PF3OUdS **LOT NUMBER.** 11ClPF3OUdS0125
COMPOUND. Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate

STRUCTURE. **CAS #.** 83329-89-9



7626672
ID: PFC_ST_03988
Exp:02/10/30 Prpd:JVK6 Opn:
Native 11Cl-PF3OUdS Stock

7626673
ID: PFC_ST_03989
Exp:02/10/30 Prpd:JVK6 Opn:
Native 11Cl-PF3OUdS Stock

MOLECULAR FORMULA.	$C_{10}F_{20}ClO_4SK$	**MOLECULAR WEIGHT:**	670 69
CONCENTRATION.	50 0 ± 2 5 µg/mL (K salt)	**SOLVENT(S).**	Methanol
	47 2 ± 2 4 µg/mL (11Cl-PF3OUdS acid)		
	47 1 ± 2 4 µg/mL (11Cl-PF3OUdS anion)		
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	02/10/2025		
EXPIRY DATE. (mm/dd/yyyy)	02/10/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

410-7626672

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

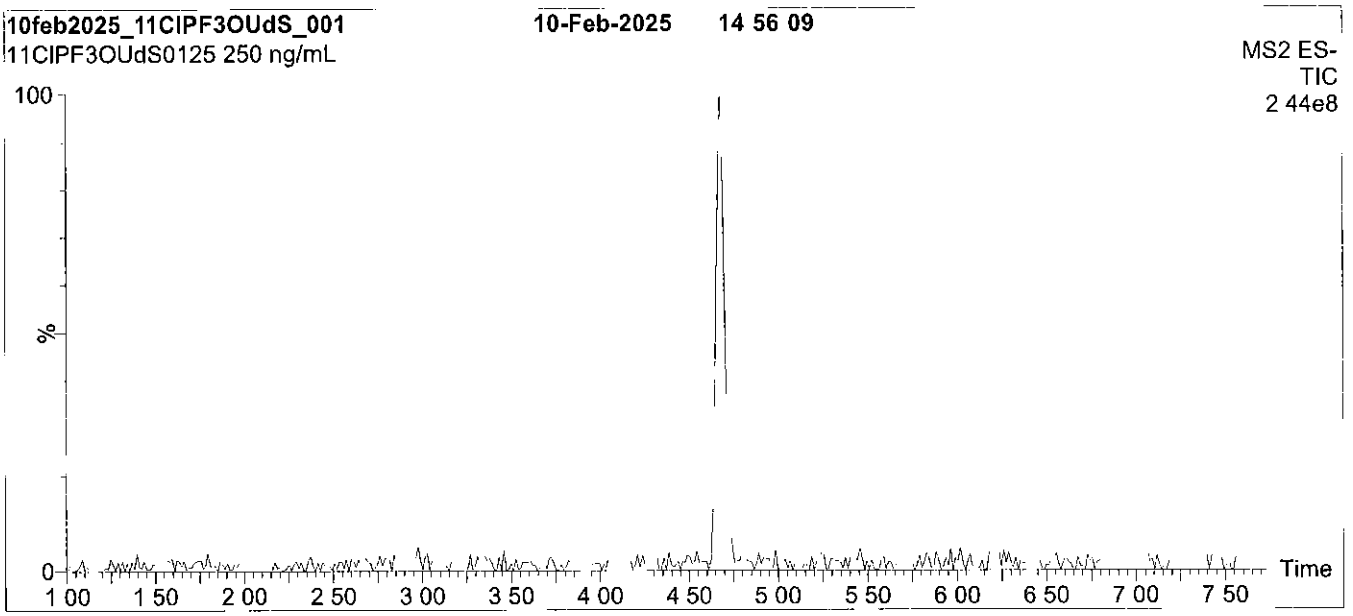
- See page 2 for further details
- This compound is a minor component of the commercial formulation known as F-53B
- Contains ~0 2% of potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS)

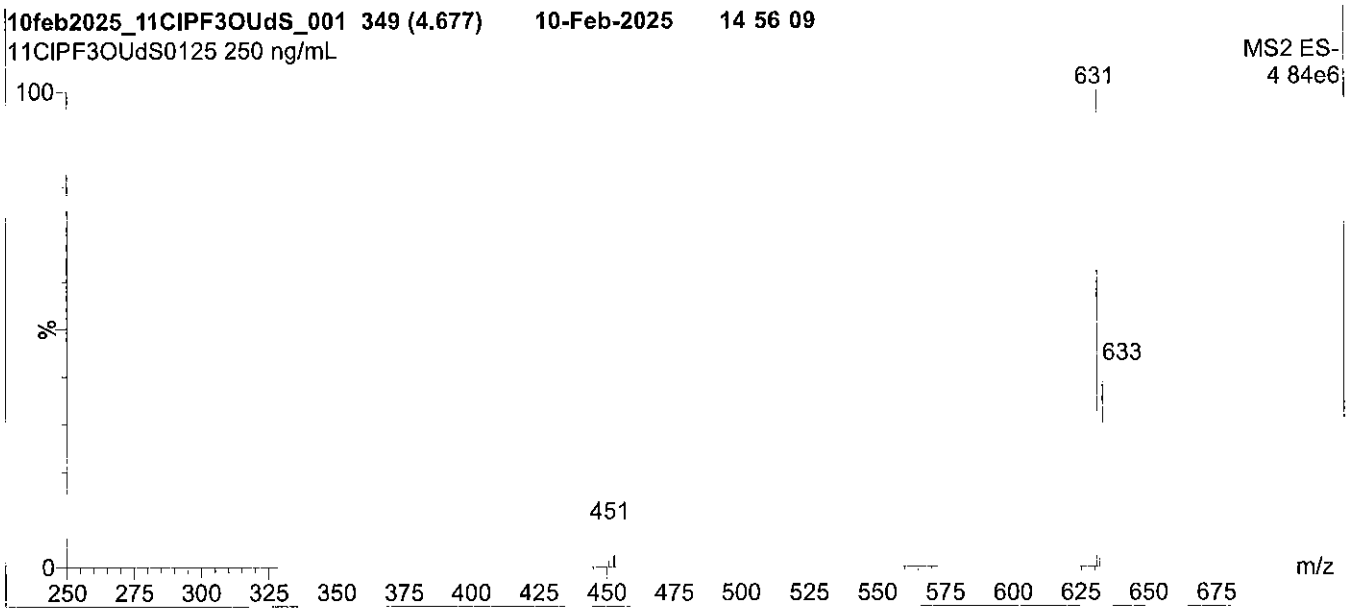
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Certified By _____ **Date·** 02/19/2025
(mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc , 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs com

Figure 1. **11Cl-PF3OUdS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start 40% H_2O / 60% (80.20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0 5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 70 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 750

Reagent

PFC_ST_03990

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

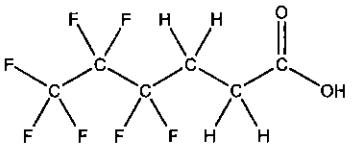
PFC_ST_03990
PFC_ST_03991

PRODUCT CODE. FPrPA
COMPOUND. 3-Perfluoropropyl propanoic acid

LOT NUMBER. FPrPA1024

STRUCTURE.

CAS #. 356-02 5



7626674
ID: PFC_ST_03990
Exp:10/18/29 Prpd:JVK6 Opn:
Native FPrPA Stock (3:3 FTCA)

7626696
ID: PFC_ST_03991
Exp:10/18/29 Prpd:JVK6 Opn:
Native FPrPA Stock (3:3 FTCA)

MOLECULAR FORMULA.	$C_6H_5F_7O_2$	**MOLECULAR WEIGHT:**	242 09
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	10/18/2024		
EXPIRY DATE. (mm/dd/yyyy)	10/18/2029		
RECOMMENDED STORAGE.	Refrigerate ampoule		

410-7626674

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

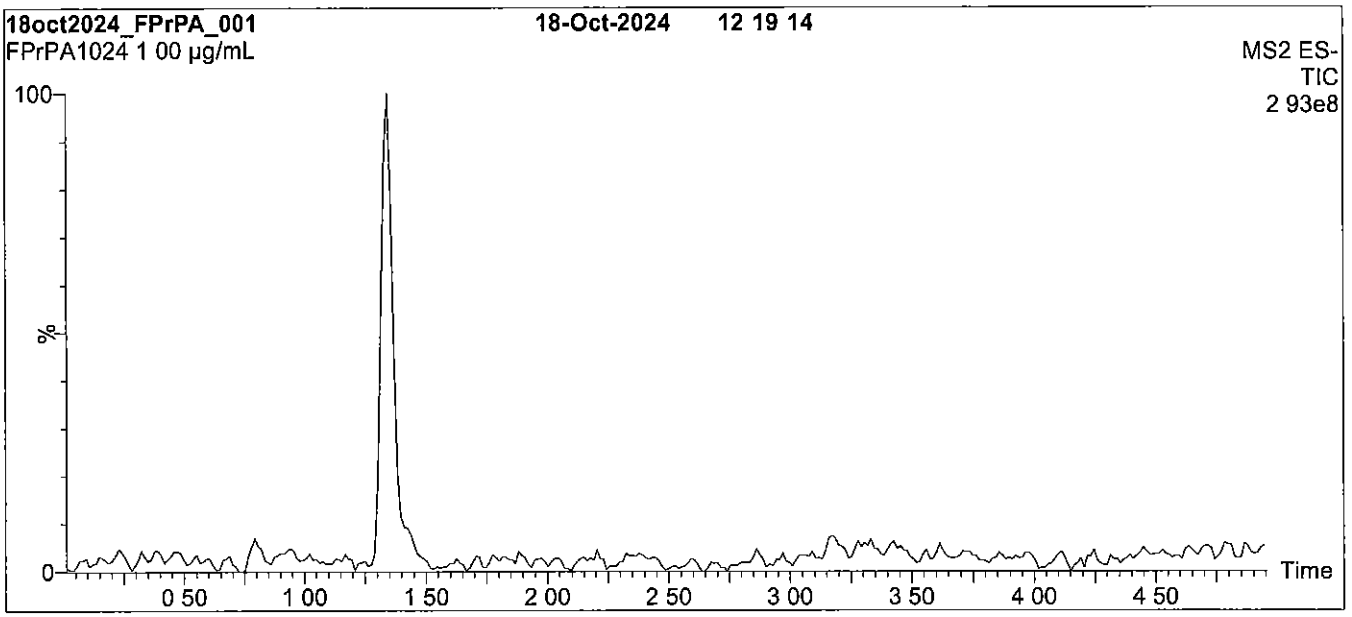
- See page 2 for further details
- Contains <1% of the unsaturated 3 3 telomer acid ($C_6H_3F_7O_2$) as an impurity determined by ^{19}F NMR

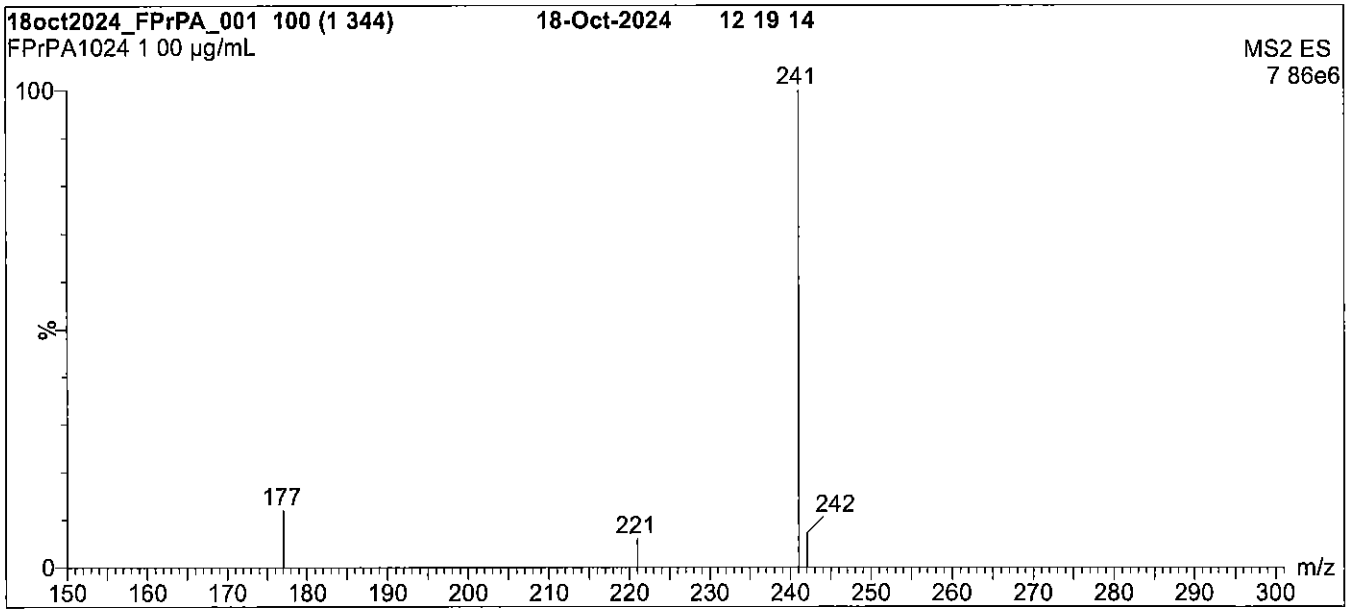
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Certified By _____ **Date** 10/31/2024
(mm/dd/yyyy)
B G. Chiltim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

Figure 1. **FPrPA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP 8, 1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 12 mln

Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 0.50
Cone Voltage (V) = 18 50
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Reagent

PFC_ST_04012

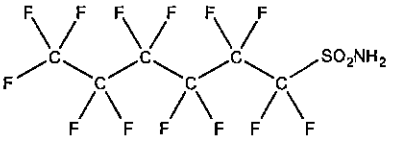
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST_04012
PFC-ST_04013

PRODUCT CODE. FHxSA-I
COMPOUND. Perfluoro-1-hexanesulfonamide
LOT NUMBER. FHxSA0424I

STRUCTURE.



CAS #. 41997-13-1

7626878
ID: PFC_ST_04012
Exp:04/ 7/29 Prpd:JVK6 Opn:
Native FHxSA Stock

7626881
ID: PFC_ST_04013
Exp:04/17/29 Prpd:JVK6 Opn:
Native FHxSA Stock

MOLECULAR FORMULA.	$C_6H_2F_{13}NO_2S$	**MOLECULAR WEIGHT:**	399 13
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Isopropanol
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	04/17/2024		
EXPIRY DATE. (mm/dd/yyyy)	04/17/2029		
RECOMMENDED STORAGE.	Refrigerate ampoule		

410-7626878

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

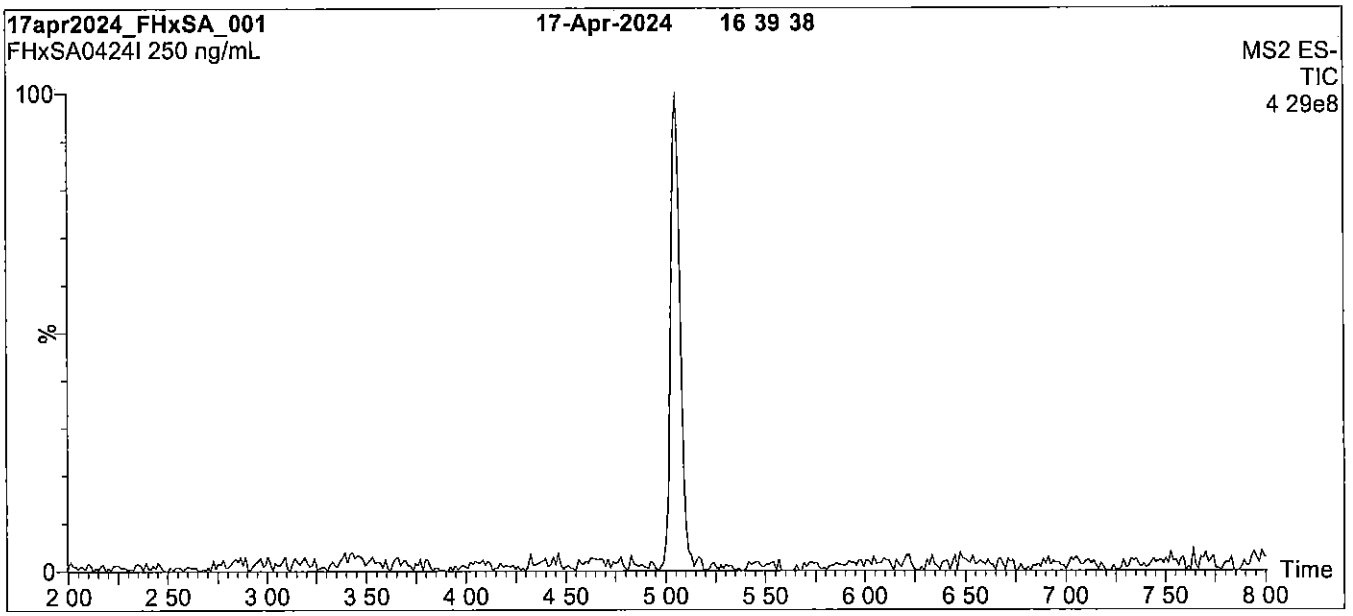
- See page 2 for further details

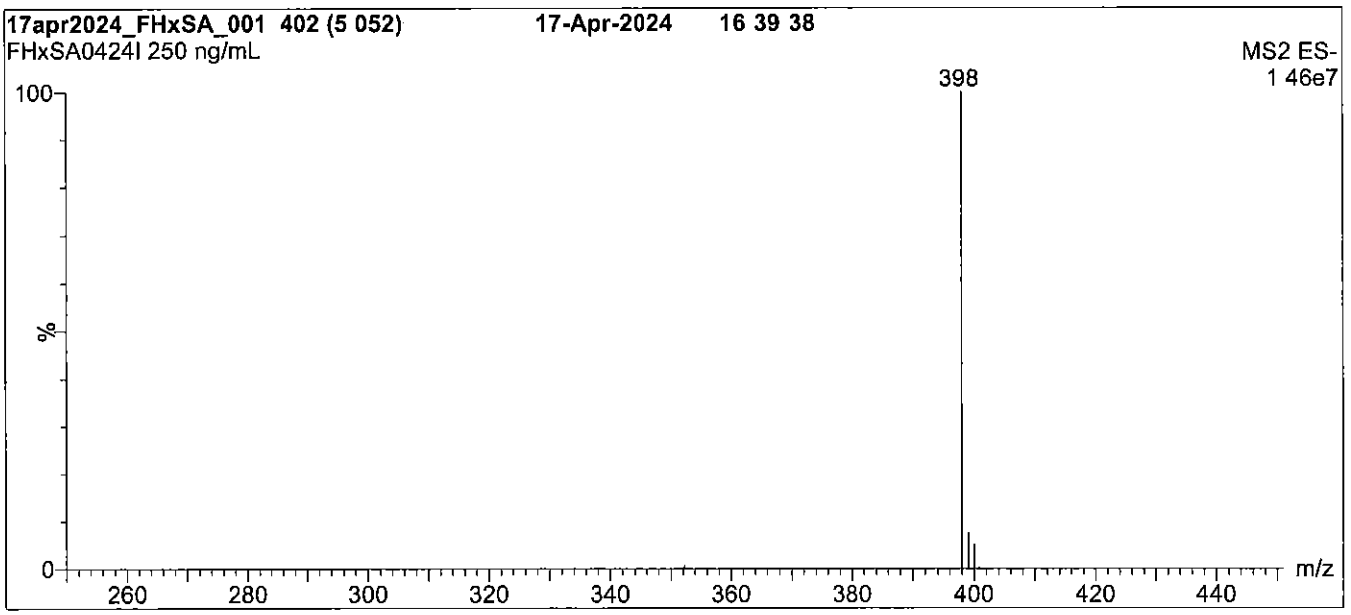
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Certified By B G. Chittim General Manager **Date** 04/22/2024 (mm/dd/yyyy)

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519-822-2436 • Fax 519-822-2849 • info@well-labs.com

Figure 1. **FHxSA-I, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start 50% H_2O / 50% (80 20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 mln and hold for 2 min
before returning to initial conditions in 0 5 min
Time 12 min

Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 1 50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Reagent

PFC_ST_04048

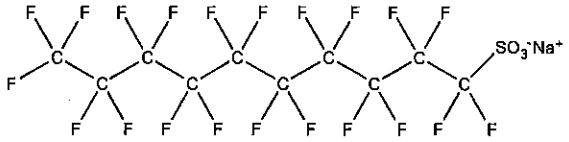
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-04044
PFC-ST-04048

PRODUCT CODE: L-PFDS
LOT NUMBER: LPFDS0624
COMPOUND: Sodium perfluoro-1-decanesulfonate

STRUCTURE:



CAS #: 2806-15-7

410-7626953

410-7626956

MOLECULAR FORMULA:	$C_{10}F_{21}SO_3Na$	**MOLECULAR WEIGHT:**	622.13
CONCENTRATION:	50.0 ± 2.5 µg/mL (Na salt)	**SOLVENT(S):**	Methanol
	48.2 ± 2.4 µg/mL (PFDS acid)		
	48.2 ± 2.4 µg/mL (PFDS anion)		
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	06/21/2024		
EXPIRY DATE: (mm/dd/yyyy)	06/21/2029		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~0.3% of sodium perfluoro-1-dodecanesulfonate (L-PFDoS).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 06/25/2024 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

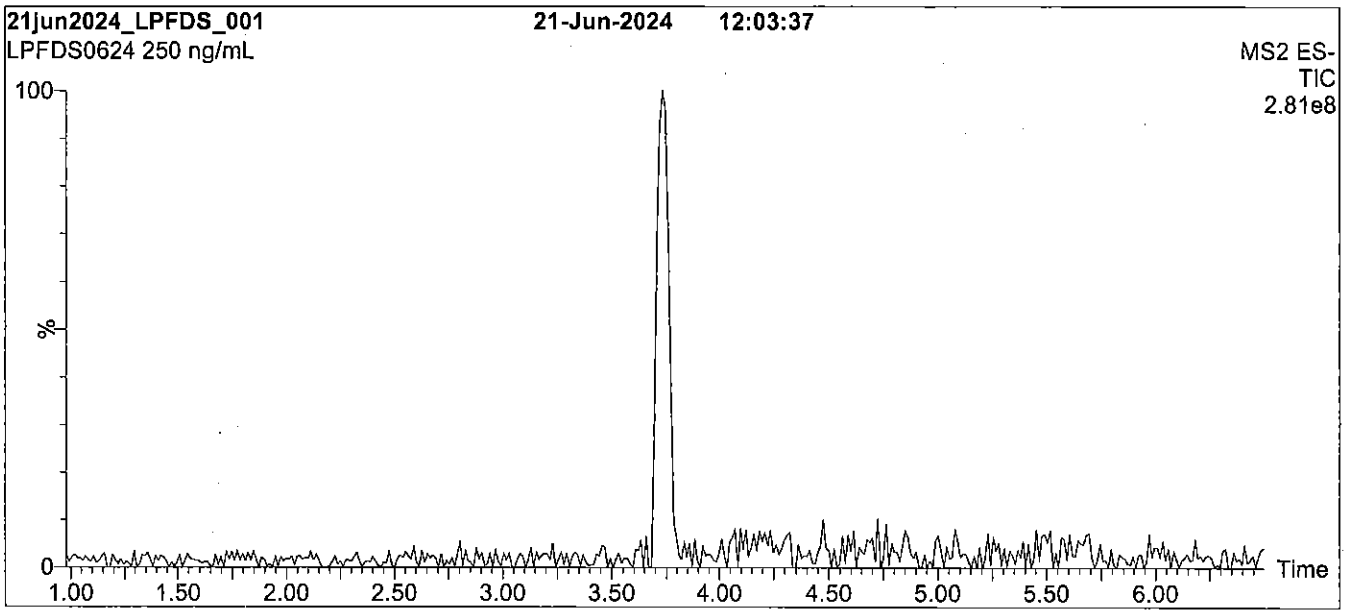
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

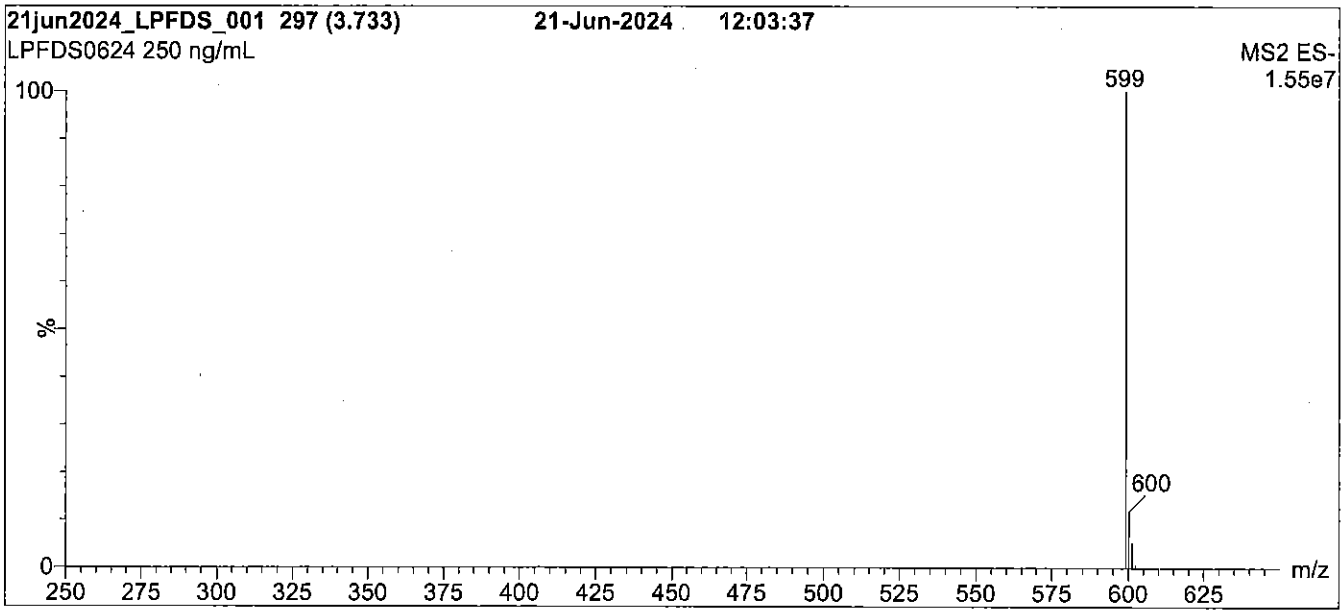
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at Info@well-labs.com

Figure 1: **L-PFDS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 min and hold for
2 min before returning to initial conditions in 0.5 min.
Time: 12 min

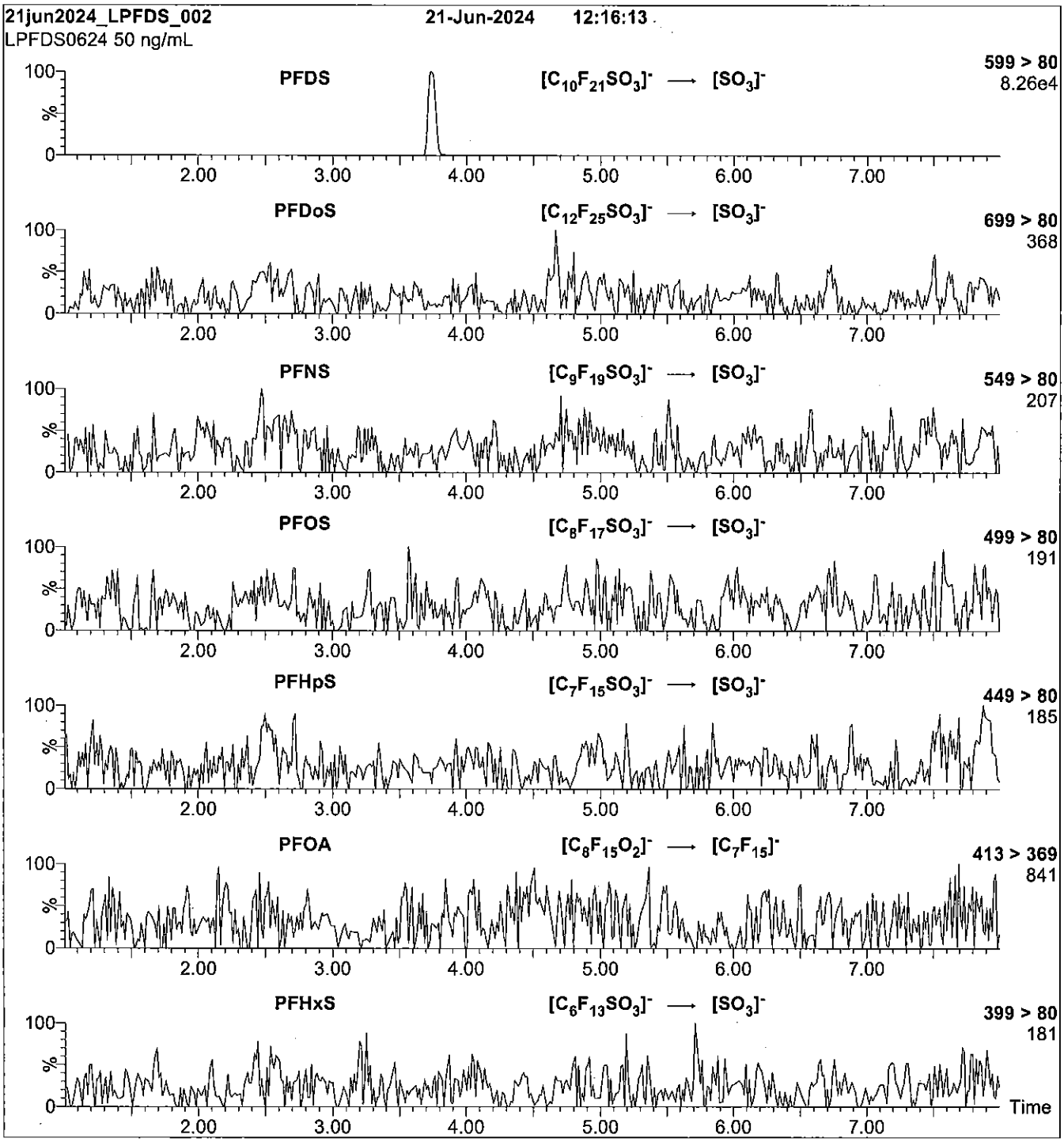
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **L-PFDS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (L-PFDS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.83-3
Collision Energy (eV) = 56

Reagent

PFC_ST_04051

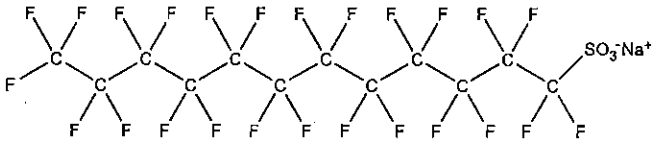
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST_040S1
PFC-ST_040S3

PRODUCT CODE: L-PFDoS
LOT NUMBER: LPFDoS1124
COMPOUND: Sodium perfluoro-1-dodecanesulfonate

STRUCTURE:



CAS #: 1260224-54-1

410-7626982

410-7626984

MOLECULAR FORMULA:	$C_{12}F_{25}SO_3Na$
MOLECULAR WEIGHT:	722.14
CONCENTRATION:	50.0 ± 2.5 µg/mL (Na salt) 48.5 ± 2.4 µg/mL (PFDoS acid) 48.4 ± 2.4 µg/mL (PFDoS anion)
SOLVENT(S):	Methanol
CHEMICAL PURITY:	>98%
LAST TESTED: (mm/dd/yyyy)	11/11/2024
EXPIRY DATE: (mm/dd/yyyy)	11/11/2029
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~0.6% perfluoro-n-dodecanoic acid (PFDoA) and ~0.6% sodium perfluoro-1-undecanesulfonate (L-PFUdS)

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 11/28/2024 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

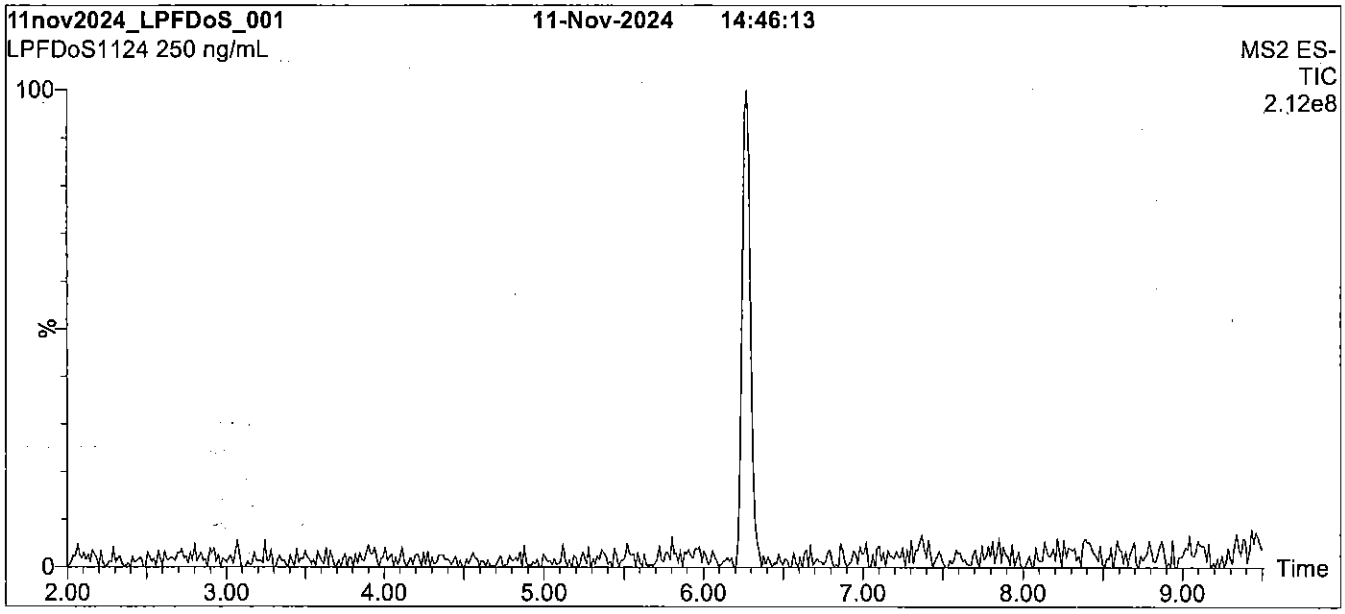
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

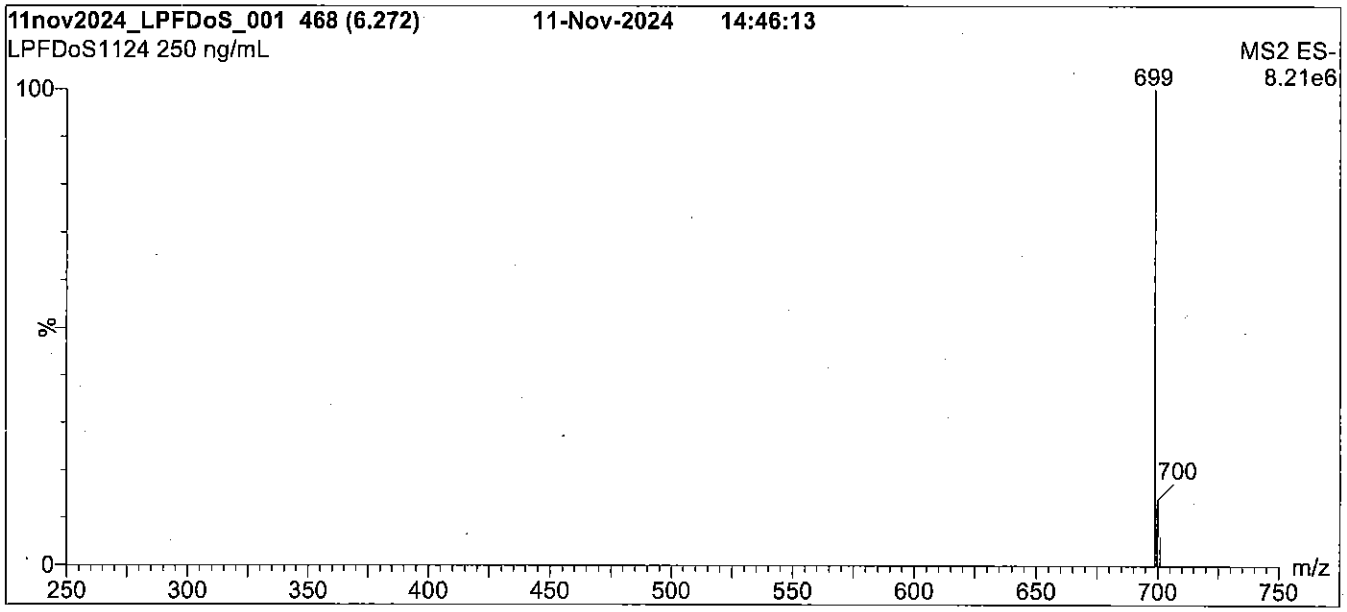
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **L-PFDoS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

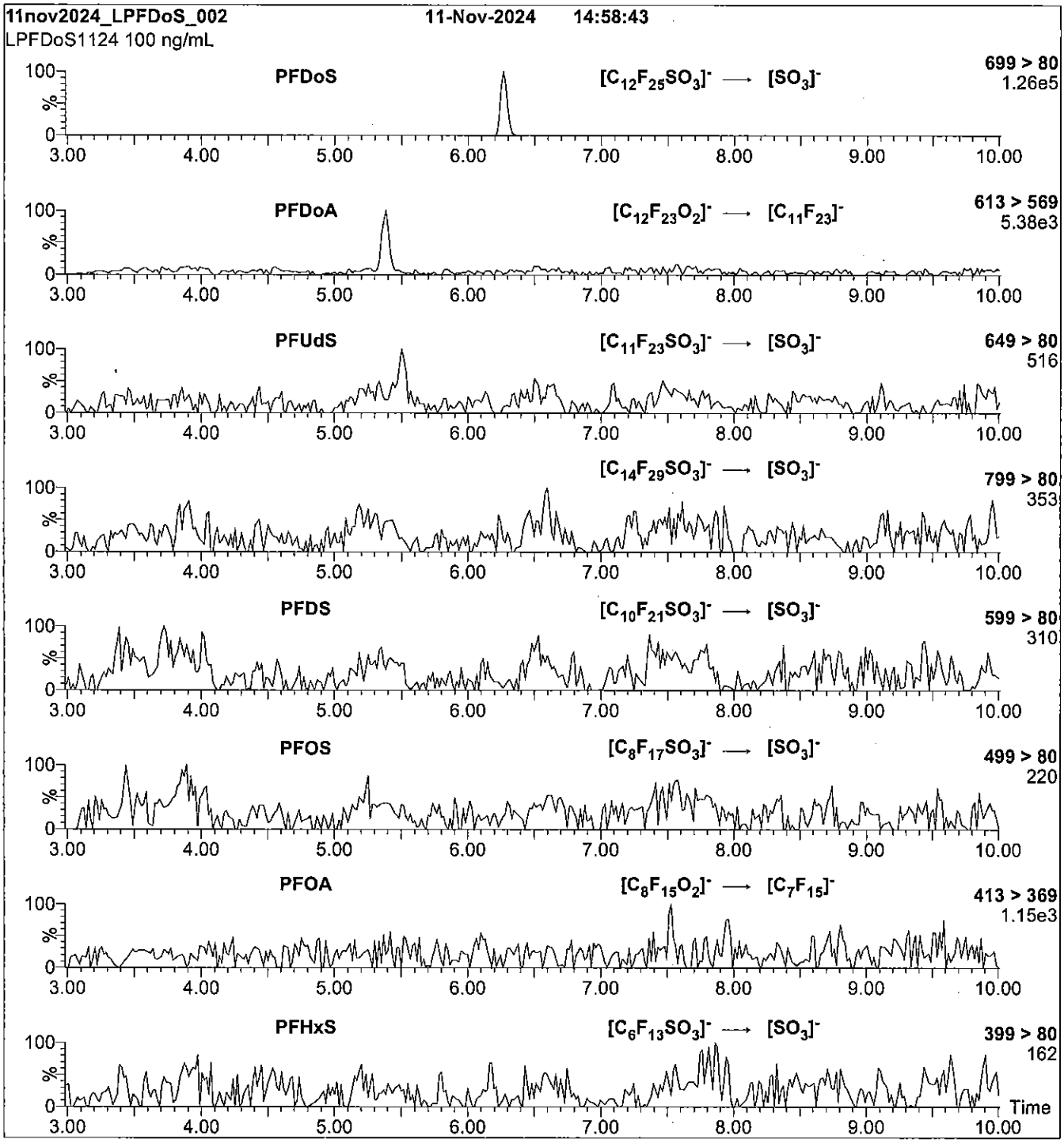
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **L-PFDoS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (L-PFDoS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 6.40e-3
Collision Energy (eV) = 60

Reagent

PFC_ST_04080

WELLINGTON LABORATORIES

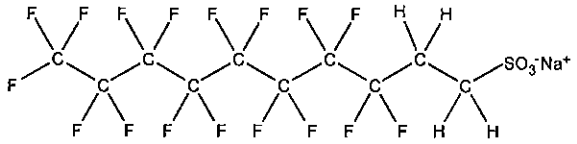
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-04080
PFC-ST-04083

PRODUCT CODE: 8:2FTS **LOT NUMBER:** 82FTS0624

COMPOUND: Sodium 1H,1H,2H,2H-perfluorodecanesulfonate

STRUCTURE: **CAS #:** 27619-96-1



410-7627089

410-7627091

MOLECULAR FORMULA:	$C_{10}H_4F_{17}SO_3Na$	**MOLECULAR WEIGHT:**	550.16
CONCENTRATION:	50.0 ± 2.5 µg/mL (Na salt) 48.0 ± 2.4 µg/mL (8:2FTS acid) 47.9 ± 2.4 µg/mL (8:2FTS anion)	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	06/13/2024		
EXPIRY DATE: (mm/dd/yyyy)	06/13/2029		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 06/13/2024 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • Info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

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SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

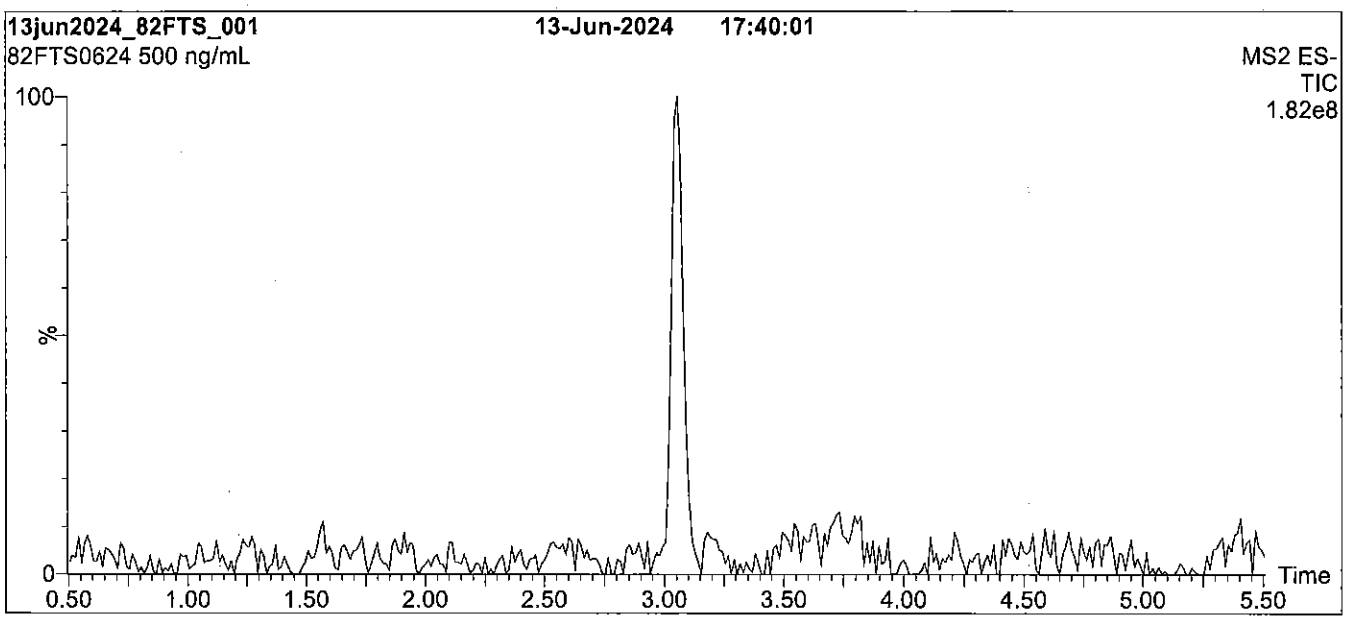
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

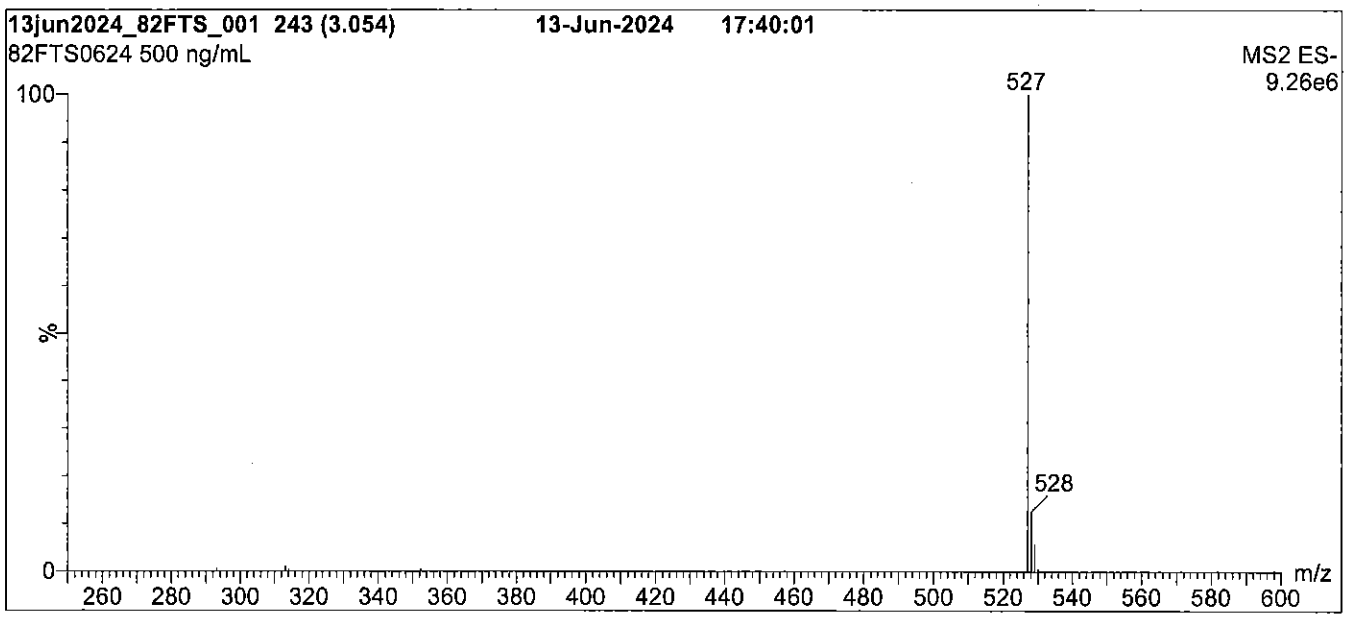
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **8:2FTS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 min and hold for 2 min
before returning to initial conditions in 0.5 min.
Time: 12 min

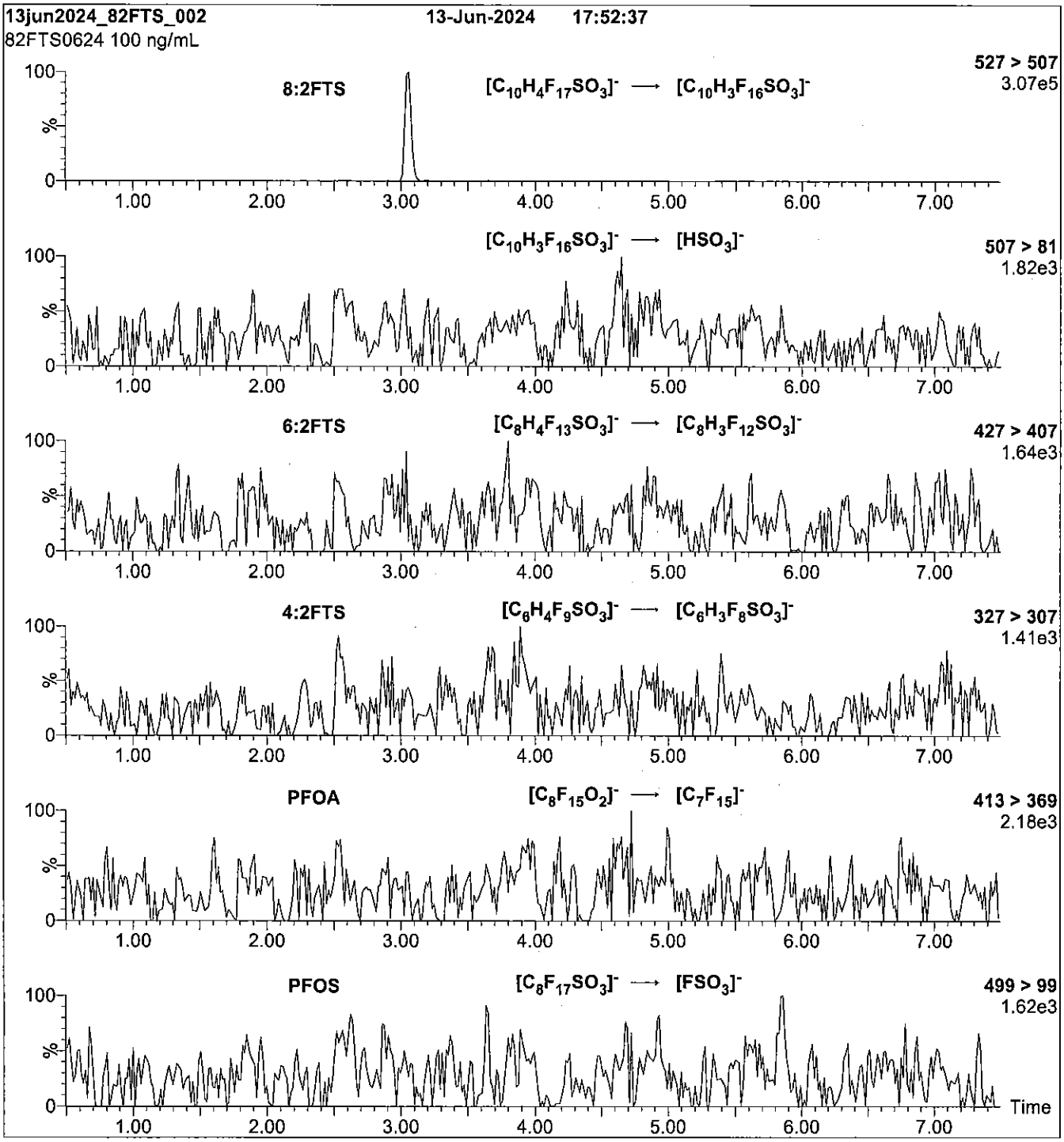
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Desolvation Temperature (°C)= 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **8:2FTS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (8:2FTS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.30e-3
Collision Energy (eV) = 26

Reagent

PFC_ST_04130

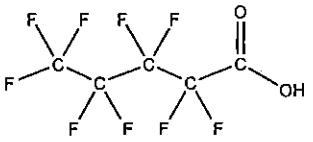
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PFC_ST_04130
PFC_ST_04131

PRODUCT CODE. PFPeA
COMPOUND. Perfluoro-n-pentanoic acid
LOT NUMBER. PFPeA0924

STRUCTURE.
CAS #. 2706-90-3



7627517
ID: PFC_ST_04130
Exp:09/20/29 Prpd:JVK6 Opn:
Native PFPeA Stock

7627521
ID: PFC_ST_04131
Exp:09/20/29 Prpd:JVK6 Opn:
Native PFPeA Stock

MOLECULAR FORMULA.	$C_5HF_9O_2$	**MOLECULAR WEIGHT:**	264 05
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	09/20/2024		
EXPIRY DATE. (mm/dd/yyyy)	09/20/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

410-7627517

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

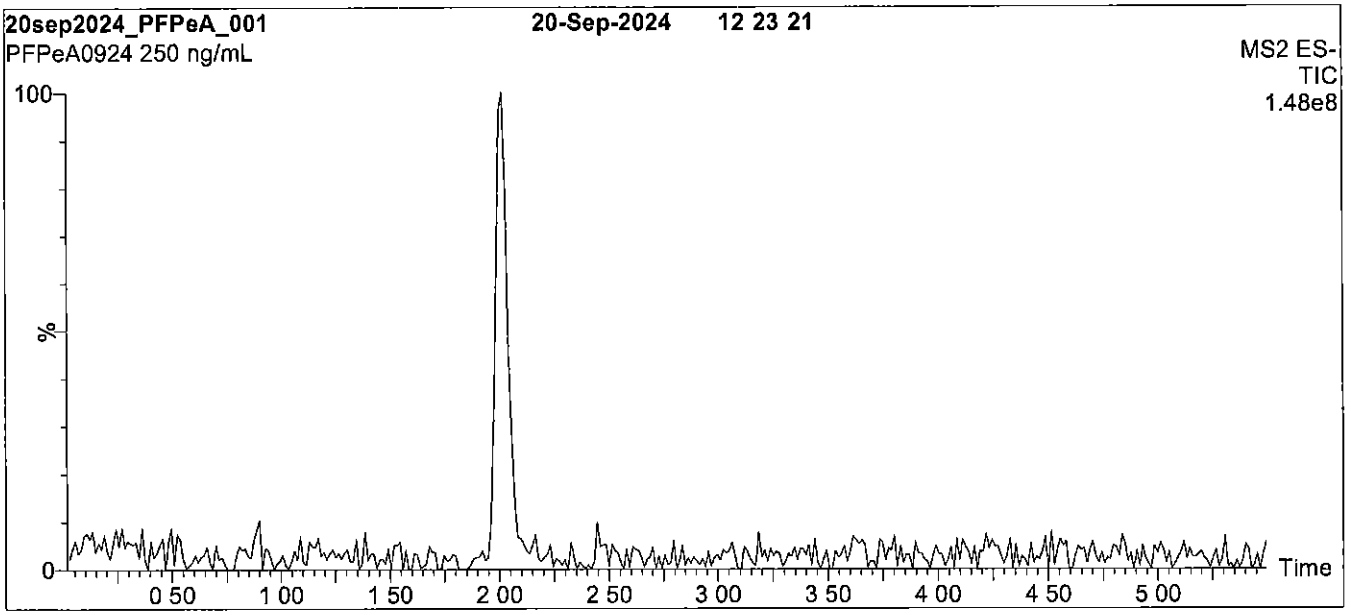
- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

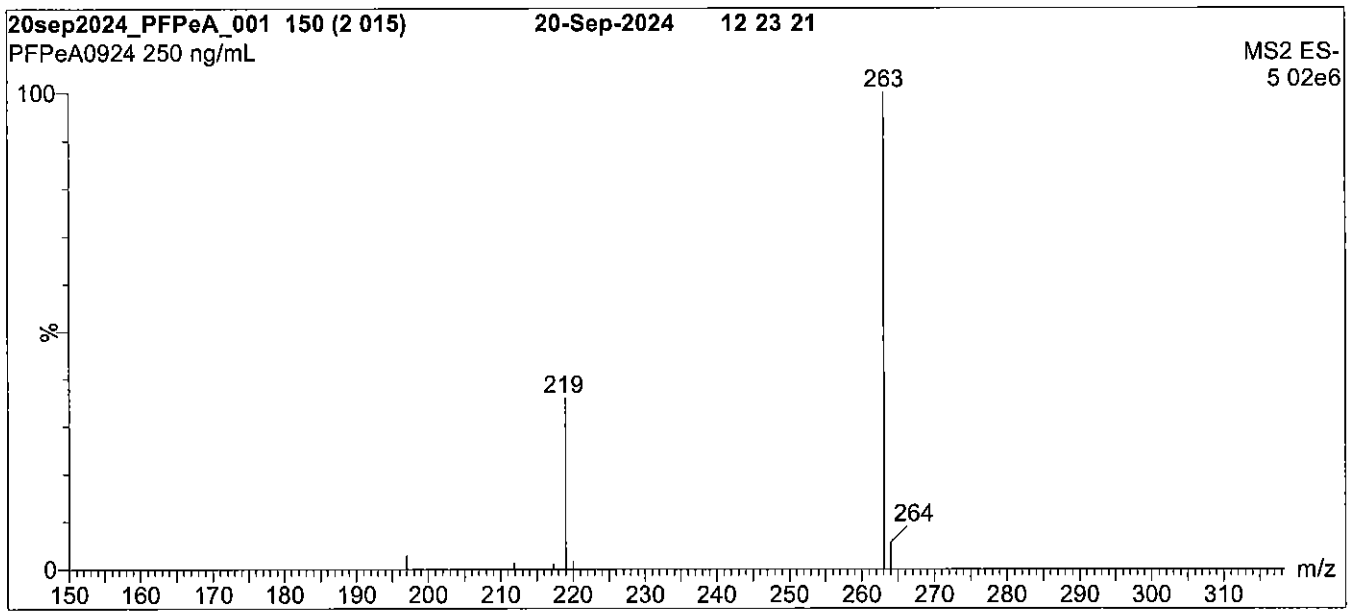
FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date** 09/25/2024 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

Figure 1. **PFPeA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start 60% H_2O / 40% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 12 min

Flow: 300 µL/min

MS Parameters.

Experiment. Full Scan (150 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Reagent

PFC_ST_04132

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

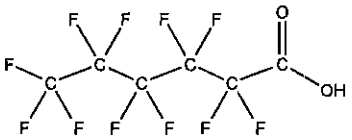
PFC_ST_04132
PFC_ST_04133

PRODUCT CODE. PFHxA
COMPOUND. Perfluoro-n-hexanoic acid

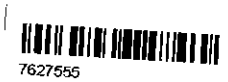
LOT NUMBER. PFHxA0325

STRUCTURE.

CAS #: 307-24-4







MOLECULAR FORMULA.	$C_6HF_{11}O_2$	**MOLECULAR WEIGHT:**	314 05
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	03/31/2025		
EXPIRY DATE: (mm/dd/yyyy)	03/31/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		



DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

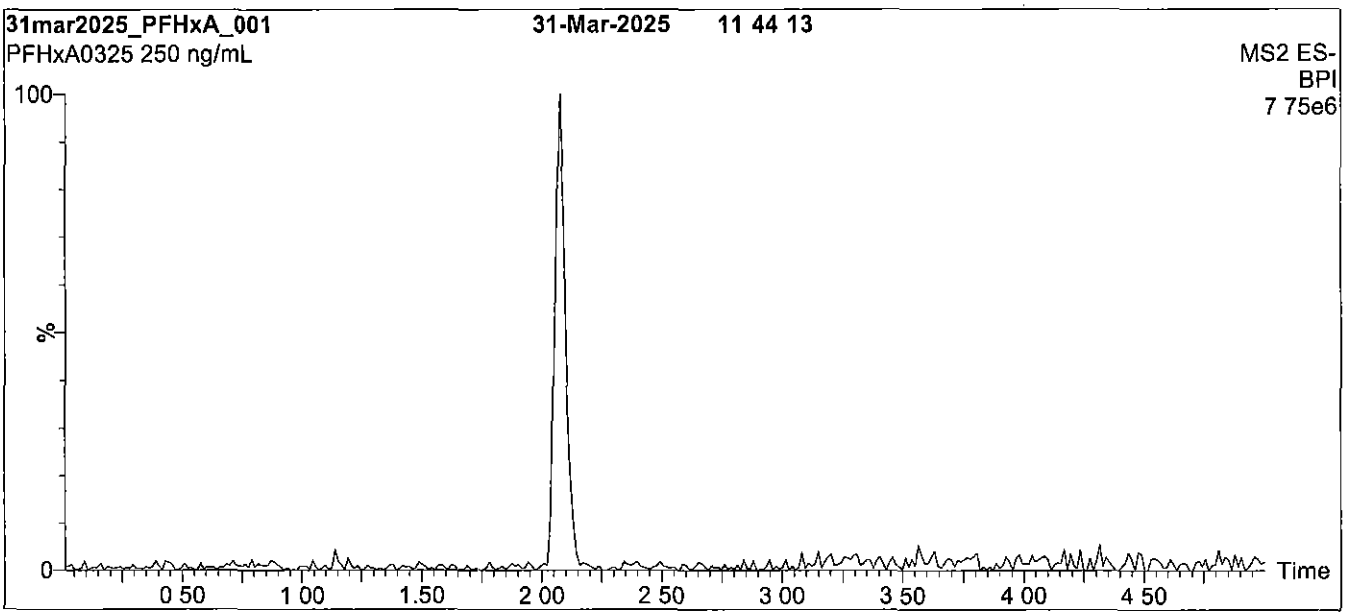
- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

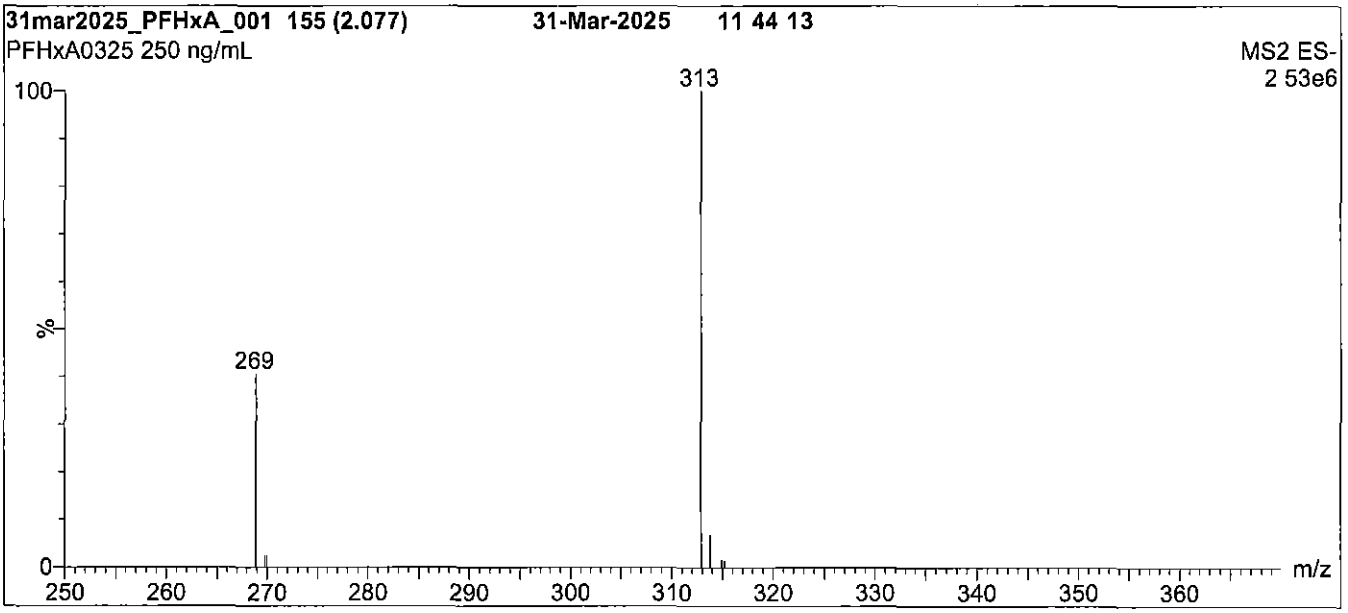
FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By. _____ **Date** 04/04/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc , 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs com

Figure 1. **PFHxA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start. 50% H_2O / 50% (80:20 MeOH ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 12 min

Flow: *300 µL/min*

MS Parameters.

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Reagent

PFC_ST_04167

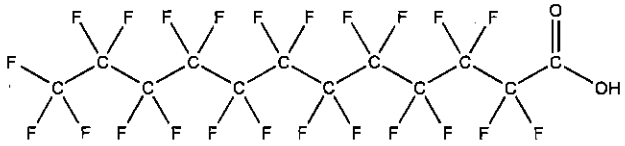
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_041666
PFC_ST_041667

PRODUCT CODE: PFDoA
LOT NUMBER: PFDoA1124
COMPOUND: Perfluoro-n-dodecanoic acid

STRUCTURE:



CAS #: 307-55-1

7628568
ID: PFC_ST_04166
Exp:11/11/29 Prpd:RPU6 Opn:
Native PFDoA Stock

7628569
ID: PFC_ST_04167
Exp:11/11/29 Prpd:RPU6 Opn:
Native PFDoA Stock

MOLECULAR FORMULA: $C_{12}HF_{23}O_2$
MOLECULAR WEIGHT: 614.10
CONCENTRATION: 50.0 ± 2.5 µg/mL
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 11/11/2024
EXPIRY DATE: (mm/dd/yyyy) 11/11/2029
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

410-7628568

410-7628569

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 11/27/2024
(mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

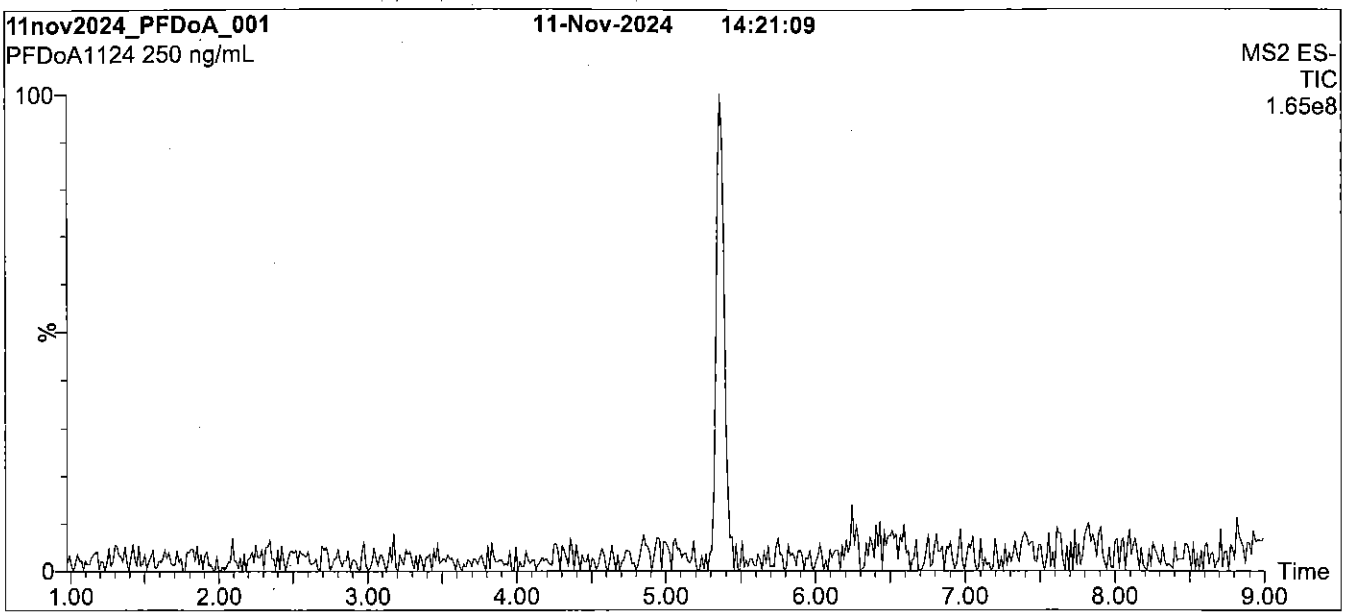
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

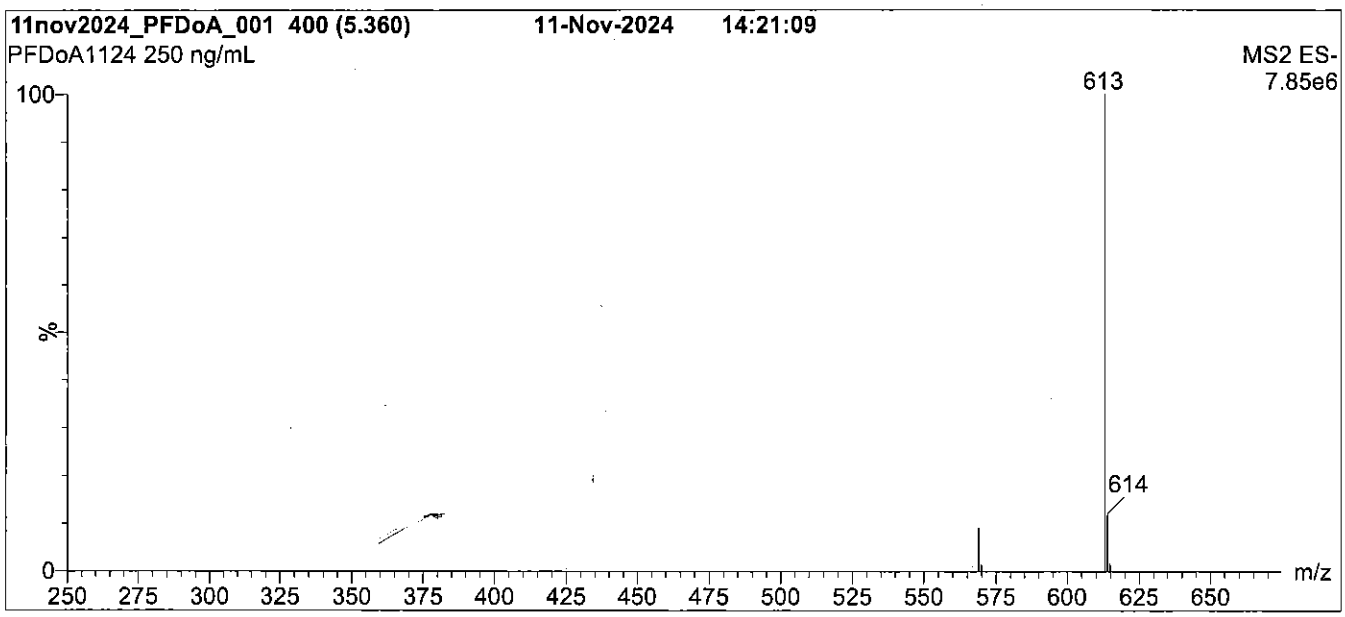
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **PFDoA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

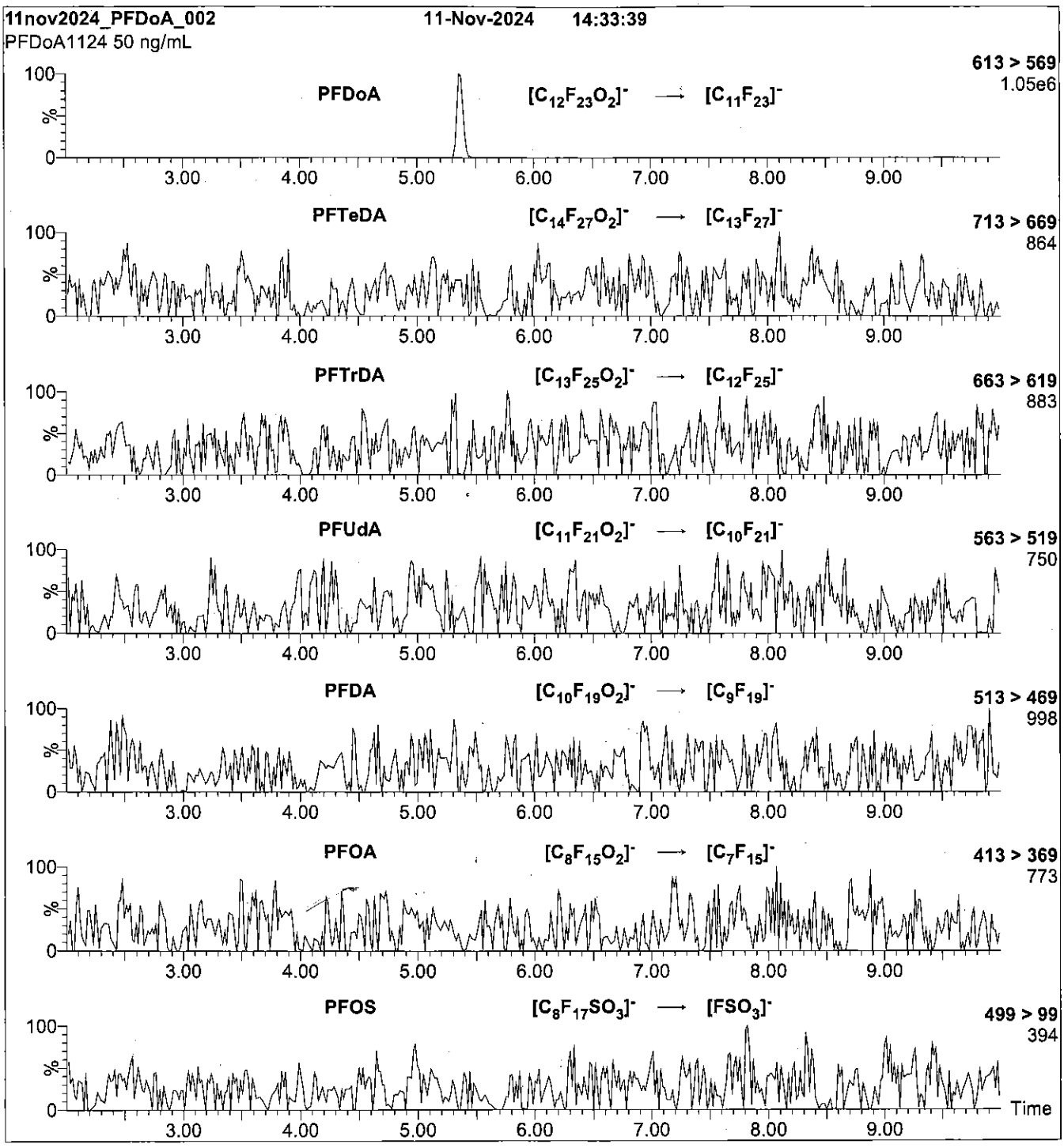
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **PFDoA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFDoA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 6.40e-3
Collision Energy (eV) = 12

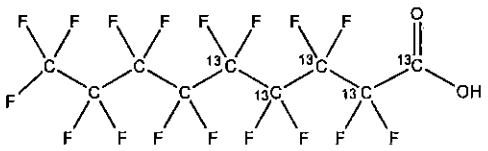
Reagent

PFC_ST_04183

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	MPFNA	**LOT NUMBER.**	MPFNA1024
COMPOUND.	Perfluoro-n-(1 2 3,4,5 $^{13}C_5$)nonanoic acid		
STRUCTURE.		**CAS #:**	960315-49-5




7639443
ID: PFC_ST_04182
Exp:10/07/29 Prpd:P7EB Opn:
Labeled 13C5 PFNA Stock


7639444
ID: PFC_ST_04183
Exp:10/07/29 Prpd:P7EB Opn:
Labeled 13C5 PFNA Stock

MOLECULAR FORMULA.	$^{13}C_5{}^{12}C_4HF_{17}O_2$	**MOLECULAR WEIGHT:**	469 04
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY.**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	10/07/2024		
EXPIRY DATE. (mm/dd/yyyy)	10/07/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		


410-7639444

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 10/17/2024
(mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

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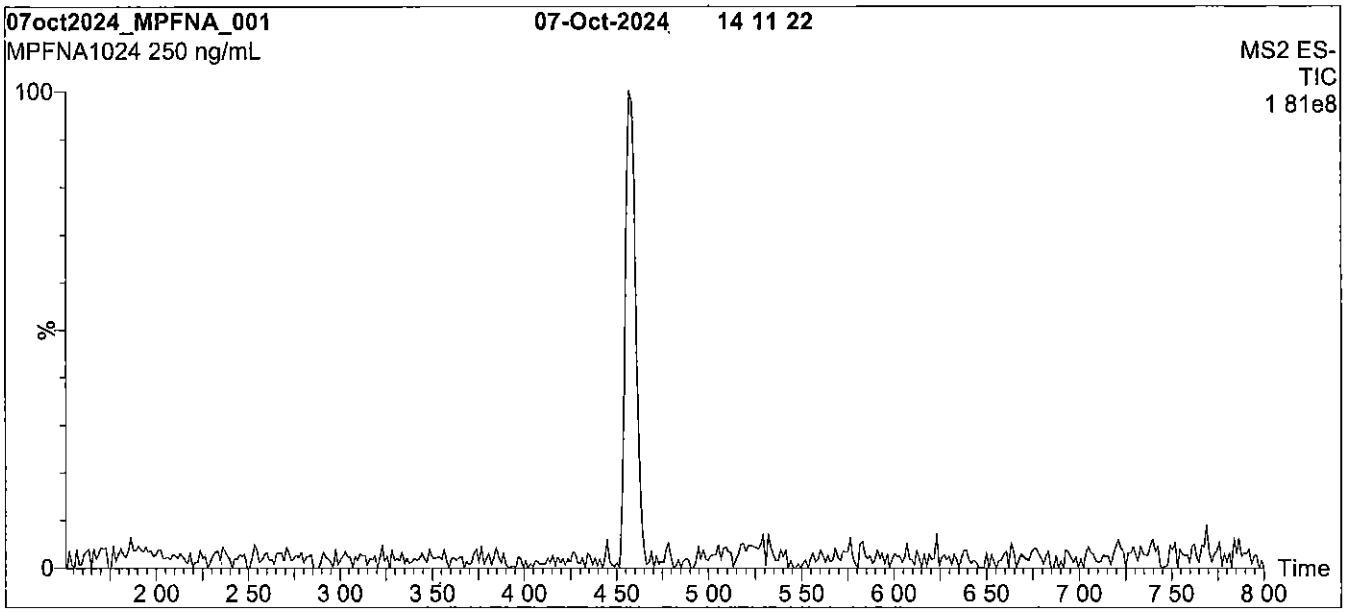
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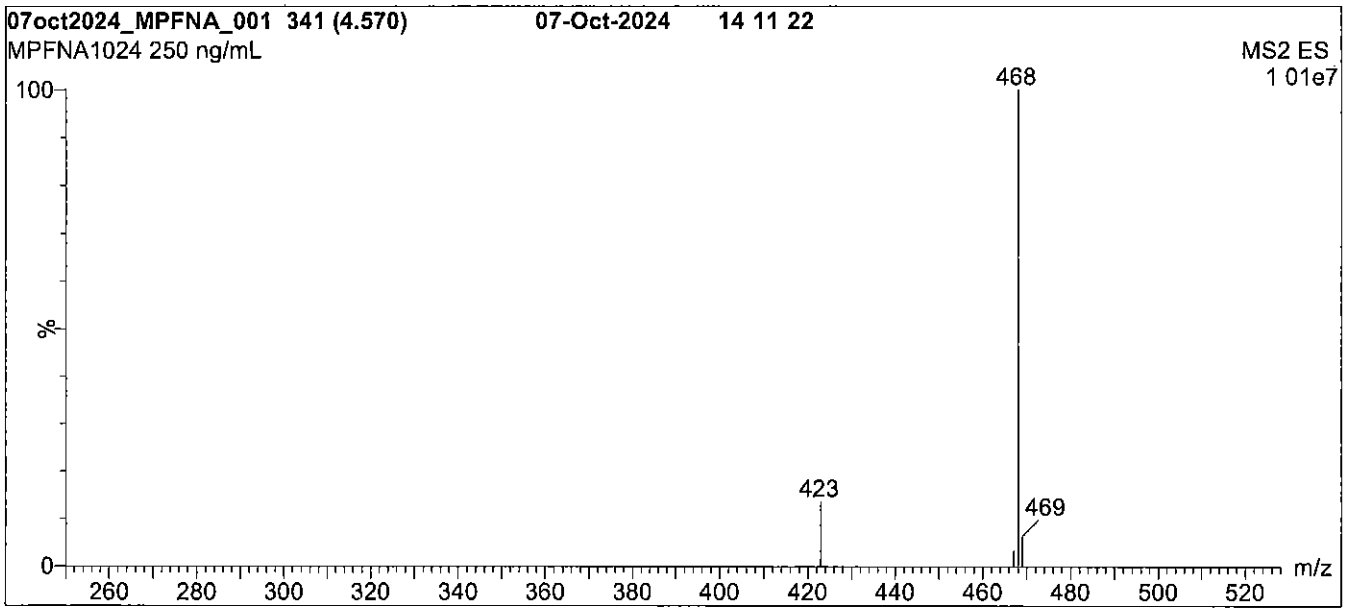
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFNA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

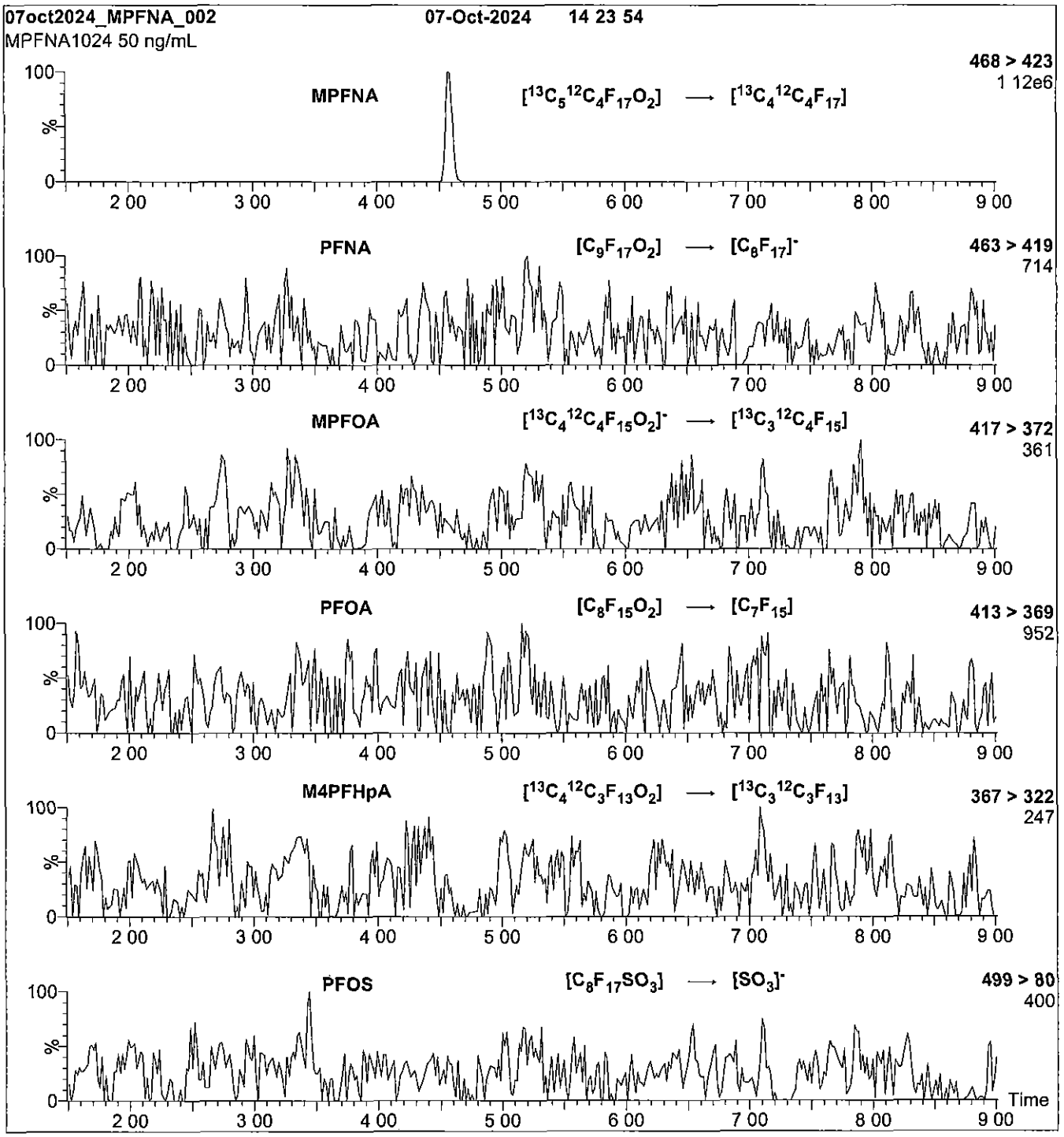
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm, 2.1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80 20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0 5 min Time 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFNA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (MPFNA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.26e-3
Collision Energy (eV) = 10

Reagent

PFC_ST_04184

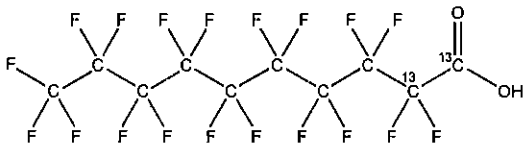
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. MPFDA
COMPOUND. Perfluoro-n-(1 2-$^{13}C_2$)decanoic acid

LOT NUMBER. MPFDA1024

STRUCTURE.



CAS #. 960315-50-8

7639446
ID: PFC_ST_04184
Exp:10/07/29 Prpd:P7EB Opn:
Labeled 13C2 PFDA Stock

7639447
ID: PFC_ST_04185
Exp:10/07/29 Prpd:P7EB Opn:
Labeled 13C2 PFDA Stock

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_8HF_{19}O_2$	**MOLECULAR WEIGHT:**	516 07
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	10/07/2024		
EXPIRY DATE. (mm/dd/yyyy)	10/07/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

410-7639446

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By _____ **Date** 10/17/2024 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc , 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1 x_2, x_n on which it depends is

$$u_c(y(x_1, x_2 \quad x)) = \sqrt{\sum_{=1}^{n} u(y, x_1)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

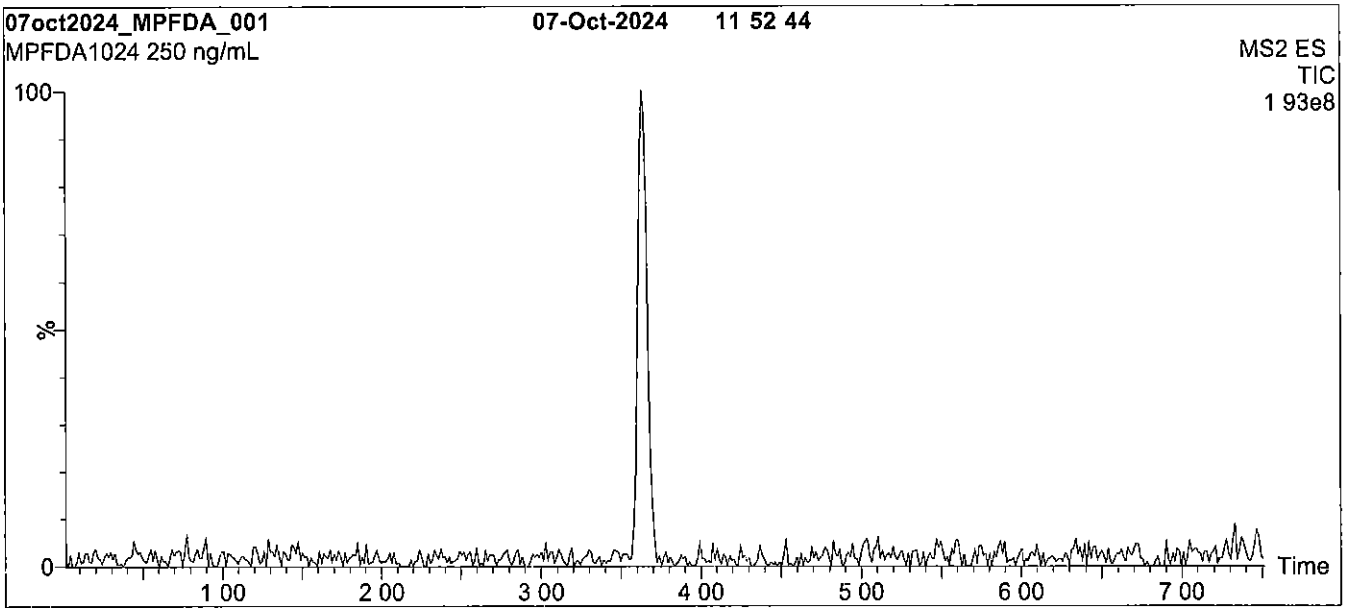
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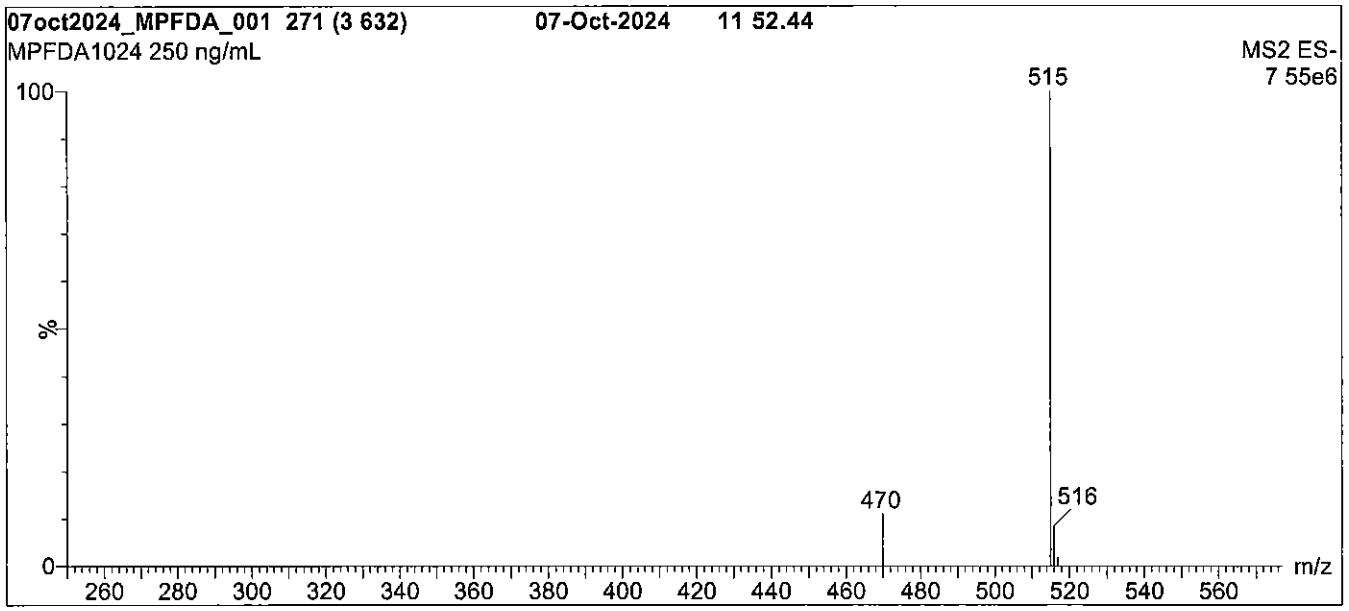
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

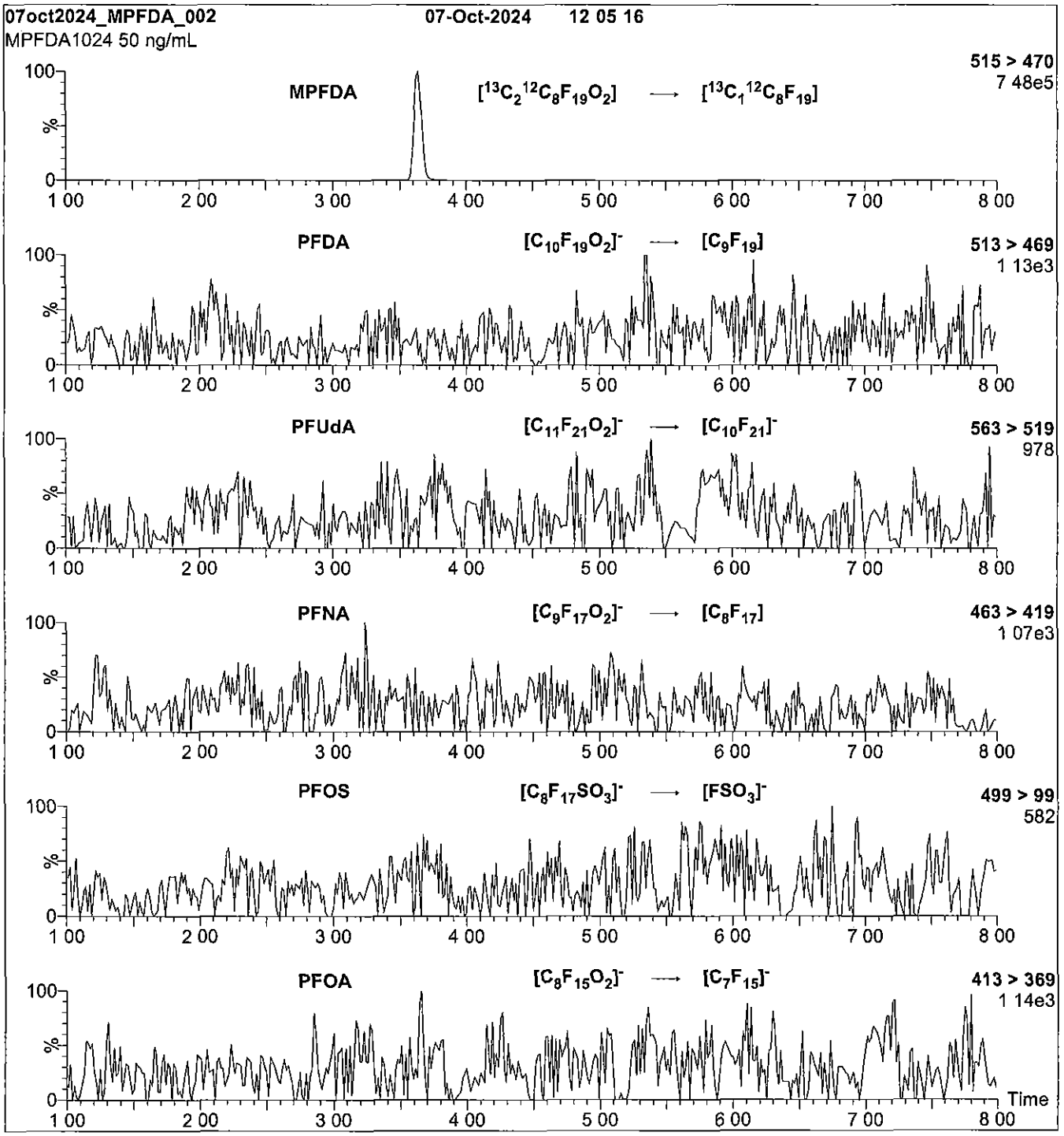
Column	Acquity UPLC BEH Shield RP $_8$ 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start. 40% H_2O / 60% (80:20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (250 - 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFDA, LC/MS/MS Data (Selected MRM Transitions)**



Condltions for Figure 2.

Injection	On-column (MPFDA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.26e-3
Collision Energy (eV) = 10

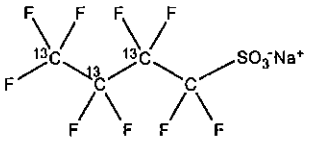
Reagent

PFC_ST_04192

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	M3PFBS	**LOT NUMBER.**	M3PFBS0225
COMPOUND.	Sodium perfluoro-1-(2,3 4-$^{13}C_3$)butanesulfonate		
STRUCTURE.		**CAS #.**	2708218-84-0



7639568
ID: PFC_ST_04192
Exp:03/04/30 Prpd:P7EB Opn:
M3PFBS Stock

7639569
ID: PFC_ST_04193
Exp:03/04/30 Prpd:P7EB Opn:
M3PFBS Stock

MOLECULAR FORMULA.	$^{13}C_3{}^{12}CF_9SO_3Na$	**MOLECULAR WEIGHT:**	325 06
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 46 6 ± 2 3 µg/mL (M3PFBS acid) 46 5 ± 2 3 µg/mL (M3PFBS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	03/04/2025		
EXPIRY DATE. (mm/dd/yyyy)	03/04/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

410-7639568

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details

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QUALITY MANAGEMENT:

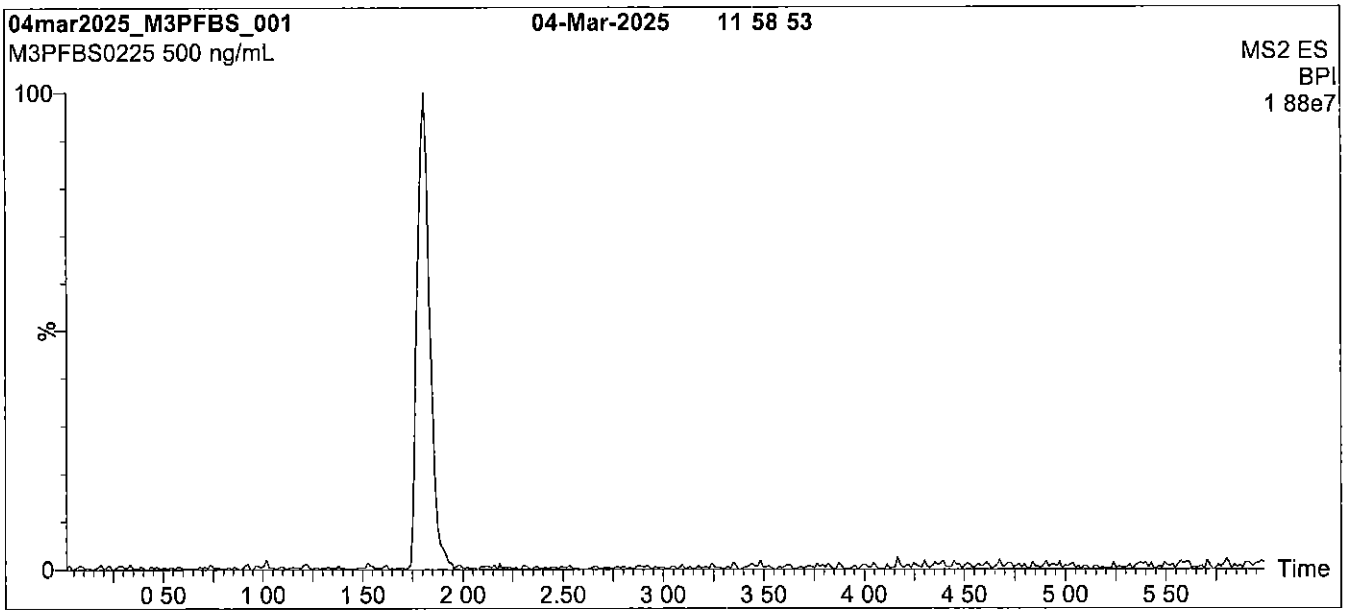
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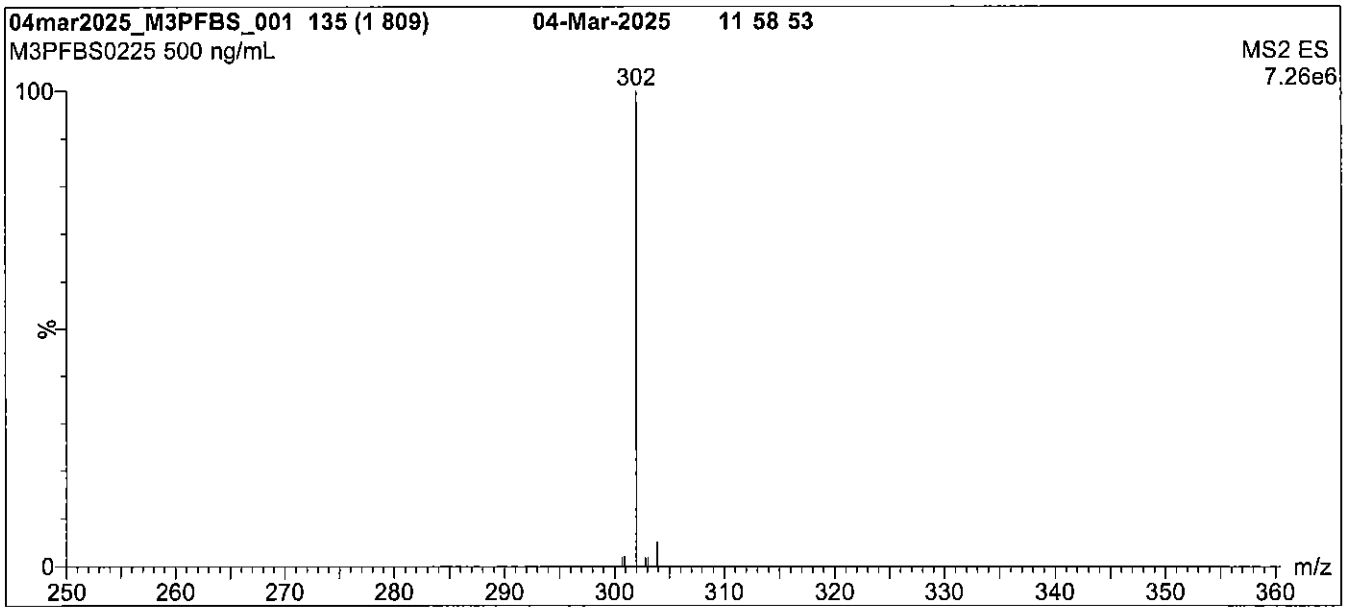
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M3PFBS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

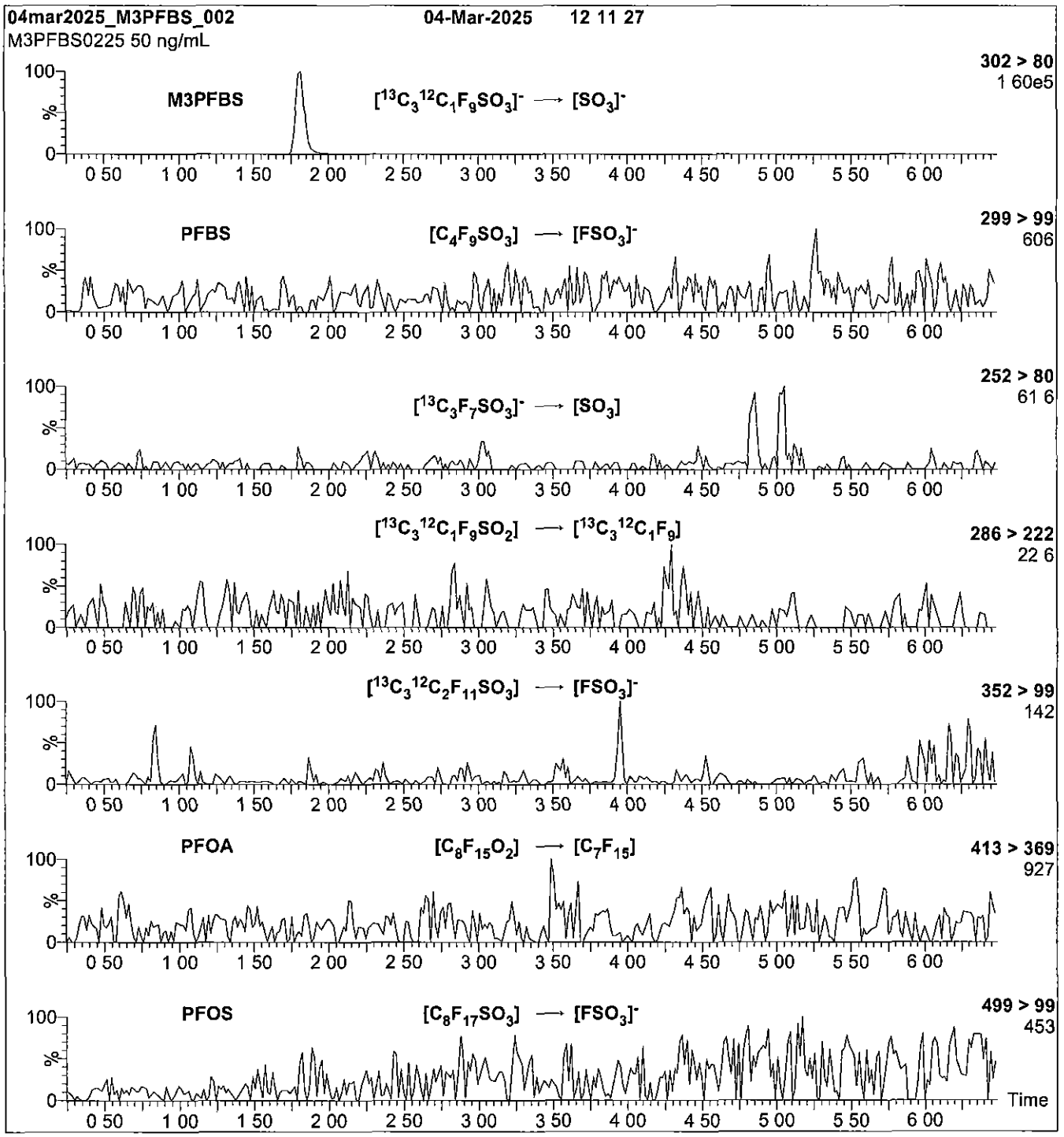
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80·20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0 5 min Time 12 min
Flow·	300 µL/min

MS Parameters.

Experiment. Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3PFBS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M3PFBS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5 68e-3
Collision Energy (eV) = 30

Reagent

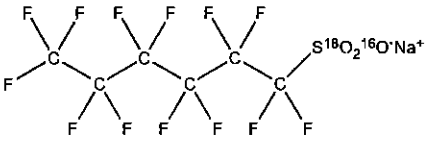
PFC_ST_04195

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CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE. MPFHxS
LOT NUMBER. MPFHxS0924
COMPOUND. Sodium perfluoro-1 hexane($^{18}O_2$)sulfonate

STRUCTURE.



CAS #. 1585941-14-5

7639630
ID: PFC_ST_04194
Exp:09/11/29 Prpd:P7EB Opn:
Labeled 18O2 PFHxS Stock

7639631
ID: PFC_ST_04195
Exp:09/11/29 Prpd:P7EB Opn:
Labeled 18O2 PFHxS Stock

MOLECULAR FORMULA.	$C_6F_{13}S^{18}O_2{}^{16}ONa$	**MOLECULAR WEIGHT:**	426 10
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 47.4 ± 2 4 µg/mL (MPFHxS acid) 47 3 ± 2 4 µg/mL (MPFHxS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY:**	>94% ^{18}O
LAST TESTED. (mm/dd/yyyy)	09/11/2024		
EXPIRY DATE. (mm/dd/yyyy)	09/11/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

410-7639631

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- The response factor for MPFHxS ($C_6F_{13}S^{18}O_2{}^6O^-$) has been observed to be up to 10% lower than for PFHxS ($C_6F_{13}S^{16}O_3^-$) when both compounds are injected together This difference may vary between instruments
- Contains ~0 6% of sodium perfluoro-1-octane($^{18}O_2$)sulfonate ($^{18}O_2$-PFOS) and ~0 3% of sodium perfluoro-1-heptane($^{18}O_2$)sulfonate ($^{18}O_2$ PFHpS)
- Due to the isotopic purity of the starting material (^{18}O >94%) MPFHxS contains ~0 3% of PFHxS This value agrees with the theoretical percent relative abundance that is expected based on the stated isotopic purity

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Certified By _____ **Date** 09/12/2024 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s), and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty, $u_c(y)$ of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

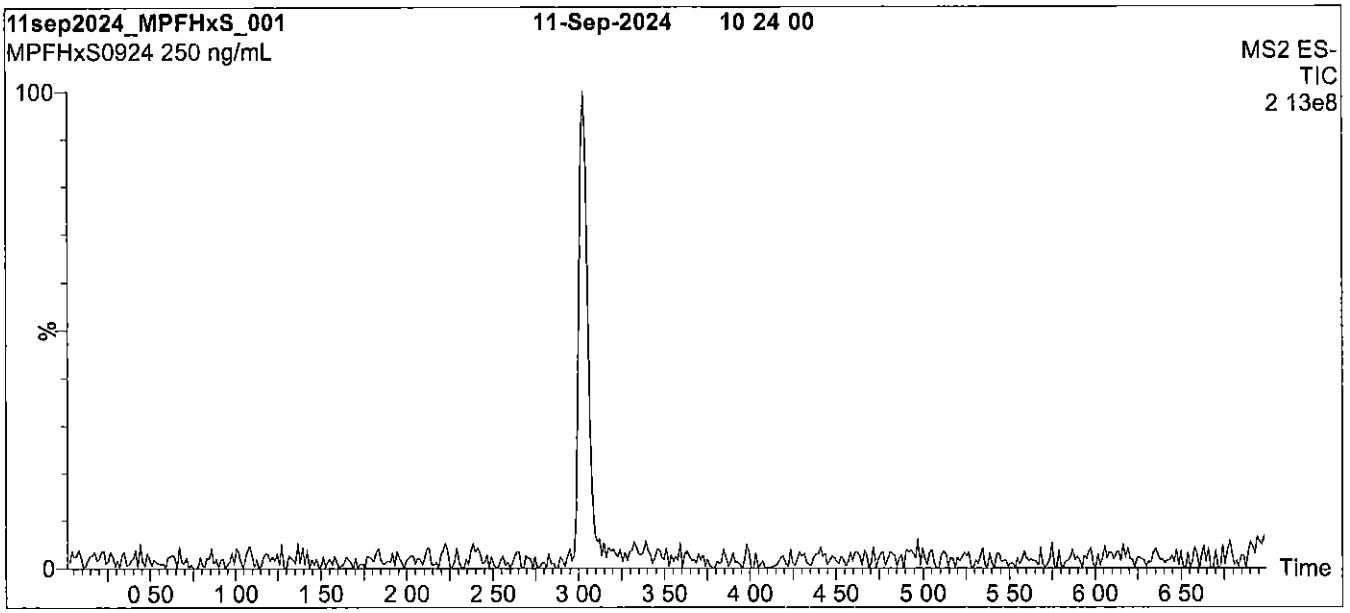
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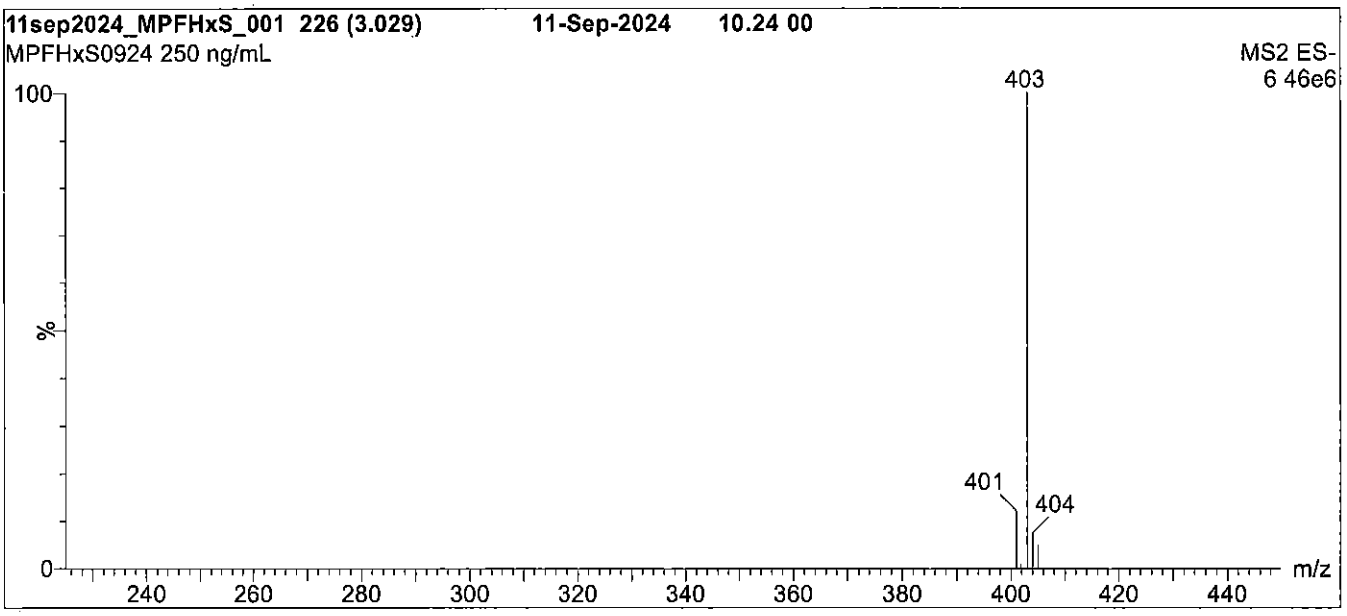
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFHxS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

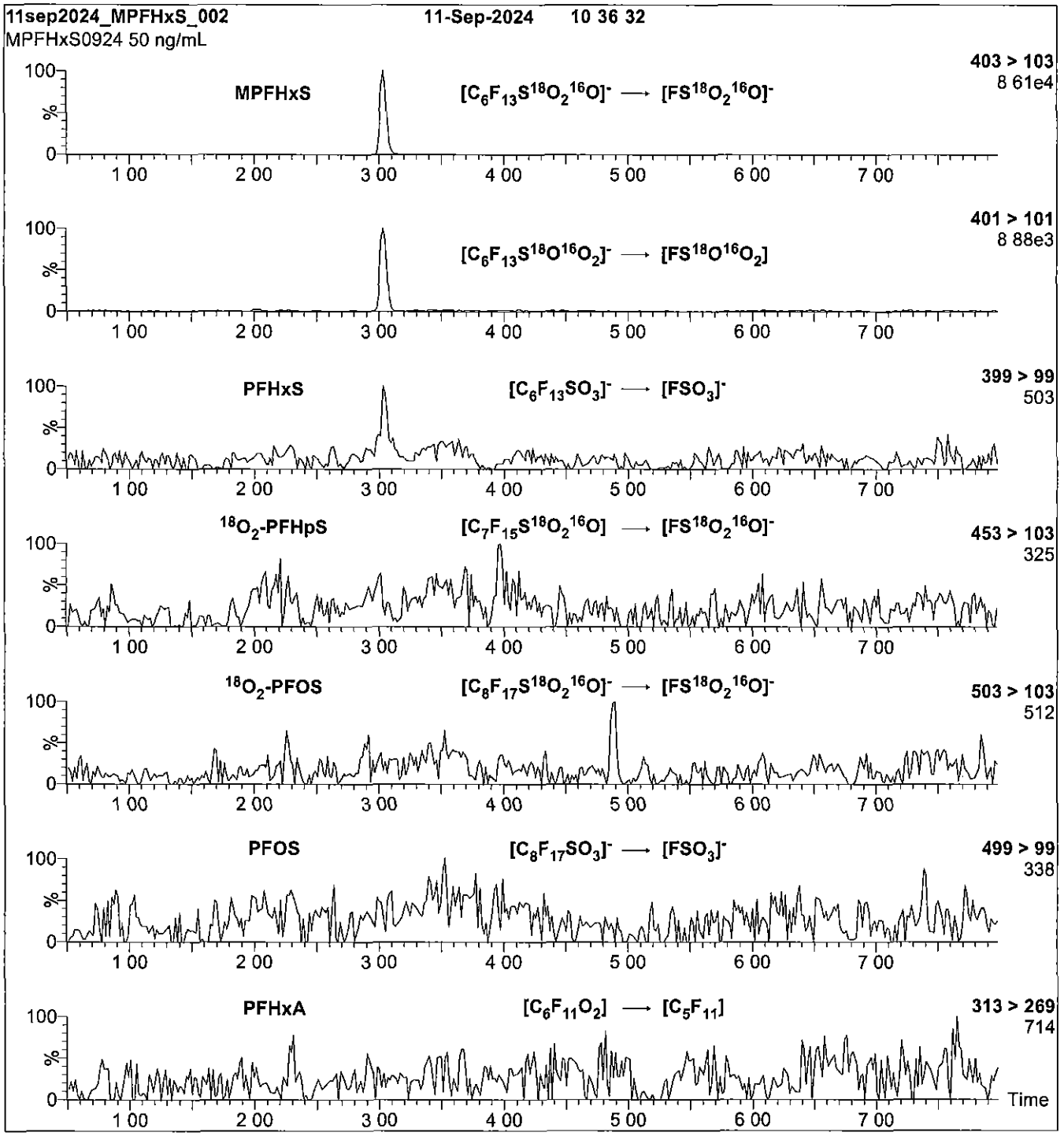
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80·20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (225 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFHxS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (MPFHxS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.29e-3
Collision Energy (eV) = 32

Reagent

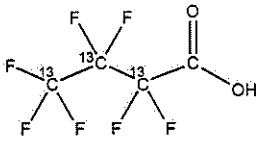
PFC_ST_04248

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-04248

PRODUCT CODE.	M3PFBA	**LOT NUMBER.**	M3PFBA0125
COMPOUND.	Perfluoro-n-(2 3,4- $^{3}C_{3}$)butanoic acid		
STRUCTURE.		**CAS #.**	2483735-33-5



410-7664778

MOLECULAR FORMULA.	$^{13}C_{3}{}^{12}CHF_{7}O_{2}$	**MOLECULAR WEIGHT:**	217 02
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	01/10/2025		
EXPIRY DATE. (mm/dd/yyyy)	01/10/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~0 2% of perfluoro-n-($^{13}C_{3}$)propanoic acid and also contains ~1 1% of perfluoro-n-($^{13}C_{4}$)butanoic acid (MPFBA) due to the naturally occurring isotopic abundance of ^{13}C in the unlabelled carbon atom

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Certified By _____ **Date** 01/16/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1 x_2, x_n on which it depends is

$$u_c(y(x \quad x \quad x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

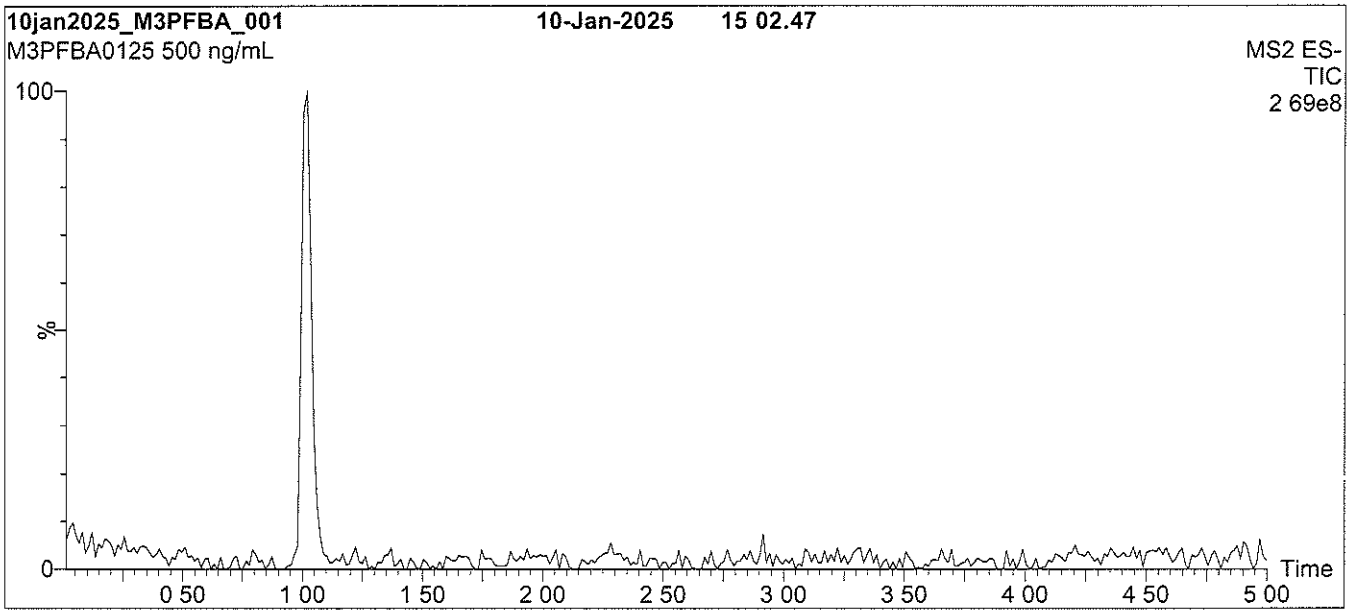
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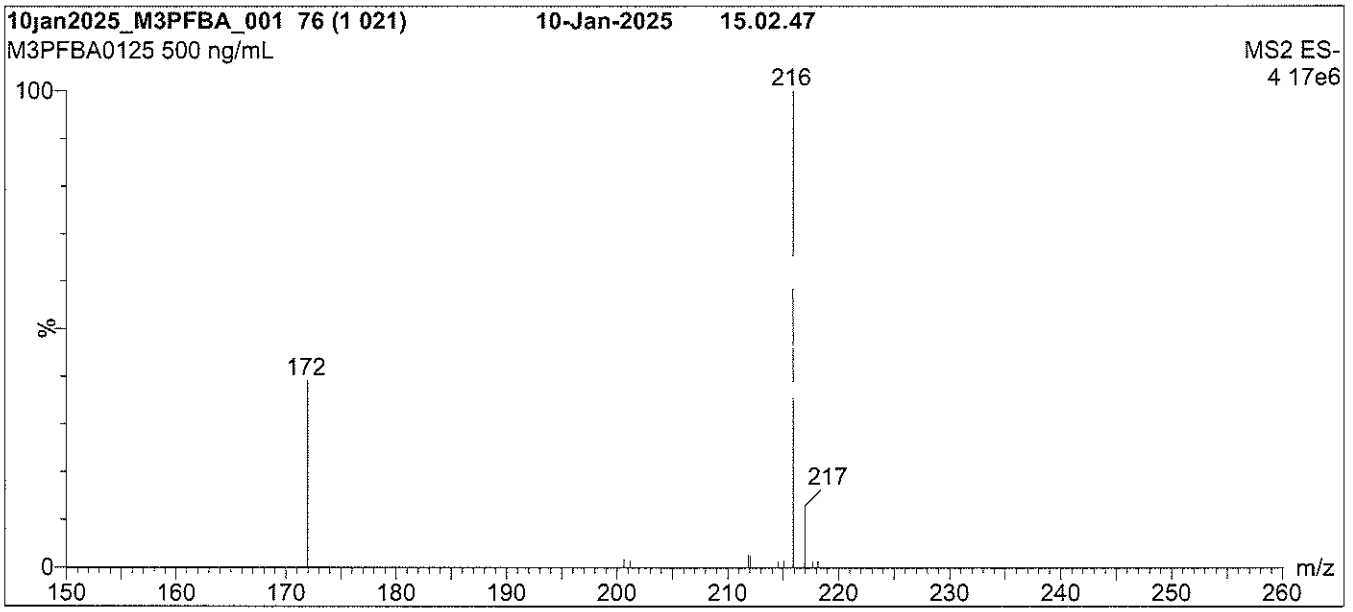
CALA Testing Accreditation No. A1226

ANAB An American National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M3PFBA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80 20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

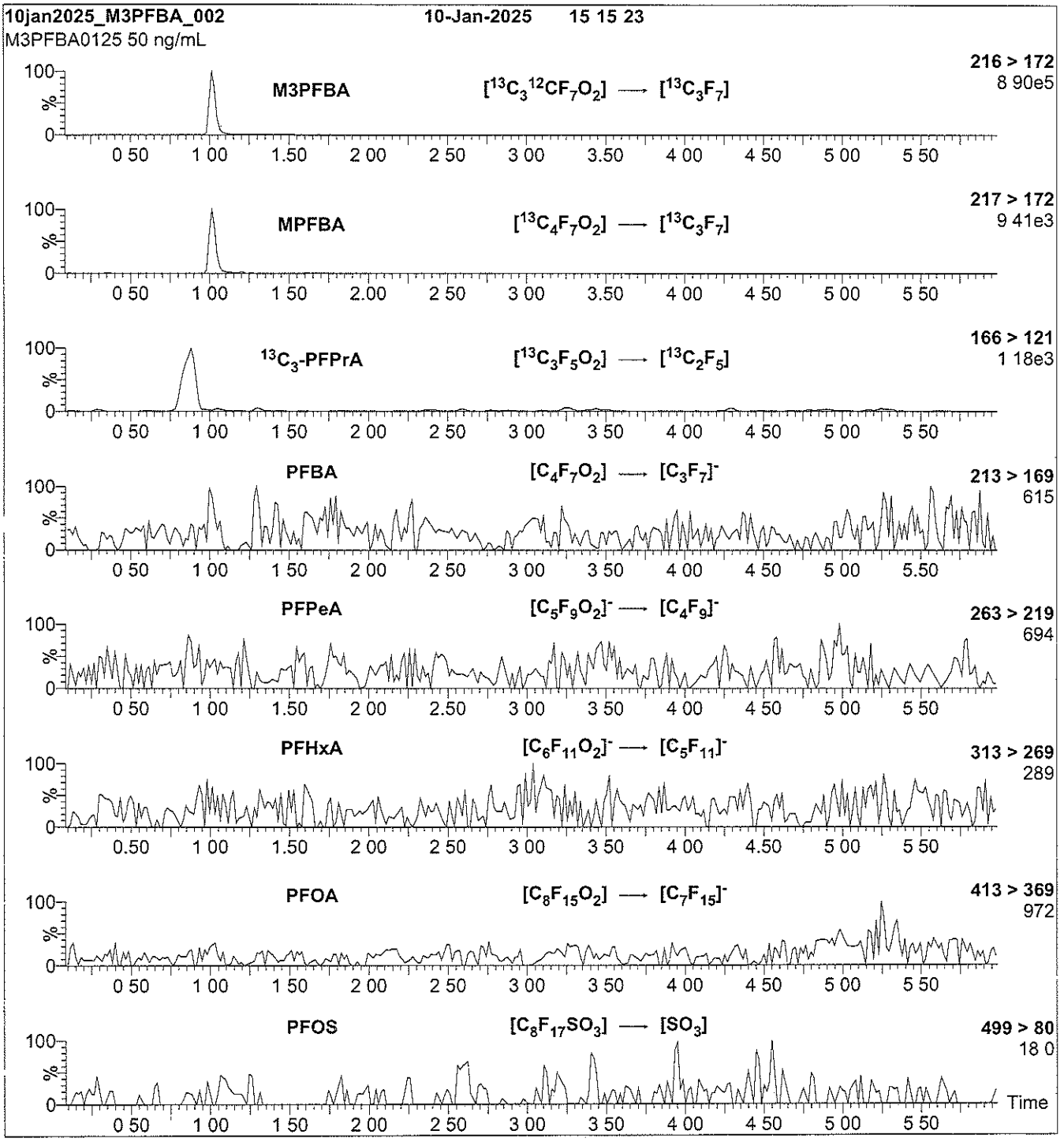
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3PFBA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M3PFBA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 6.29e-3
Collision Energy (eV) = 8

Reagent

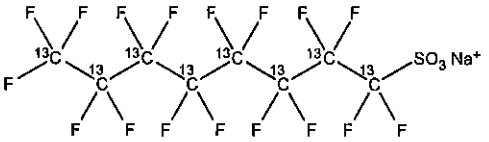
PFC_ST_04250

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-04249, 04250

PRODUCT CODE.	M8PFOS	**LOT NUMBER.**	M8PFOS1224
COMPOUND.	Sodium perfluoro-1-($^{13}C_8$)octanesulfonate		
STRUCTURE.		**CAS #.**	2522762 16-7



410-7668573

MOLECULAR FORMULA.	$^{13}C_8F_{17}SO_3Na$	**MOLECULAR WEIGHT:**	530 05
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 47 9 ± 2.4 µg/mL (M8PFOS acid) 47 8 ± 2.4 µg/mL (M8PFOS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	01/02/2025		
EXPIRY DATE. (mm/dd/yyyy)	01/02/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains ~1 1% of sodium perfluoro-1-(1 2 3,4 $^{13}C_4$)octanesulfonate (MPFOS) and <0 1% of perfluoro-n-($^{13}C_8$)octanoic acid (M8PFOA)

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Certified By _____ **Date.** 01/06/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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HOMOGENEITY:

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

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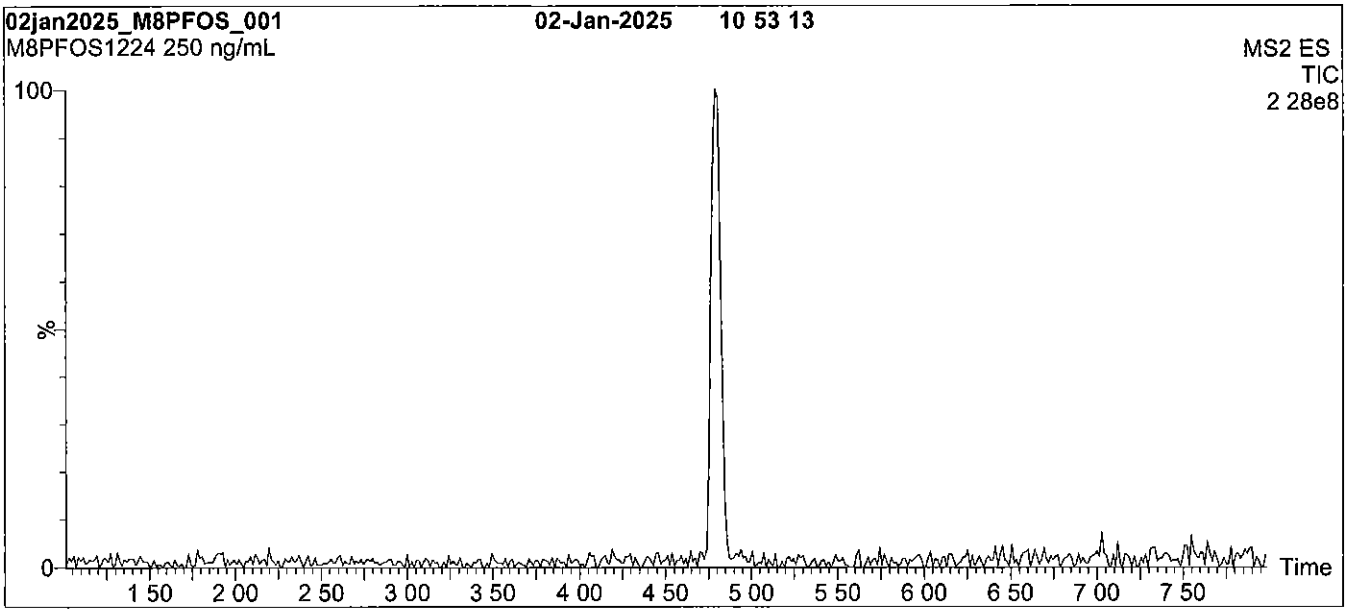
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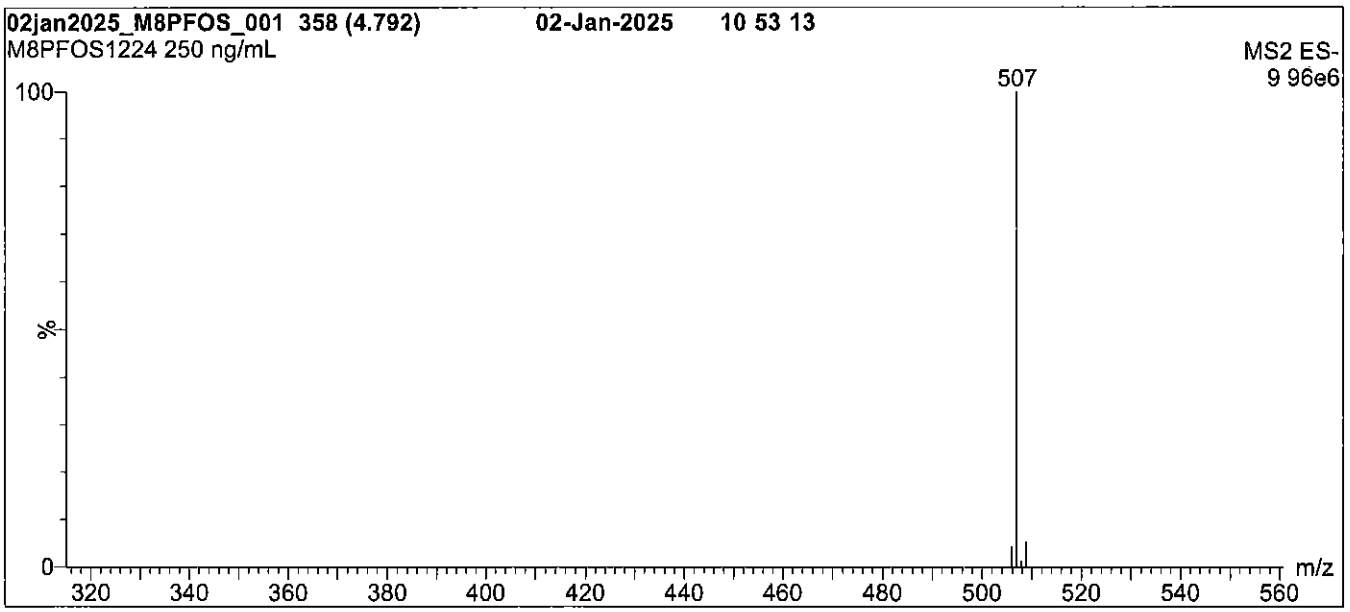
CALA Testing Accreditation No. A1226

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Figure 1. **M8PFOS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP 18
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 12 min

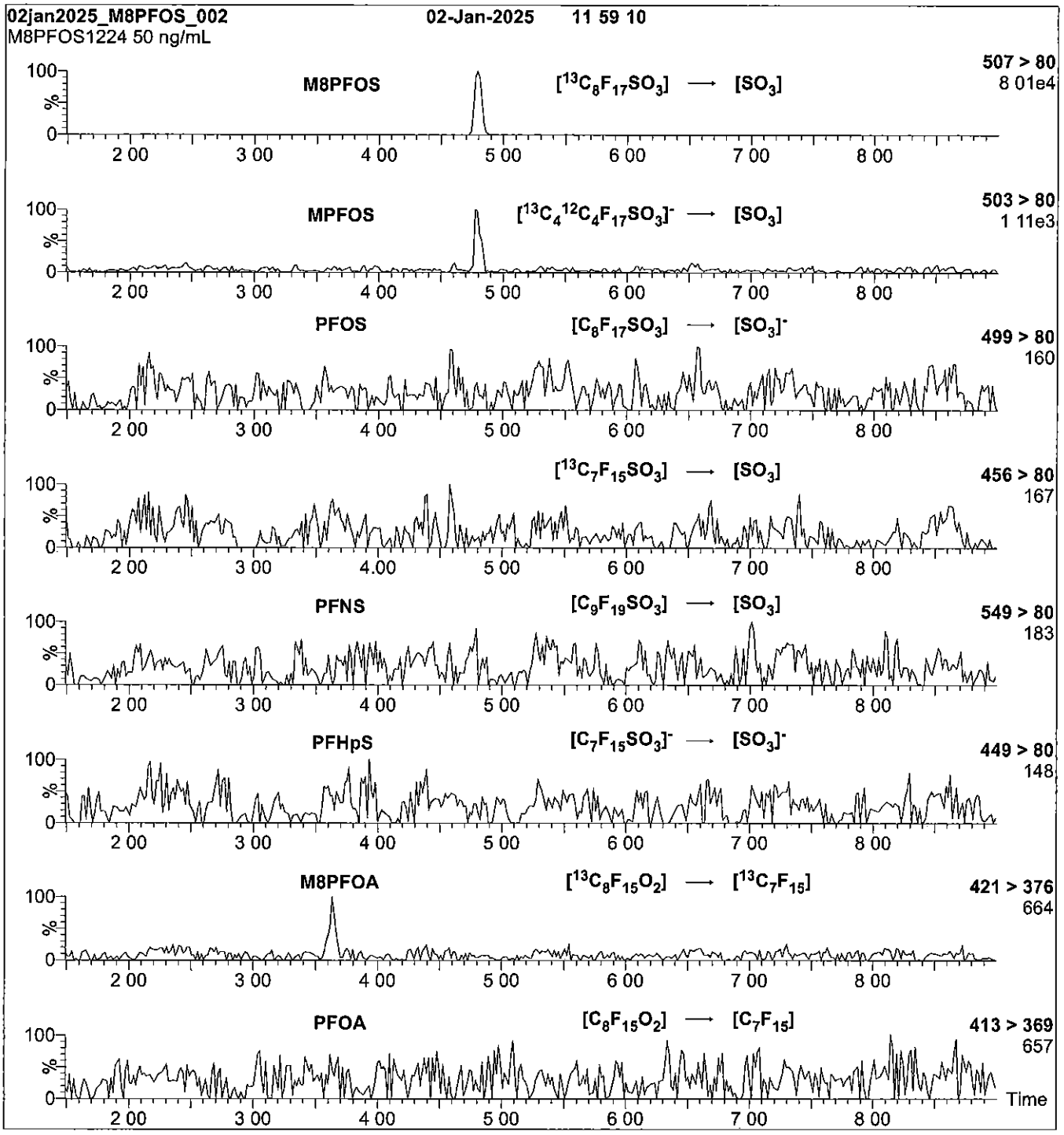
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8PFOS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M8PFOS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5 87e-3
Collision Energy (eV) = 64

Reagent

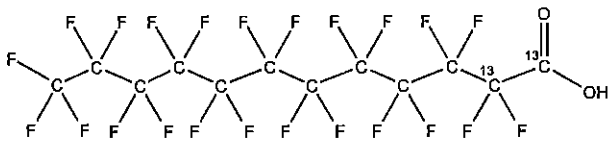
PFC_ST_04255

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-04255 , 04256

PRODUCT CODE.	MPFDoA	**LOT NUMBER.**	MPFDoA1124
COMPOUND.	Perfluoro-n-(1 2-$^{13}C_2$)dodecanoic acid		
STRUCTURE.		**CAS #.**	960315-52-0



410-7668677

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_{10}HF_{23}O_2$	**MOLECULAR WEIGHT:**	616 08
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	11/21/2024		
EXPIRY DATE. (mm/dd/yyyy)	11/21/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 11/26/2024 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR GC/MS, LC/MS SFC/UV/MS x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is:

$$u\ (y(x_1\ x_2\quad x\ )) = \sqrt{\sum_{=1}^{i} u(y,x\ )^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

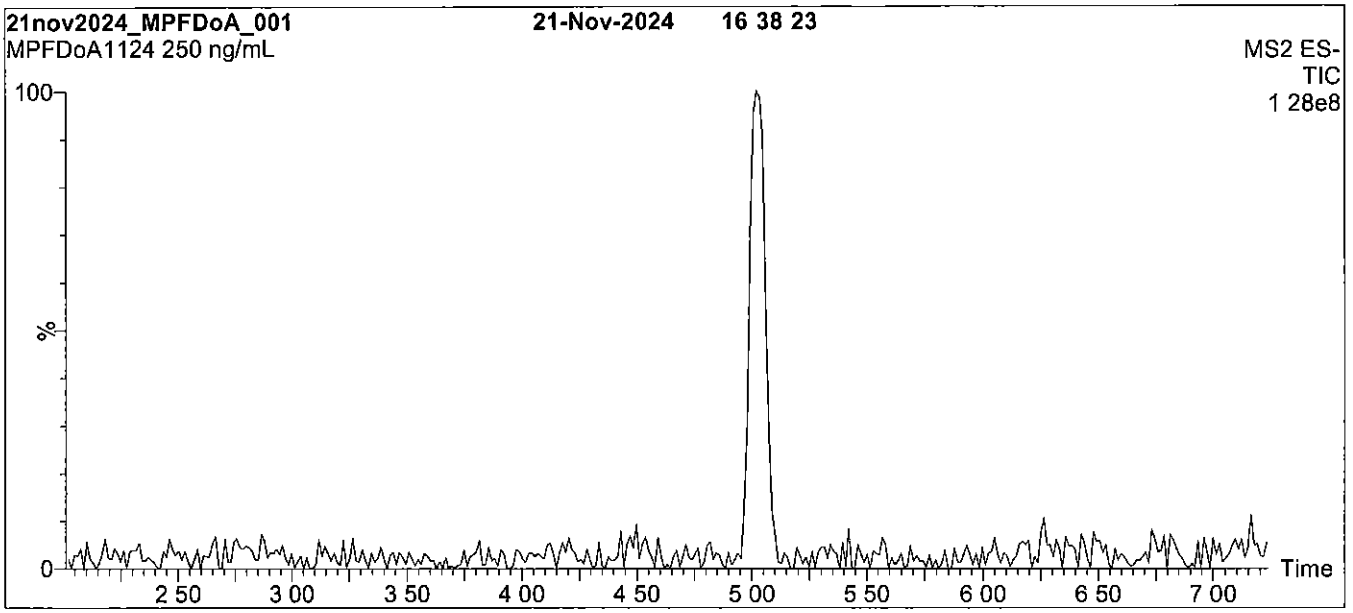
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523).

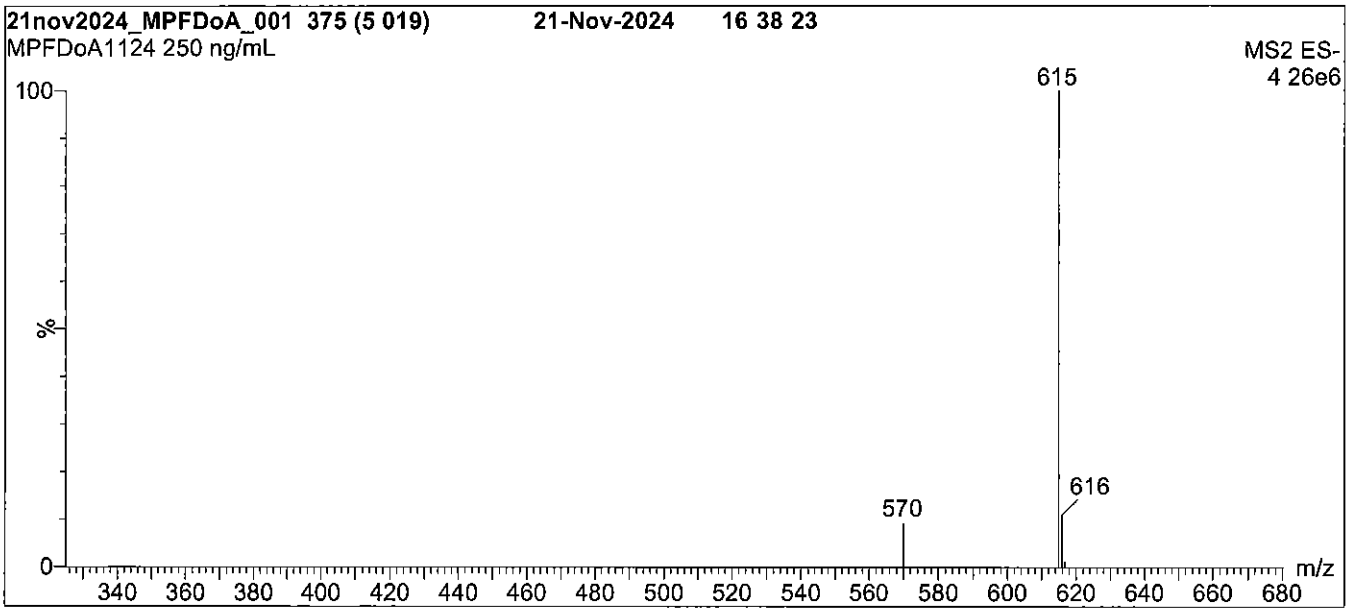
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **MPFDoA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

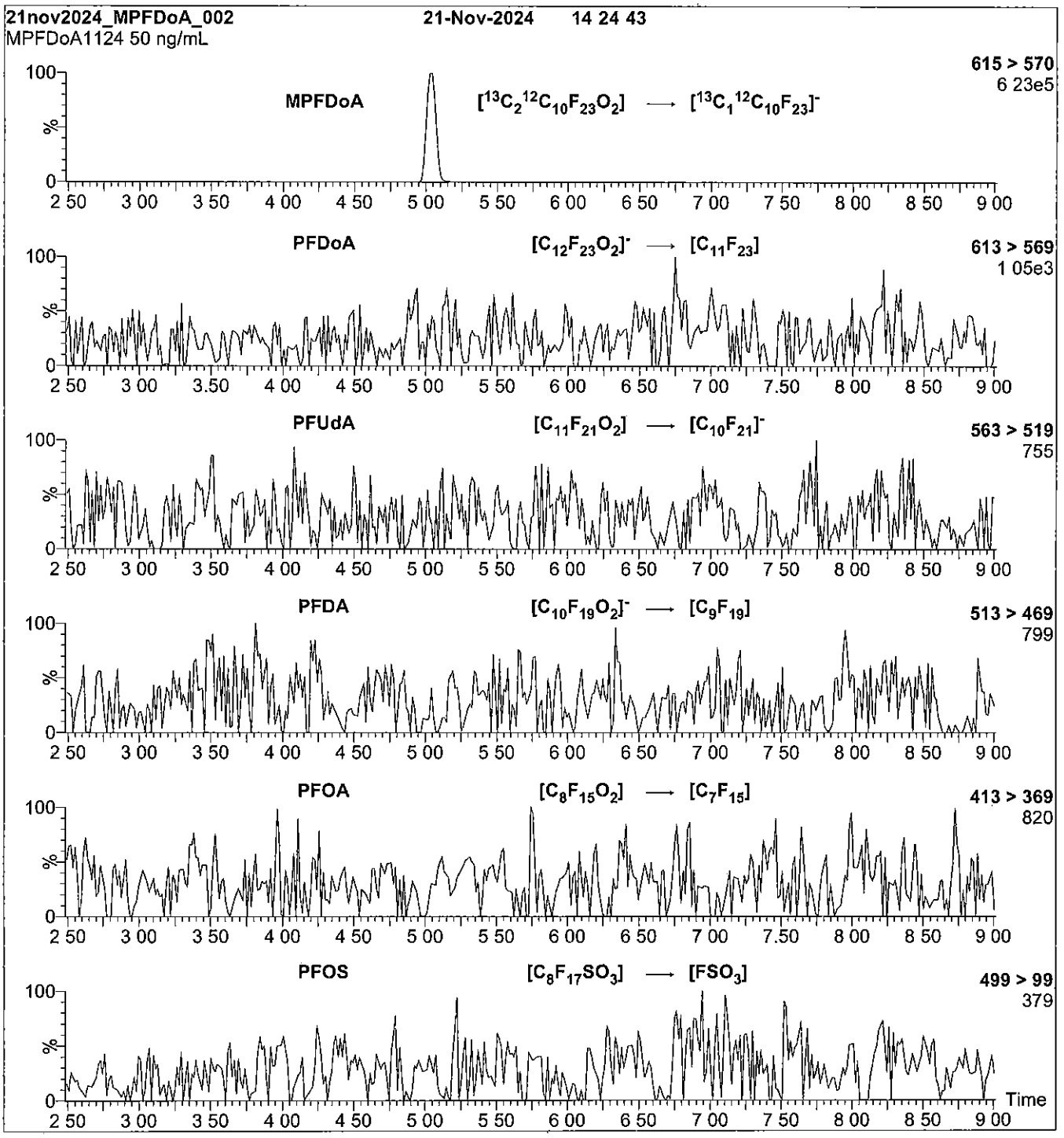
Column	Acquity UPLC BEH Shield RP$_{18}$ 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 40% H_2O / 60% (80:20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (325 - 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFDoA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (MPFDoA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 6.40e-3
Collision Energy (eV) = 12

Reagent

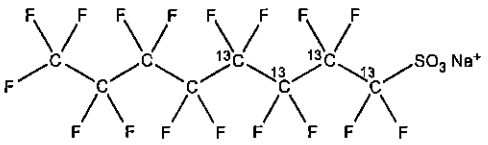
PFC_ST_04261

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-042601, 042602

PRODUCT CODE.	MPFOS	**LOT NUMBER.**	MPFOS0325
COMPOUND.	Sodium perfluoro-1-(1 2,3 4-$^{13}C_4$)octanesulfonate		
STRUCTURE.		**CAS #.**	960315-53-1





410-7668941

MOLECULAR FORMULA.	$^{13}C_4{}^{12}C_4F_7SO_3Na$	**MOLECULAR WEIGHT:**	526 08
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 47 9 ± 2.4 µg/mL (MPFOS acid) 47 8 ± 2 4 µg/mL (MPFOS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	03/04/2025		
EXPIRY DATE. (mm/dd/yyyy)	03/04/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains ~0 3% of sodium perfluoro-1-($^{13}C_3$)heptanesulfonate and ~0 2% of perfluoro-n-($^{13}C_4$)octanoic acid (MPFOA)

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 04/02/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s), and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x_1 x_2, x_n on which it depends is

$$u_c(y(x_1\ x_2,\ \ v\ )) = \sqrt{\sum_{=1}^{n} u(y\ x\ )^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

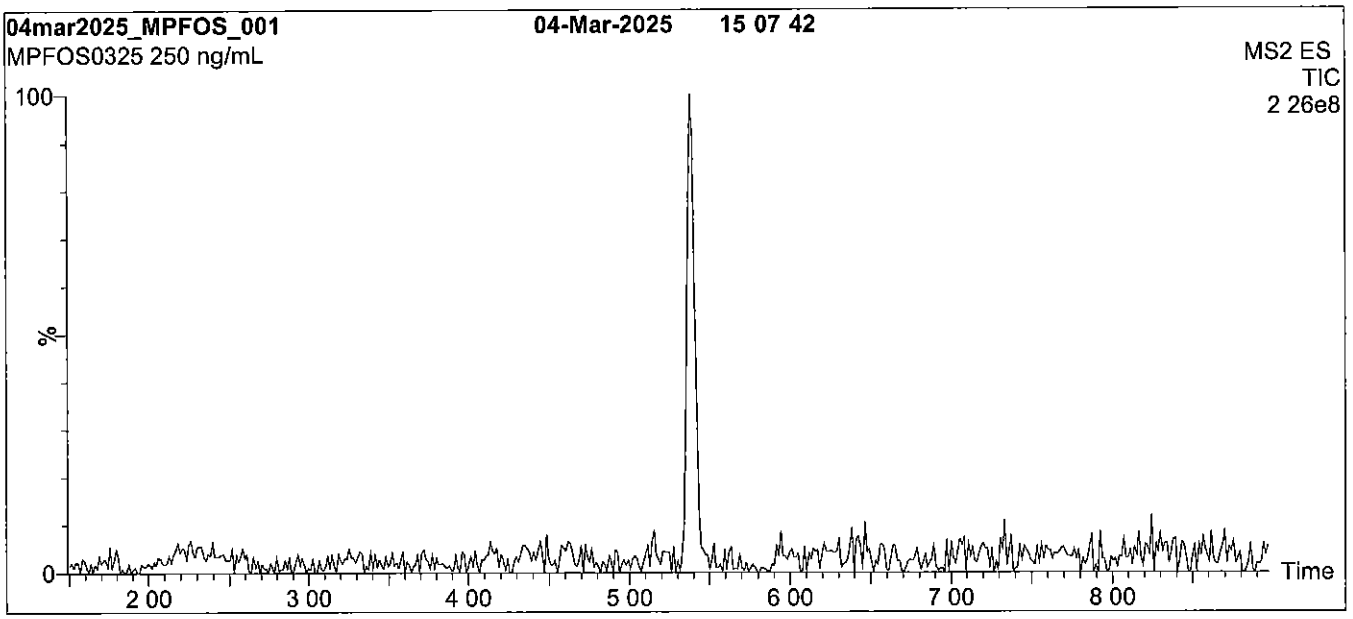
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

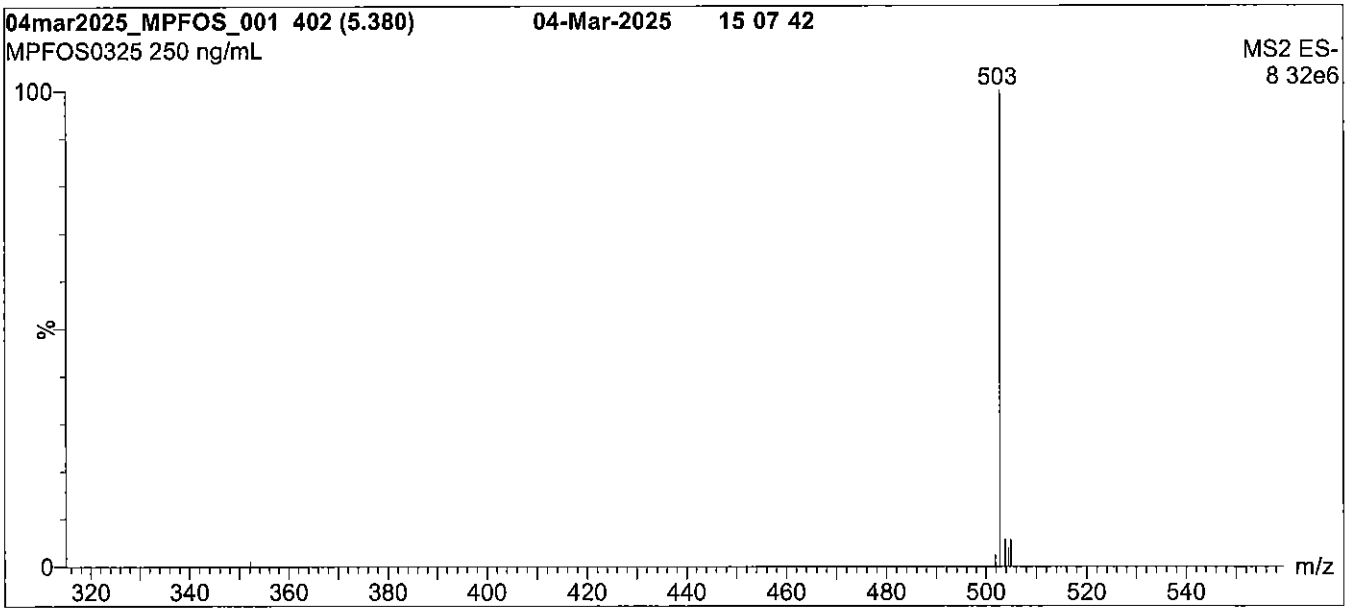
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO17011 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFOS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start. 50% H_2O / 50% (80 20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 12 min

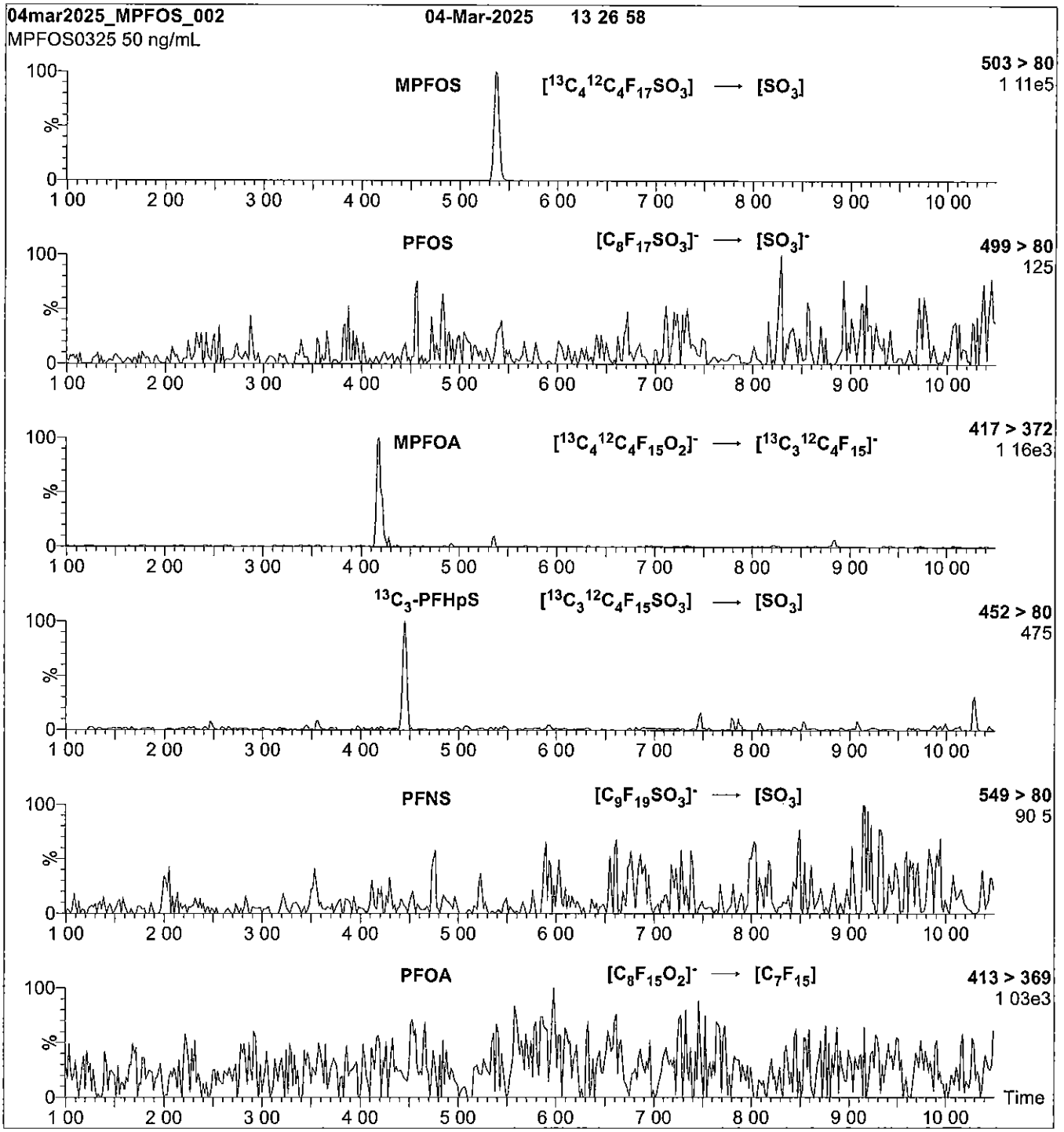
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 - 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFOS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (MPFOS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5.68e-3
Collision Energy (eV) = 42

Reagent

PFC_ST_04283

Reagent

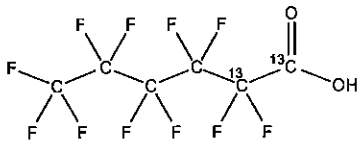
PFC_ST_04290

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-04290, 04291

PRODUCT CODE:	MPFHxA	**LOT NUMBER:**	MPFHxA1124
COMPOUND:	Perfluoro-n-(1,2-$^{13}C_2$)hexanoic acid		
STRUCTURE:		**CAS #:**	960315-47-3



410-7684672

410-7684673

MOLECULAR FORMULA:	$^{13}C_2{}^{12}C_4HF_{11}O_2$	**MOLECULAR WEIGHT:**	316.04
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	11/27/2024		
EXPIRY DATE: (mm/dd/yyyy)	11/27/2029		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 11/28/2024 (mm/dd/yyyy)

B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • Info@well-labs.com

INTENDED USE:

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HANDLING:

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SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

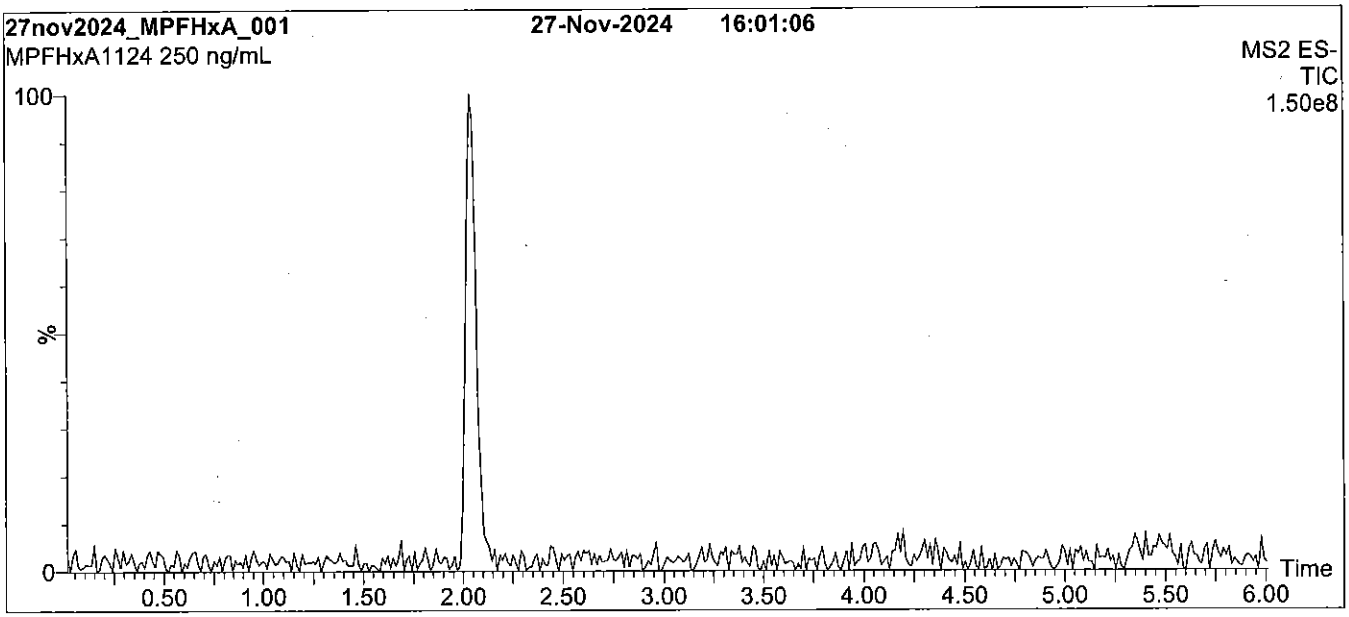
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

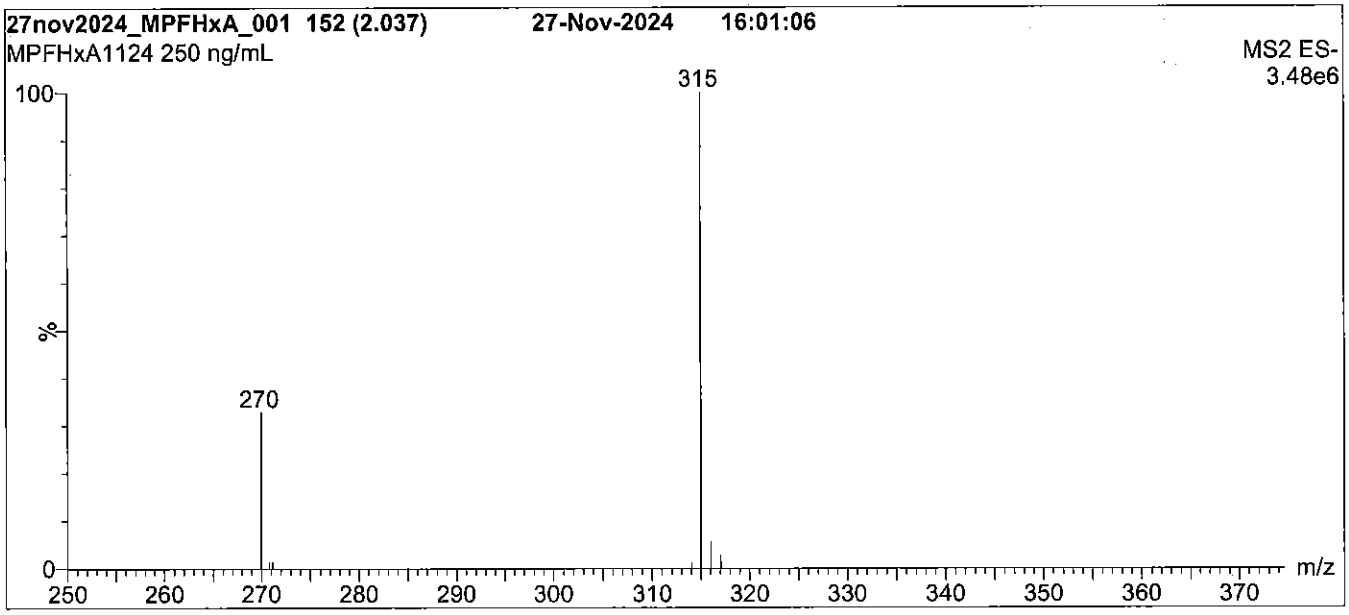
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **MPFHxA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

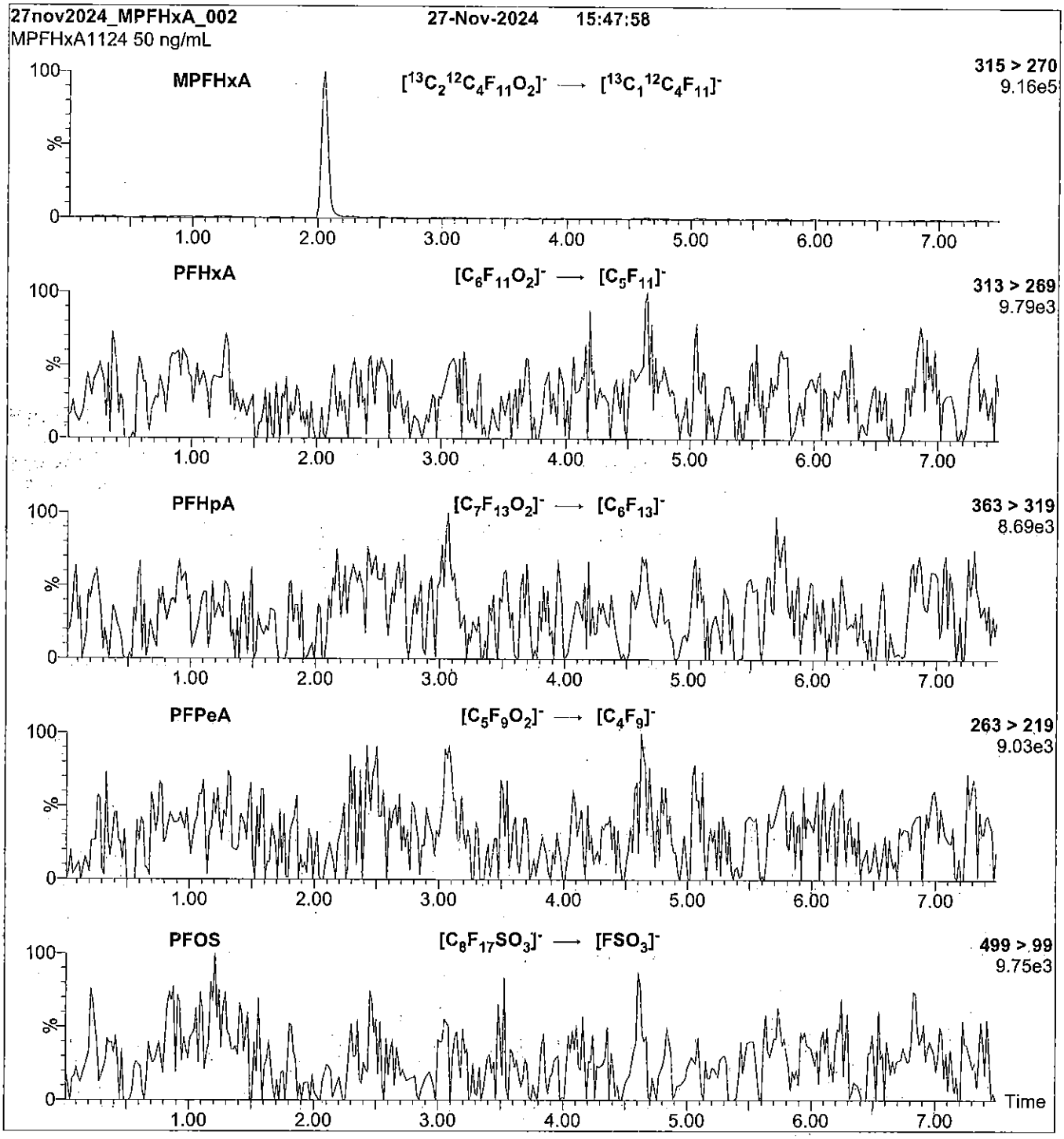
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **MPFHxA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (MPFHxA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.24e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_04296

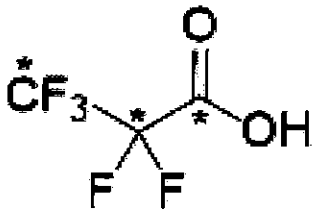
Cambridge Isotope Laboratories, Inc.

50 Frontage Road
Andover, MA 01810 USA

PFC-ST-04294, 04295, 04296, 04297, 04298

Certificate of Analysis

Perfluoropropanoic acid (PFPrA) ($^{13}C_3$,99%) 50 µg/mL in MeOH w/4 molar equivalents NaOH



Catalog #:	CLM-11324-A-S
Batch #:	**B003784**
Chemical Formula:	*C3HF5O2
Molecular Weight:	167.01
Labeled CAS #:	NA
Unlabeled CAS #:	422-64-0
Manufacture Date:	4/9/2025
Retest Date:	4/8/2030

Storage: Store at room temperature away from light and moisture.

Intended Use: For Research Use Only. Not for use in diagnostic procedures.

Quality Control Tests and Results

Test	Specification	Result
Concentration Based on Gravimetry	50 ± 5 µg/mL	50.0 ± 0.4 µg/mL, (k=2)

Certification

- Cambridge Isotope Laboratories, Inc. certifies that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible. Results are representative of QC testing at time of release from Quality Control unless otherwise stated. The COA also applies to the CIL finished good catalog number. Some possible packaging sizes and their corresponding suffix are -1.2, -1, -0.5, -10, or -0.1. The expiration date is valid only for unopened vials or ampoules that have been stored as recommended. CIL Certificates of Analysis are occasionally updated with new data following recertification. We recommend checking the website for the latest version.
- Gravimetric concentrations are compensated for the measured Chemical Purity of the neat material. Gravimetry is traceable to the NIST through calibrated balances and certified, calibrated, standard weights. The calibrations are traceable to the SI through NIST. The calibrations also meet specifications outlined in ISO 17034, ISO/IEC 17025, and applicable subdocuments.
- For compounds that are enriched at 2 or more sites within the molecule, the value given for isotopic enrichment will be different from the percent species abundance of the fully enriched molecule. To learn more about isotopic enrichment and species abundance, please visit https://isotope.com/en-us/enrichment.
- Concentration is verified through multiple analysis and is calculated as the average of the multiple analysis compared to an independently prepared calibration solution. The calculation and reporting of uncertainty conforms to the practices outlined in the Eurachem/CITAC Guide. "Quantifying Uncertainty in Analytical Measurement", Second Edition.

Marina Klionsky
Quality Review

Date: 4/23/2025

410-7685052 410-7684956 410-7685101 410-7685102 410-7685104

Revision 1

Container pack list

Cambridge Isotope Laboratories Inc.
50 Frontage Road
Andover, MA 01810
USA

Order number: SO-00027318
Date shipped: 4/23/2025
Shipment ID: SHIP-00037571
Container ID: CTR-00040151
Customer #: C0176050

Ship to Lancaster Labs
2425 New Holland Pike
Lancaster, PA 17601
USA

Line number	Item number	Product name	Quantity	UOM
1.0000000000	CLM-11324-A-1.2	Perfluoropropanoic acid (PFPrA) ($^{13}C_3$,99%) 50 µg/mL in MeOH w/4 molar equivalents NaOH	5.000	1.2 mL

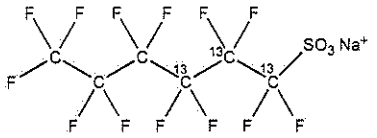
Reagent

PFC_ST_04334

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	M3PFHxS	**LOT NUMBER.**	M3PFHxS0425
COMPOUND.	Sodium perfluoro-1-(1 2 3 $^{3}C_{3}$)hexanesulfonate		
STRUCTURE.		**CAS #.**	2708218-86-2



7759072
ID: PFC_ST 04334
Exp:04/23/30 Prpd:WTU3 Opn:
M3PFHxS Stock

7759090
ID: PFC_ST_04335
Exp:04/23/30 Prpd:WTU3 Opn:
M3PFHxS Stock

MOLECULAR FORMULA.	$^{13}C_3{}^{12}C_3F_{13}SO_3Na$	**MOLECULAR WEIGHT:**	425 07
CONCENTRATION.	50 0 ± 2.5 µg/mL (Na salt)	**SOLVENT(S).**	Methanol
	47.4 ± 2.4 µg/mL (M3PFHxS acid)		
	47.3 ± 2.4 µg/mL (M3PFHxS anion)		
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY:**	≥99% ^{3}C
LAST TESTED. (mm/dd/yyyy)	04/23/2025		
EXPIRY DATE. (mm/dd/yyyy)	04/23/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

410-7759072

410-7759072

ADDITIONAL INFORMATION.

- See page 2 for further details

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 04/30/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc. 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out 'n a well-function ng fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY.

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate 'nternal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest n each solution are required to be <5% RSD New solution lots of existing products are compared to older lots n the same manner wh ch further confirms the homogeneity of the crystall'ne material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncerta nty the dilution or njection of a subsample of this product should be performed using calibrated measuring equ'pment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$, of a value y and the uncertainty of the independent parameters x x_2, x_n on which it depends is

$$u\ (y(x\ \ x\ \ \ x_n)) = \sqrt{\sum^{n} u(y\ x\ )^2}$$

where x is expressed as a relative standard uncertainty of the ndividual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration unti the specified expiry date in the unopened ampoule Monitoring for any degradation or change n concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

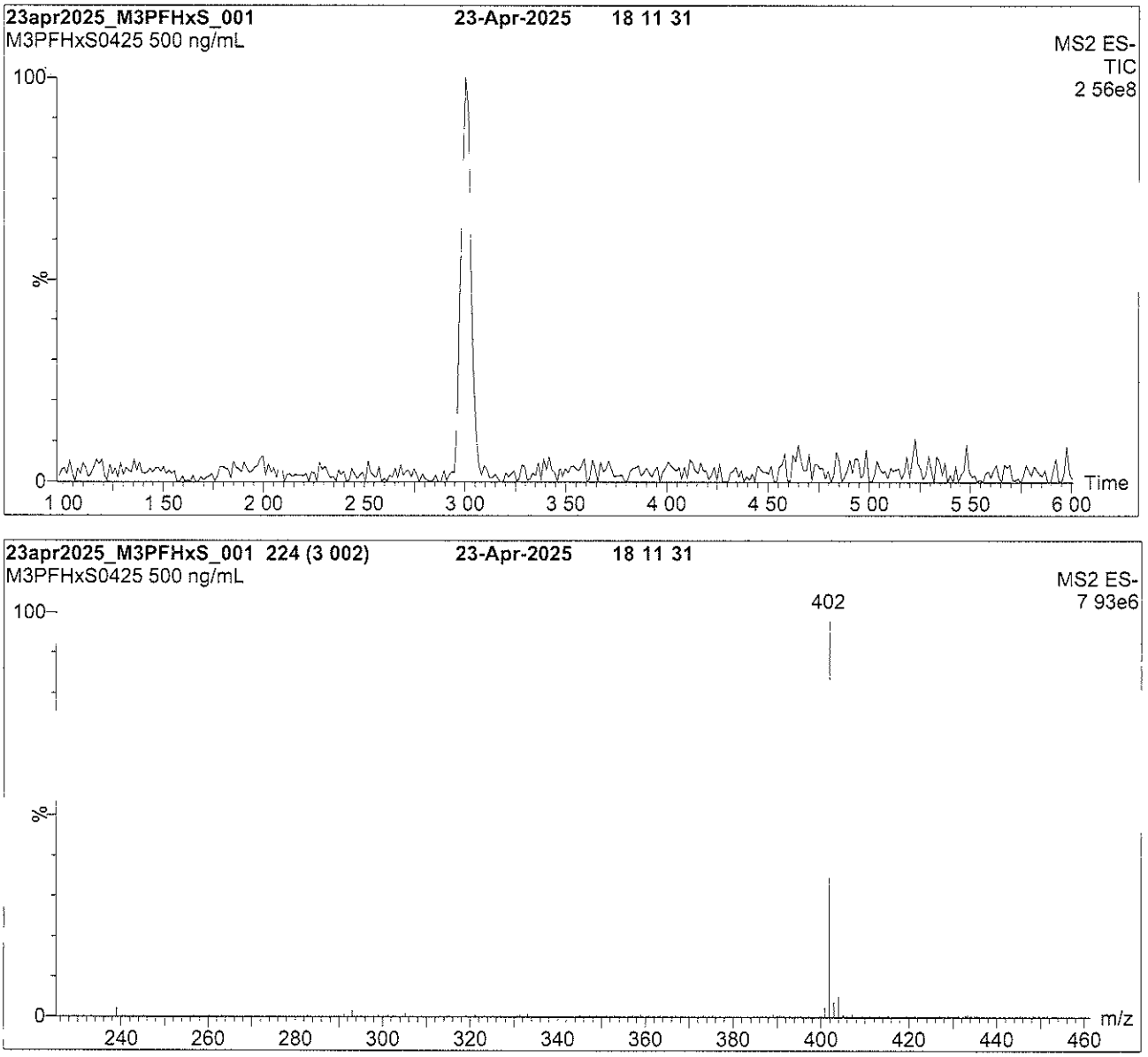
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

CALA Testing Accreditation No A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO/IEC 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories nc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **M3PFHxS, LC/MS Data (Full Scan and Mass Spectrum)**



Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

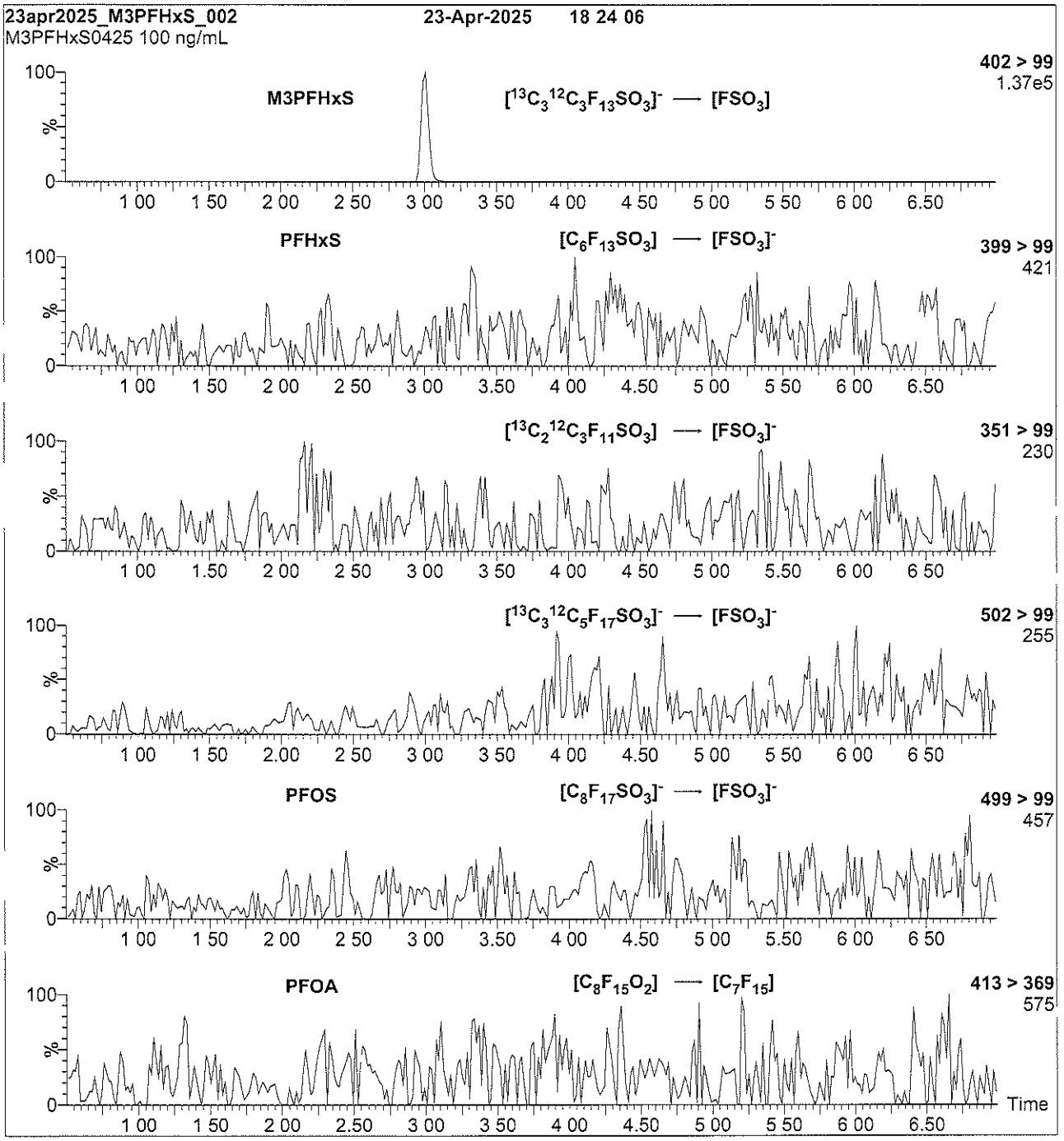
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80.20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before return ng to nitial conditions in 0 5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (225 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3PFHxS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

injection	On-column (M3PFHxS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4 31e-3
Collision Energy (eV) = 32

Reagent

PFC_ST_04358

WELLINGTON LABORATORIES

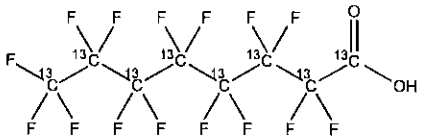
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: M8PFOA
COMPOUND: Perfluoro-n-($^{13}C_8$)octanoic acid

LOT NUMBER: M8PFOA0724

STRUCTURE:

CAS #: 1350614-84-4



MOLECULAR FORMULA: $^{13}C_8HF_{15}O_2$
MOLECULAR WEIGHT: 422.01
CONCENTRATION: 50.0 ± 2.5 µg/mL
SOLVENT(S): Methanol
Water (<1%)
CHEMICAL PURITY: >98%
ISOTOPIC PURITY: ≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy) 07/26/2024
EXPIRY DATE: (mm/dd/yyyy) 07/26/2029
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

7761029
ID: PFC_ST_04356
Exp:07/26/29 Prpd:WTU3 Opn:
M8PFOA Stock

7761055
ID: PFC_ST_04357
Exp:07/26/29 Prpd:WTU3 Opn:
M8PFOA Stock

7761057
ID: PFC_ST_04358
Exp:07/26/29 Prpd:WTU3 Opn:
M8PFOA Stock

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

410-7761029 410-7761055 410-7761057

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~1.1% of perfluoro-n-($^{13}C_4$)octanoic acid (MPFOA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 08/01/2024 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to International interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

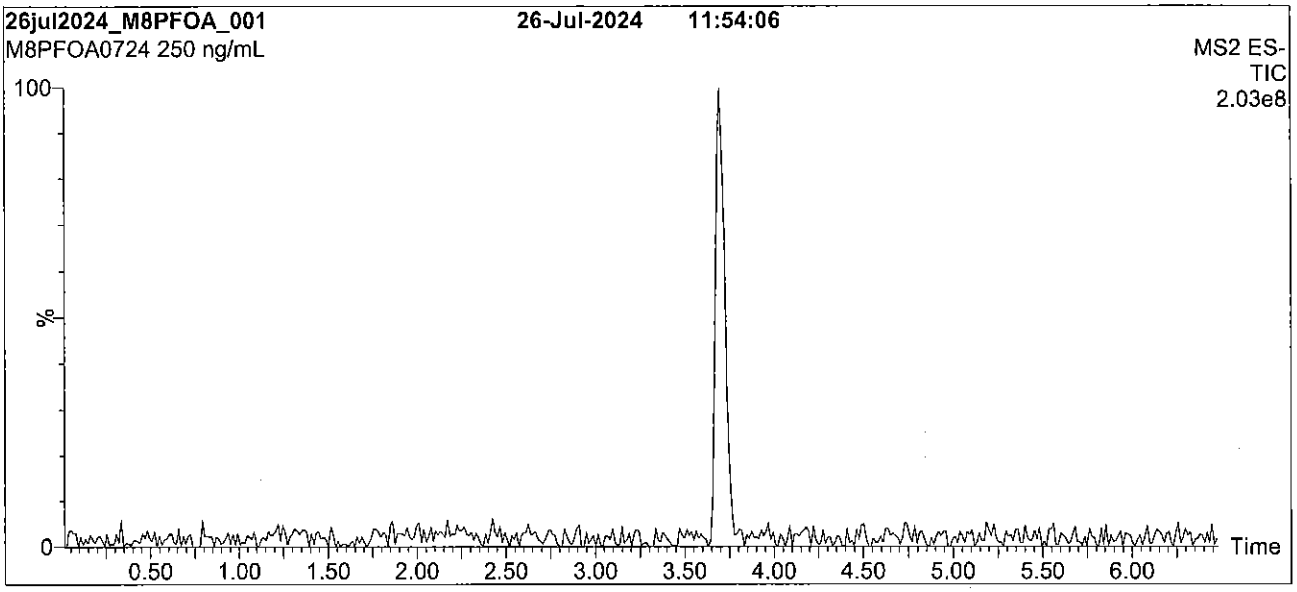
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

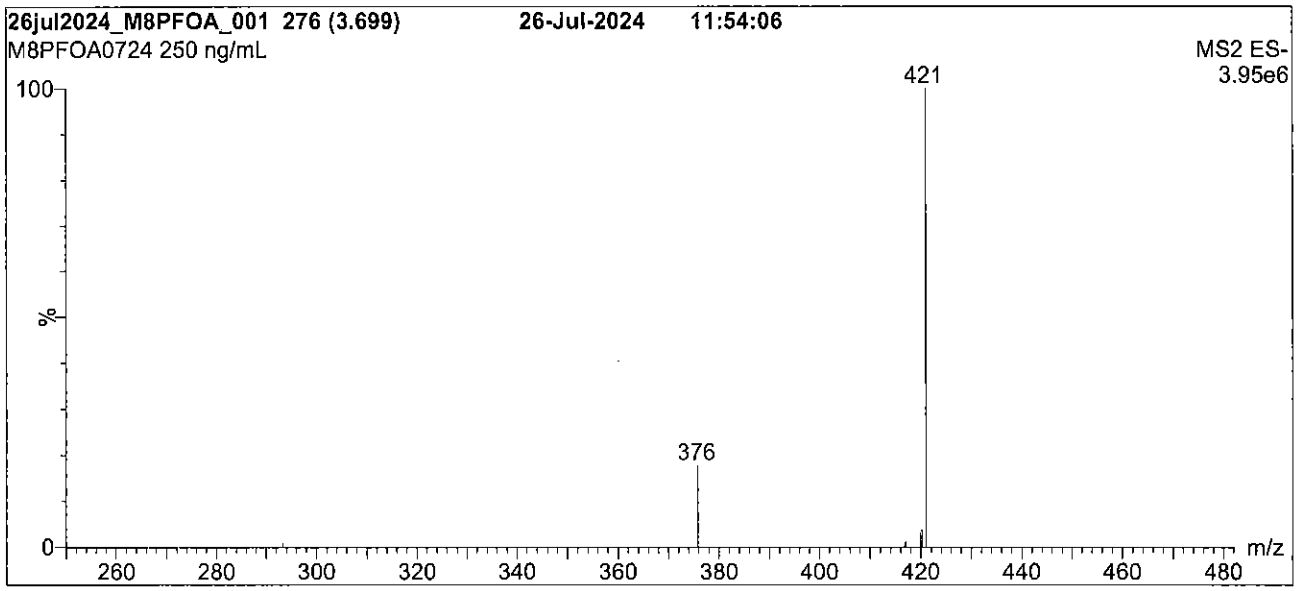
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **M8PFOA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

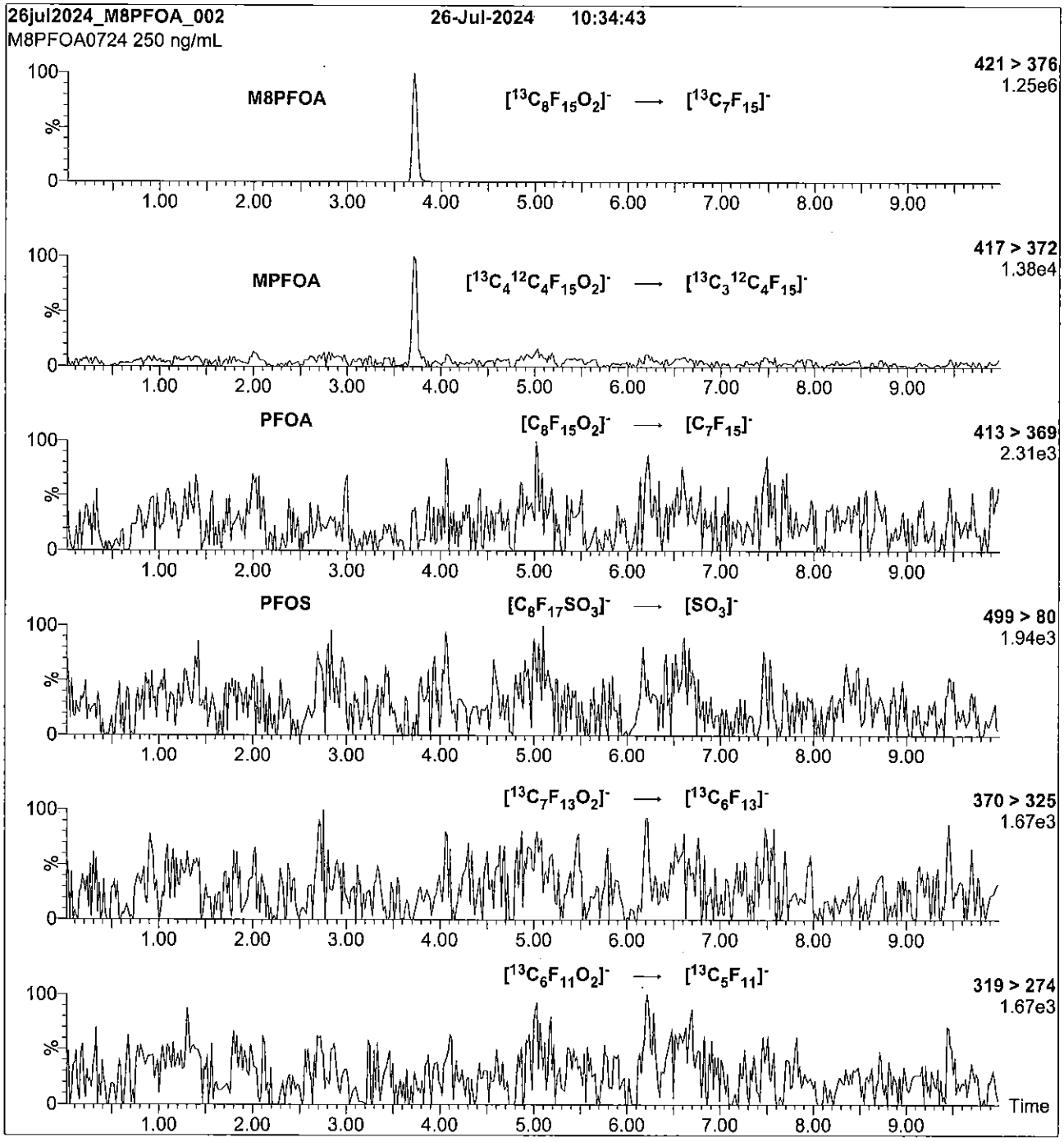
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **M8PFOA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M8PFOA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.39e-3
Collision Energy (eV) = 8

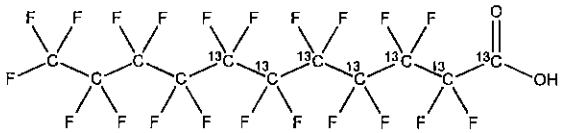
Reagent

PFC_ST_04366

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:	M7PFUdA	**LOT NUMBER:**	M7PFUdA1124
COMPOUND:	Perfluoro-n-(1,2,3,4,5,6,7-$^{13}C_7$)undecanoic acid		
STRUCTURE:		**CAS #:**	Not available



MOLECULAR FORMULA:	$^{13}C_7{}^{12}C_4HF_{21}O_2$	**MOLECULAR WEIGHT:**	571.04
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	12/03/2024		
EXPIRY DATE: (mm/dd/yyyy)	12/03/2029		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

7761470
ID: PFC_ST_04367
Exp:12/03/29 Prpd:WTU3 Opn:
M7PFUdA Stock
410-7761470

7761469
ID: PFC_ST_04366
Exp:12/03/29 Prpd:WTU3 Opn:
M7PFUdA Stock
410-7761469

7761467
ID: PFC_ST_04365
Exp:12/03/29 Prpd:WTU3 Opn:
M7PFUdA Stock
410-7761467

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 12/06/2024 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

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HANDLING:

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where x is expressed as a relative standard uncertainty of the individual parameter.

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

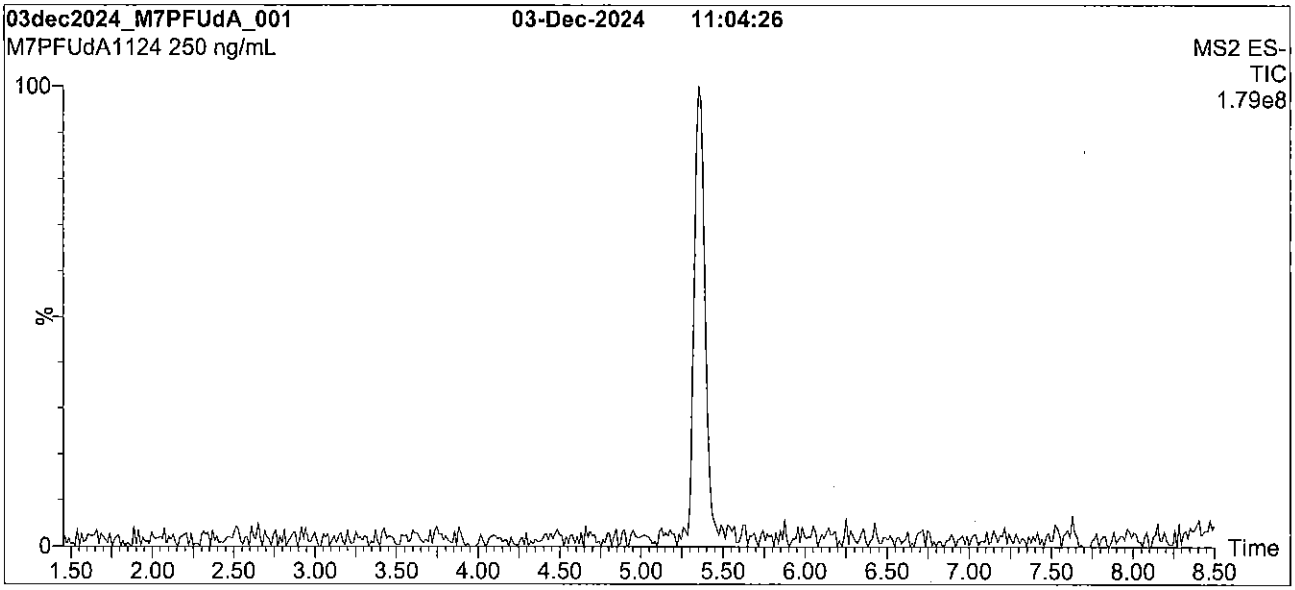
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

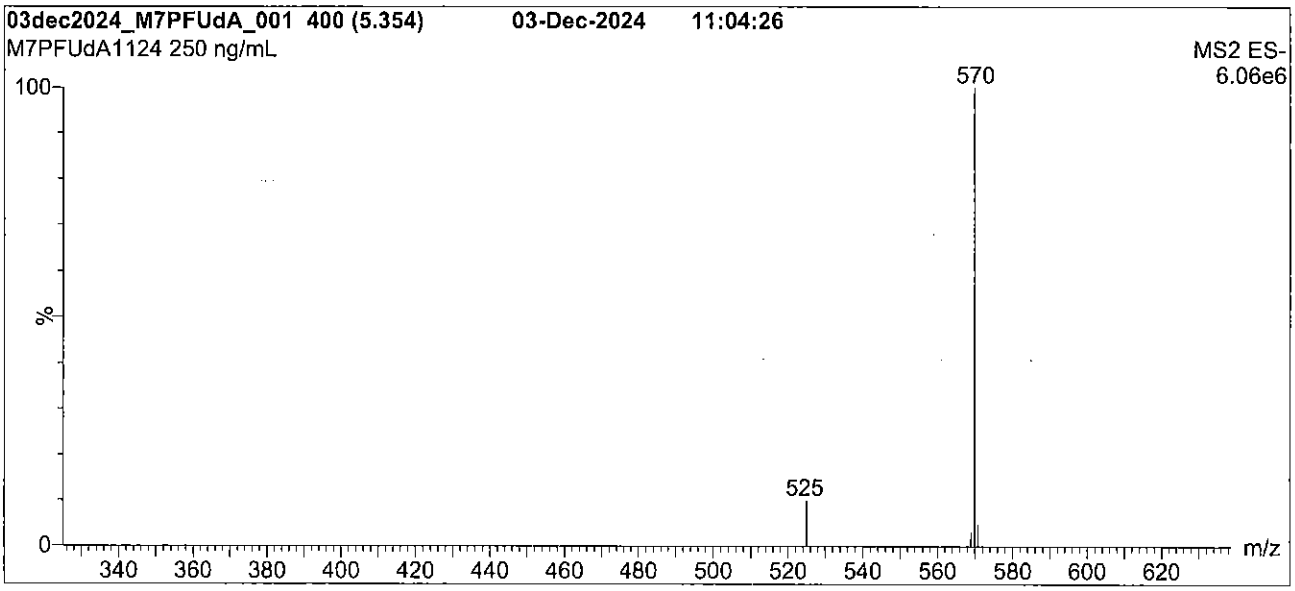
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **M7PFUdA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

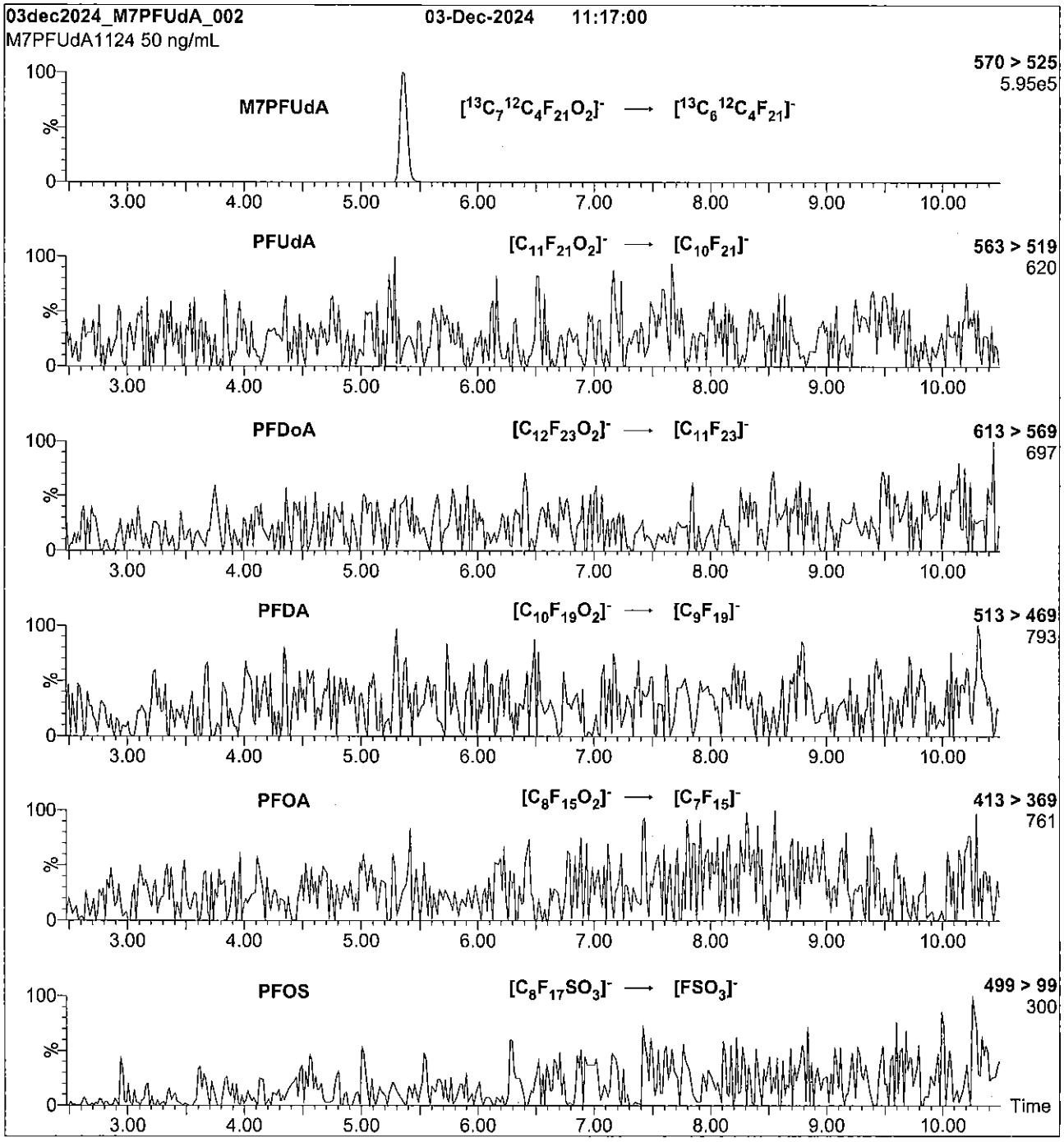
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (325 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **M7PFUdA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M7PFUdA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.34e-3
Collision Energy (eV) = 12

Reagent

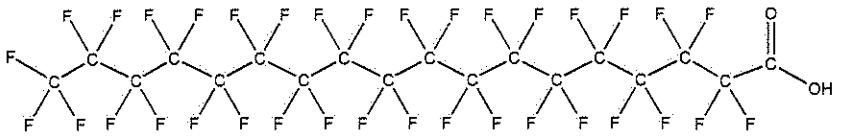
PFC_ST_04388

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_03386

PRODUCT CODE.	PFODA	**LOT NUMBER.**	PFODA0224
COMPOUND.	Perfluoro-n-octadecanoic acid		
STRUCTURE.		**CAS #:**	16517 11-6



410-6842695

MOLECULAR FORMULA.	$C_8HF_{35}O_2$	**MOLECULAR WEIGHT:**	914 14
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	02/21/2024		
EXPIRY DATE. (mm/dd/yyyy)	02/21/2029		
RECOMMENDED STORAGE.	Store ampoule at ambient temperature in a dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- The solubility of this product in methanol is very sensitive to storage conditions and solvent composition The stated validity period applies to the sealed ampoules stored at ambient temperature

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 02/21/2024 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc. 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR GC/MS LC/MS/MS SFC/UV/MS/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent s taken nto consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS/MS and/or SFC/UV/MS/MS The relative response factors of the analyte of nterest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions n the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$, of a value y and the uncertainty of the independent parameters x x_2, x_n on which it depends is.

$$u\ (y(x\ \ x\ \ \ x_n)) = \sqrt{\sum^{n} u(y\ x\ )^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The ndividual uncertainties taken into account include those associated with weights (cal'bration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing us ng calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability n its composition and concentration until the specified expiry date n the unopened ampoule Monitoring for any degradation or change n concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

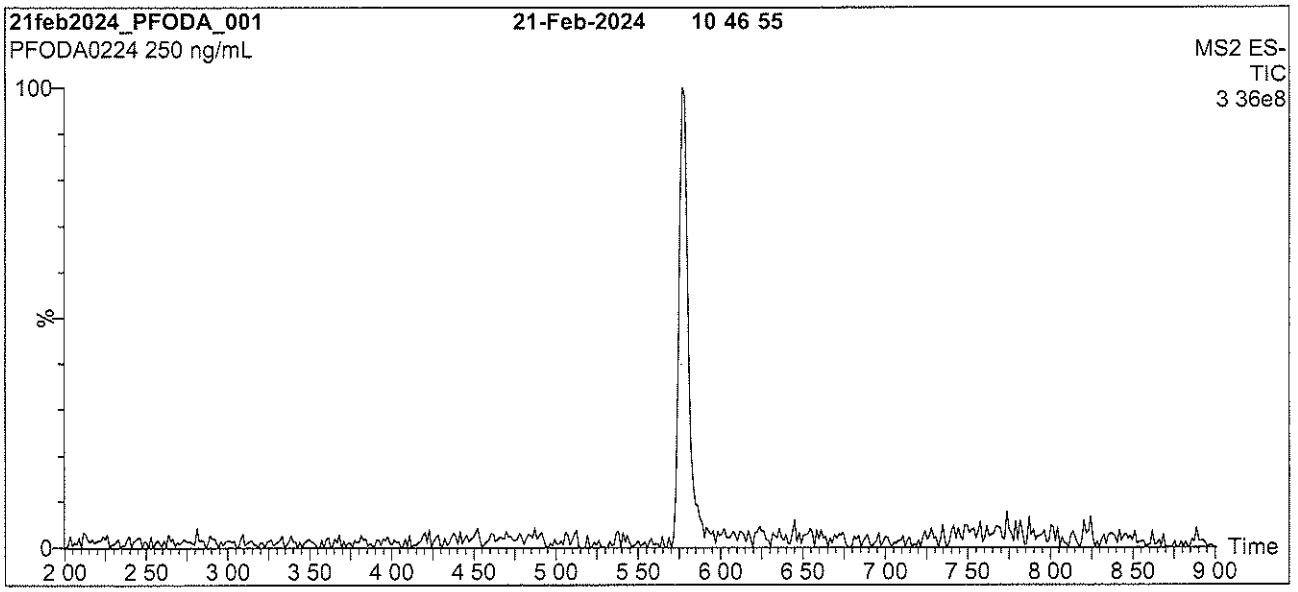
This product was produced using a Quality Management System registered to the latest vers ons of ISO 9001 by SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by ANSI National Accreditation Board (ANAB AR-1523)

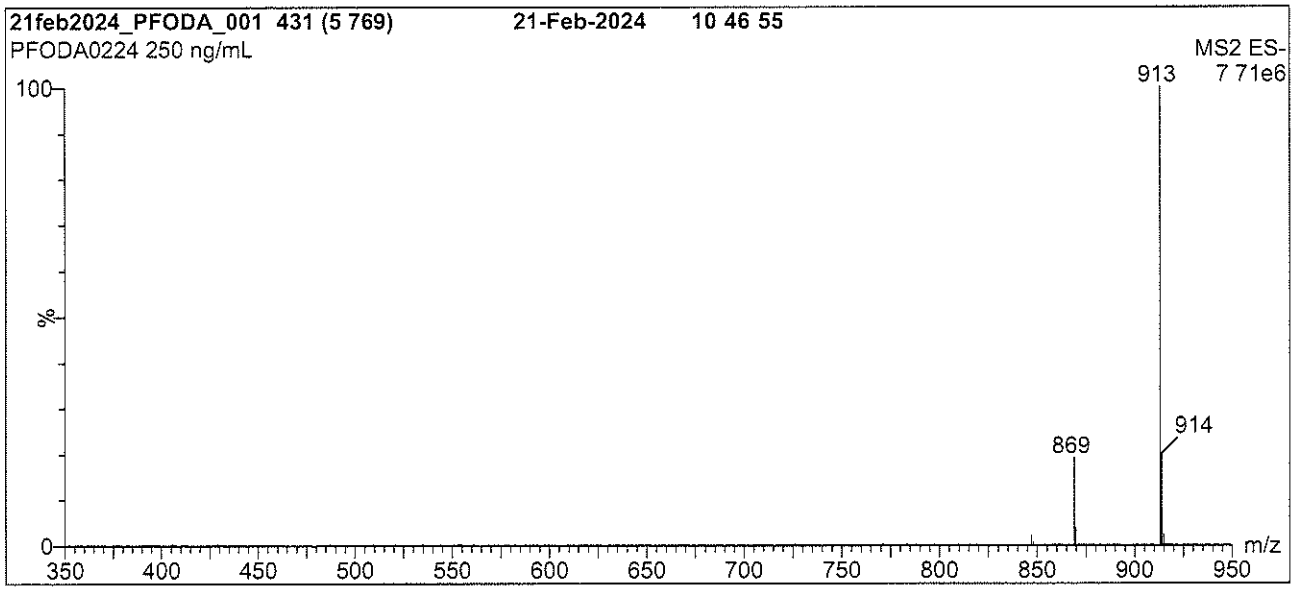
CALA sting Accreditation No A1226

ANAB ANSI Na onal Ac reditat Bo rd ACCRED TED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **PFODA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC -Class
Waters Xevo TQ-S Micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 m`n and hold for
2 min before returning to initial conditions n 0 5 min
Time 12 m n

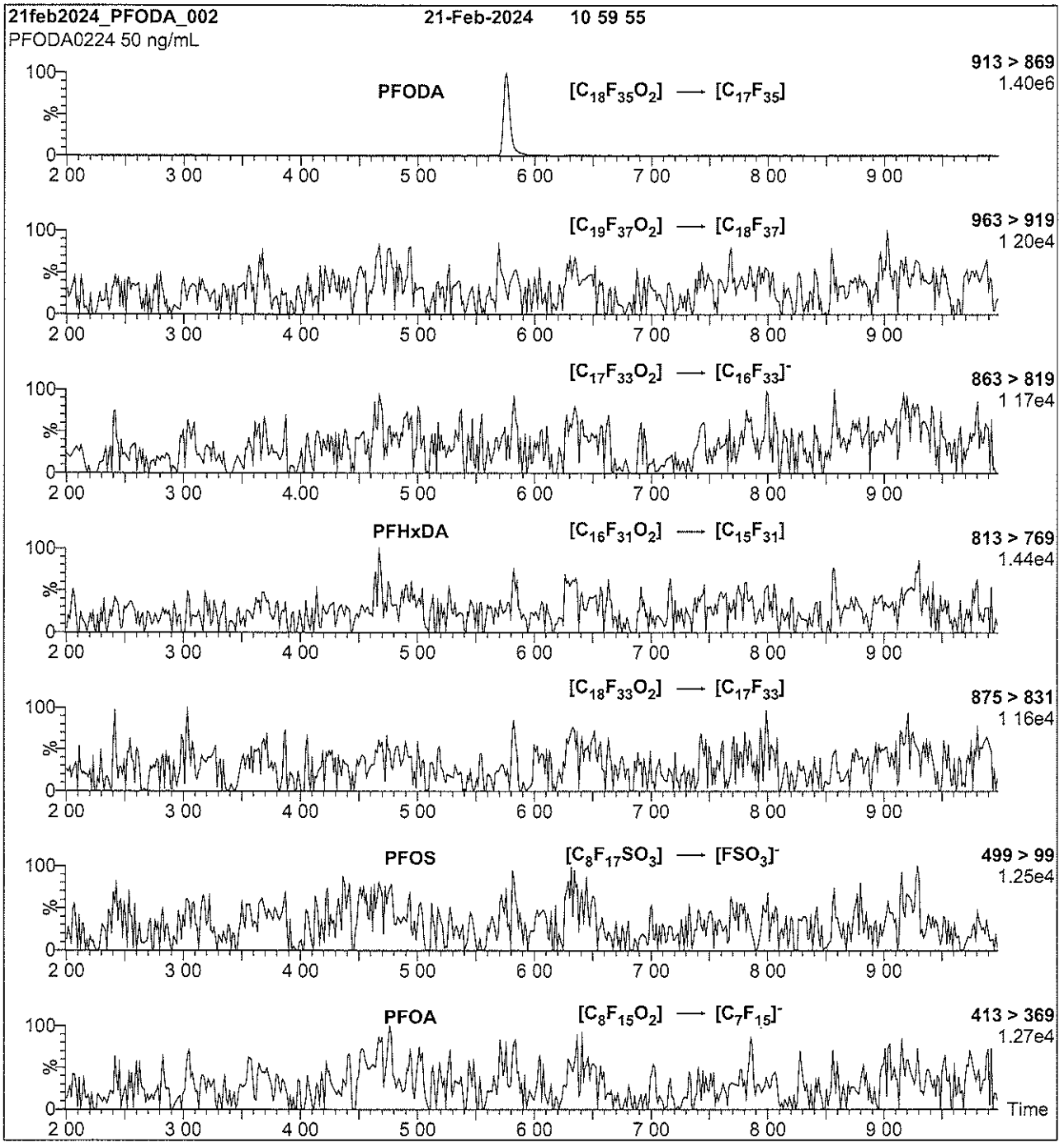
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (350 950 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **PFODA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (PFODA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.44e-3
Collision Energy (eV) = 15

Reagent

PFC_ST_04423

WELLINGTON LABORATORIES

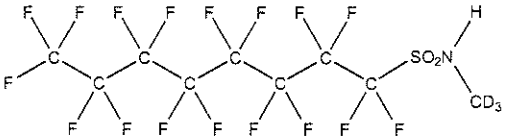
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE. d N-MeFOSA-M
COMPOUND. N Methyl-d_3-perfluoro-1-octanesulfonamide

LOT NUMBER. dNMeFOSA1024M

STRUCTURE.

CAS #. 936109-37-4



MOLECULAR FORMULA.	$C_8D_3HF_{17}NO_2S$	**MOLECULAR WEIGHT:**	516 19
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY.**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	10/15/2024		
EXPIRY DATE. (mm/dd/yyyy)	10/15/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

7881335
ID: PFC_ST_04421
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d3-NMePFOSA Stock

7881337
ID: PFC_ST_04422
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d3-NMePFOSA Stock

7881338
ID: PFC_ST_04423
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d3-NMePFOSA Stock

7881339
ID: PFC_ST_04424
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d3-NMePFOSA Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details

410-7881338

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 10/18/2024 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

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SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility n a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the ntegrity of the assigned value(s) and associated uncertainty the d'lution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncerta nty of the independent parameters x x_2, x_n on which it depends is

$$u\ (y(x\ \ x\quad x\ )) = \sqrt{\sum u(_\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account nclude those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using cal brated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited aboratory For certain products, traceability to international nterlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date n the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

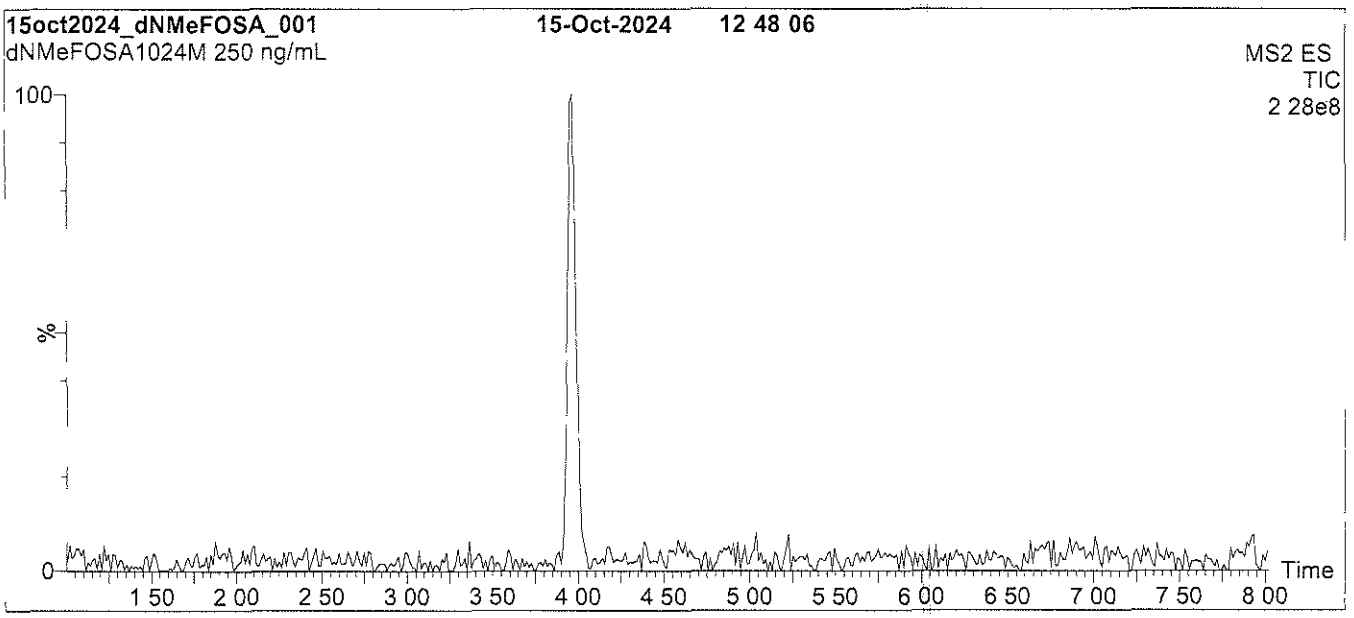
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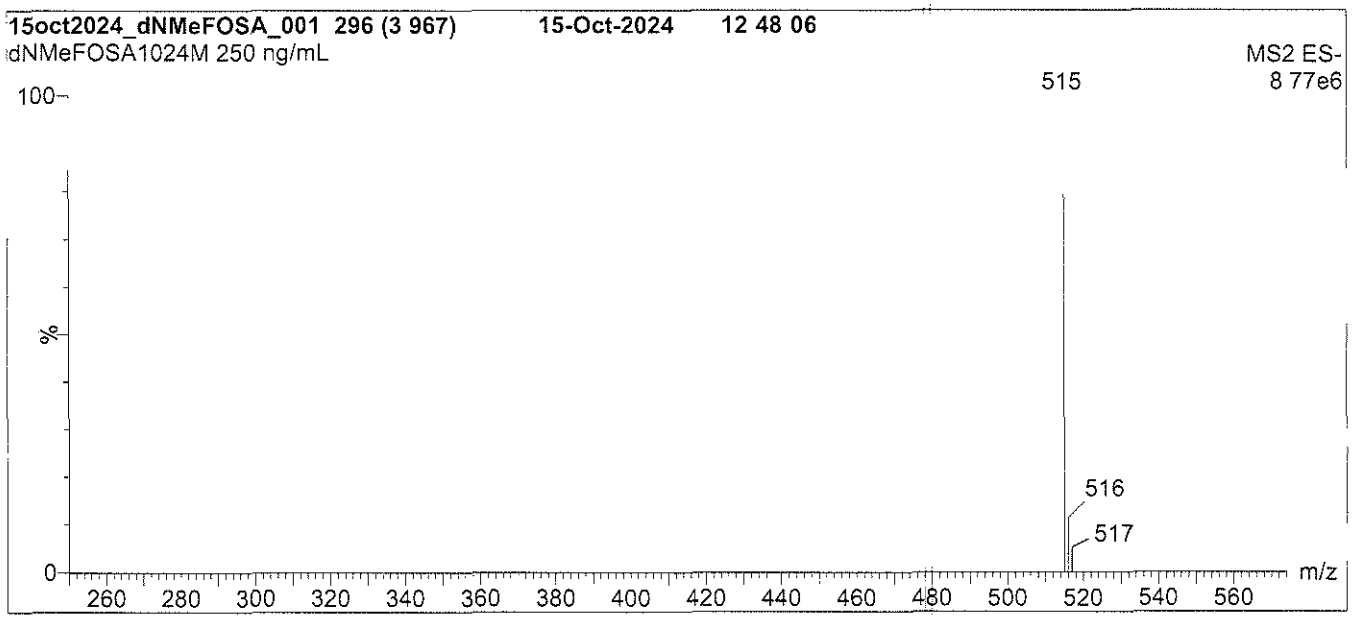
CALA Testing Accreditation No. A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **d-N-MeFOSA-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP$_8$ 1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% (80 20 MeOH.ACN)
(both with 10 mM NH OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

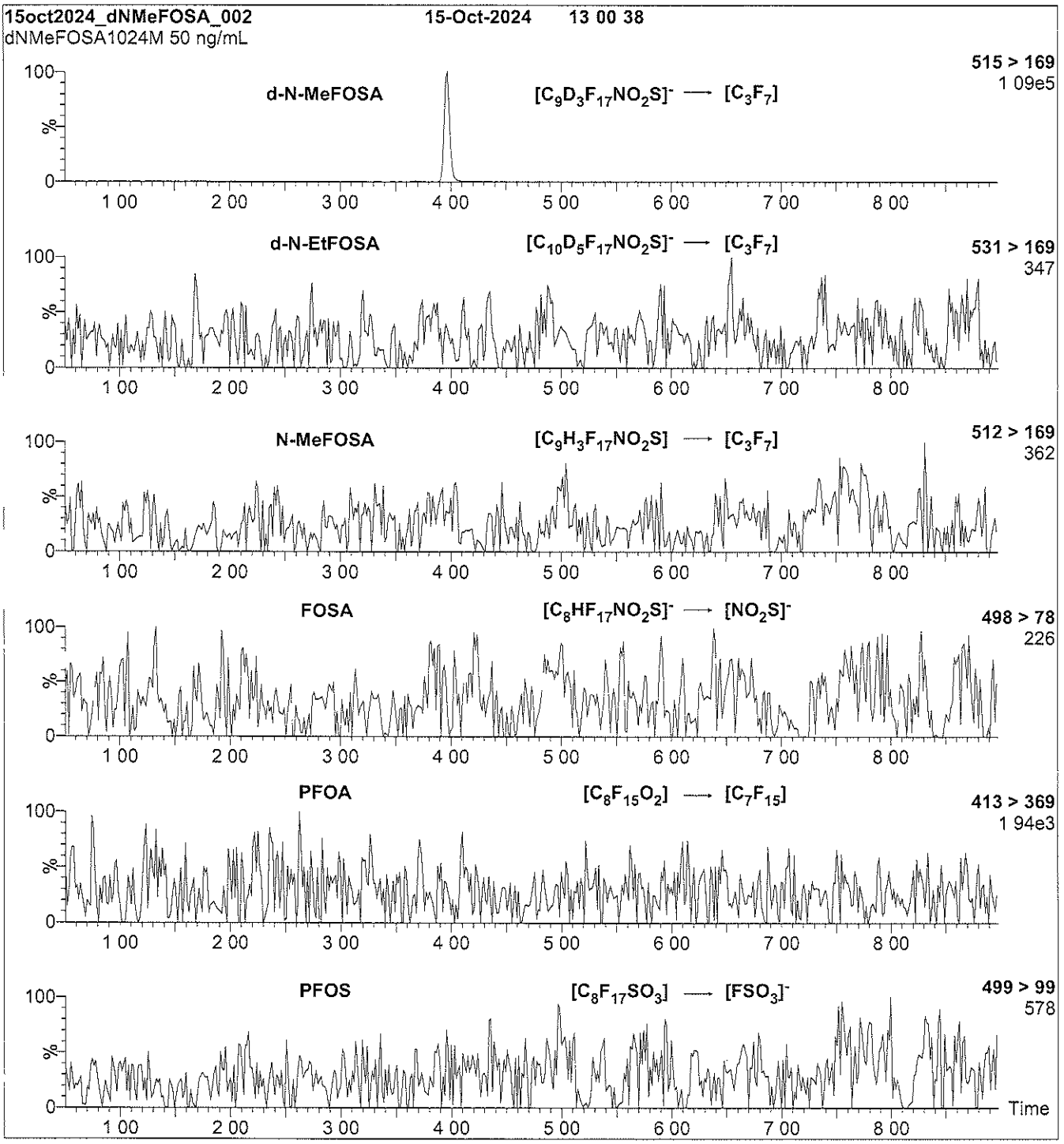
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 1 00
Cone Voltage (V) = 44 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **d-N-MeFOSA-M, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (d-N-MeFOSA-M)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.24e-3
Collision Energy (eV) = 24

Reagent

PFC_ST_04434

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No PFOS-030S
Description Bis(trifluoromethane)sulfonimide lithium salt (HQ-115)
Lot: 225031579
Solvent: Methanol
Hazards *Refer to SDS for complete safety information*



Signal Word Danger

Date Certified Apr 4 2025
Expiration May 4 2027
Sample Size 1 mL
Components 1
Storage Condition Freeze (< 10 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Bis(trifluoromethane)sulfonimide lithium salt	90076-65-6	97 0	103.2*	100 1

7897366
ID: PFC_ST_04433
Exp:05/04/27 Prpd:WTU3 Opn:
Native TFSI Lithium Salt

7897392
ID: PFC_ST_04434
Exp:05/04/27 Prpd:WTU3 Opn:
Native TFSI Lithium Salt

7897393
ID: PFC_ST_04435
Exp:05/04/27 Prpd:WTU3 Opn:
Native TFSI Lithium Salt

410-7897392

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT 1339) and ISO 17034 (AR-1463)

* Weight compensated to 100% purity

A product with a suffix (1A, -2B, etc. or -01 -02 etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

Certified Analyte Concentration Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4% and was determined in accordance with ISO 17034. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS LC/MS NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values. A comma (,) is used to separate units of one-thousand or greater A period (.) is used as a decimal place marker

The information on this certificate may not be reproduced without the express permission of the manufacturer See reverse side for additional information

Hazard Information Please refer to the SDS for information regarding the hazards associated with using this material

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

1 **Quality Standards**

ISO 17034 2016 – General Requirements for the Competence of Reference Material Producers

ISO/IEC 17025.2017 – General Requirements for the Competence of Testing And Calibration Laboratories

ISO 9001 2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side This product can be used for quantification and/or identification This product can also be used as a reference material to validate analytical procedures subject to the conditions under Section 7

3. **Manufacturing·** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory Please refer to the NIST test number listed on the front of this certificate Class A glassware is used in the manufacture and quality control of all standards Good Laboratory Practices have been used throughout the preparation of this Standard

4. **Homogeneity·** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability·** The manufacturer guarantees the stability of this solution through the expiration date stated on the label when handled and stored according to the conditions stated on the label

6. **Uncertainty·** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass volume short-term stability long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level

7 **Legal Notice and Limit of Liability.** This product is for routine laboratory analysis and research purposes only The company's liability will be limited to replacement of product or refund of purchase price Notice of claims must be made within thirty (30) days from date of delivery

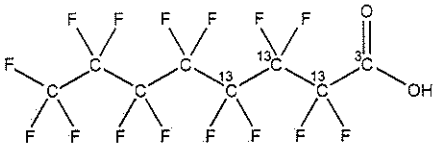
Reagent

PFC_ST_04469

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE.	MPFOA	**LOT NUMBER.**	MPFOA1124
COMPOUND.	Perfluoro-n (1 2 3 4- $^{3}C_{4}$)octanoic acid		
STRUCTURE.		**CAS #.**	960315-48-4



7930738
ID: PFC_ST_04468
Exp:11/27/29 Prpd:WTU3 Opn:
Labeled MPFOA Stock

7930740
ID: PFC_ST_04469
Exp:11/27/29 Prpd:WTU3 Opn:
Labeled MPFOA Stock

MOLECULAR FORMULA.	$^{3}C_{4}{}^{12}C_{4}HF_{5}O_{2}$	**MOLECULAR WEIGHT:**	418 04
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	11/27/2024		
EXPIRY DATE. (mm/dd/yyyy)	11/27/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

410-7930740

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 12/04/2024 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

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HOMOGENEITY:

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

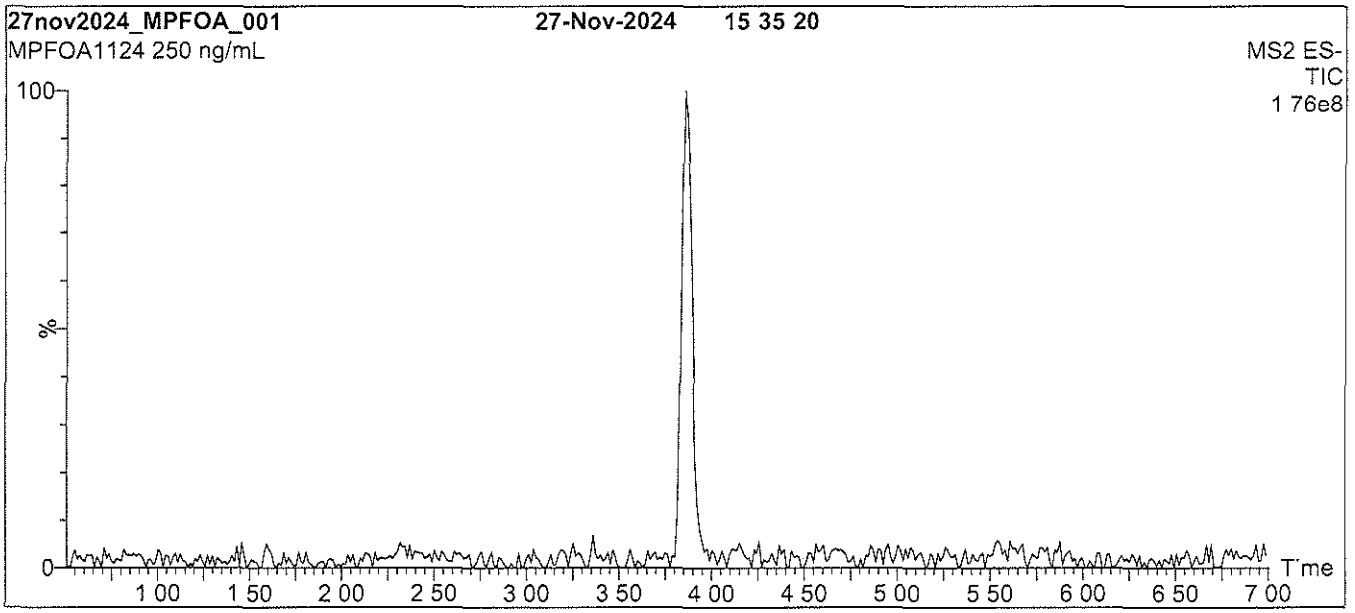
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

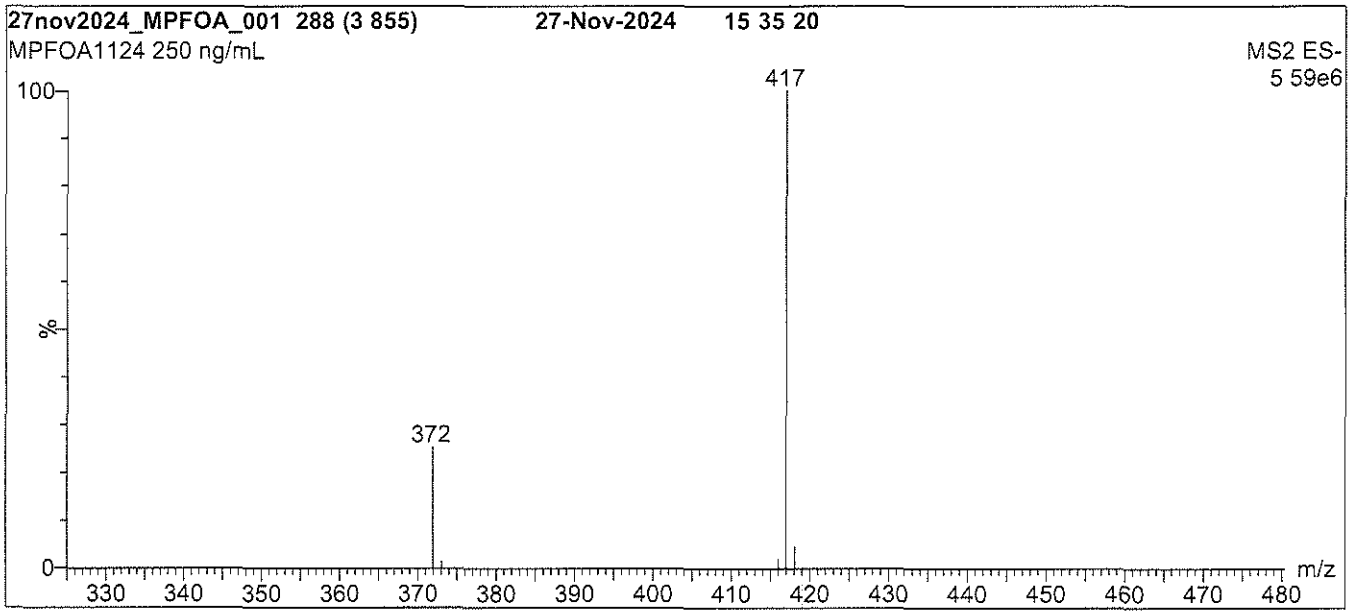
CALA Accreditation No. A 226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFOA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start. 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

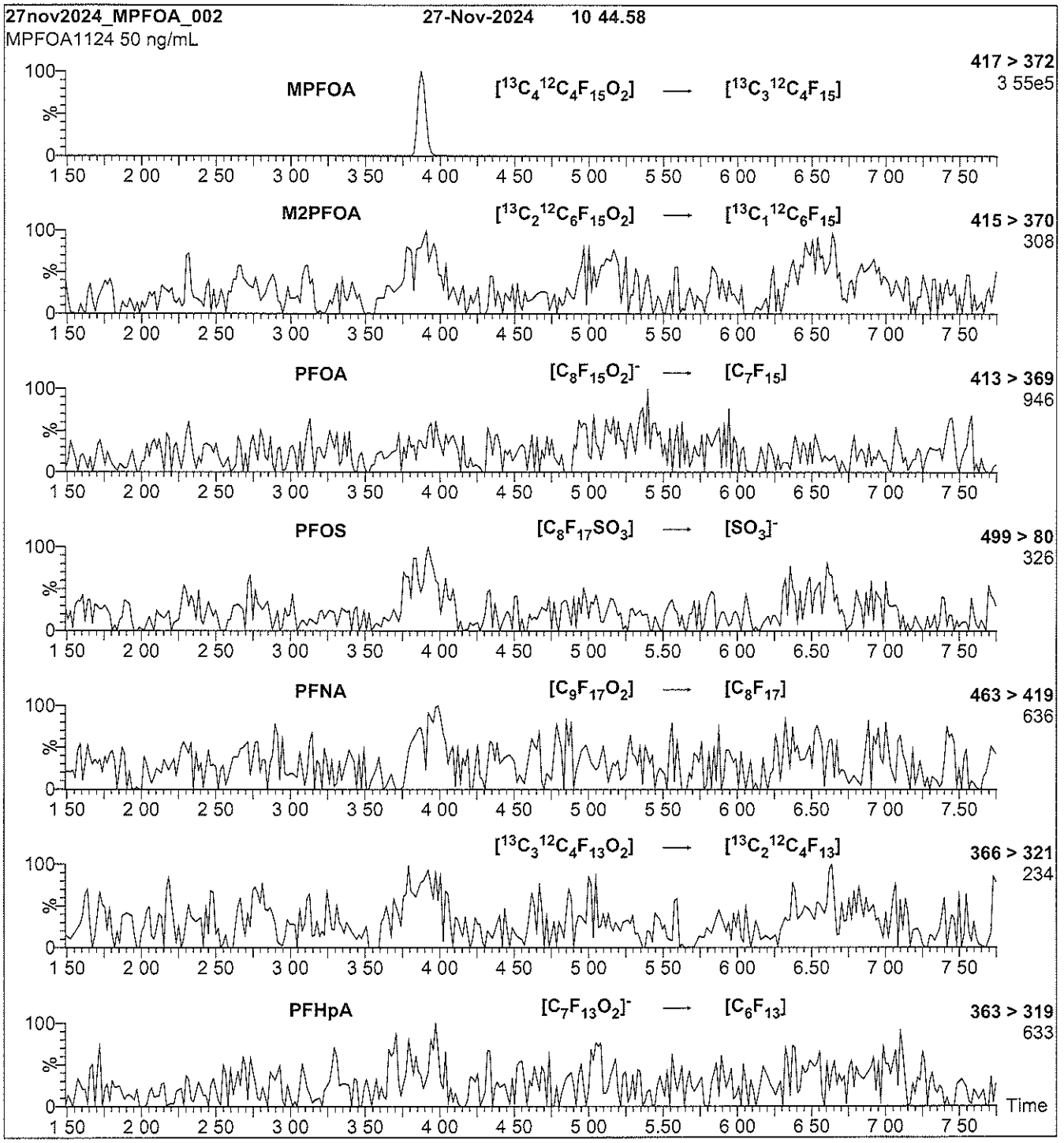
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (325 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFOA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (MPFOA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.24e-3
Collision Energy (eV) = 8

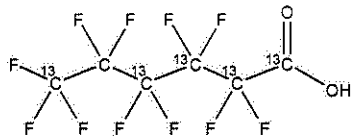
Reagent

PFC_ST_04485

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	M5PFHxA	**LOT NUMBER.**	M5PFHxA1224
COMPOUND.	Perfluoro-n-(1 2 3,4 6- $^{3}C_{5}$)hexanoic acid		
STRUCTURE.		**CAS #.**	2328024-54-8



410-7931216

MOLECULAR FORMULA.	$^{13}C_{5}{}^{12}C_{1}HF_{11}O_{2}$	**MOLECULAR WEIGHT:**	319 02
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	01/02/2025		
EXPIRY DATE. (mm/dd/yyyy)	01/02/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

7931214
ID: PFC_ST_04483
Exp:01/02/30 Prpd:WTU3 Opn:
M5PFHxA Stock

7931215
ID: PFC_ST_04484
Exp:01/02/30 Prpd:WTU3 Opn:
M5PFHxA Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

7931216
ID: PFC_ST_04485
Exp:01/02/30 Prpd:WTU3 Opn:
M5PFHxA Stock

7931217
ID: PFC_ST 04486
Exp:01/02/30 Prpd:WTU3 Opn:
M5PFHxA Stock

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 01/06/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty the dilution or njection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the ndependent parameters x x_2, x_n on which it depends is

$$u\ (y(x_1\ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x\ )}$$

where x s expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken nto account include those associated with weights (calibration of the balance) and volumes (cal'bration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly cal'brated by an external ISO/IEC 17025 accredited laboratory In addition their cal'bration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability n its composition and concentration until the specified expiry date, in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

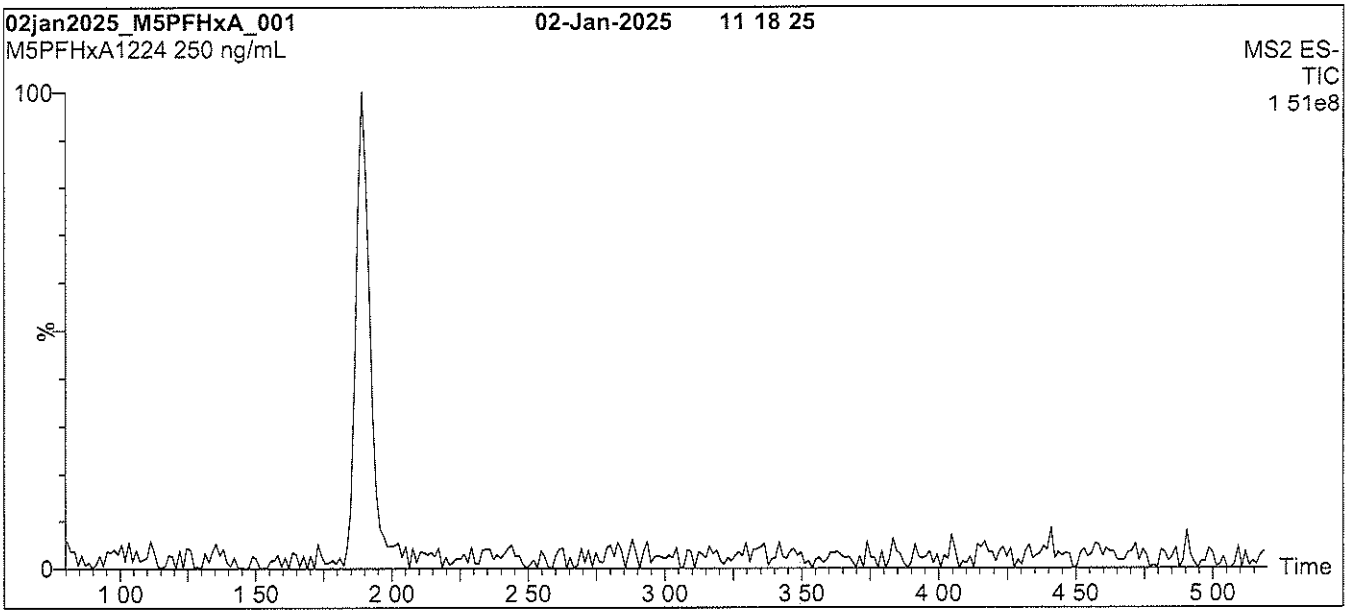
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

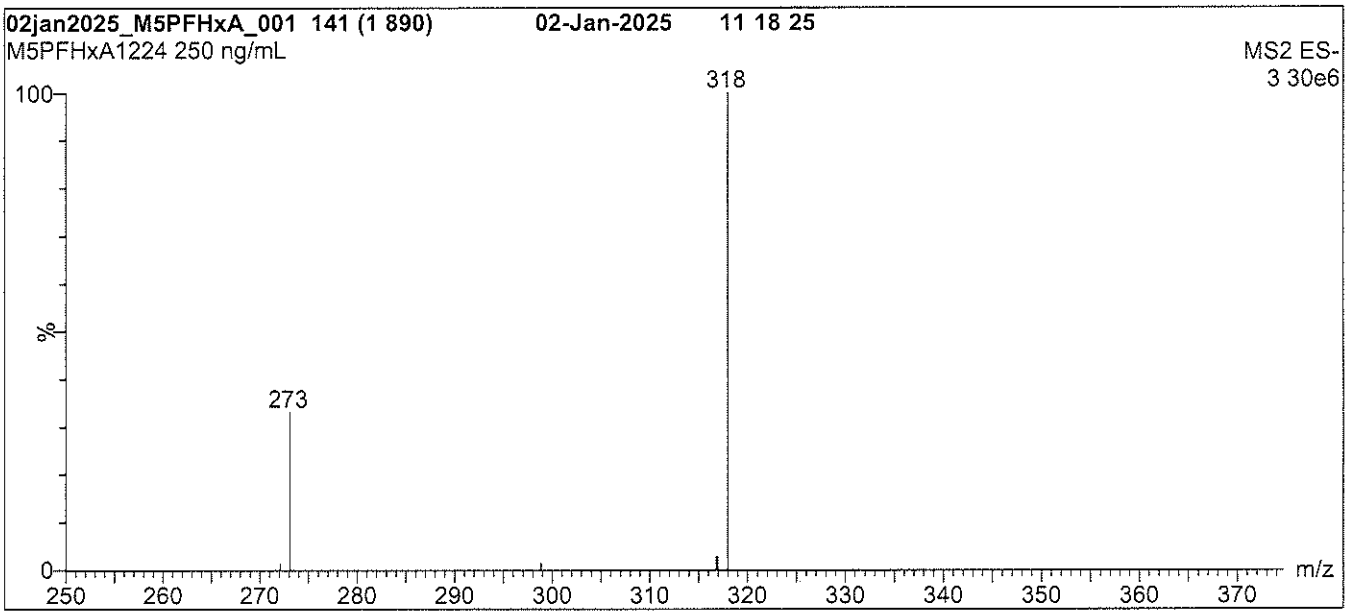
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M5PFHxA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

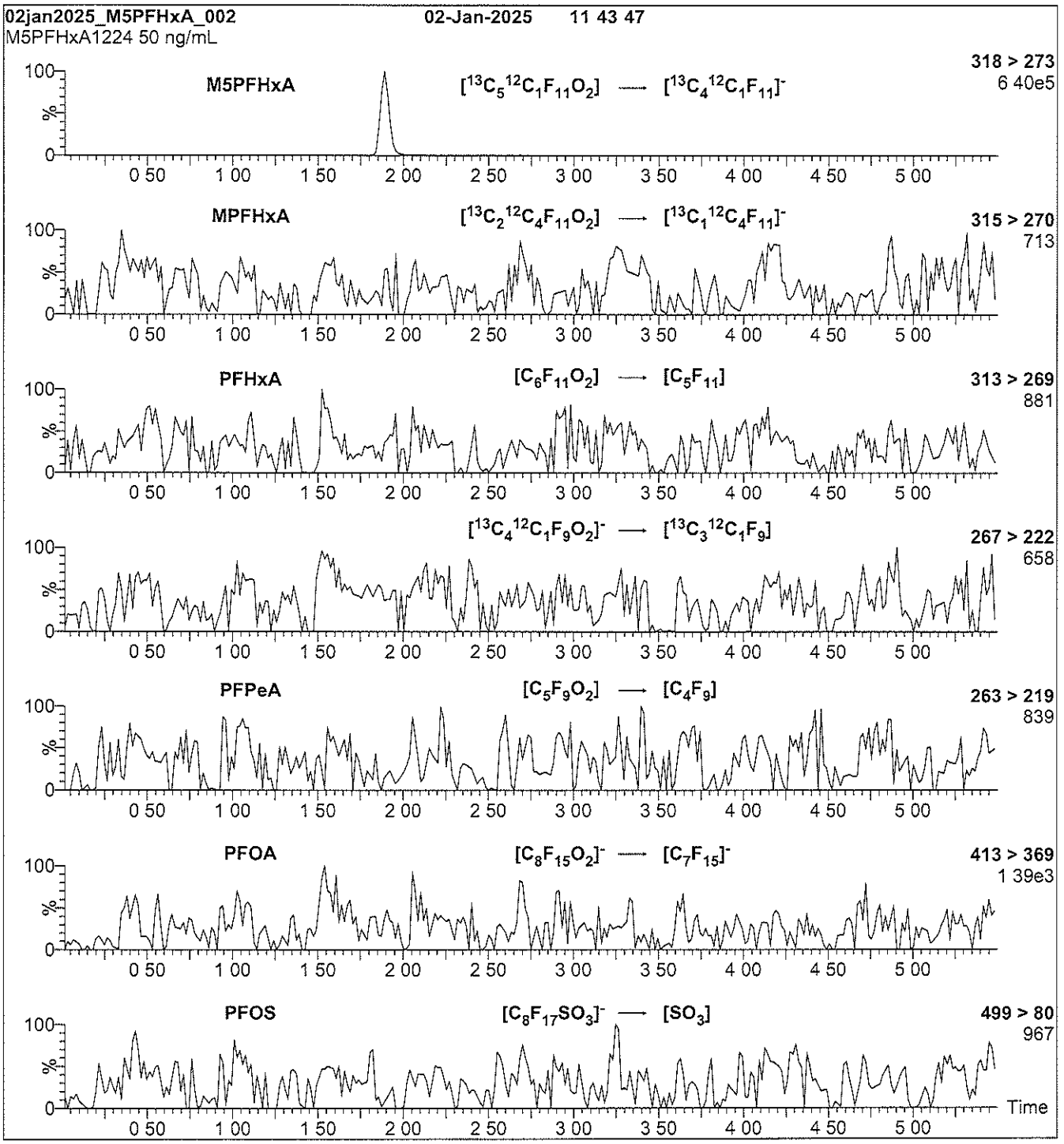
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80.20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0 5 min Time: 12 min
Flow	300 µL/m n

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M5PFHxA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M5PFHxA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5 87e-3
Collision Energy (eV) = 8

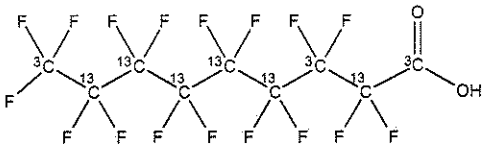
Reagent

PFC_ST_04487

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	M9PFNA	**LOT NUMBER.**	M9PFNA0325
COMPOUND.	Perfluoro-n ($^{13}C_9$)nonanoic acid		
STRUCTURE.		**CAS #.**	2283397-80-6



410-7931392

MOLECULAR FORMULA.	$^{13}C_9HF_{17}O_2$	**MOLECULAR WEIGHT:**	473 01
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY.**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	04/02/2025		
EXPIRY DATE. (mm/dd/yyyy)	04/02/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

7931392
ID: PFC_ST_04487
Exp:04/02/30 Prpd:WTU3 Opn:
M9PFNA Stock

7931393
ID: PFC_ST_04488
Exp:04/02/30 Prpd:WTU3 Opn:
M9PFNA Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~1 0% of perfluoro-n-($^{13}C_5$)nonanoic acid (MPFNA) and ~0 2% of an unknown impurity

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 04/24/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
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HANDLING.

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility n a given d luent is taken nto consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are requ red to be <5% RSD New solution lots of existing products are compared to older lots n the same manner which further confirms the homogeneity of the crystalline material as well as the stab lity and homogeneity of the solutions n the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using cal'brated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The comb ned relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the ndependent parameters x x_2, x_n on which it depends is

$$u\ (y(x_1\ x\quad x_n)) - \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken nto account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceab lity to international interlaboratory studies has also been estabi shed

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

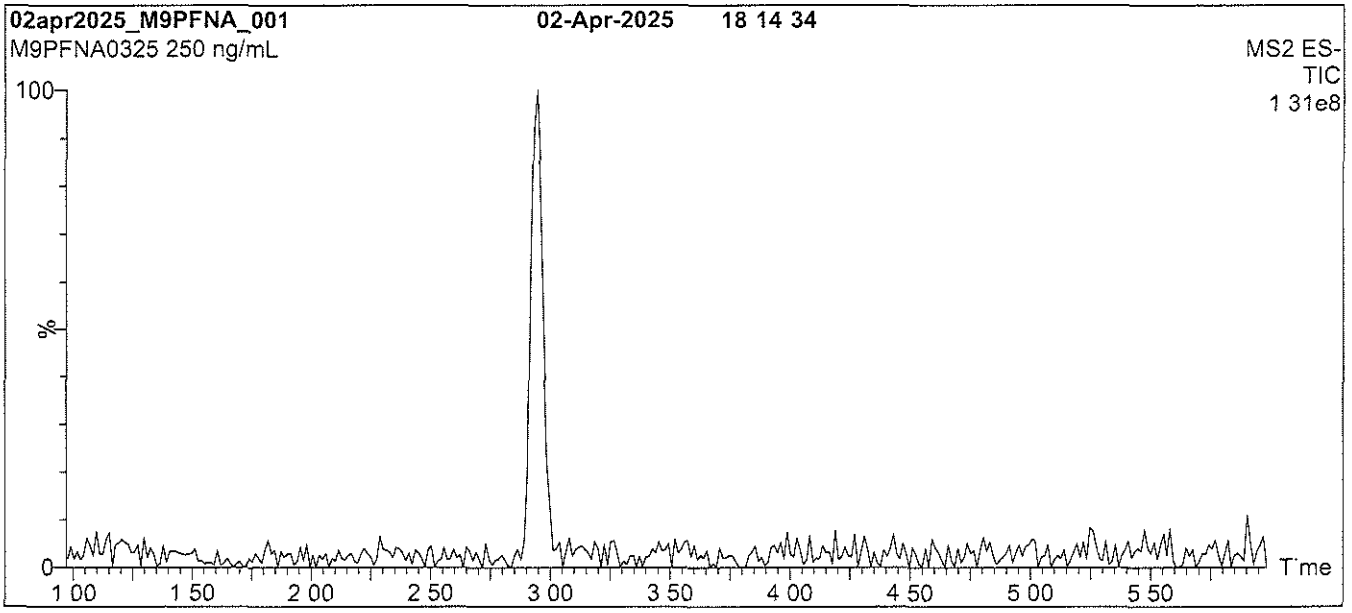
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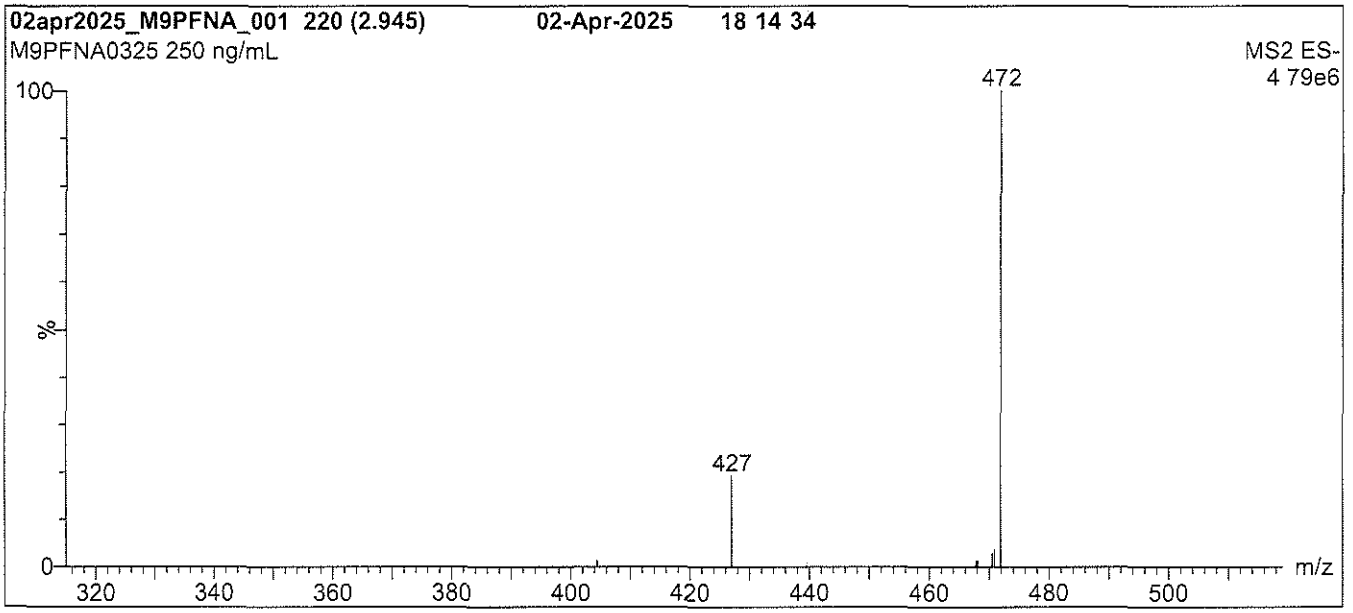
CALA Testing Accreditation No A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M9PFNA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 m n
before returning to initial conditions in 0.5 min
Time 12 min

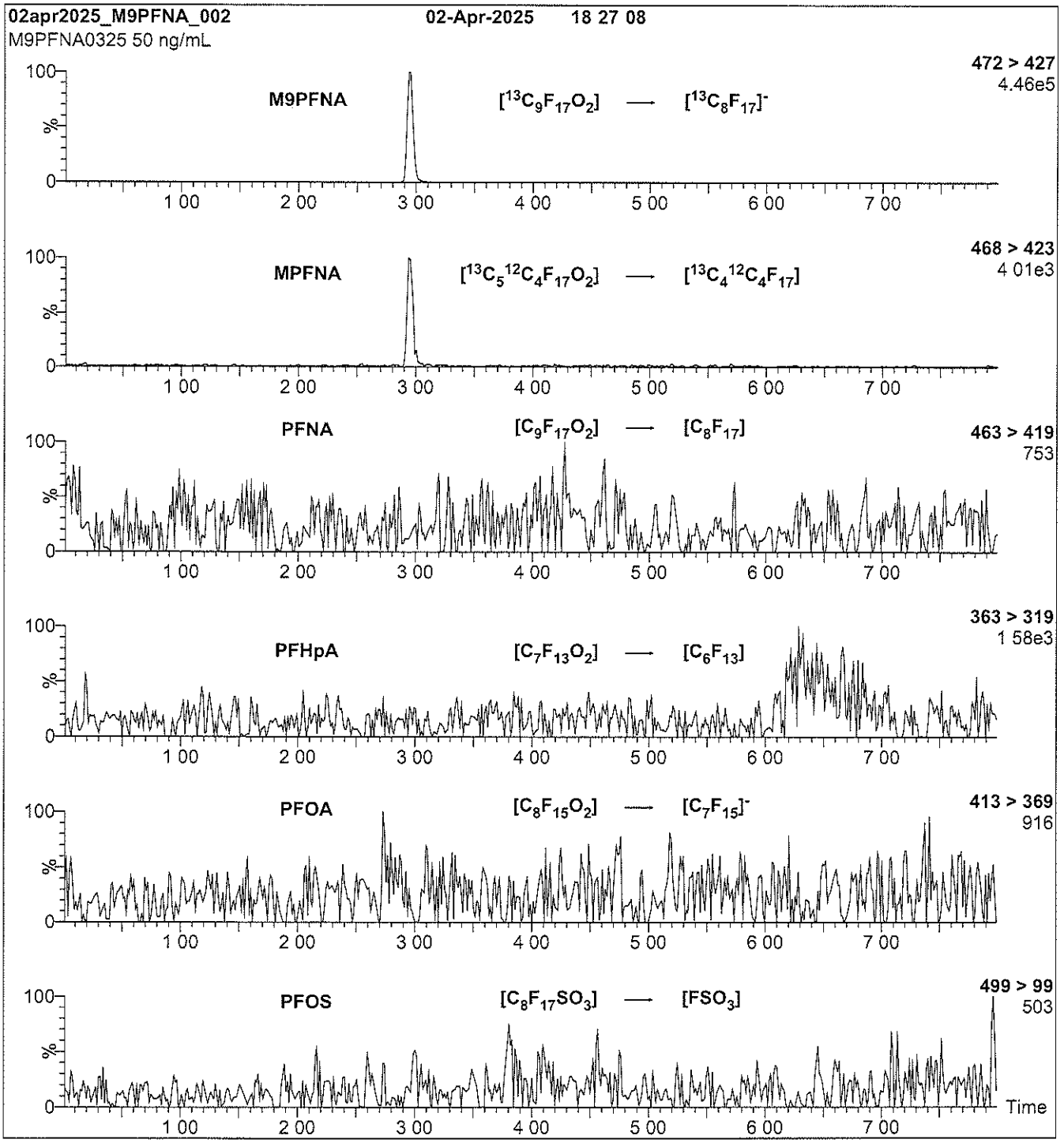
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M9PFNA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M9PFNA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4 16e-3
Collision Energy (eV) = 10

Reagent

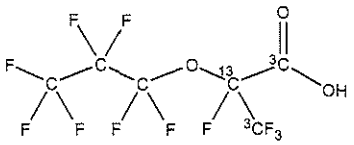
PFC_ST_04489

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	M3HFPO-DA	**LOT NUMBER.**	M3HFPODA0125
COMPOUND.	$^{3}C_{3}$-Hexafluoropropylene oxide dimer acid ($^{13}C_{3}$-GenX)		
IUPAC NAME.	*rac*-2 3 3 3 Tetrafluoro-2 (1 1 2 2 3 3 3-heptafluoropropoxy)($^{13}C_{3}$)propanoic acid		

STRUCTURE.



CAS #. 3030247-97-0

MOLECULAR FORMULA.	$^{13}C_{3}\ ^{2}C_{3}HF_{11}O_{3}$	**MOLECULAR WEIGHT:**	333 03
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY:**	≥99% ^{3}C
LAST TESTED. (mm/dd/yyyy)	01/30/2025		
EXPIRY DATE. (mm/dd/yyyy)	*01/30/2029*		
RECOMMENDED STORAGE.	Refrigerate ampoule		

410-7931526

7931526
ID: PFC_ST_04489
Exp: 01/30/29 Prpd: WTU3
Labeled M3HFPO-DA Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- *This compound is the $^{13}C_{3}$-labelled analogue of the major component of the commercial formulation* known as GenX.
- M3HFPO-DA is a mixture of two stereoisomers (a pair of enantiomers) that coelute using the provided conditions

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Certified By _____ **Date** 01/30/2025 (mm/dd/yyyy)
B G. Chittim General Manager

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where x is expressed as a relative standard uncertainty of the individual parameter

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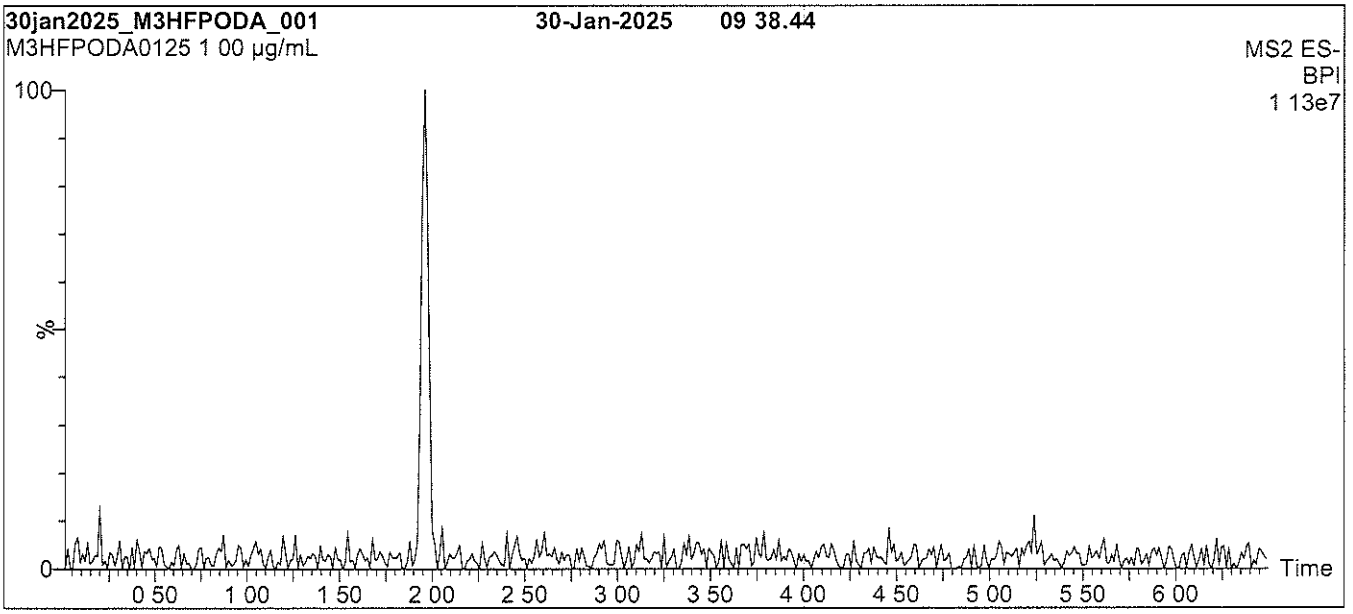
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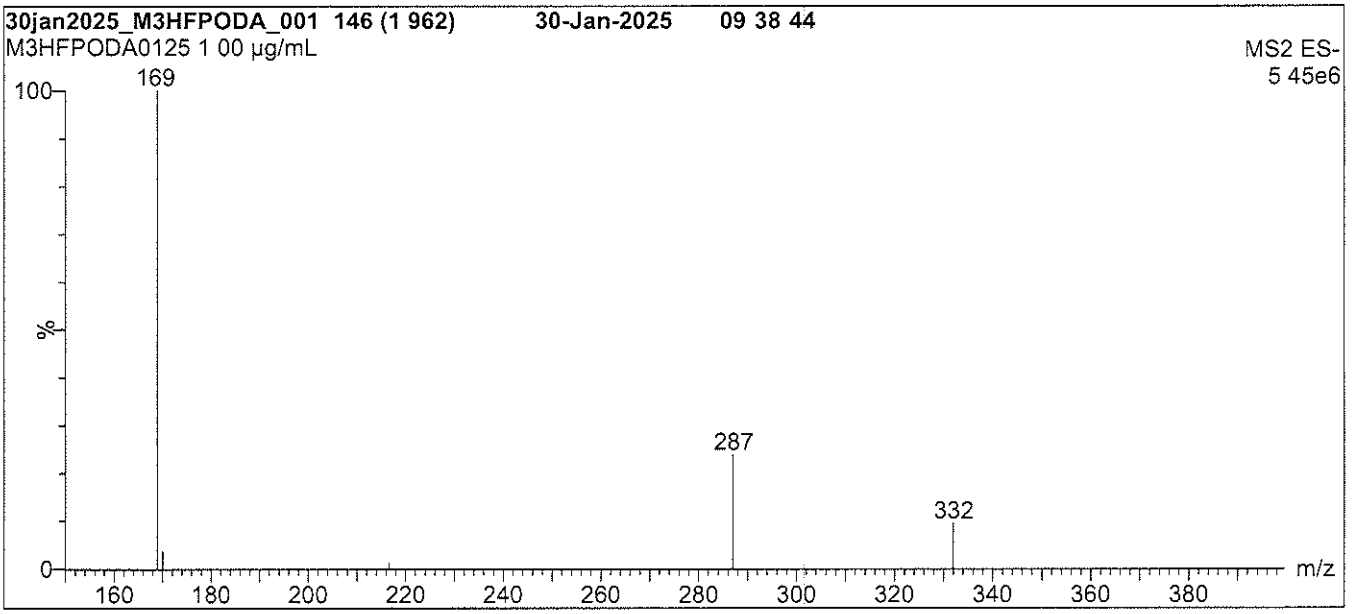
CALA
esting
Accreditation No. A 226

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ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

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Figure 1. **M3HFPO-DA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80 20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 12 min

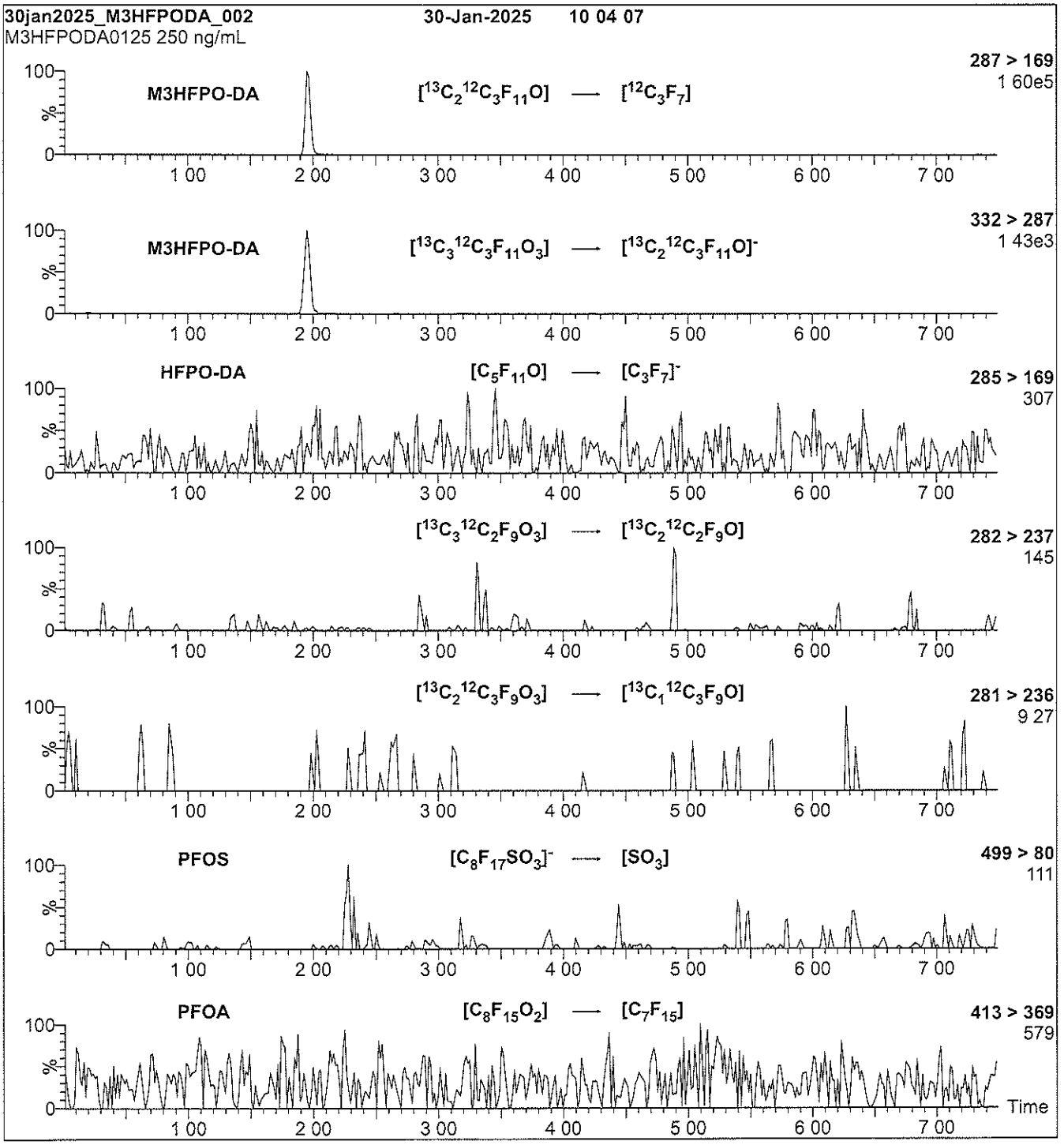
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 75
Cone Voltage (V) = 15 00
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3HFPO-DA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M3HFPO-DA)
Mobile phase	Same as Figure 1
Flow	300 µL/m n

MS Parameters.

Collision Gas (mbar) = 4.36e-3
Collision Energy (eV) = 8

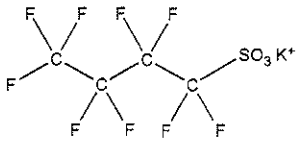
Reagent

PFC_ST_04490

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	L-PFBS	**LOT NUMBER.**	LPFBS0125
COMPOUND.	Potassium perfluoro-1-butanesulfonate		
STRUCTURE.		**CAS #:**	29420-49-3



MOLECULAR FORMULA.	$C_4F_9SO_3K$	**MOLECULAR WEIGHT.**	338 19
CONCENTRATION.	50 0 ± 2 5 µg/mL (K salt) 44 4 ± 2 2 µg/mL (PFBS acid) 44 2 ± 2 2 µg/mL (PFBS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY.	>98%		
LAST TESTED. (mm/dd/yyyy)	01/22/2025		
EXPIRY DATE. (mm/dd/yyyy)	01/22/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

410-7931549

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details

7931549
ID: PFC_ST_04490
Exp:01/22/30 Prpd:WTU3 Opn:
Native PFBS Stock

7931550
ID: PFC_ST_04491
Exp:01/22/30 Prpd:WTU3 Opn:
Native PFBS Stock

7931551
ID: PFC_ST_04492
Exp:01/22/30 Prpd:WTU3 Opn:
Native PFBS Stock

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Certified By _____ **Date** 02/04/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY.

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner wh ch further confirms the homogeneity of the crystall ne material as well as the stability and homogeneity of the solutions in the storage containers In order to mainta n the integrity of the assigned value(s), and associated uncerta nty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions s calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is.

$$u\ (y(x\ \ x\ \ \ x_n)) = \sqrt{\sum^{n} u(y\ x\ )^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The ndividual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY.

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weigh ng using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certa n products traceability to international interlaboratory stud es has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability stud es of this product have demonstrated stability n its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT.

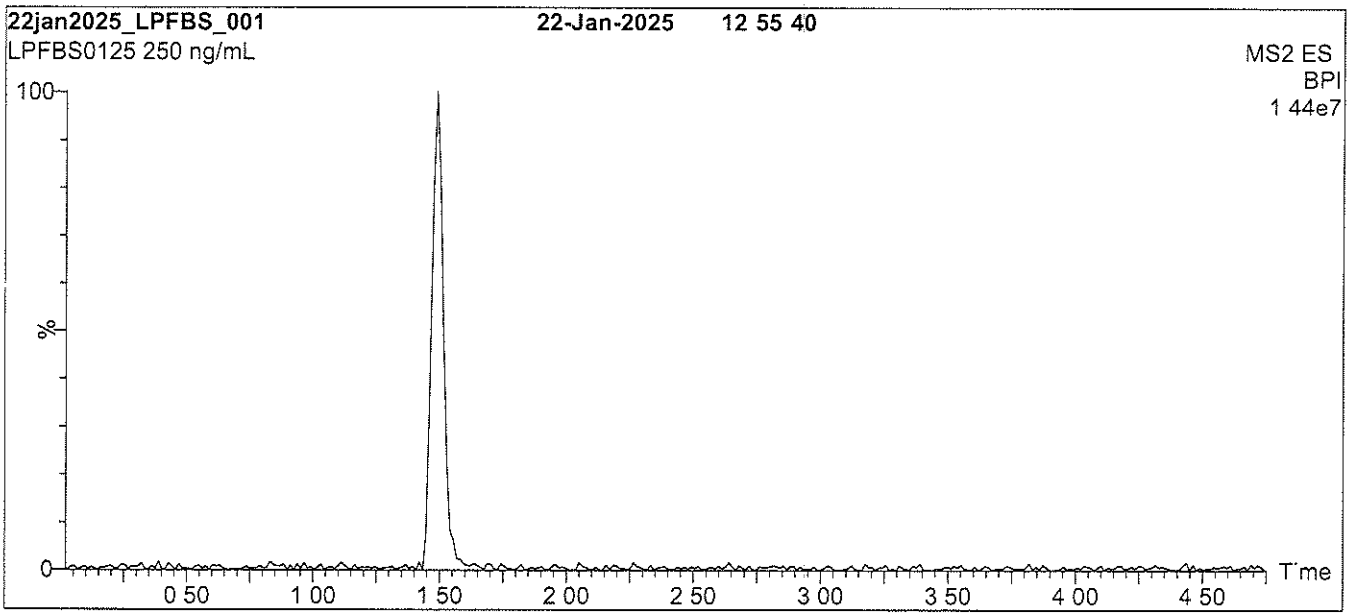
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

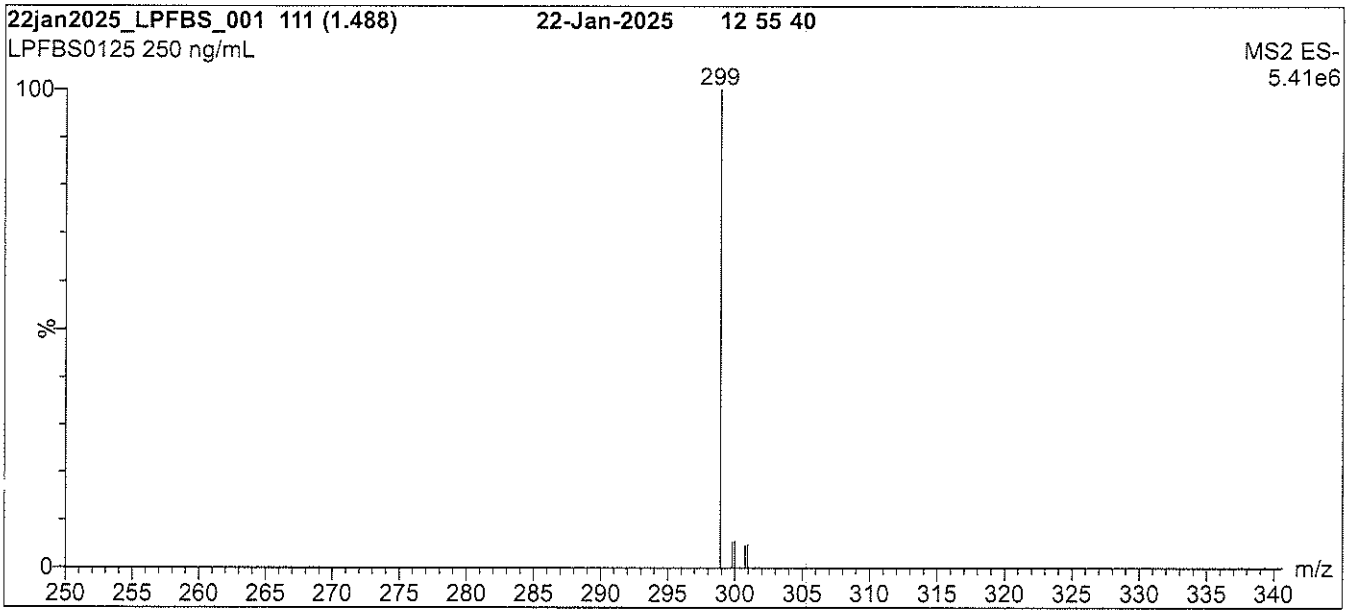
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **L-PFBS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Sh eld RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before return ng to nitial conditions over 0 5 min
Time 12 min

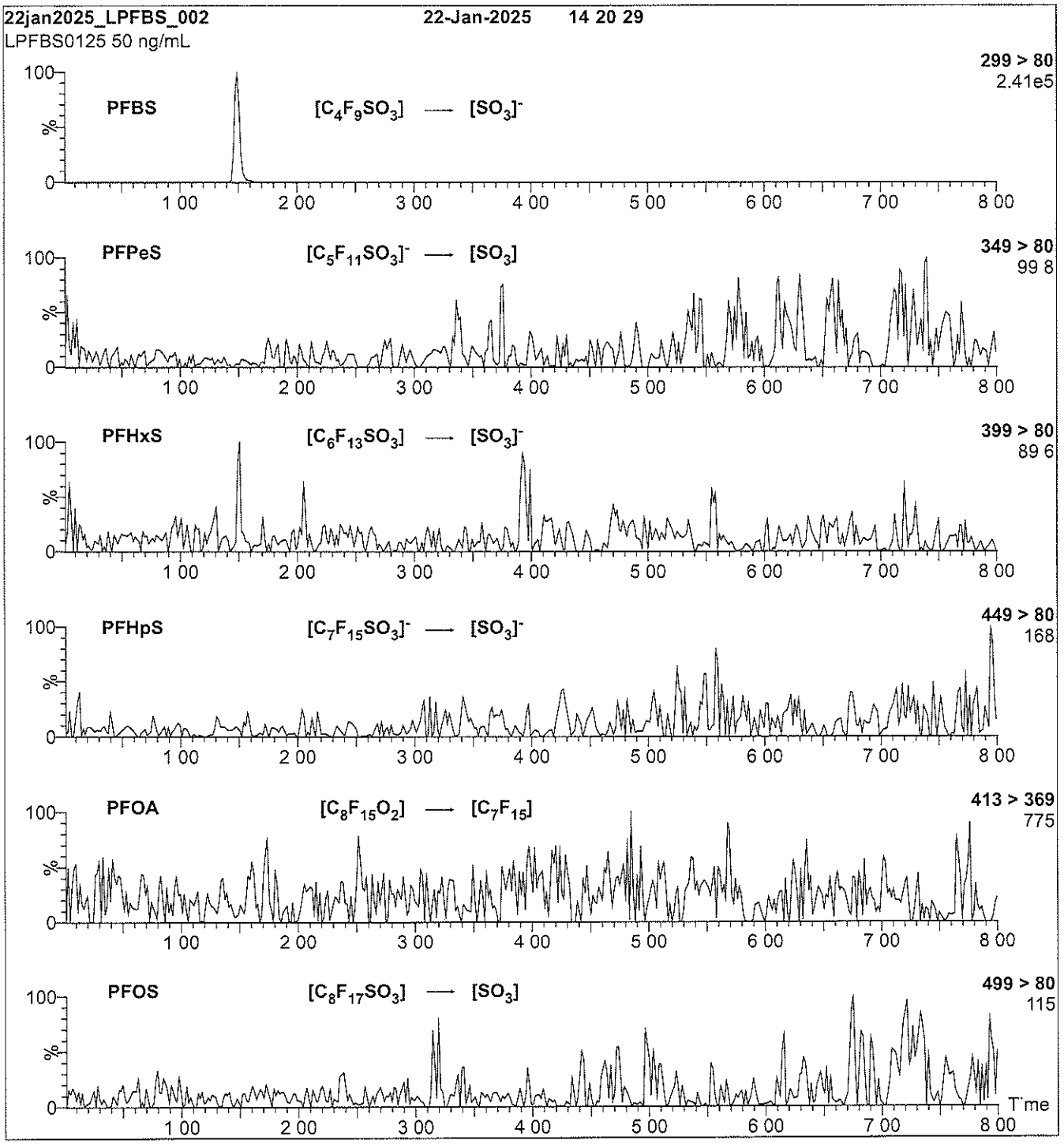
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **L-PFBS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (L-PFBS)
Mobile phase	Same as F`gure 1
Flow`	300 µL/mın

MS Parameters.

Collision Gas (mbar) = 5.87e-3
Collision Energy (eV) = 30

Reagent

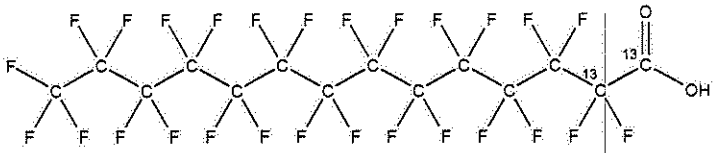
PFC_ST_04512

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. M2PFTeDA
LOT NUMBER. M2PFTeDA0525
COMPOUND. Perfluoro-n-(1 2- $^{3}C_{2}$)tetradecanoic acid

STRUCTURE.
CAS #. 2708218-82-8



410-7932826

MOLECULAR FORMULA. $^{3}C_{2}{}^{12}C_{12}HF_{27}O_{2}$
MOLECULAR WEIGHT: 716 10
CONCENTRATION. 50 0 ± 2 5 µg/mL
SOLVENT(S). Methanol
Water (<1%)
CHEMICAL PURITY: >98%
ISOTOPIC PURITY. ≥99% ^{3}C
LAST TESTED. (mm/dd/yyyy) 06/05/2025
EXPIRY DATE. (mm/dd/yyyy) 06/05/2030
RECOMMENDED STORAGE. Store ampoule in a cool dark place

7932816
ID: PFC_ST_04510
Exp:06/05/30 Prpd:WTU3 Opn:
Labeled 13C2 PFTeDA Stock

7932817
ID: PFC_ST_04511
Exp:06/05/30 Prpd:WTU3 Opn:
Labeled 13C2 PFTeDA Stock

7932826
ID: PFC_ST_04512
Exp:06/05/30 Prpd:WTU3 Opn:
Labeled 13C2 PFTeDA Stock

7932827
ID: PFC_ST_04513
Exp:06/05/30 Prpd:WTU3 Opn:
Labeled 13C2 PFTeDA Stock

7932828
ID: PFC_ST_04514
Exp:06/05/30 Prpd:WTU3 Opn:
Labeled 13C2 PFTeDA Stock

7932829
ID: PFC_ST_04515
Exp:06/05/30 Prpd:WTU3 Opn:
Labeled 13C2 PFTeDA Stock

7932830
ID: PFC_ST_04516
Exp:06/05/30 Prpd:WTU3 Opn:
Labeled 13C2 PFTeDA Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl est

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Certified By _____ **Date** 06/06/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

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UNCERTAINTY:

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The combined relative standard uncerta nty $u_c(y)$ of a value y and the uncertainty of the independent parameters x_1 x_2, x_n on which it depends is

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where x is expressed as a relative standard uncerta nty of the individual parameter

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmansh p and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

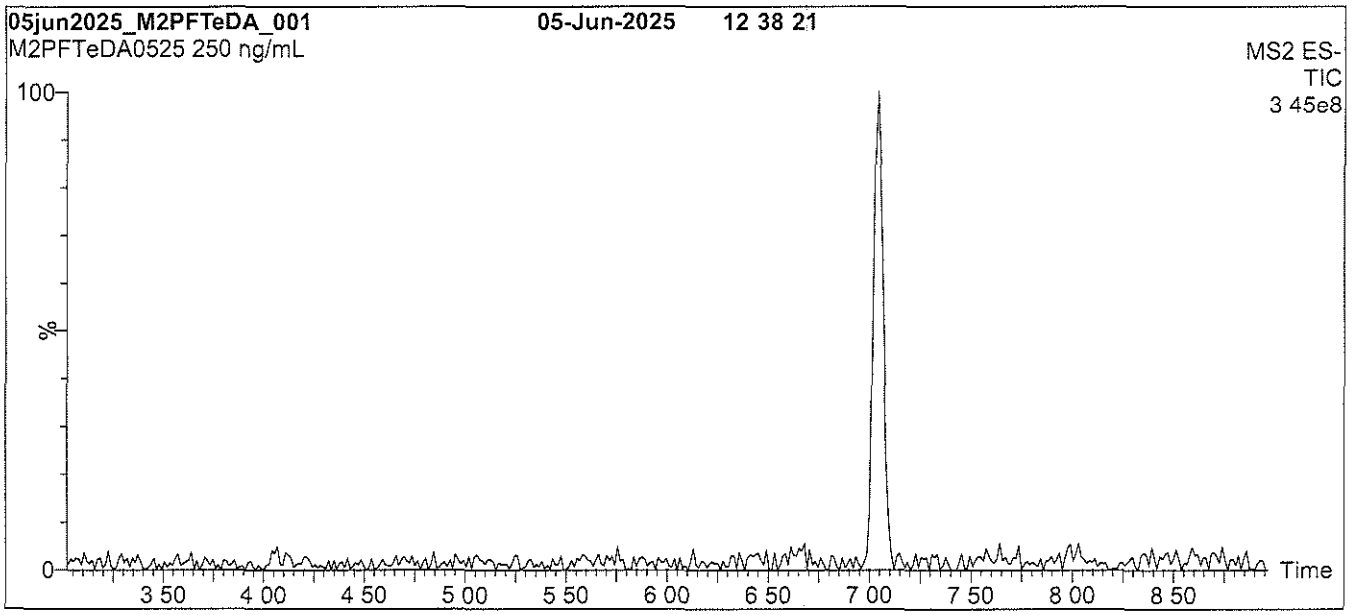
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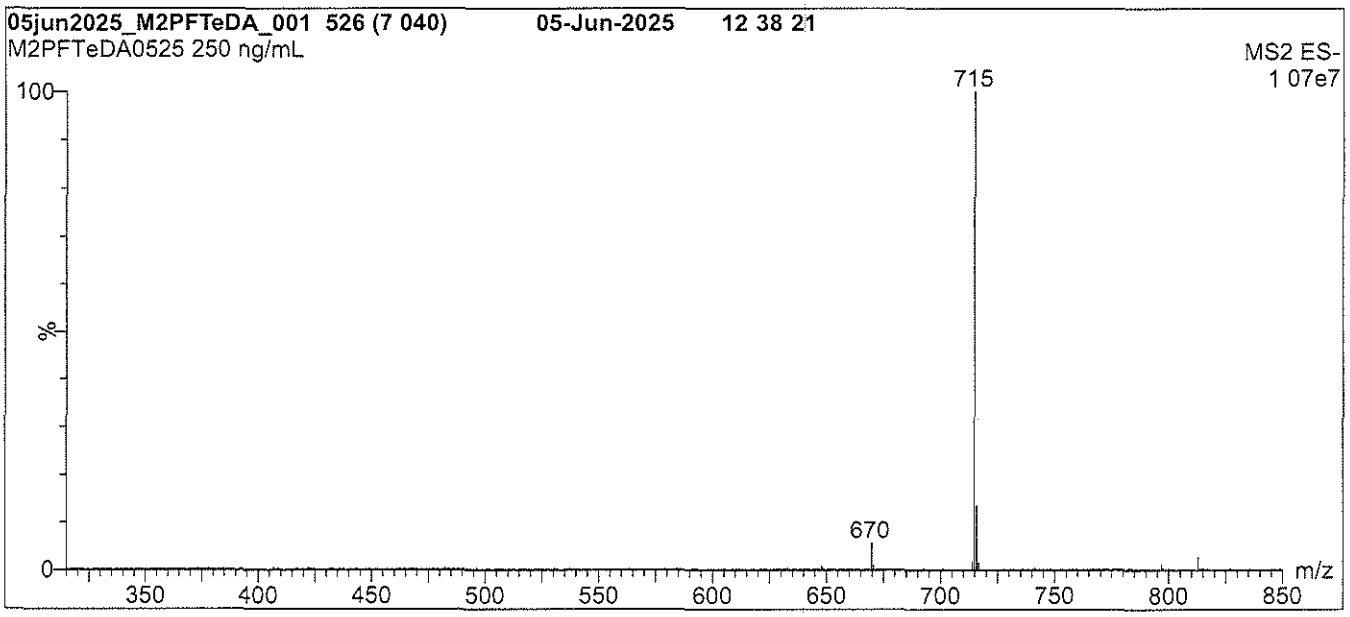
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M2PFTeDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 m n
before returning to initial conditions in 0.5 min
Time 12 min

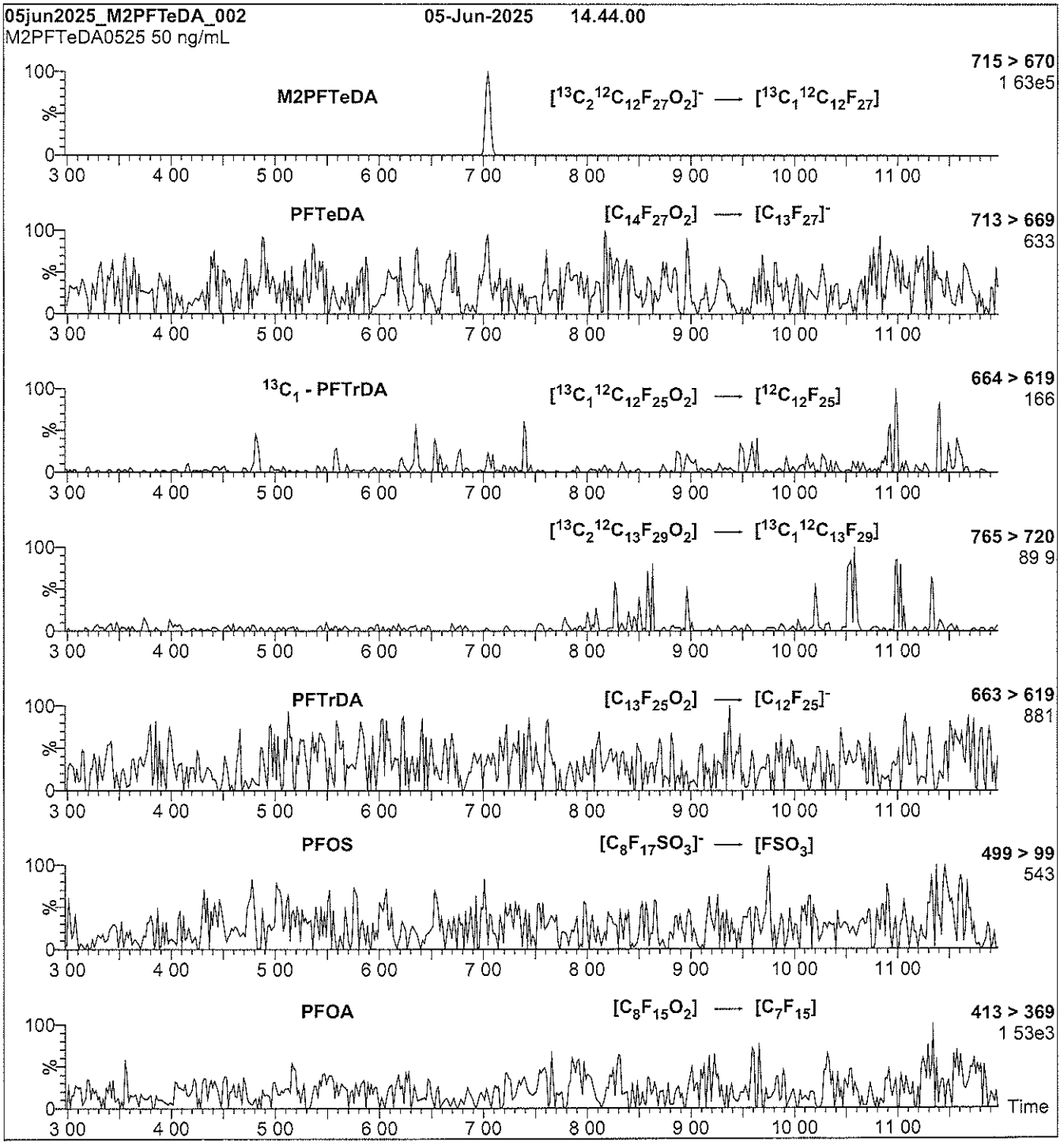
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2PFTeDA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M2PFTeDA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

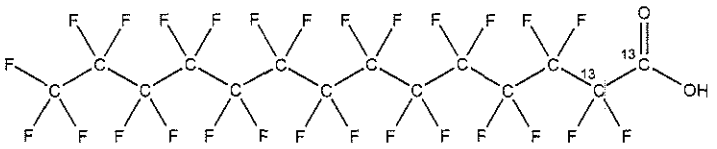
MS Parameters.

Collision Gas (mbar) = 3 76e-3
Collision Energy (eV) = 14

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	M2PFTeDA	**LOT NUMBER.**	M2PFTeDA0525
COMPOUND.	Perfluoro-n (1 2 $^{13}C_2$)tetradecanoic acid		
STRUCTURE.		**CAS #.**	2708218-82-8



MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_2HF_{27}O_2$	**MOLECULAR WEIGHT:**	716 10
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY.**	≥99% ^{3}C
LAST TESTED. (mm/dd/yyyy)	06/05/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/05/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By _____ **Date** 06/06/2025 (mm/dd/yyyy)
B G. Chittim General Manager

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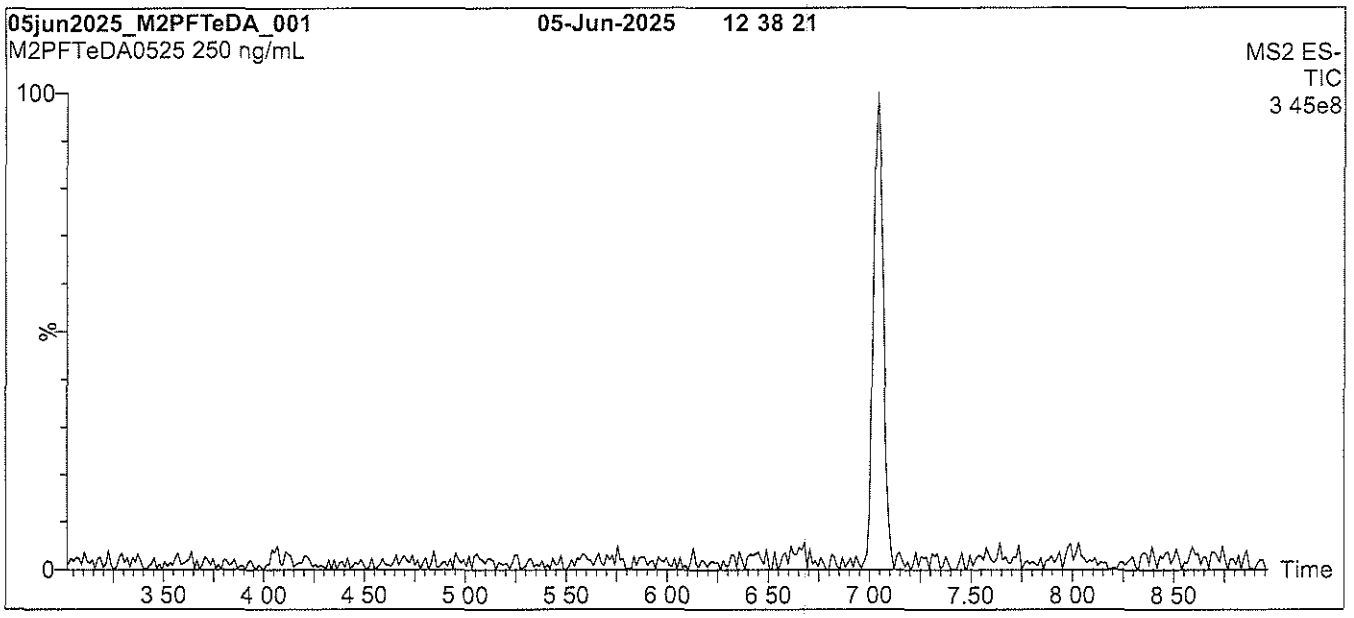
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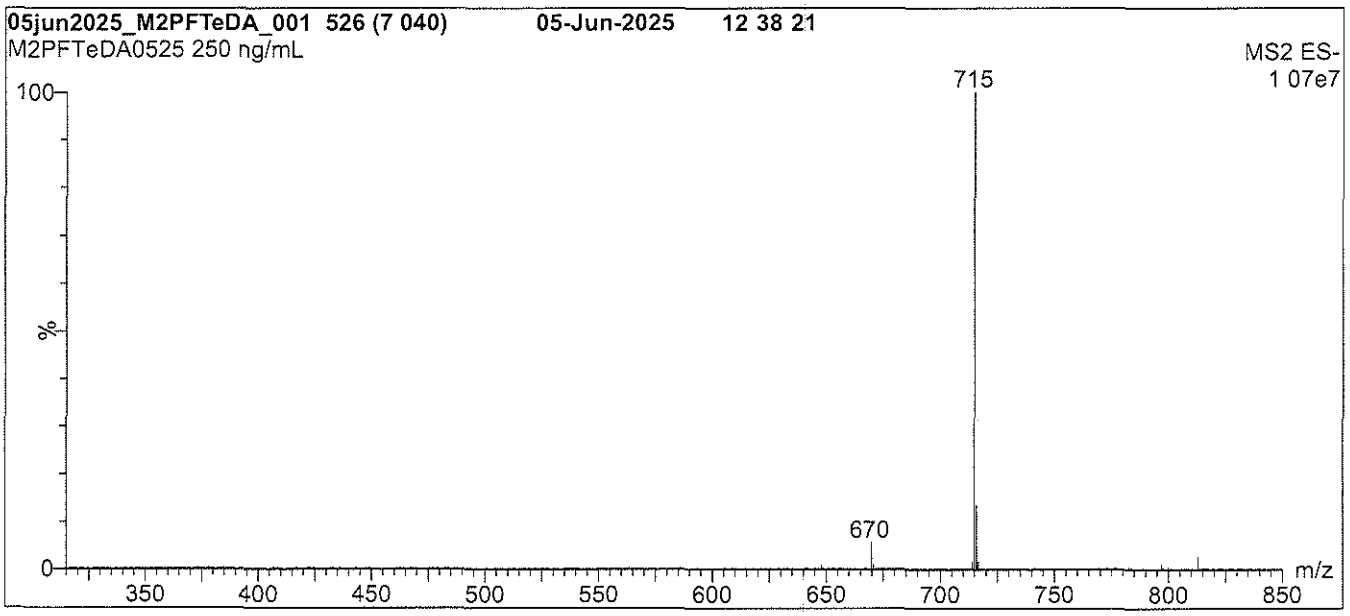
CALA Testing Accreditation No. A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M2PFTeDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to nitial conditions in 0.5 min
Time 12 min

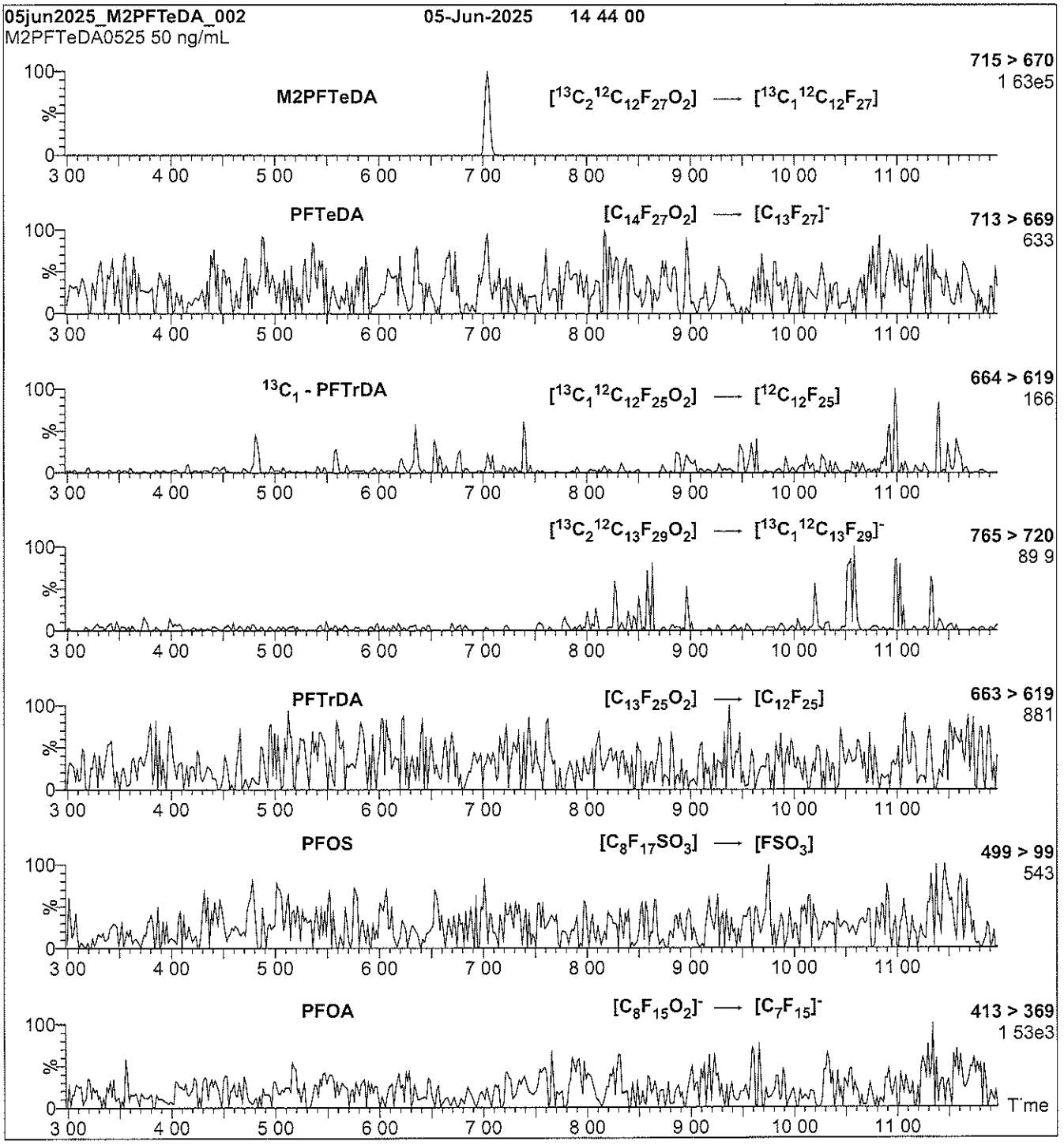
Flow: 300 µL/m n

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2PFTeDA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M2PFTeDA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3 76e-3
Collision Energy (eV) = 14

Reagent

PFC_ST_04530

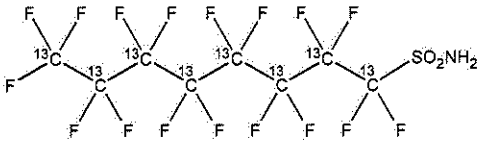
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. M8FOSA-I
COMPOUND. Perfluoro-1-($^{13}C_8$)octanesulfonamide

LOT NUMBER. M8FOSA0525I

STRUCTURE.



CAS #. 1365803-60-6

410-7937298

MOLECULAR FORMULA.	$^{13}C_8H_2F_{17}NO_2S$	**MOLECULAR WEIGHT:**	507 09
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Isopropanol
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY.**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	05/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	05/28/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

7937297
ID: PFC_ST 4529
Exp:05/28/30 Pr WTU3 Opn:
Labeled 13C8 PFOSA Stock

7937298
ID: PFC_ST_04530
Exp:05/28/30 Prpd:WTU3 Opn:
Labeled 13C8 PFOSA Stock

79 99
ID: _ST_04531
Exp 8/30 Prpd:WTU3 Opn:
Lat d 13C8 PFOSA Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

79: 7304
ID: C_ST_04532
Exp. 28/30 Prpd:WTU3 Opn:
Lat ed 13C8 PFOSA Stock

7937305
ID: PF _ST_04533
Exp:05/28/30 Prpd:WTU3 Opn:
Labeled 13C8 PFOSA Stock

7937306
ID: PFC_ST_04534
Exp:05/28/30 Prpd:WTU3 Opn:
Labeled 13C8 PFOSA Stock

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains ~1 0% of perfluoro-1-($^{13}C_4$)octanesulfonamide ~0 1% of perfluoro-1-($^{13}C_7$)heptanesulfonamide and ~0 1% of perfluoro-n-($^{13}C_8$)octanoic acid (M8PFOA)

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 06/04/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains

HANDLING.

This product should only be used by qualified personnel fam liar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solub lity in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of nterest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using cal'brated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$, of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is

$$u\ (y(x\ \ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x\ )^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (cal'bration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability n its composition and concentration until the specified expiry date n the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

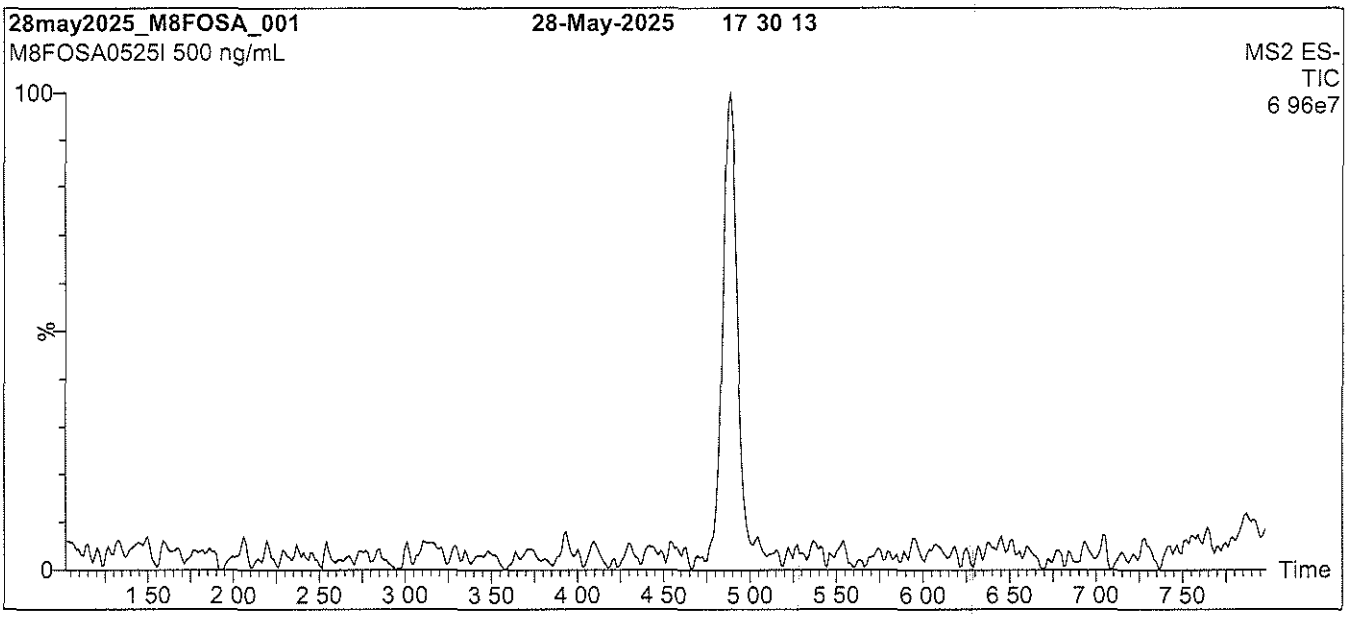
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

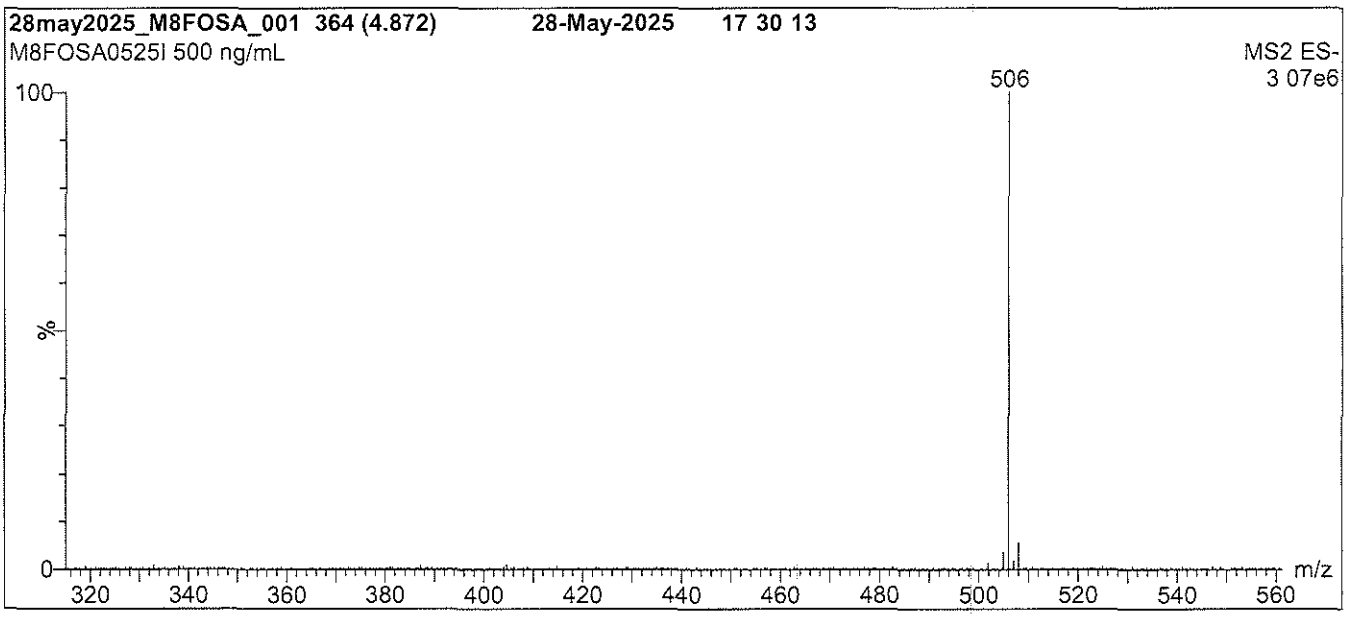
CALA
Accreditation No. A 226

ANAB
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

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Figure 1. **M8FOSA-I, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

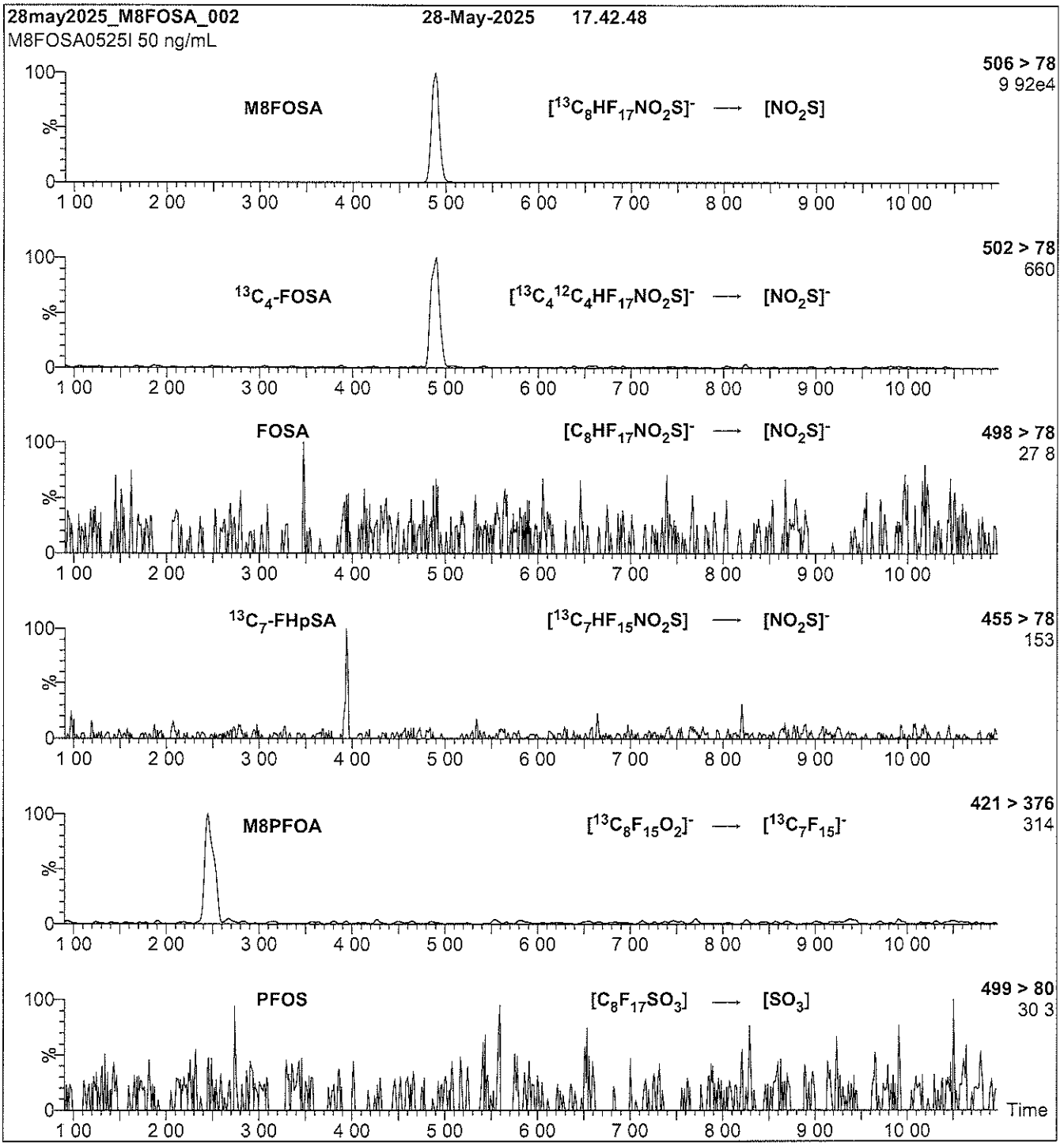
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 1 50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8FOSA-I, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M8FOSA-I)
Mobile phase	Same as Figure 1
Flow	300 µL/min

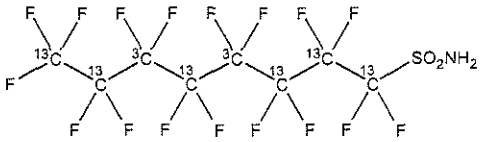
MS Parameters.

Collision Gas (mbar) = 4.43e-3
Collision Energy (eV) = 30

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	M8FOSA I	**LOT NUMBER.**	M8FOSA0525I
COMPOUND.	Perfluoro-1 ($^{3}C_{8}$)octanesulfonamide		
STRUCTURE.		**CAS #.**	1365803-60-6



MOLECULAR FORMULA.	$^{3}C_{8}H_{2}F_{7}NO_{2}S$	**MOLECULAR WEIGHT:**	507 09
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Isopropanol
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY.**	≥99% ^{3}C
LAST TESTED. (mm/dd/yyyy)	05/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	05/28/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains ~1 0% of perfluoro-1 ($^{13}C_{4}$)octanesulfonamide ~0 1% of perfluoro-1 ($^{3}C_{7}$)heptanesulfonamide and ~0 1% of perfluoro-n ($^{3}C_{8}$)octanoic acid (M8PFOA)

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Certified By _____ **Date** 06/04/2025 (mm/dd/yyyy)
B G. Chittim General Manager

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UNCERTAINTY:

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$$u\ (y(x\ \ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability stud es of this product have demonstrated stability in its composition and concentration until the specified exp ry date n the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

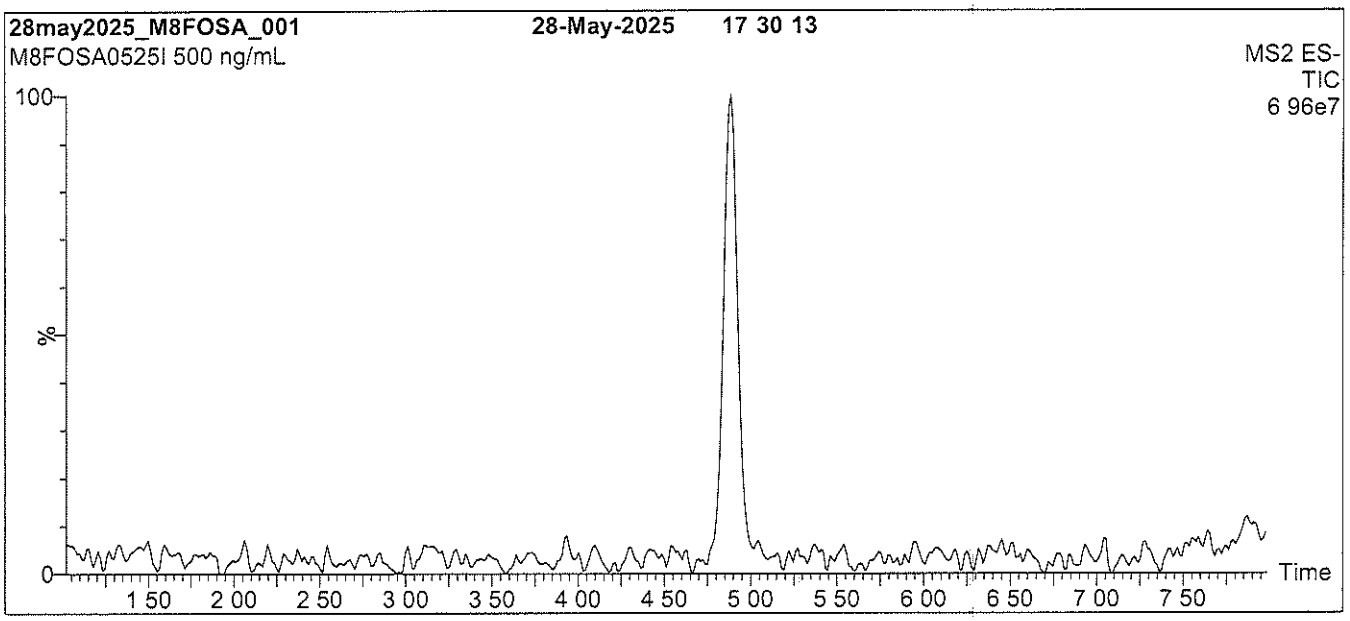
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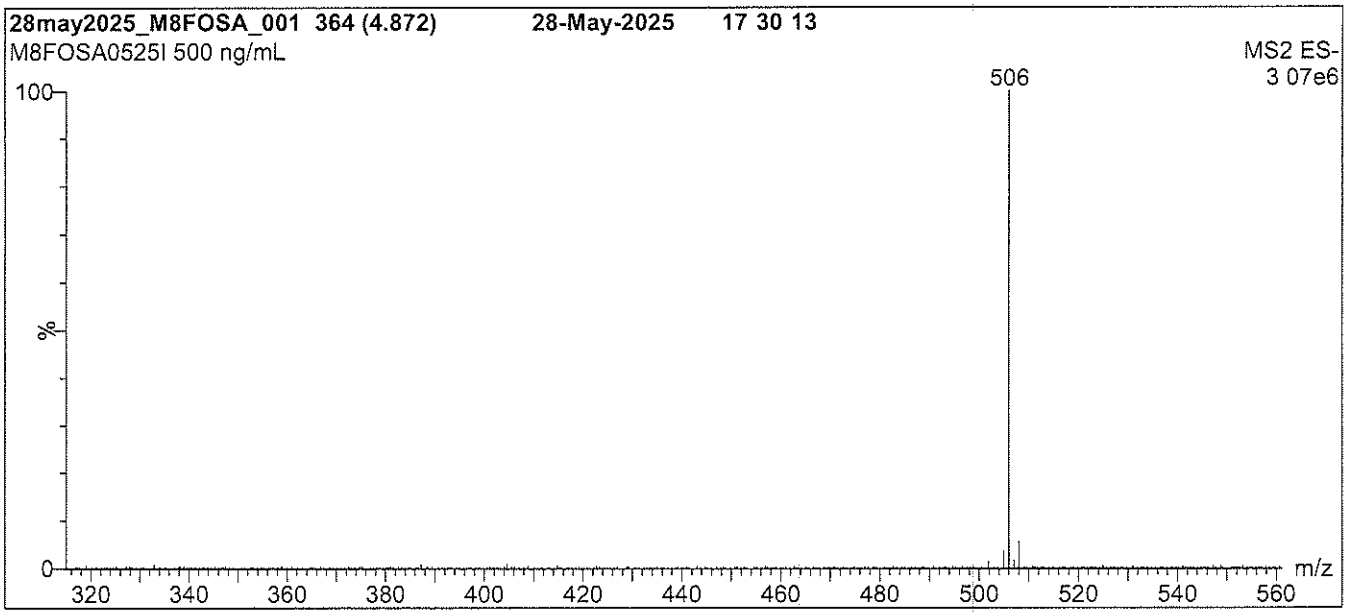
CALA Testing Accreditation No A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M8FOSA-I, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

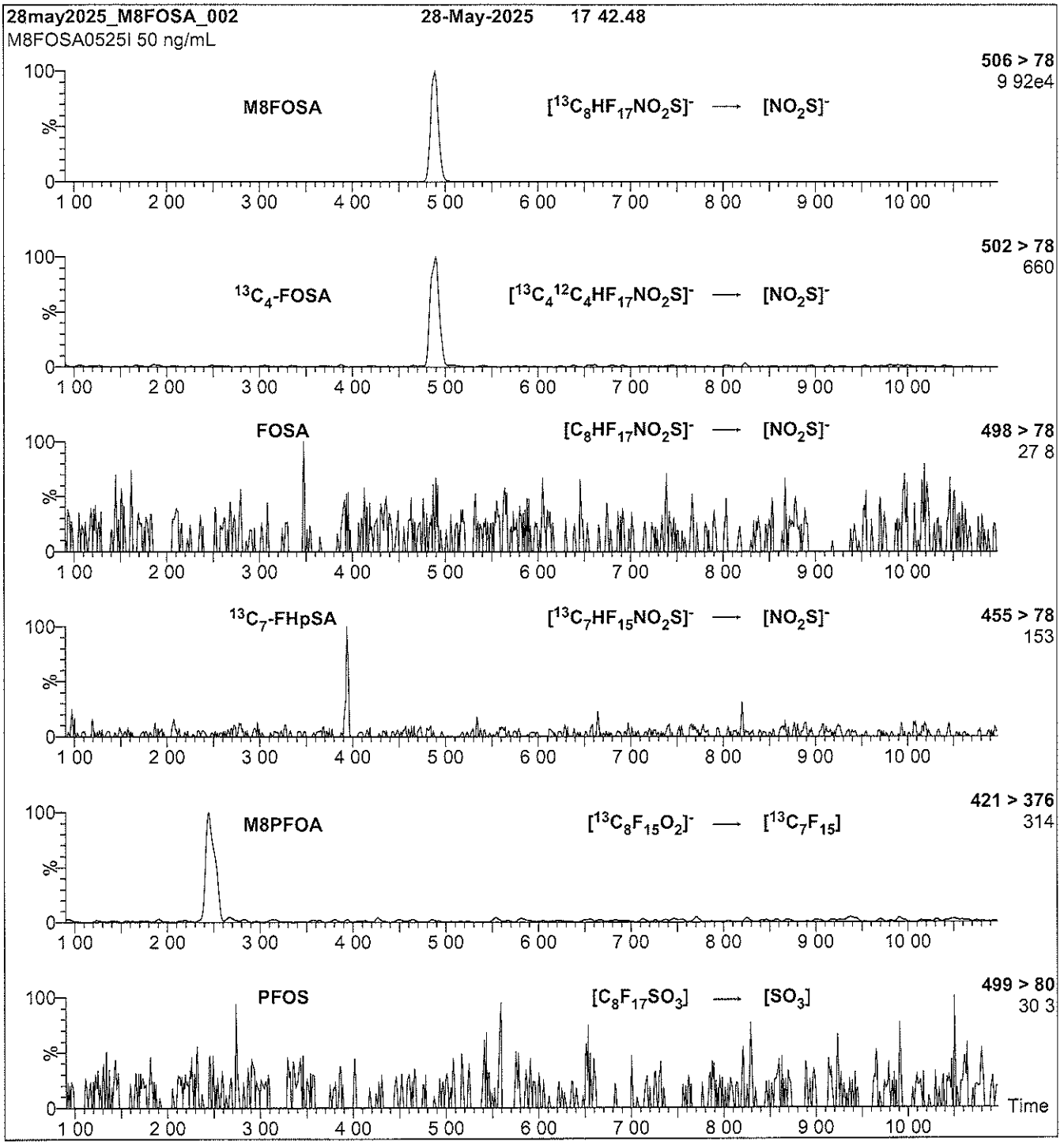
Column	Acquity UPLC BEH Shield RP$_e$ 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start 40% H_2O / 60% (80 20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment. Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 1 50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8FOSA-I, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M8FOSA-I)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.43e-3
Collision Energy (eV) = 30

Reagent

PFC_ST_04536

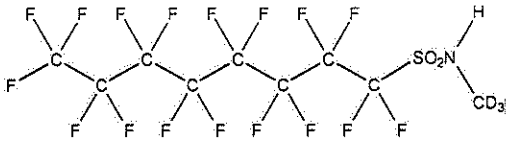
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. d-N-MeFOSA-M
COMPOUND. N Methyl-d_3-perfluoro-1-octanesulfonamide

LOT NUMBER. dNMeFOSA1024M

STRUCTURE.



CAS #. 936109-37-4

410-7937495

MOLECULAR FORMULA.	$C_9D_3HF_{17}NO_2S$	**MOLECULAR WEIGHT:**	516 19
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	10/15/2024		
EXPIRY DATE. (mm/dd/yyyy)	10/15/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

7937494
ID: PFC_ST_04535
Exp:10/15/29 Prpd:WTU3 Op
Labeled d3-NMePFO Stock

7937495
ID: PFC_ST_04536
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d3-NMePFOSA Stock

7937497
ID: PFC_ST_04
Exp:10/15/29 Prpd:W Opn:
Labeled d3-NM FOSA Stock

7937498
ID: PFC_ST_04538
Exp:10/15/29 Prpd: TU: Opn:
Labeled d3-NM PFOSA Stock

7937499
ID: PFC_ST_04539
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d3-NMePFOSA Stock

ADDITIONAL INFORMATION.

- See page 2 for further details

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Certified By _____ **Date** 10/18/2024 (mm/dd/yyyy)
B G. Chittim General Manager

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UNCERTAINTY:

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$$u\ (y(x\ \ x\quad x_n)) - \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

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TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmansh p and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

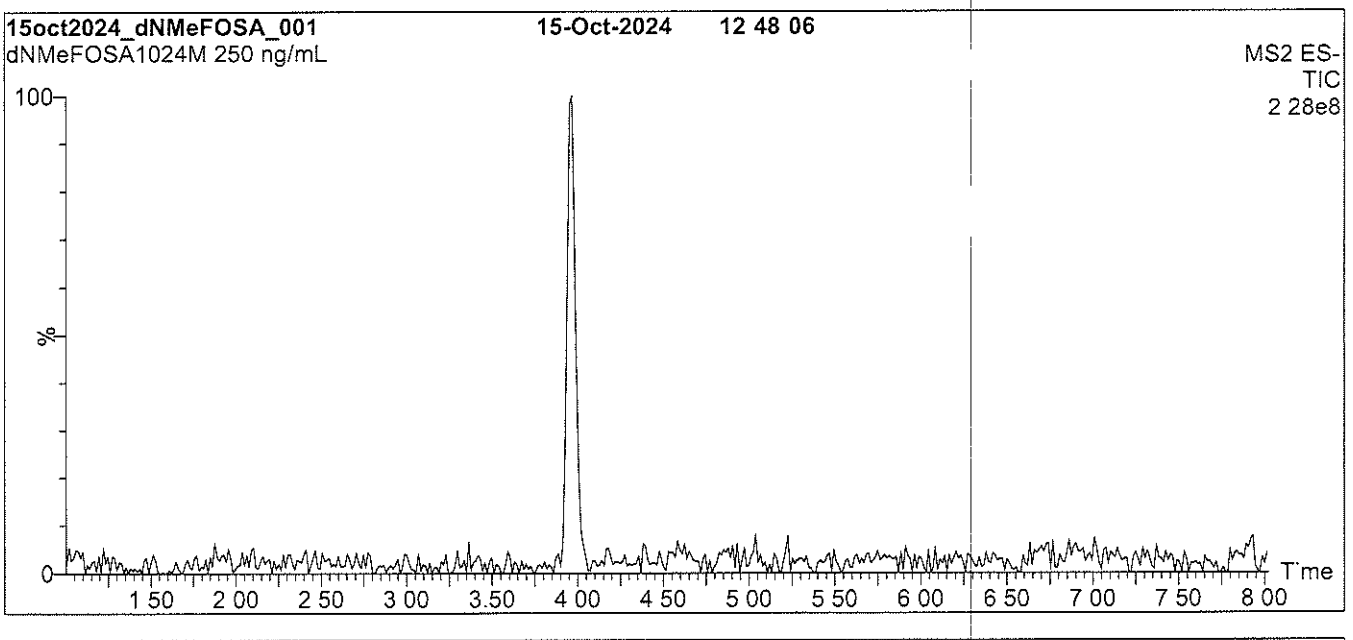
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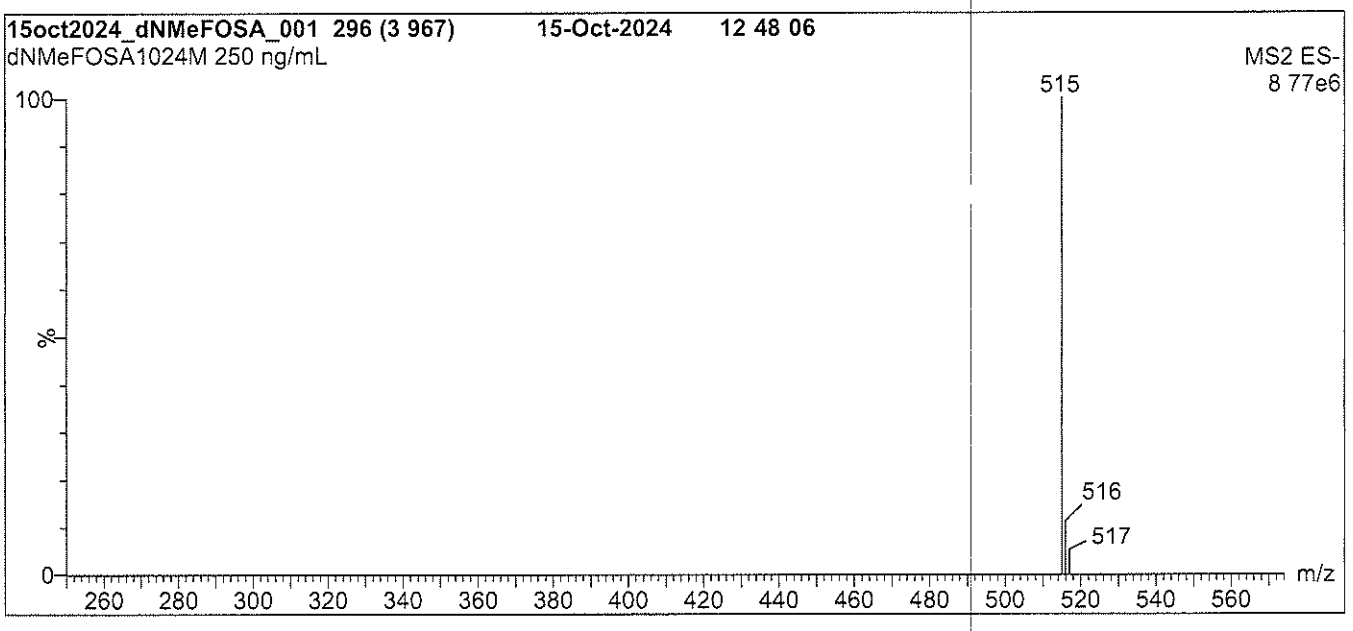
CALA Testing Accreditati No. A 226

ANAB ANSI National Ac reditation Board ACCRED TED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **d-N-MeFOSA-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase. Gradient
Start· 30% H_2O / 70% (80·20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 m n and hold for 1 min
before return ng to nitial conditions in 0 5 min
Time. 12 min

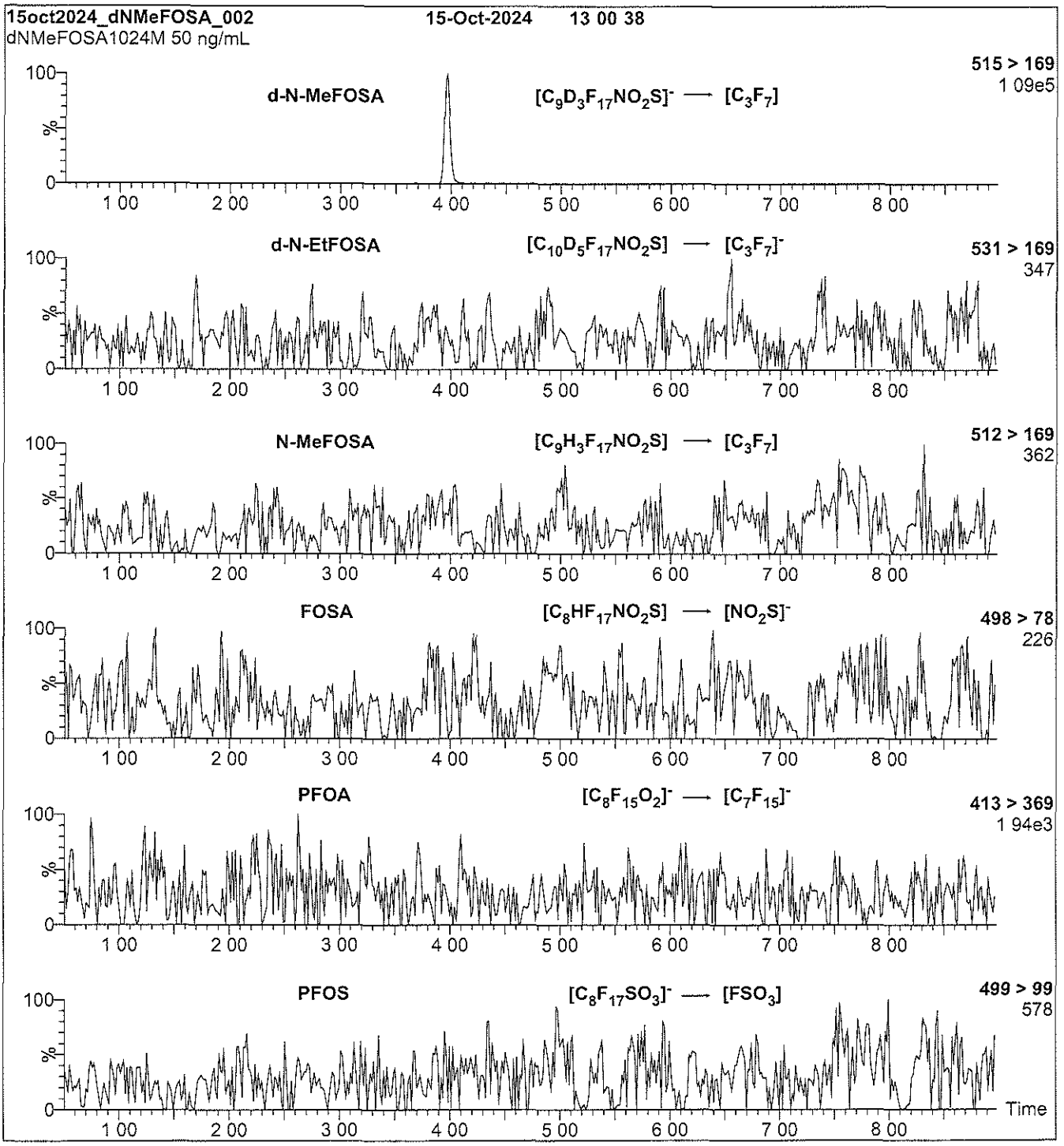
Flow· 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source. Electrospray (negative)
Capillary Voltage (kV) = 1 00
Cone Voltage (V) = 44.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **d-N-MeFOSA-M, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (d-N-MeFOSA-M)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.24e-3
Collision Energy (eV) = 24

Reagent

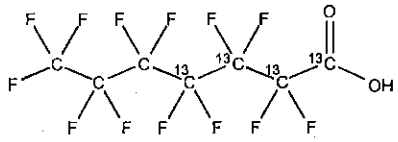
PFC_ST_04563

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: M4PFHpA
LOT NUMBER: M4PFHpA1024
COMPOUND: Perfluoro-n-(1,2,3,4-$^{13}C_4$)heptanoic acid

STRUCTURE:



CAS #: 2328024-55-9

410-7938123

MOLECULAR FORMULA: $^{13}C_4{}^{12}C_3HF_{13}O_2$
MOLECULAR WEIGHT: 368.03
CONCENTRATION: 50.0 ± 2.5 µg/mL
SOLVENT(S): Methanol
Water (<1%)
CHEMICAL PURITY: >98%
ISOTOPIC PURITY: ≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy) 10/07/2024
EXPIRY DATE: (mm/dd/yyyy) 10/07/2029
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

7938105
ID: PFC_ST_04561
Exp:10/07/29 Prpd:WTU3 Opn:
M4PFHpA Stock

7938106
ID: PFC_ST_04562
Exp:10/07/29 Prpd:WTU3 Opn:
M4PFHpA Stock

7938122
ID: PFC_ST_04563
Exp:10/07/29 Prpd:WTU3 Opn:
M4PFHpA Stock

7938123
ID: PFC_ST_04564
Exp:10/07/29 Prpd:WTU3 Opn:
M4PFHpA Stock

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 10/17/2024 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

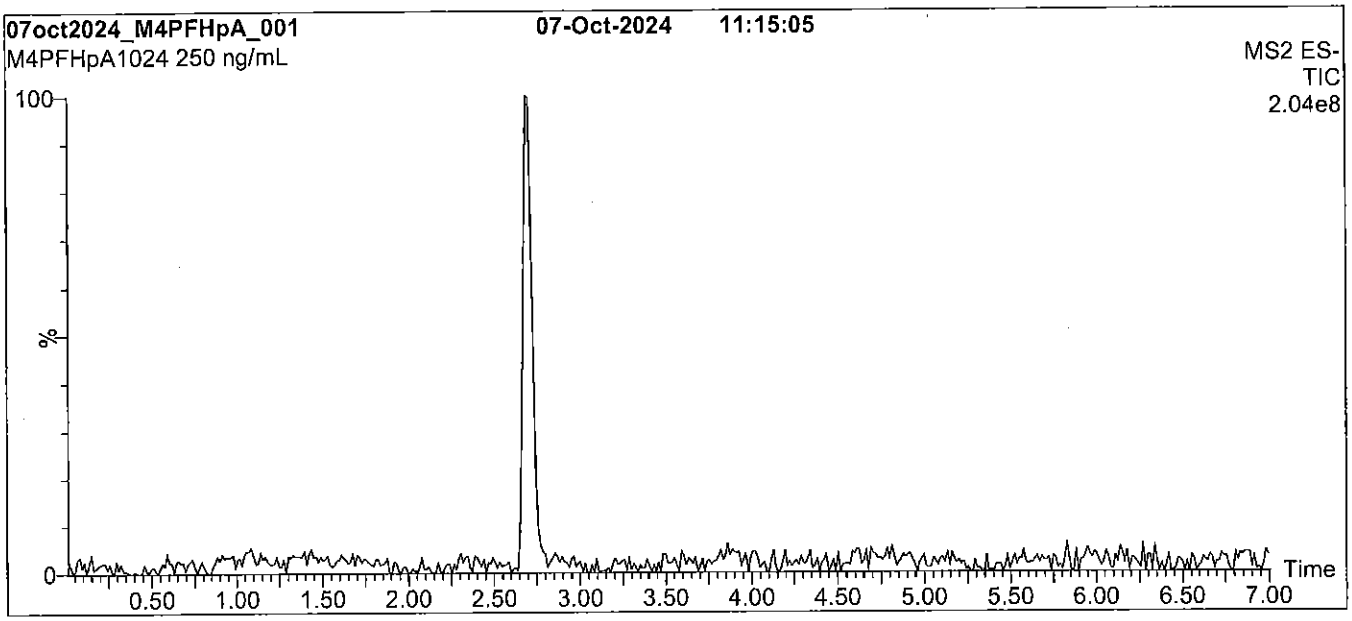
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

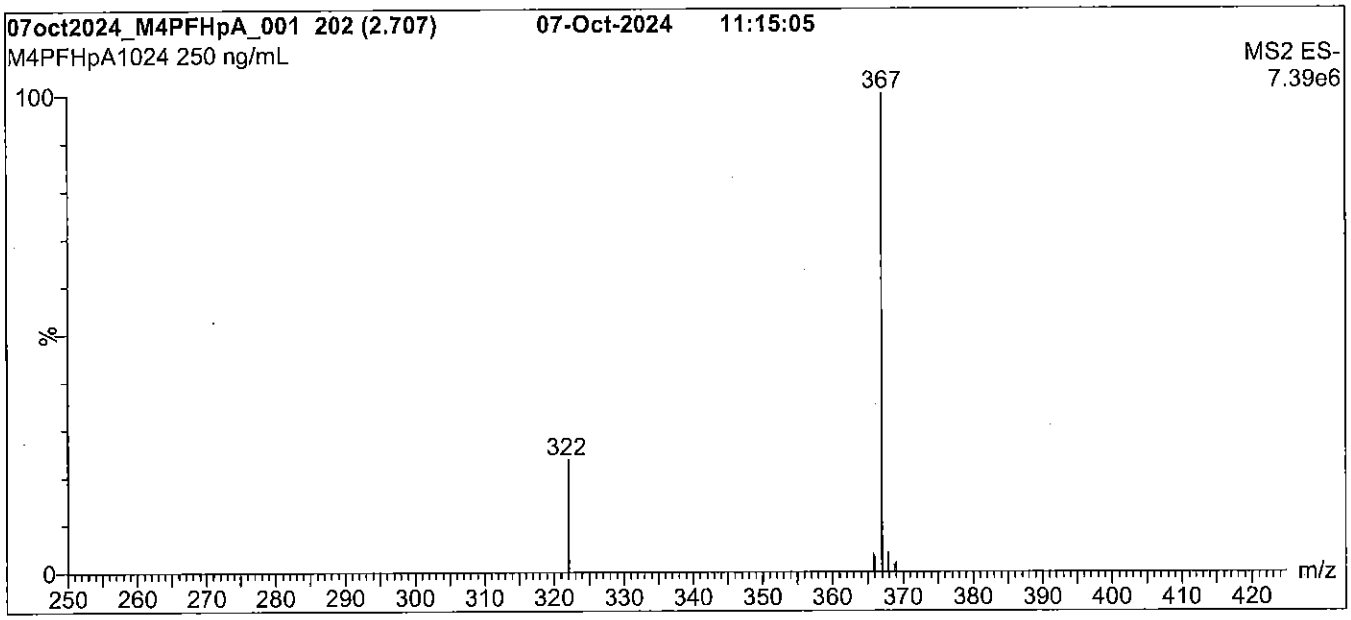
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **M4PFHpA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

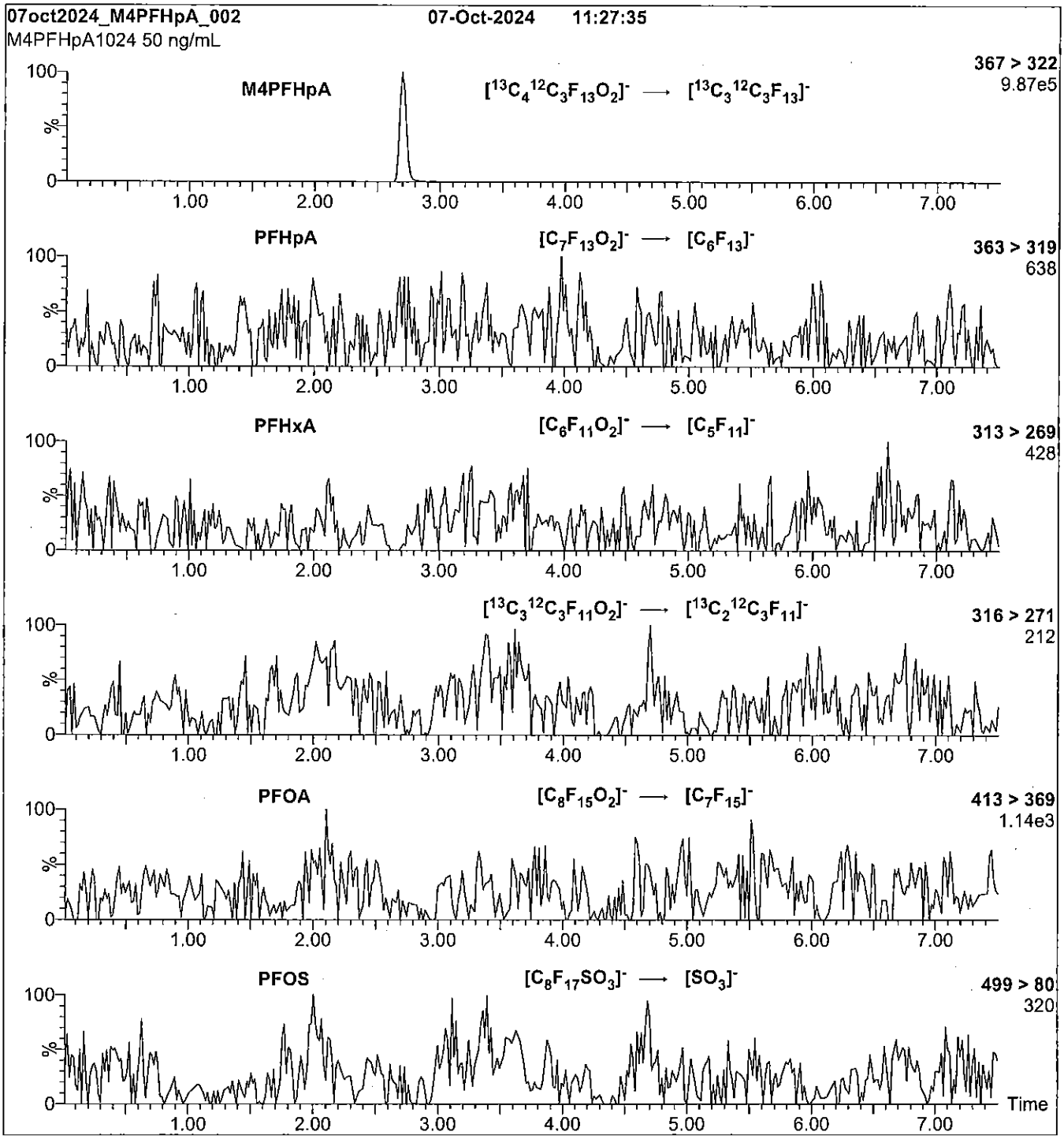
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **M4PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M4PFHpA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.26e-3
Collision Energy (eV) = 8

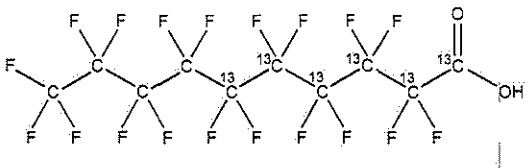
Reagent

PFC_ST_04568

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	M6PFDA	**LOT NUMBER.**	M6PFDA0525
COMPOUND.	Perfluoro-n-(1 2 3 4 5 6-$^{13}C_6$)decanoic acid		
STRUCTURE.		**CAS #.**	2328024-56-0



410-7938307

MOLECULAR FORMULA.	$^{13}C_6\ ^{2}C_4HF_{19}O_2$	**MOLECULAR WEIGHT:**	520 04
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	05/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	05/28/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

7938307
ID: PFC_ST_04568
Exp:05/28/30 Prpd:WTU3 Opn:
M6PFDA Stock

7938308
ID: PFC_ST_04569
Exp:05/28/30 Prpd:WTU3 Opn:
M6PFDA Stock

7938309
ID: PFC_ST_04570
Exp:05/28/30 Prpd:WTU3 Opn:
M6PFDA Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains 0 2% of perfluoro-n-(1,2 3,4 5- $^{3}C_5$)nonanoic acid (MPFNA).

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 05/30/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

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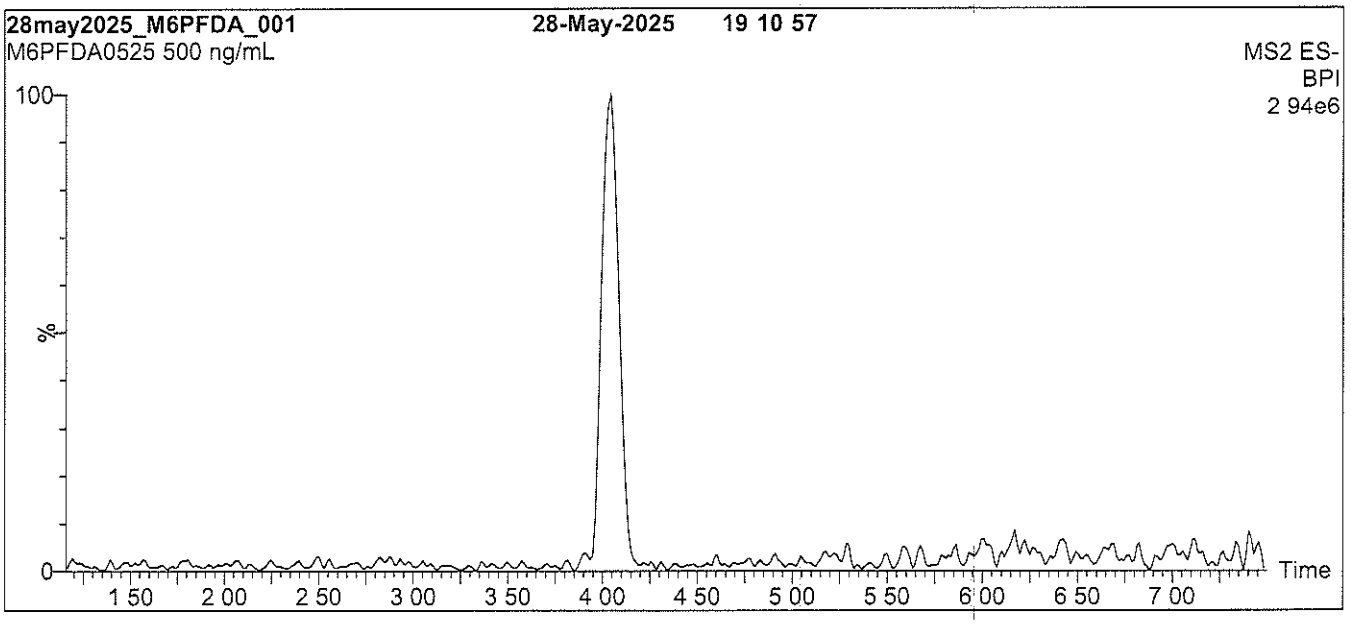
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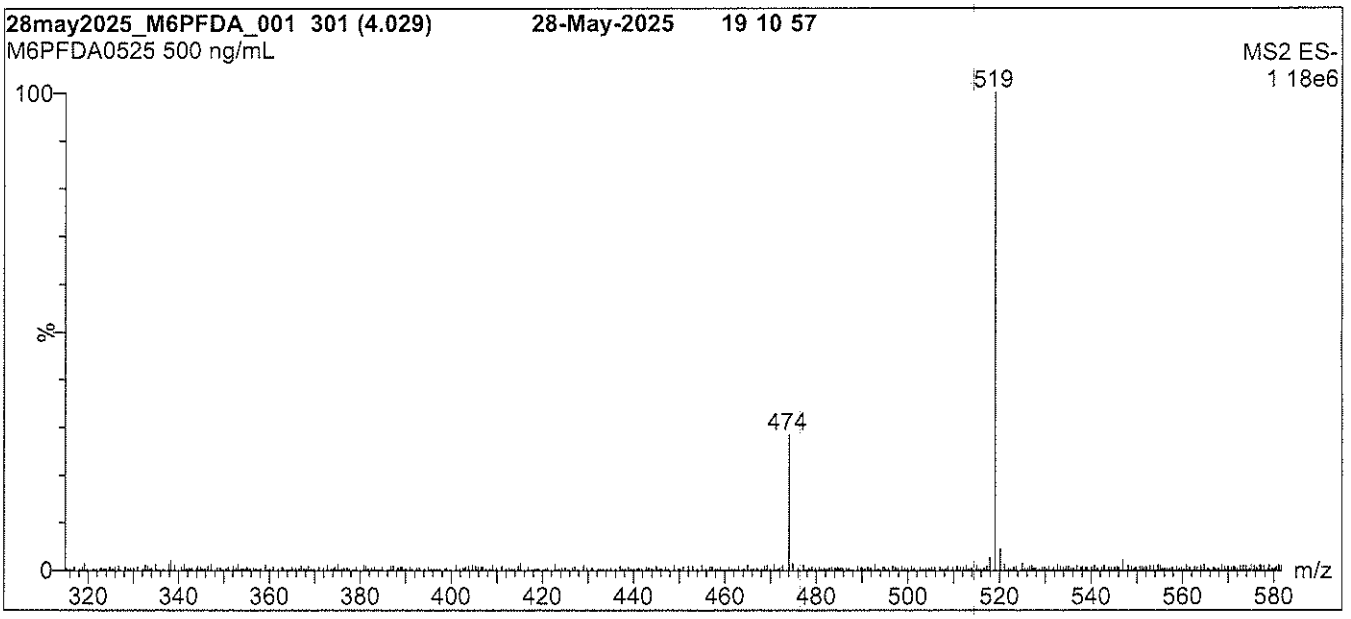
CALA Te ing Accreditat on No. A1226

ANAB ANSI Nat cnal Accreditation Board ACCRED TED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M6PFDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

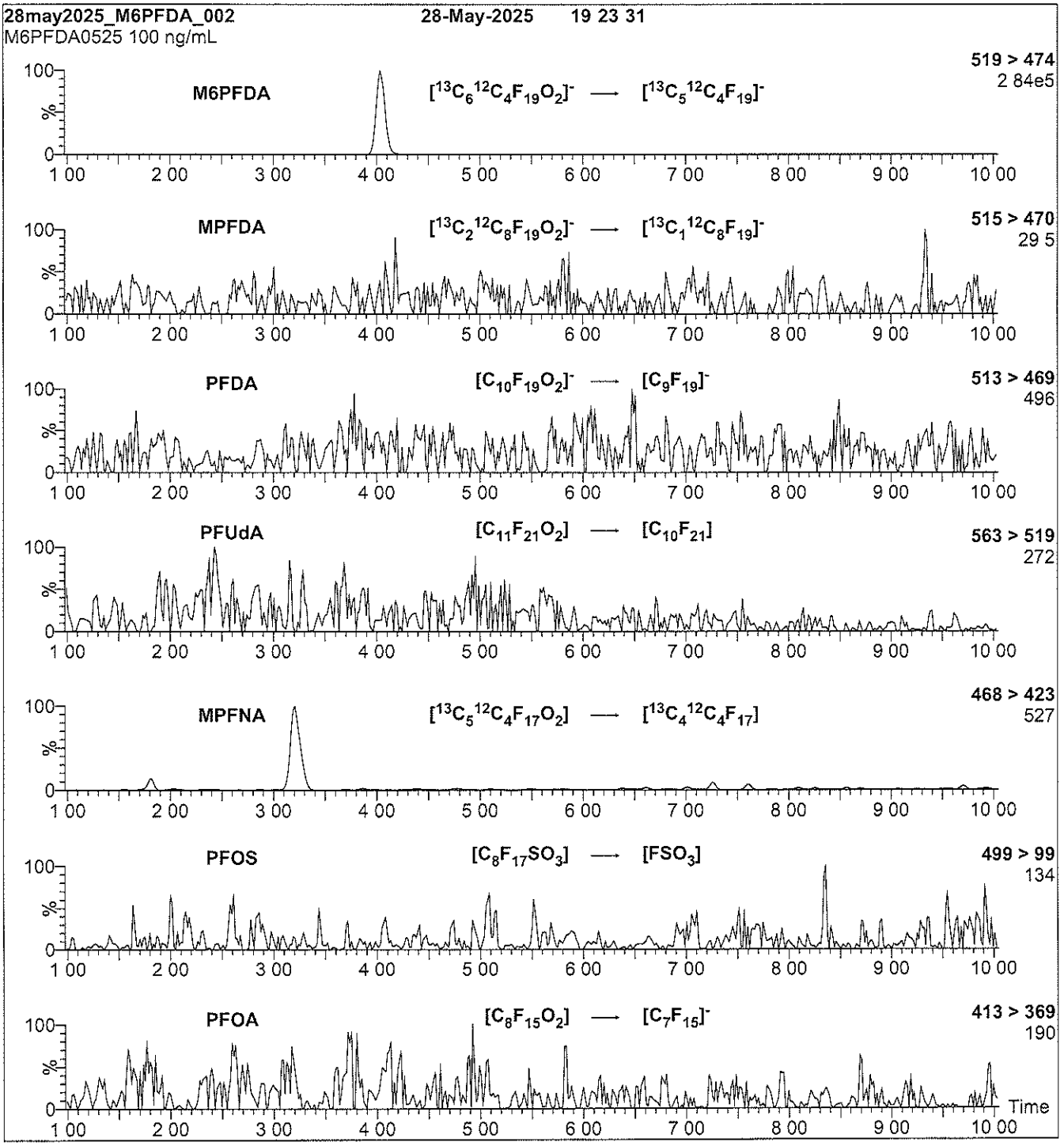
Column	Acquity UPLC BEH Shield RP$_8$ 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start: 40% H_2O / 60% (80 20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M6PFDA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M6PFDA)
Mobile phase.	Same as Figure 1
Flow·	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.46e-3
Collision Energy (eV) = 10

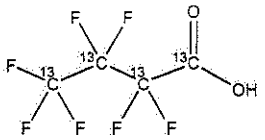
Reagent

PFC_ST_04605

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	MPFBA	**LOT NUMBER.**	MPFBA0924
COMPOUND.	Perfluoro-n-($^{13}C_4$)butanoic acid		
STRUCTURE.		**CAS #.**	1017281 29-6



410-8073376

MOLECULAR FORMULA.	$^{13}C_4HF_7O_2$	**MOLECULAR WEIGHT:**	218 01
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY.**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	09/09/2024		
EXPIRY DATE. (mm/dd/yyyy)	09/09/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

8073374
ID: PFC_ST_04604
Exp:09/09/29 Prpd:WTU3 Opn:
Labeled 13C4 PFBA Stock

8073376
ID: PFC_ST_04605
Exp:09/09/29 Prpd:WTU3 Opn:
Labeled 13C4 PFBA Stock

8073377
ID: PFC_ST_04606
Exp:09/09/29 Prpd:WTU3 Opn:
Labeled 13C4 PFBA Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By _____ **Date** 09/10/2024
(mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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where x is expressed as a relative standard uncertainty of the ndividual parameter

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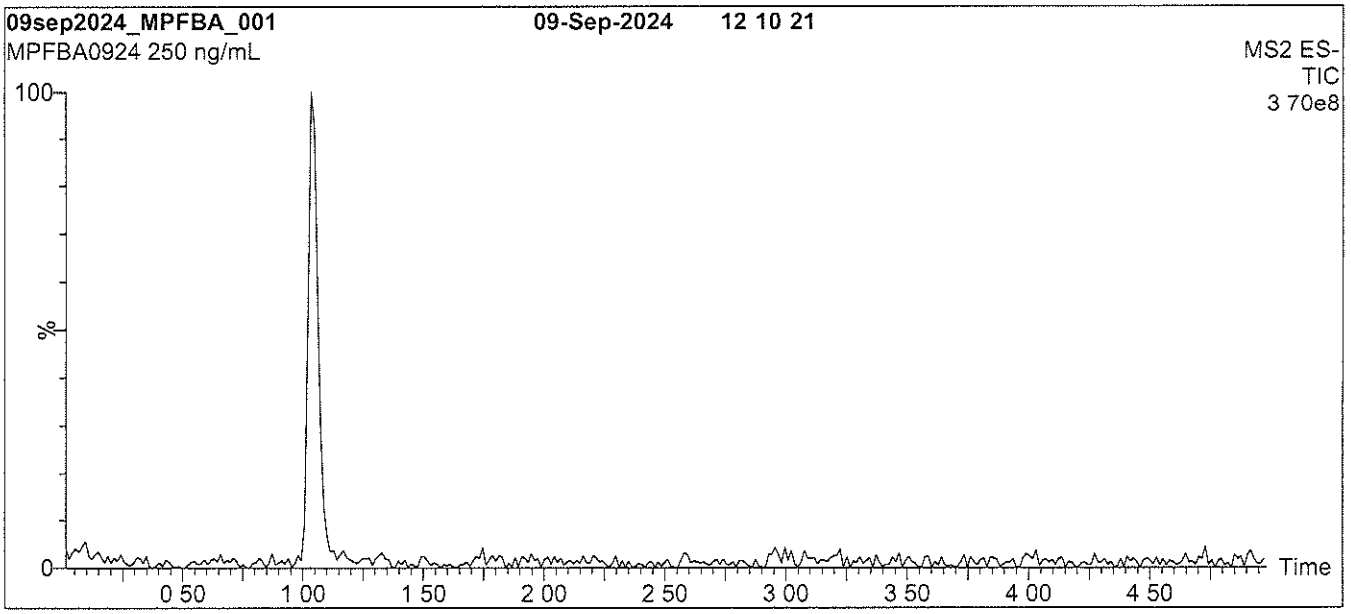
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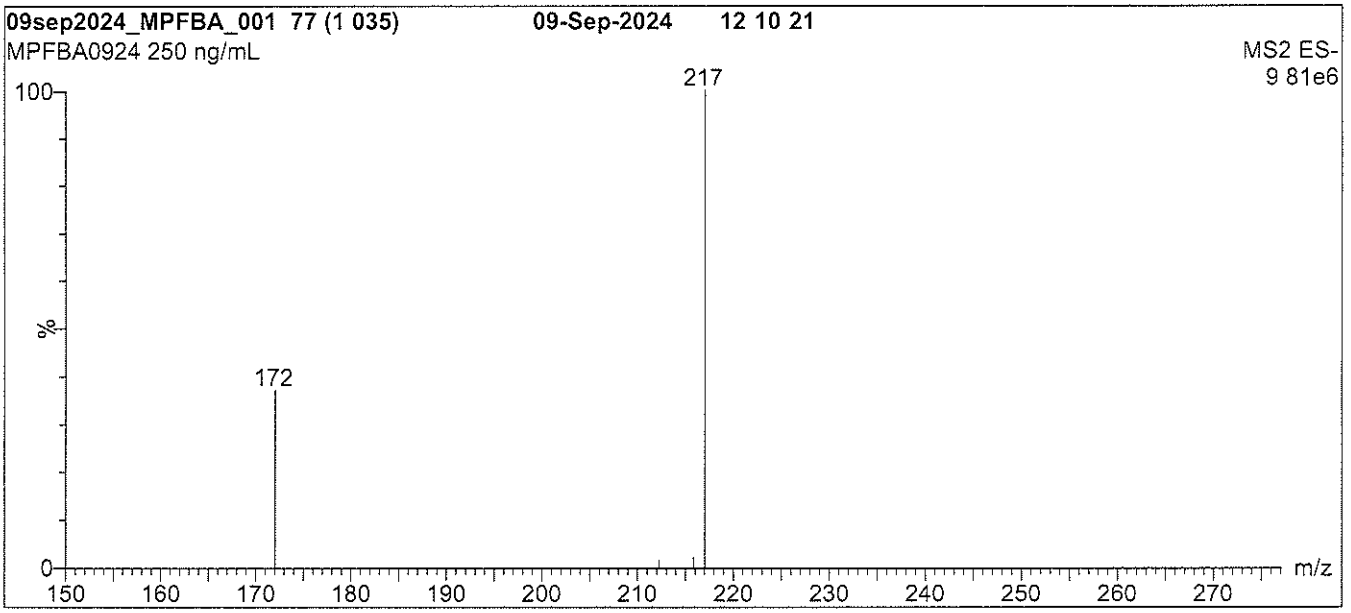
CALA Test ng Accreditation No. A 226

ANAB ANSI Nat onal Accreditation Board ACCRED TED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFBA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP$_8$ 1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80 20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

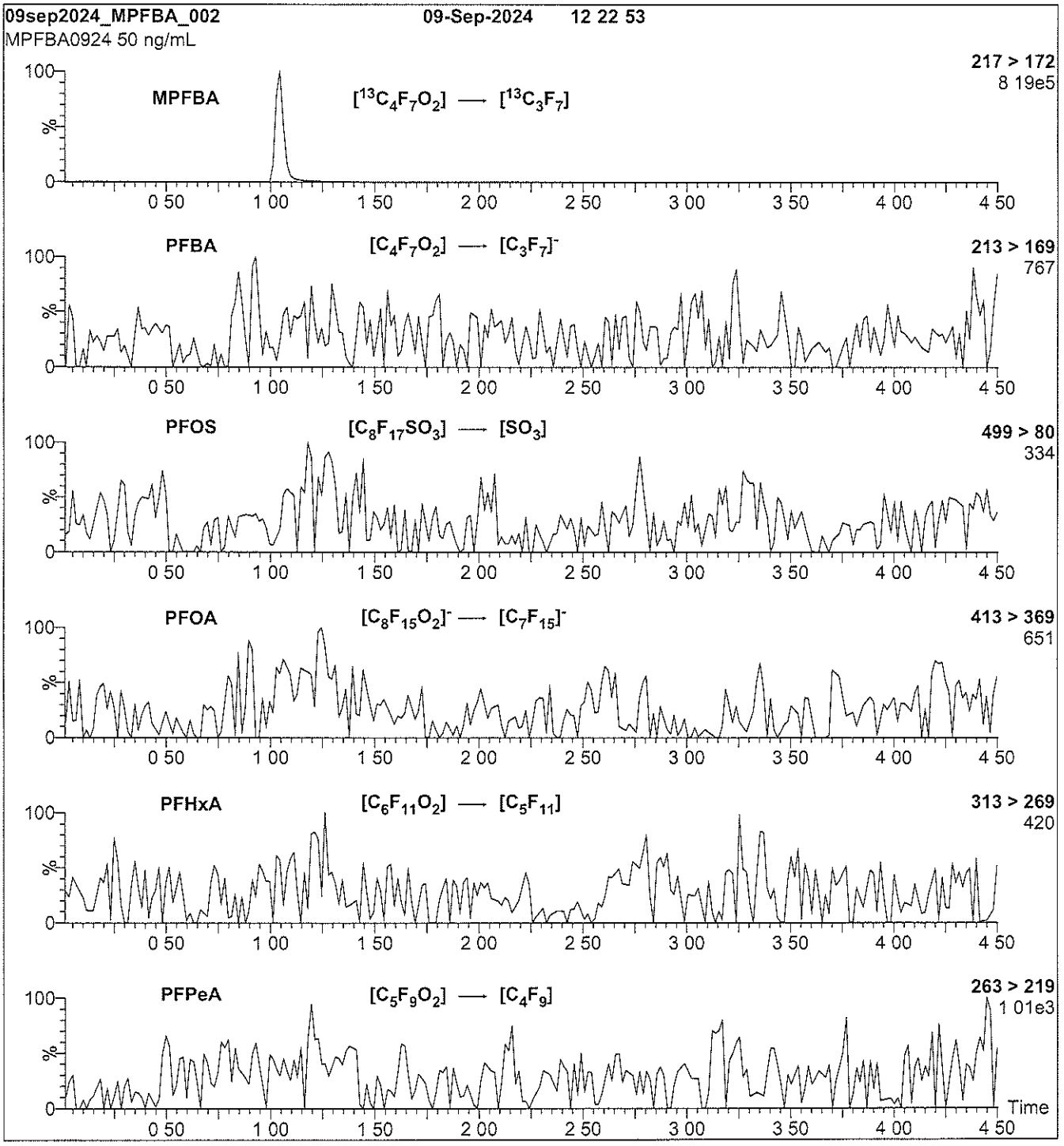
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFBA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection.	On-column (MPFBA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4 29e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_04617

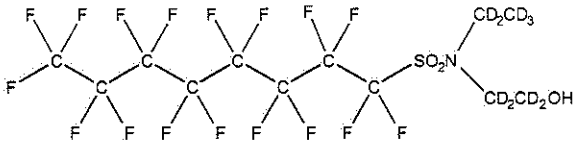
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. d9-N EtFOSE M **LOT NUMBER.** d9NEtFOSE0425M

COMPOUND. 2-(N-Ethyl-d5-perfluoro-1-octanesulfonamido)ethan-d4-ol

STRUCTURE. **CAS #.** 1265205-96-6



410-8074138

MOLECULAR FORMULA.	$C_{12}D_9HF_{17}NO_3S$	**MOLECULAR WEIGHT:**	580 31
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY.**	≥98% $^2H(D)$
LAST TESTED. (mm/dd/yyyy)	04/17/2025 (HRGC/LRMS) 04/09/2025 (LC/MS)		
EXPIRY DATE. (mm/dd/yyyy)	04/17/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

8074138
ID: PFC_ST_04617
Exp:04/17/30 Prpd:WTU3 Opn:
Labeled d9-NEtPFOSAE Stock

8074139
ID: PFC_ST_04618
Exp:04/17/30 Prpd:WTU3 Opn:
Labeled d9-NEtPFOSAE Stock

8074140
ID: PFC_ST_04619
Exp:04/17/30 Prpd:WTU3 Opn:
Labeled d9-NEtPFOSAE Stock

8074141
ID: PFC_ST_04620
Exp:04/17/30 Prpd:WTU3 Opn:
Labeled d9-NEtPFOSAE Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 HRGC/LRMS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (Full Scan and Mass Spectrum)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- In order to see the molecular ion (adduct free) the LC mobile phase should be free of ammonium acetate buffer
- Contains ~0 7% of branched 2-(N-ethyl-d5-perfluorooctanesulfonamido)ethan-d4-ol by ^{19}F NMR.

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Certified By _____ **Date** 04/23/2025 (mm/dd/yyyy)

B G. Chittim General Manager

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TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

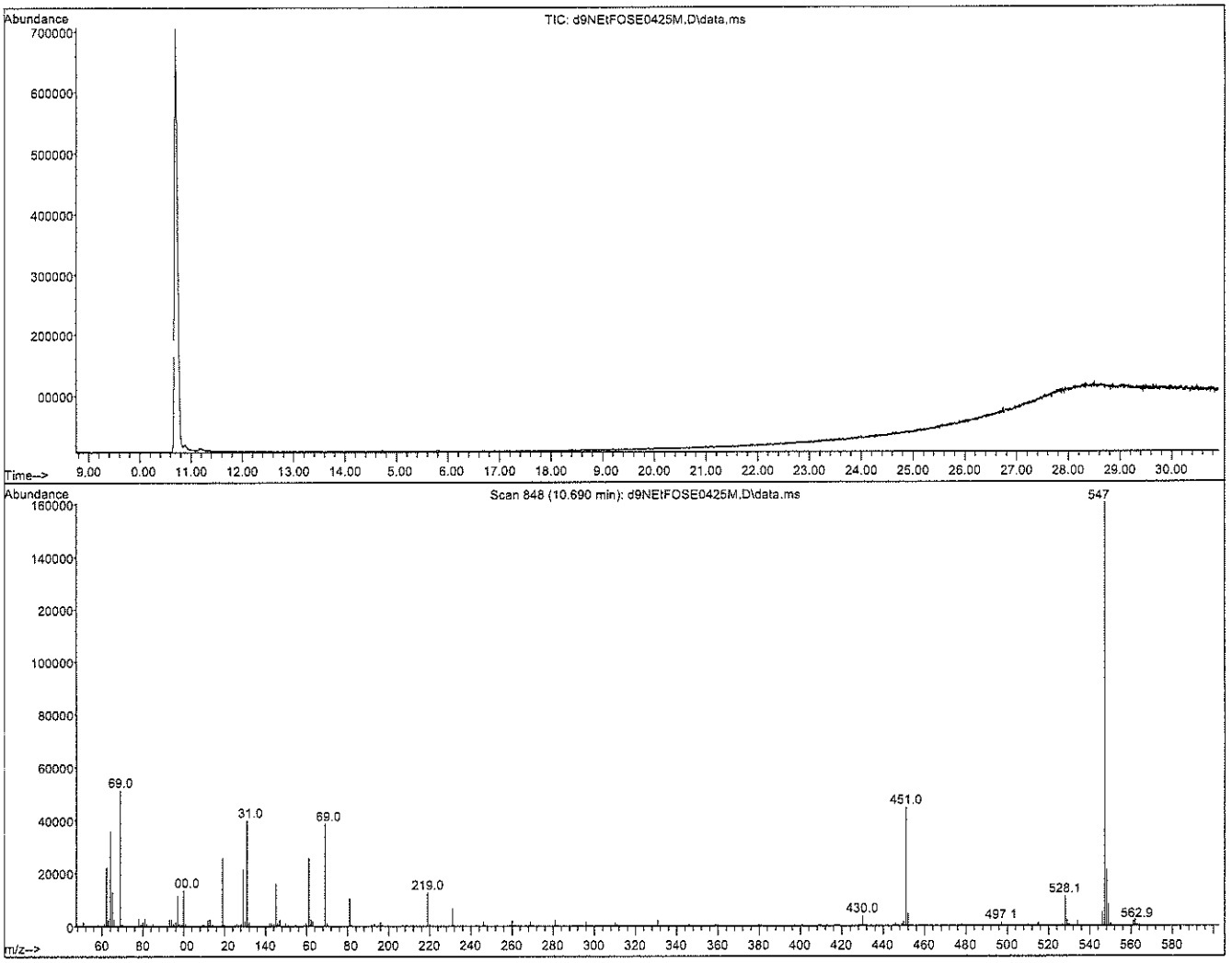
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

CALA Testing Accreditation No. A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **d9-N-EtFOSE-M, HRGC/LRMS Data (Full Scan and Mass Spectrum)**



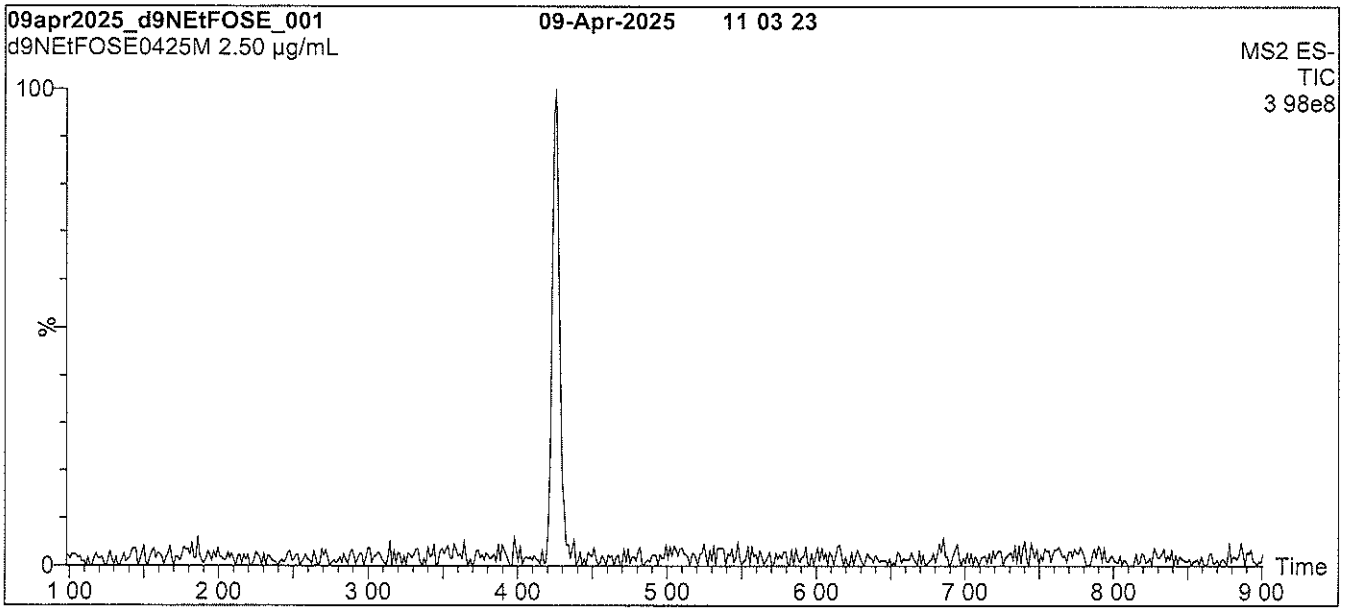
Conditions for Figure 1.

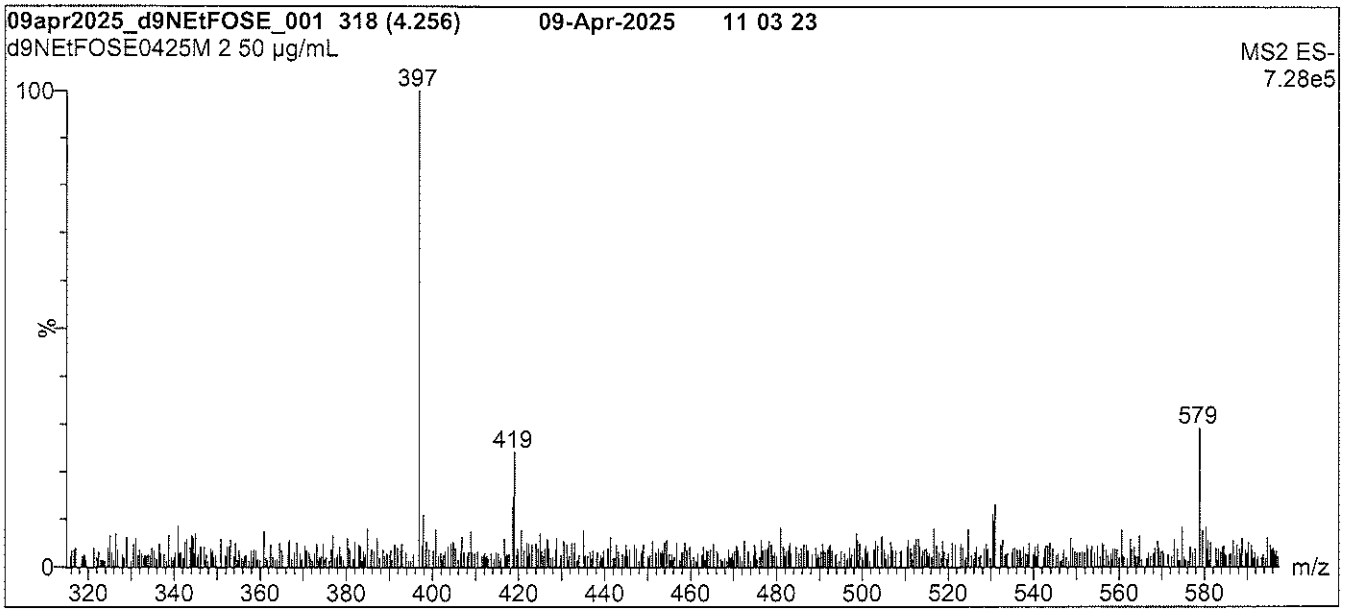
Agilent 7890A HRGC
Agilent 5975C MSD

Chromatographic Conditions.

Column	30 m HP-5MS UI (0 25 mm id 0 25 µm film thickness) Agilent J&W
Flow·	Constant at 1 0 mL/min
Injector·	250°C (Splitless Injection)
Oven	100°C (5 min) 10°C/min to 325°C 325°C (10 min)
Ionization	EI+
Detector·	230°C Full Scan (50-1000 amu)

Figure 2. **d9-N-EtFOSE-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

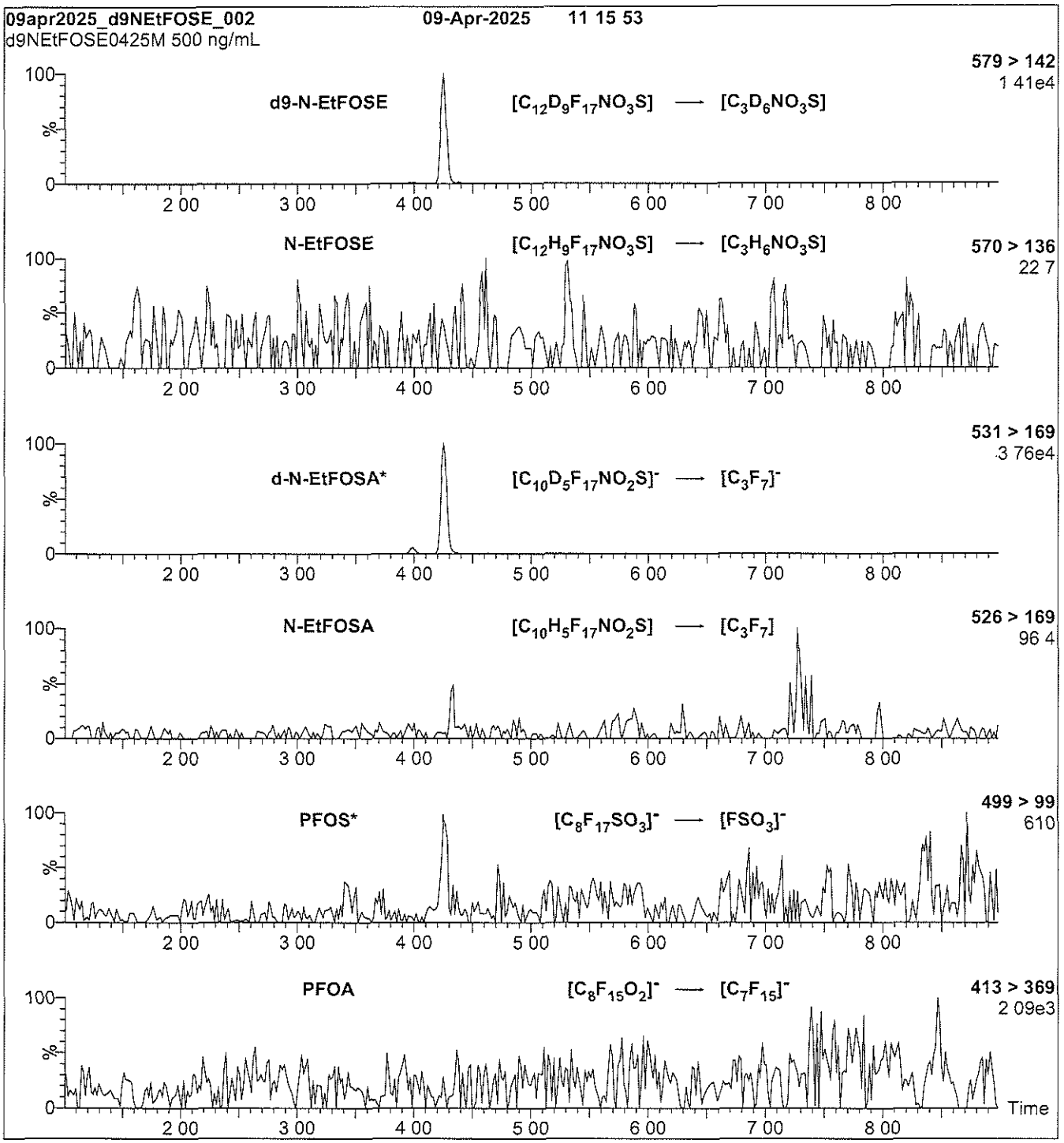
Column	Acquity UPLC BEH Shield RP$_{18}$ 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 30% H_2O / 70% MeOH Ramp to 90% organic over 9 m n and hold for 1 min before returning to nitial conditions in 0.5 m n Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source. Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **d9-N-EtFOSE-M, LC/MS/MS Data (Selected MRM Transitions)**



*Note: Formed by in-source fragmentation

Conditions for Figure 3.

Injection	On-column (d9-N-EtFOSE-M)
Mobile phase	Same as Figure 2
Flow	300 µL/m n

MS Parameters.

Collision Gas (mbar) = 5.98e-3
Collision Energy (eV) = 32

Reagent

PFC_ST_04627

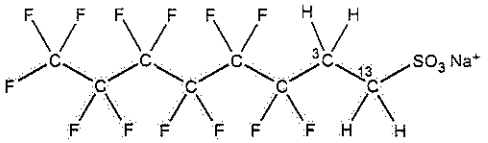
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE. M2-6.2FTS **LOT NUMBER.** M262FTS1224

COMPOUND. Sodium 1H 1H 2H 2H-perfluoro(1 2- $^{3}C_{2}$)octanesulfonate

STRUCTURE. **CAS #.** 2708218-89-5



410-8074416

MOLECULAR FORMULA.	$^{13}C_{2}{}^{12}C_{6}H_{4}F_{13}SO_{3}Na$	**MOLECULAR WEIGHT:**	452 13
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 47 6 ± 2.4 µg/mL (M2-6 2FTS acid) 47 5 ± 2 4 µg/mL (M2-6 2FTS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	12/19/2024		
EXPIRY DATE. (mm/dd/yyyy)	12/19/2029		
RECOMMENDED STORAGE.	Refrigerate ampoule		

8074414
ID: PFC ST 04625
Exp:12/19/29 Prpd:WTU3 Opn:
Labeled 13C2-6:2-FTS Stock

8074415
ID: PFC_ST_04626
Exp:12/19/29 Prpd:WTU3 Opn:
Labeled 13C2-6:2-FTS Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

8074416
ID: PFC_ST_04627
Exp:12/19/29 Prpd:WTU3 Opn:
Labeled 13C2-6:2-FTS Stock

8074417
ID: PFC_ST_04628
Exp:12/19/29 Prpd:WTU3 Opn:
Labeled 13C2-6:2-FTS Stock

ADDITIONAL INFORMATION.

- See page 2 for further details
- The native 6.2FTS contains 4.22% of ^{34}S (due to natural isotopic abundance) therefore both native 6.2FTS and M2-6 2FTS will produce signals in the m/z 429 to m/z 409 channel during SRM analysis We recommend using the m/z 429 to m/z 81 transition to monitor for M2-6 2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2)

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Certified By _____ **Date** 12/20/2024 (mm/dd/yyyy)
B G. Chittim General Manager

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INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the dentification and/or quantification of the specific chemical compound it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed us ng a combination of the most relevant techniques such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of nterest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystall ne material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or njection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncerta nty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is

$$u\ (y(x\ \ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The ndividual uncertainties taken into account nclude those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY.

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory stud es has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability n its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

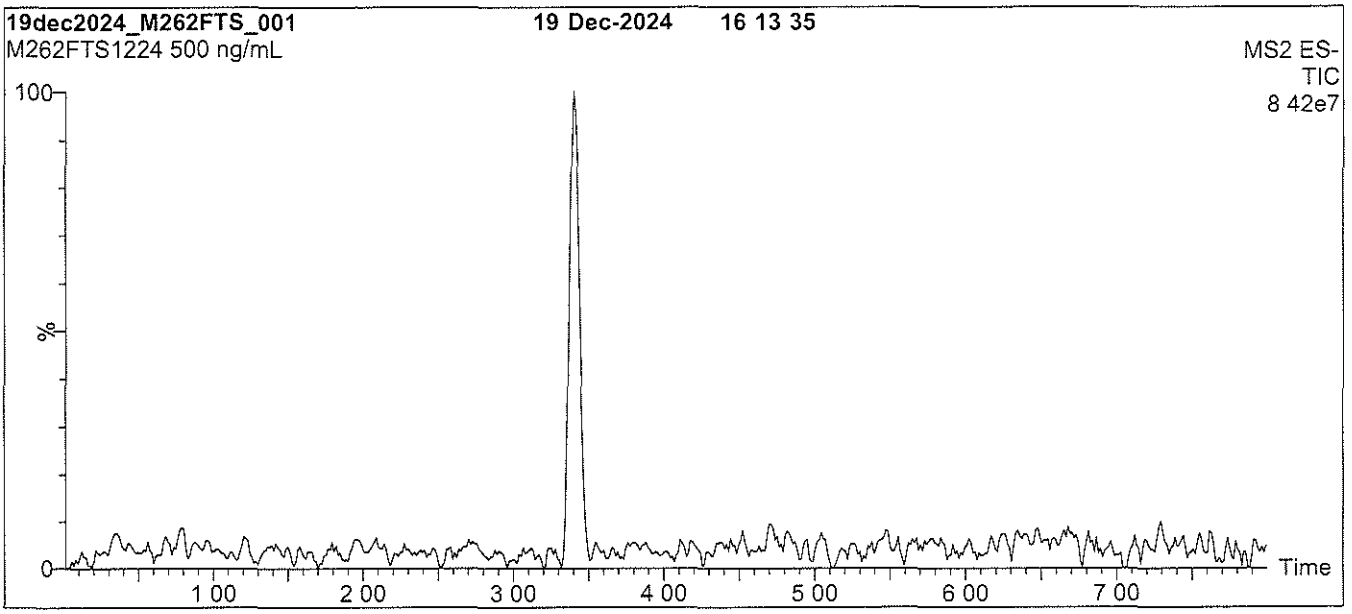
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canad an Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR 1523).

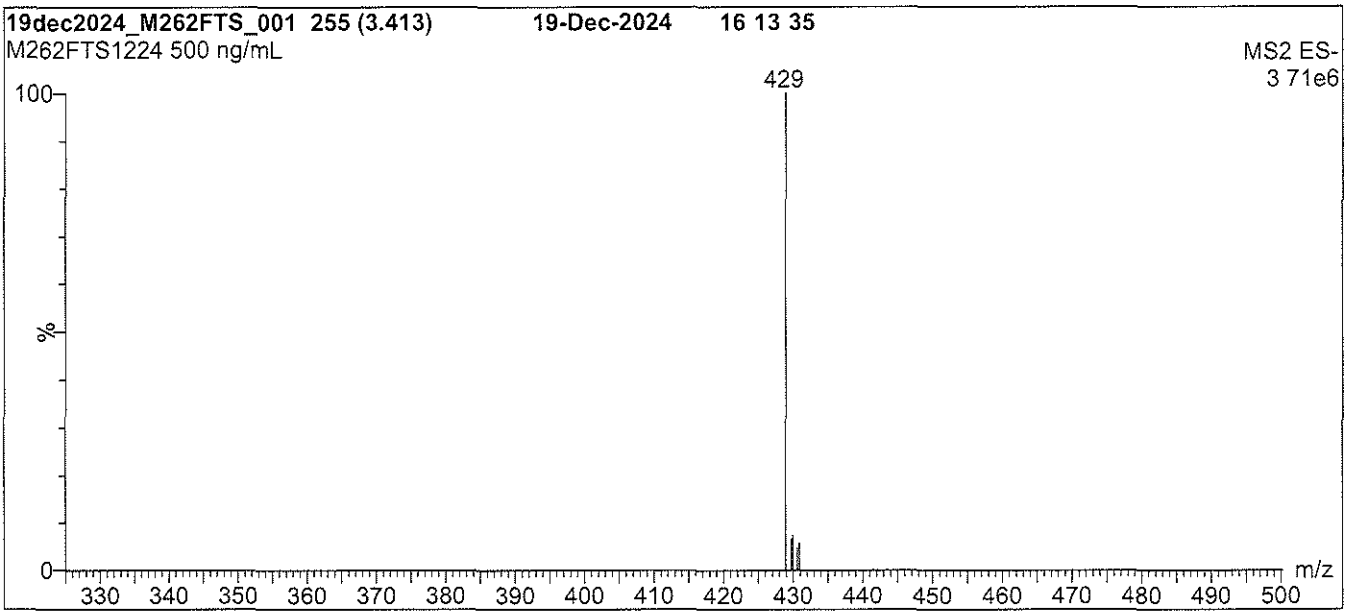
CALA Testing Accreditation No. A1226

ANAB ANSI Nat onal Accreditation Board ACCRED TED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M2-6 2FTS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

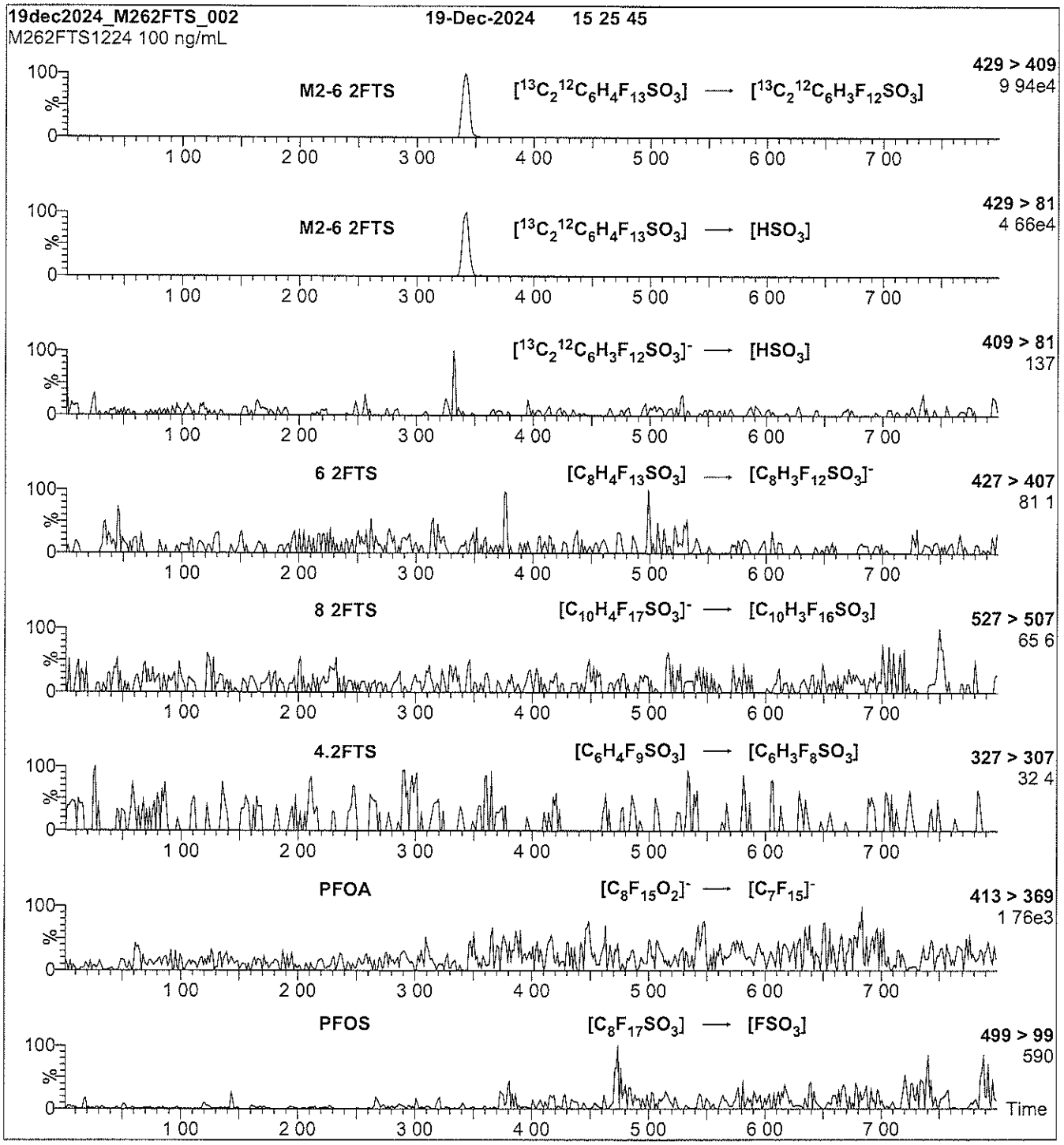
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80·20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time· 12 min
Flow·	300 µL/m·n

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2-6 2FTS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection.	On-column (M2-6.2FTS)
Mobile phase	Same as Figure 1
Flow·	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.46e-3
Collision Energy (eV) = 20

Reagent

PFC_ST_04631

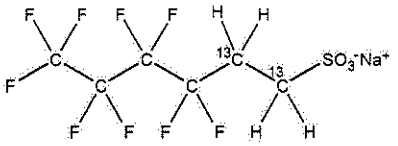
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE. M2-4 2FTS **LOT NUMBER.** M242FTS0125

COMPOUND. Sodium 1H 1H 2H 2H perfluoro(1 2 $^{3}C_{2}$)hexanesulfonate ($^{13}C_{2}$-4 2 FTS)

STRUCTURE.



CAS #. 2708218-88-4

410-8074462

MOLECULAR FORMULA.	$^{13}C_{2}{}^{12}C_{4}H_{4}F_{9}SO_{3}Na$	**MOLECULAR WEIGHT:**	352 12
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 46 9 ± 2.3 µg/mL (M2-4.2FTS acid) 46 7 ± 2 3 µg/mL (M2-4 2FTS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	01/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	01/28/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

8074459
ID: PFC_ST_04629
Exp:01/28/30 Prpd:WTU3 Opn:
Labeled 13C2-4:2-FTS Stock

8074461
ID: PFC_ST_04630
Exp:01/28/30 Prpd:WTU3 Opn:
Labeled 13C2-4:2-FTS Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

8074462
ID: PFC_ST_04631
Exp:01/28/30 Prpd:WTU3 Opn:
Labeled 13C2-4:2-FTS Stock

8074463
ID: PFC_ST_04632
Exp:01/28/30 Prpd:WTU3 Opn:
Labeled 13C2-4:2-FTS Stock

ADDITIONAL INFORMATION.

- See page 2 for further details
- The native 4.2FTS contains 4 22% of ^{34}S (due to natural isotopic abundance) therefore both native 4 2FTS and M2-4 2FTS will produce signals in the m/z 329 to m/z 309 channel during SRM analysis We recommend using the m/z 329 to m/z 81 transition to monitor for M2-4 2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2)
- Contains ≤0 5% of sodium 1H 2H-perfluoro-1-(1 2-$^{13}C_{2}$)hexenesulfonate by ^{9}F NMR

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Certified By _____ **Date** 01/28/2025 (mm/dd/yyyy)

B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
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INTENDED USE.

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HANDLING.

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS, LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, x_n on which it depends is

$$u\ (y(x\ \ x\ \ \ \ x_n)) = \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken nto account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

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QUALITY MANAGEMENT:

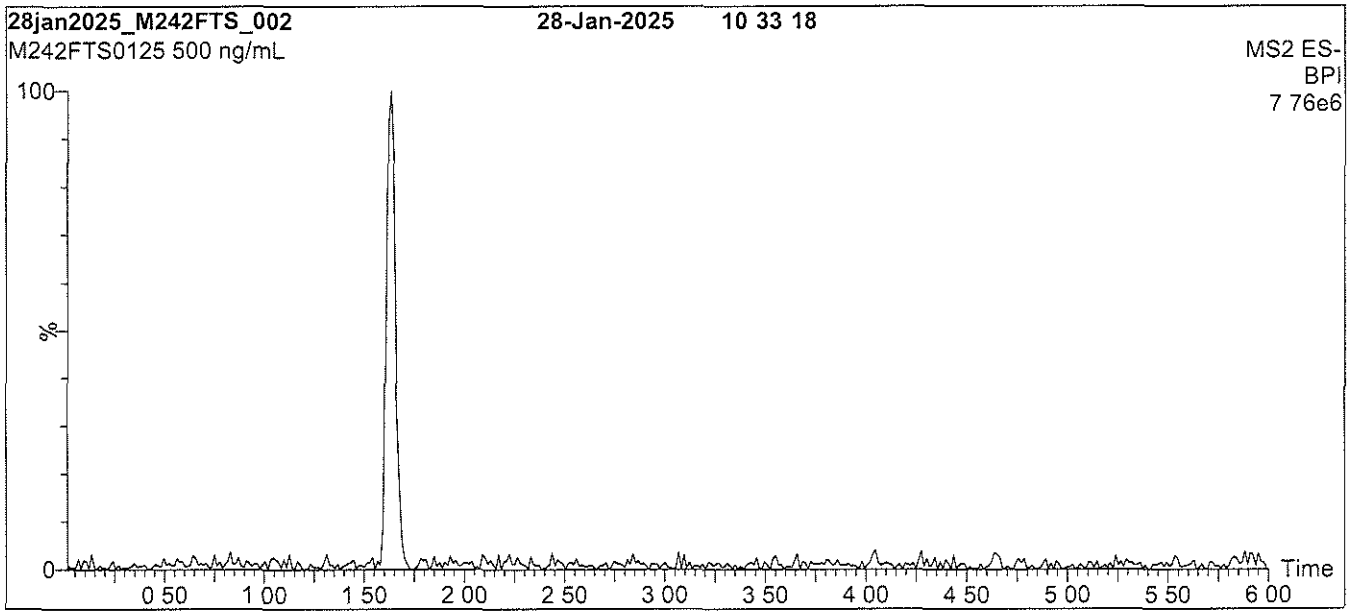
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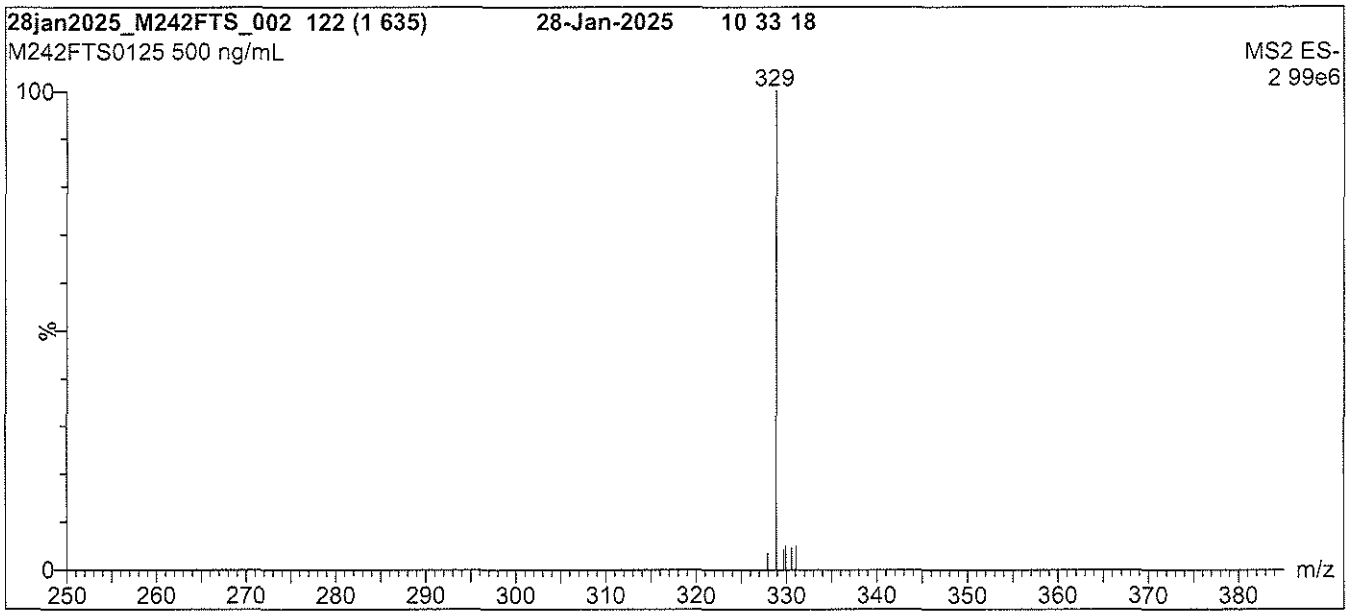
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M2-4 2FTS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time. 12 min

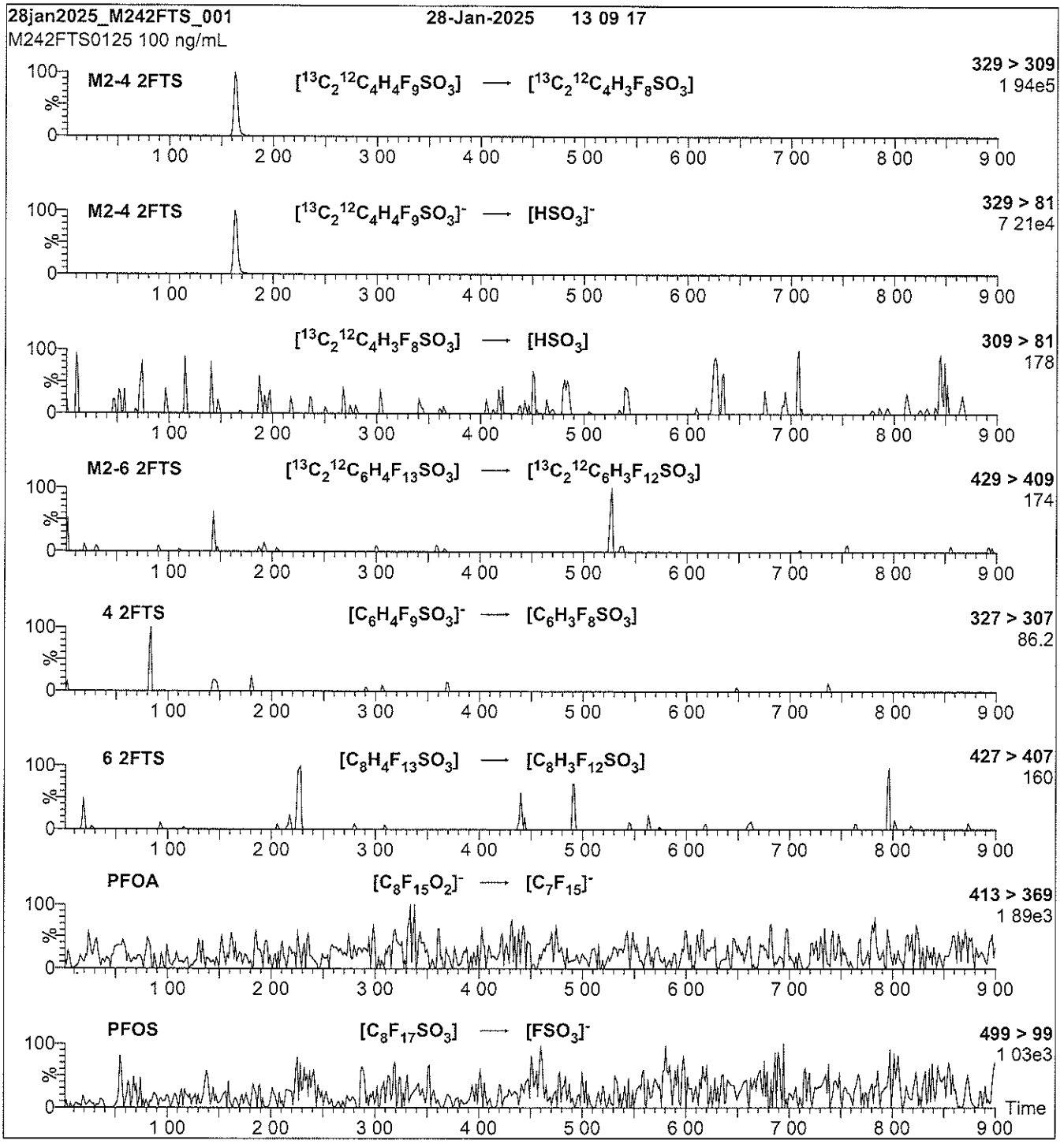
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 25 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2-4 2FTS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M2-4:2FTS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.24e-3
Collision Energy (eV) = 18

Reagent

PFC_ST_04652

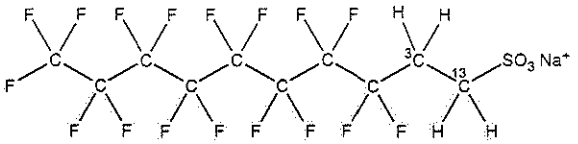
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE. M2-8 2FTS **LOT NUMBER.** M282FTS0425

COMPOUND. Sodium 1H 1H 2H,2H-perfluoro(1 2- $^{3}C_{2}$)decanesulfonate

STRUCTURE. **CAS #:** 2708218-90-8



410-8075183

MOLECULAR FORMULA.	$^{13}C_2$ $^{2}C_8H_4F_7SO_3Na$	**MOLECULAR WEIGHT:**	552 15
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 48 0 ± 2.4 µg/mL (M2-8 2FTS acid) 47 9 ± 2.4 µg/mL (M2-8.2FTS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY.**	≥99% ^{3}C
LAST TESTED. (mm/dd/yyyy)	04/09/2025		
EXPIRY DATE. (mm/dd/yyyy)	04/09/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

8075182 ID: PFC_ST_04651 Exp:04/09/30 Prpd:WTU3 Opn: Labeled 13C2-8:2-FTS Stock

8075183 ID: PFC_ST_04652 Exp:04/09/30 Prpd:WTU3 Opn: Labeled 13C2-8:2-FTS Stock

8075184 ID: PFC_ST_04653 Exp:04/09/30 Prpd:WTU3 Opn: Labeled 13C2-8:2-FTS Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

8075185 ID: PFC_ST_04654 Exp:04/09/30 Prpd:WTU3 Opn: Labeled 13C2-8:2-FTS Stock

8075186 ID: PFC_ST_04655 Exp:04/09/30 Prpd:WTU3 Opn: Labeled 13C2-8:2-FTS Stock

ADDITIONAL INFORMATION.

- See page 2 for further details
- The native 8 2FTS contains 4.22% of ^{34}S (due to natural isotopic abundance) therefore both native 8 2FTS and M2-8.2FTS will produce signals in the m/z 529 to m/z 509 channel during SRM analysis We recommend using the m/z 529 to m/z 81 transition to monitor for M2-8 2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2)

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Certified By _____ **Date** 04/23/2025 (mm/dd/yyyy)

B.G. Chittim General Manager

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HOMOGENEITY.

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner wh ch further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s), and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncerta nty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is.

$$u\ (y(x\ \ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (cal'bration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY.

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly cal'brated by an external ISO/IEC 17025 accredited laboratory In addition their cal'bration is verified prior to each weigh ng using calibrated external we ghts traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects n material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

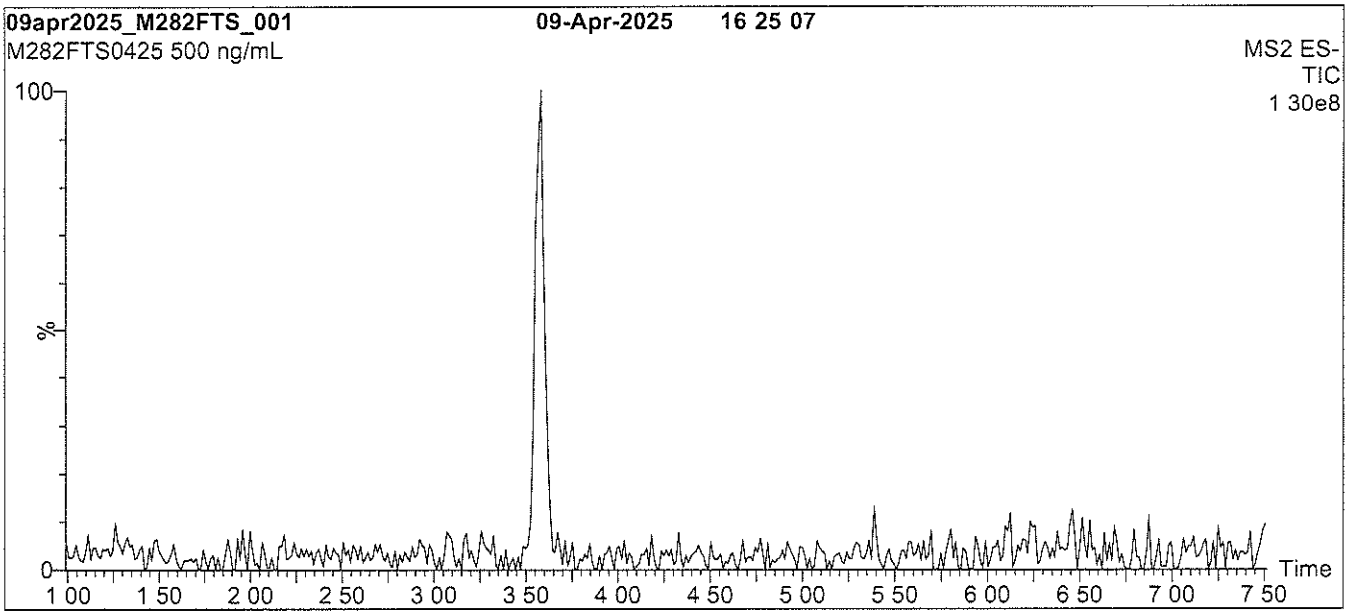
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523).

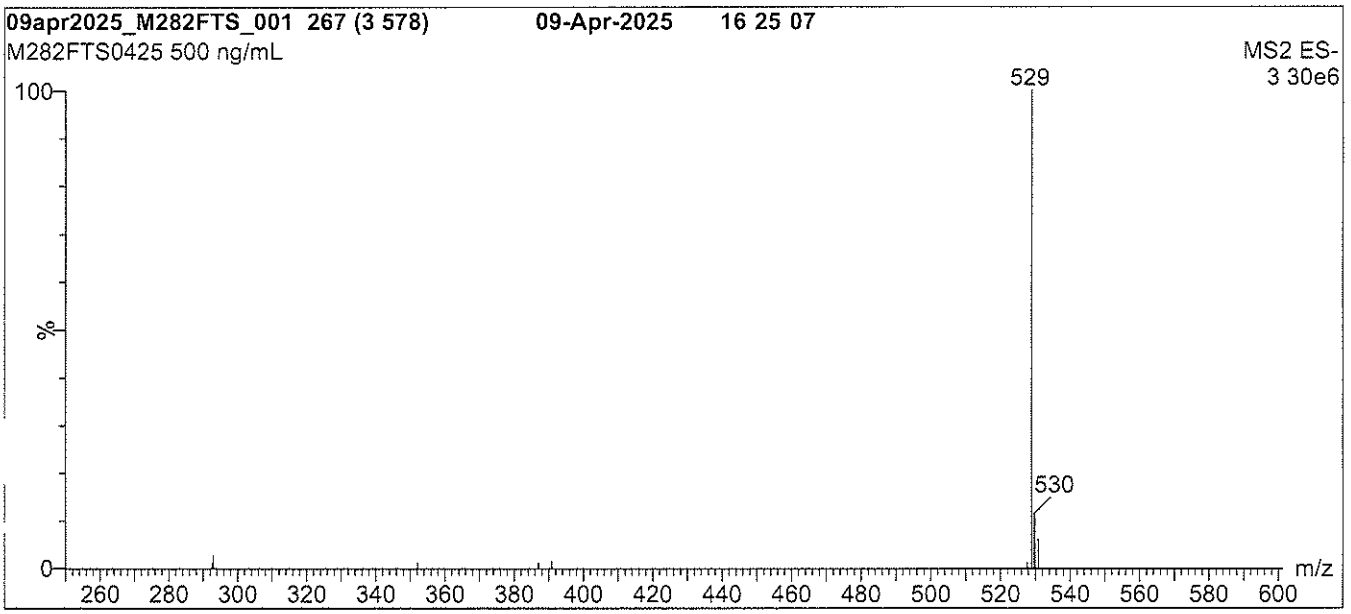
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M2-8 2FTS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Grad ent
Start: 40% H_2O / 60% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 m n and hold for 1 min
before returning to initial conditions in 0.5 m n
Time 12 min

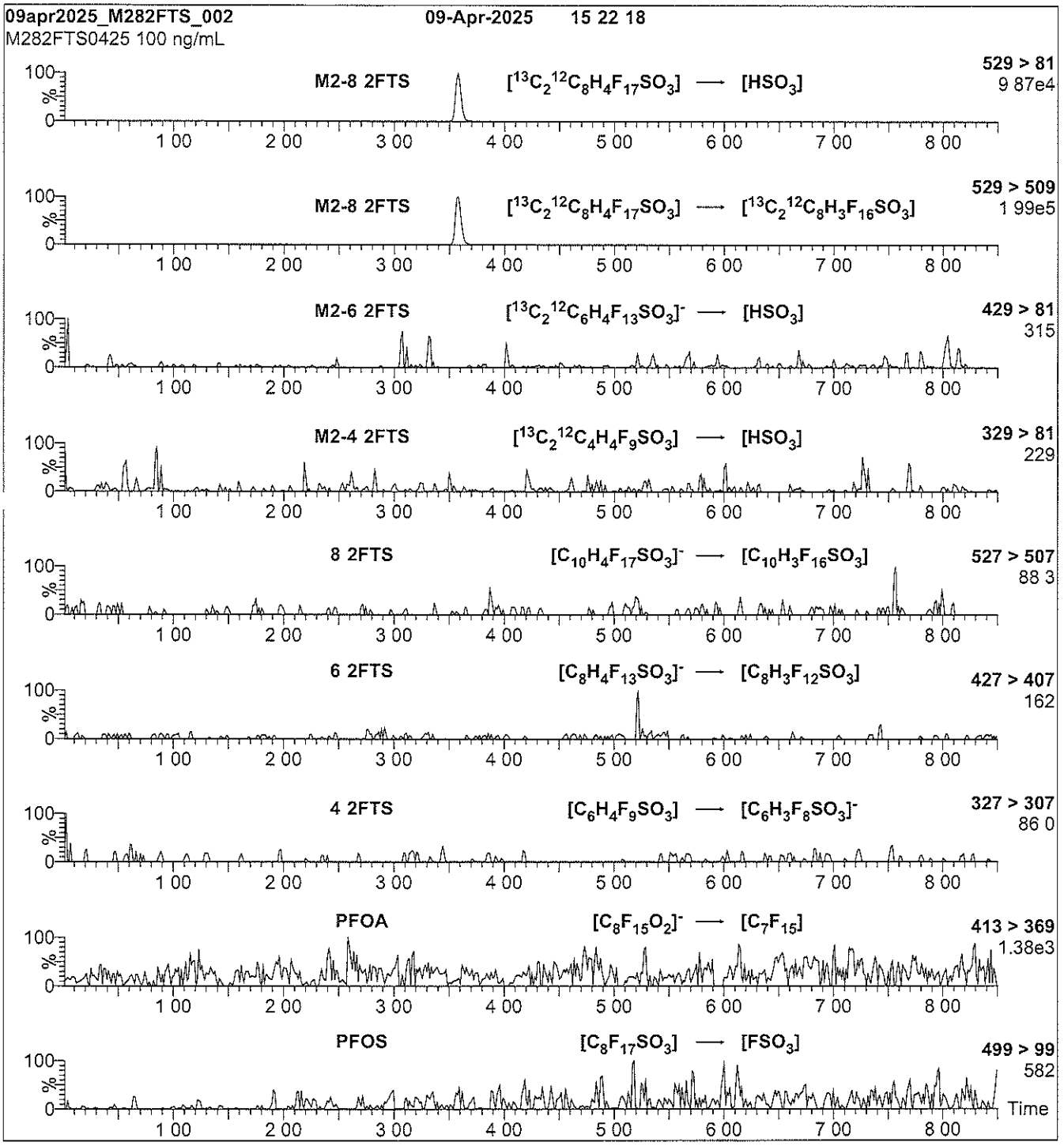
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 25 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2-8 2FTS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M2-8 2FTS)
Mobile phase	Same as F'gure 1
Flow·	300 µL/m n

MS Parameters.

Collision Gas (mbar) = 5 91e-3
Collision Energy (eV) = 26

Reagent

PFC_ST_04680

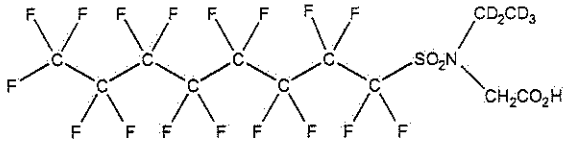
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. d5-N EtFOSAA **LOT NUMBER.** d5NEtFOSAA0125

COMPOUND. N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid

STRUCTURE. **CAS #.** 1265205-97 7



410-8076014

MOLECULAR FORMULA.	$C_{12}D_5H_3F_{17}NO_4S$	**MOLECULAR WEIGHT:**	590 26
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	01/23/2025		
EXPIRY DATE. (mm/dd/yyyy)	01/23/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

8076014
ID: PFC_ST_04680
Exp:01/23/30 Prpd:WTU3 Opn:
Labeled d5-N-EtFOSAA Stock

8076015
ID: PFC_ST_04681
Exp:01/23/30 Prpd:WTU3 Opn:
Labeled d5-N-EtFOSAA Stock

8076016
ID: PFC_ST_04682
Exp:01/23/30 Prpd:WTU3 Opn:
Labeled d5-N-EtFOSAA Stock

8076018
ID: PFC_ST_04683
Exp:01/23/30 Prpd:WTU3 Opn:
Labeled d5-N-EtFOSAA Stock

8076019
ID: PFC_ST_04684
Exp:01/23/30 Prpd:WTU3 Opn:
Labeled d5-N-EtFOSAA Stock

8076020
ID: PFC_ST_04685
Exp:01/23/30 Prpd:WTU3 Opn:
Labeled d5-N-EtFOSAA Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester

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Certified By· B G. Chittim General Manager **Date** 02/10/2025 (mm/dd/yyyy)

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HANDLING.

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where x is expressed as a relative standard uncertainty of the ndividual parameter

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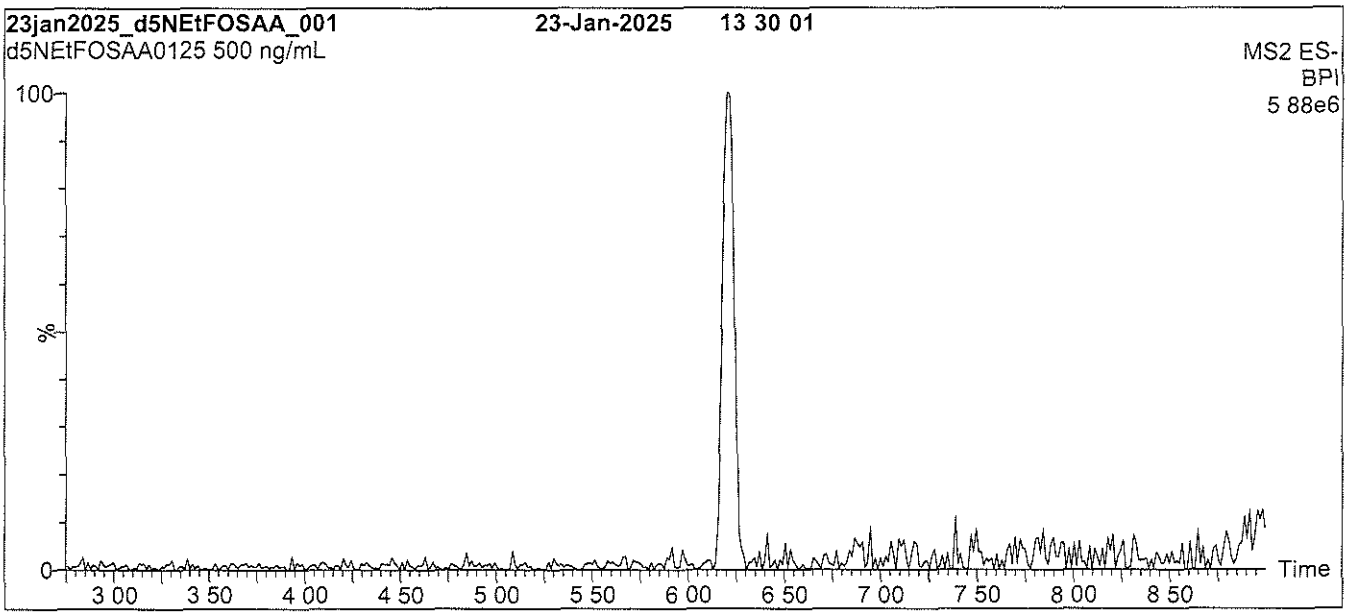
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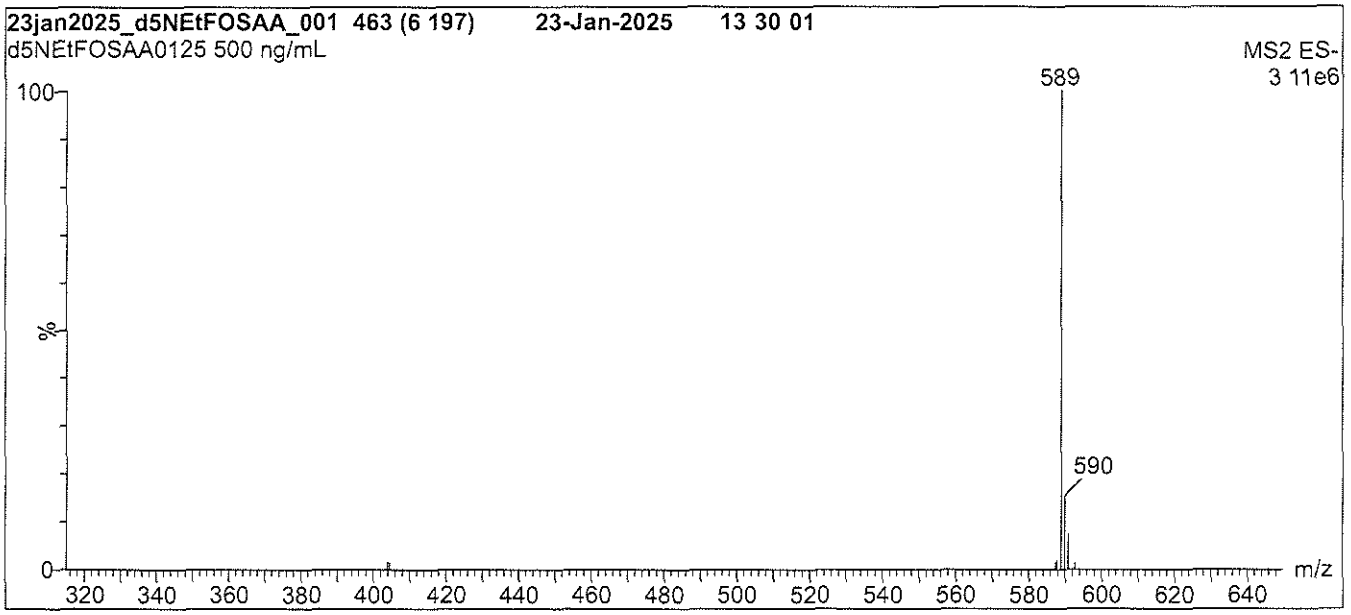
CALA Tes ing Accreditation No. A 226

ANAB ANSI Nat onal Accreditation Board ACCRED TED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **d5-N-EtFOSAA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Grad ent
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

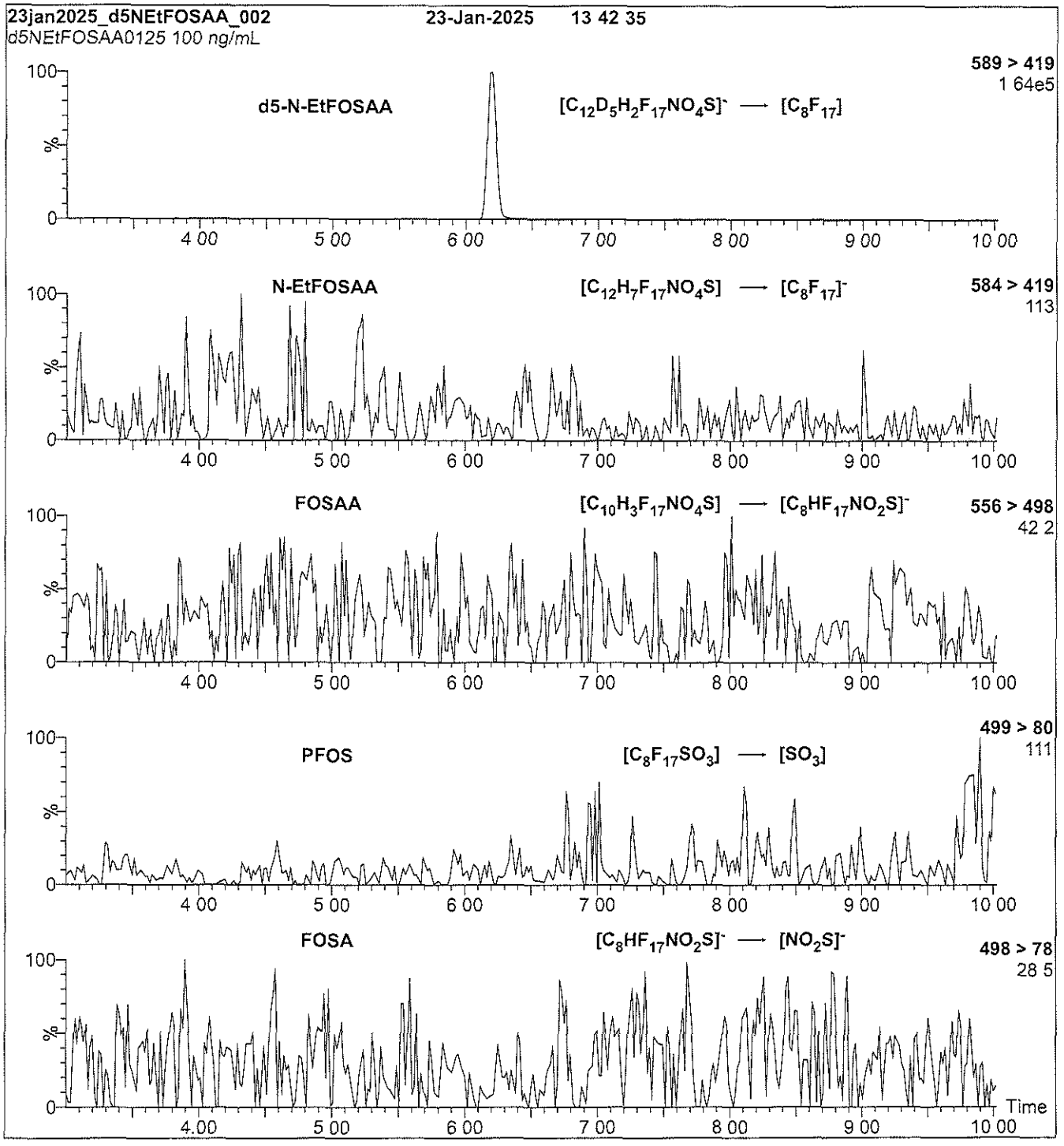
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Cap llary Voltage (kV) = 2 00
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. d5-N-EtFOSAA, LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2.

Injection	On-column (d5-N-EtFOSAA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.21e-3
Collision Energy (eV) = 18

Reagent

PFC_ST_04687

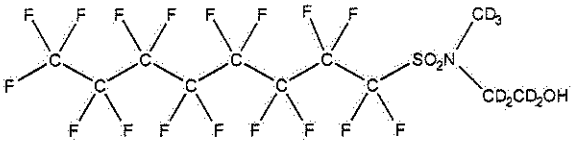
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. d7-N-MeFOSE M **LOT NUMBER.** d7NMeFOSE0425M

COMPOUND. 2-(N-Methyl-d3-perfluoro-1-octanesulfonamido)ethan-d4-ol

STRUCTURE. **CAS #.** 1265205-95-5



410-8076094

MOLECULAR FORMULA.	$C_{11}D_7HF_{17}NO_3S$	**MOLECULAR WEIGHT:**	564.27
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	04/23/2025 (HRGC/LRMS) 04/28/2025 (LC/MS)		
EXPIRY DATE. (mm/dd/yyyy)	04/28/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

8076092
ID: PFC_ST_04686
Exp:04/28/30 Prpd:WTU3 Opn:
Labeled d7-NMePFOSAE Stock

8076094
ID: PFC_ST_04687
Exp:04/28/30 Prpd:WTU3 Opn:
Labeled d7-NMePFOSAE Stock

8076095
ID: PFC_ST_04688
Exp:04/28/30 Prpd:WTU3 Opn:
Labeled d7-NMePFOSAE Stock

8076096
ID: PFC_ST_04689
Exp:04/28/30 Prpd:WTU3 Opn:
Labeled d7-NMePFOSAE Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 HRGC/LRMS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (Full Scan and Mass Spectrum)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- In order to see the molecular ion (adduct free) the LC mobile phase should be free of ammonium acetate buffer
- Contains ~0 8% of a branched isomer of d7-N-MeFOSE by ^{19}F NMR

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Certified By _____ **Date** 04/30/2025 (mm/dd/yyyy)

B G. Chittim General Manager

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HOMOGENEITY:

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where x is expressed as a relative standard uncertainty of the individual parameter

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LIMITED WARRANTY.

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QUALITY MANAGEMENT:

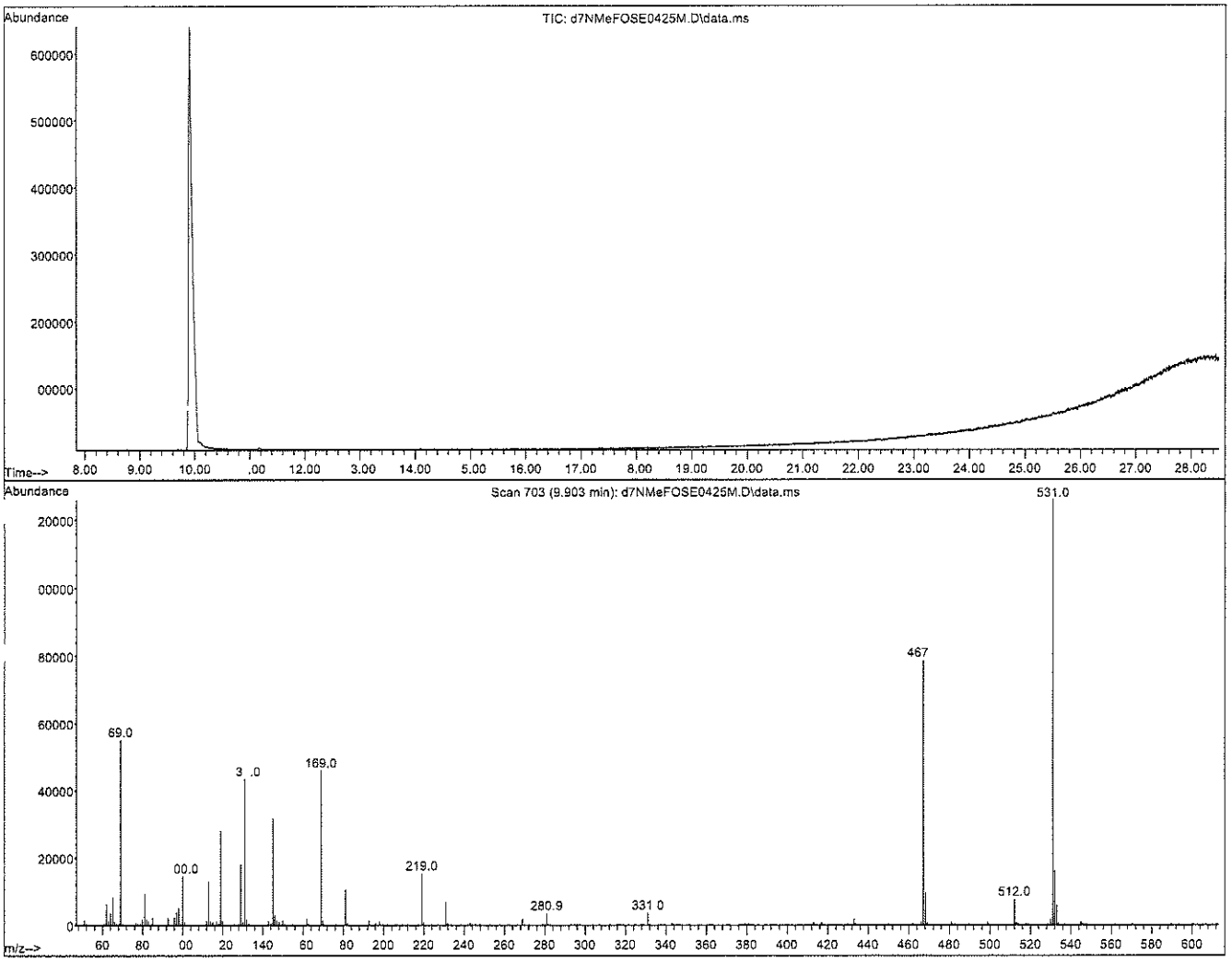
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CALA Testing Accreditation No A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **d7-N-MeFOSE-M, HRGC/LRMS Data (Full Scan and Mass Spectrum)**



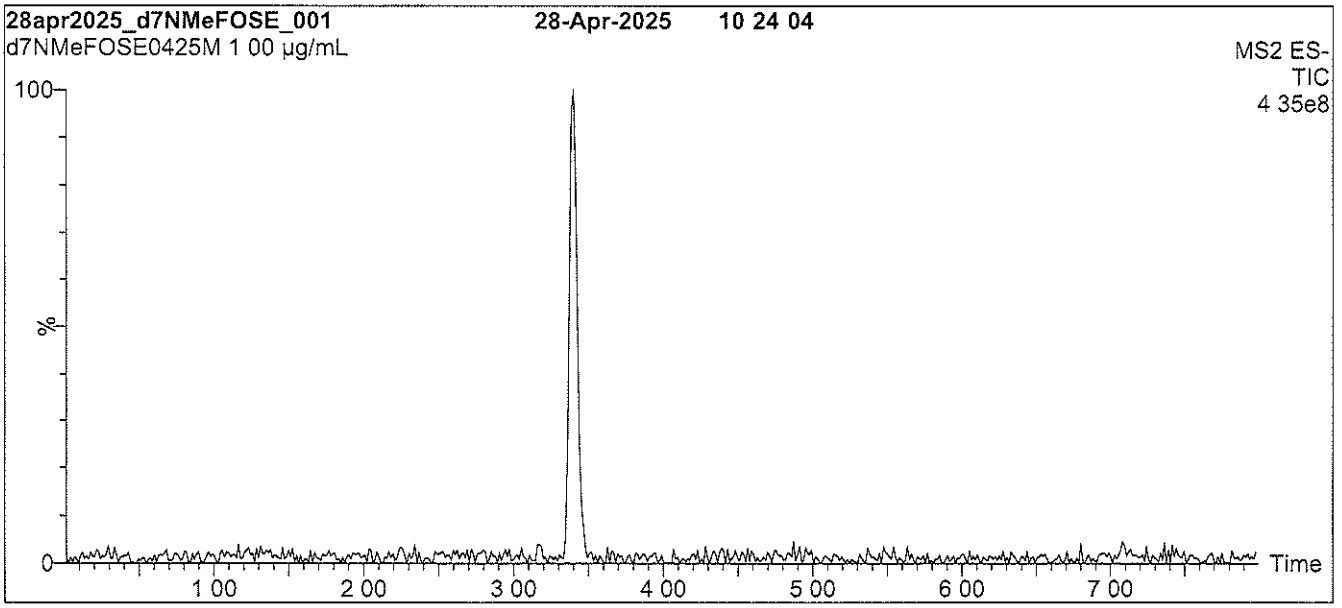
Conditions for Figure 1.

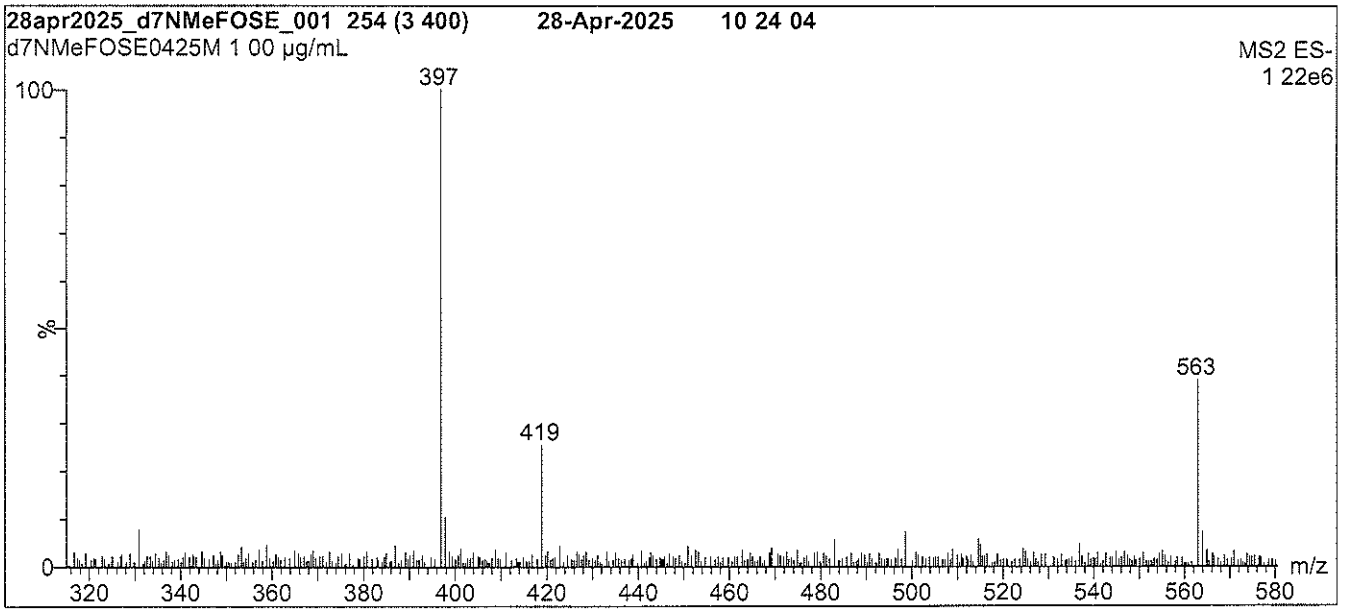
Agilent 7890A HRGC
Agilent 5975C MSD

Chromatographic Conditions.

Column	30 m HP-5MS UI (0 25 mm id 0 25 µm film thickness) Agilent J&W
Flow	Constant at 1 0 mL/min
Injector	250°C (Splitless Injection)
Oven	100°C (5 min)
	10°C/min to 325°C
	325°C (10 min)
Ionization	EI+
Detector	230°C
	Full Scan (50-1000 amu)

Figure 2. **d7-N-MeFOSE-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP$_{a}$
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% MeOH
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 m n
Time 12 min

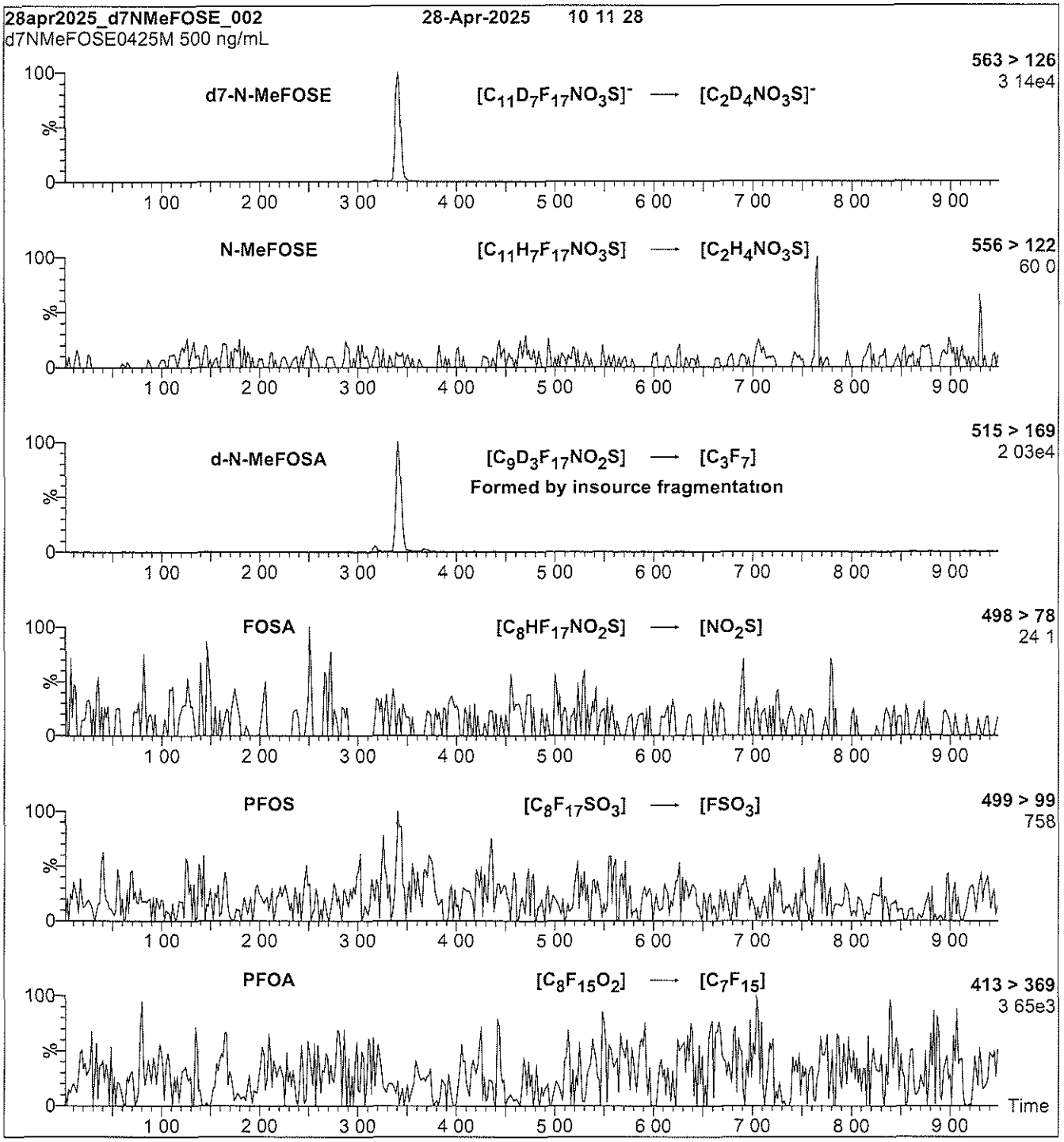
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **d7-N-MeFOSE-M, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3.

Injection	On-column (d7-N-MeFOSE-M)
Mobile phase:	Same as Figure 2
Flow:	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5 87e-3
Collision Energy (eV) = 36

Reagent

PFC_ST_04690

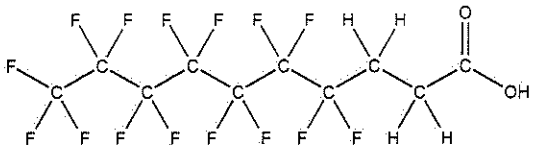
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. FHpPA **LOT NUMBER.** FHpPA1224

COMPOUND. 3-Perfluoroheptyl propanoic acid (7 3 FTCA)

STRUCTURE. **CAS #.** 812 70-4



410-8076134

MOLECULAR FORMULA.	$C_0H_5F_{15}O_2$	**MOLECULAR WEIGHT:**	442 12
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	12/16/2024		
EXPIRY DATE. (mm/dd/yyyy)	12/16/2029		
RECOMMENDED STORAGE.	Refrigerate ampoule		

8076134
ID: PFC_ST_04690
Exp:12/16/29 Prpd:WTU3 Opn:
Native FHpPA Stock (7:3 FTCA)

8076135
ID: PFC_ST_04691
Exp:12/16/29 Prpd:WTU3 Opn:
Native FHpPA Stock (7:3 FTCA)

8076136
ID: PFC_ST_04692
Exp:12/16/29 Prpd:WTU3 Opn:
Native FHpPA Stock (7:3 FTCA)

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains ~0 2% of 3-perfluorohexyl propanoic acid (6 3 FTCA)

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Certified By _____ **Date** 02/18/2025
B G. Chittim General Manager (mm/dd/yyyy)

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of nterest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline materia as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the ntegrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation.

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, $.x_n$ on which it depends is

$$u\ (y(x_1\ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken nto account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly cal'brated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date n the unopened ampoule Monitoring for any degradation or change n concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

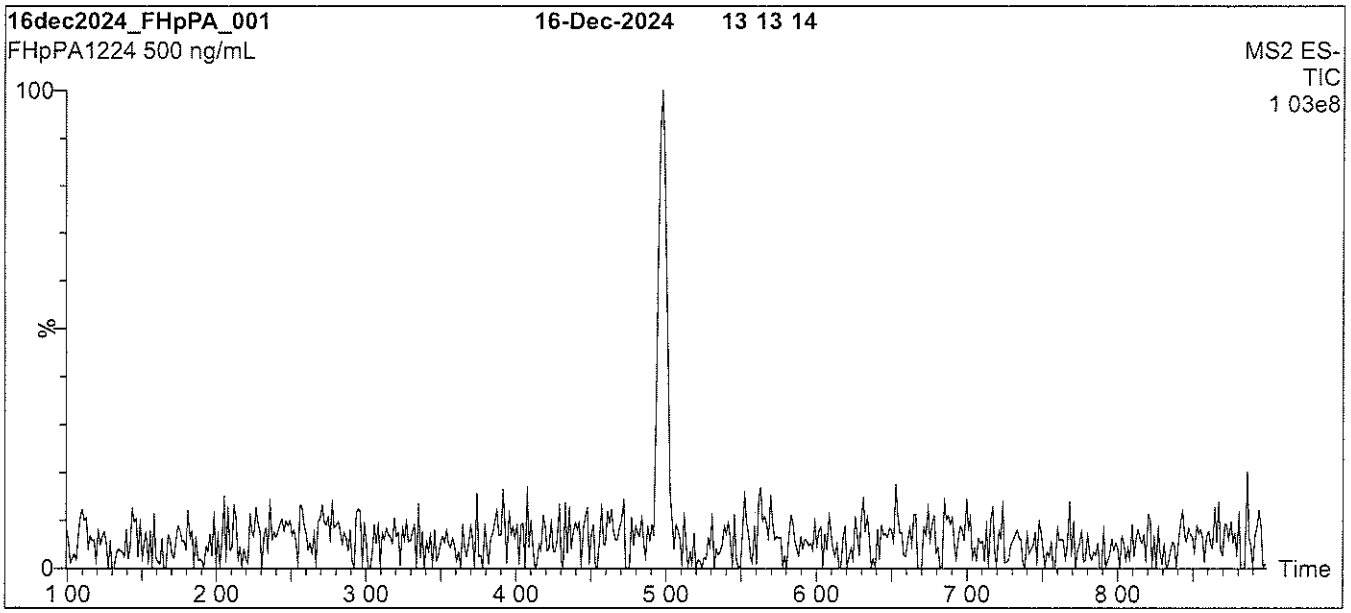
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

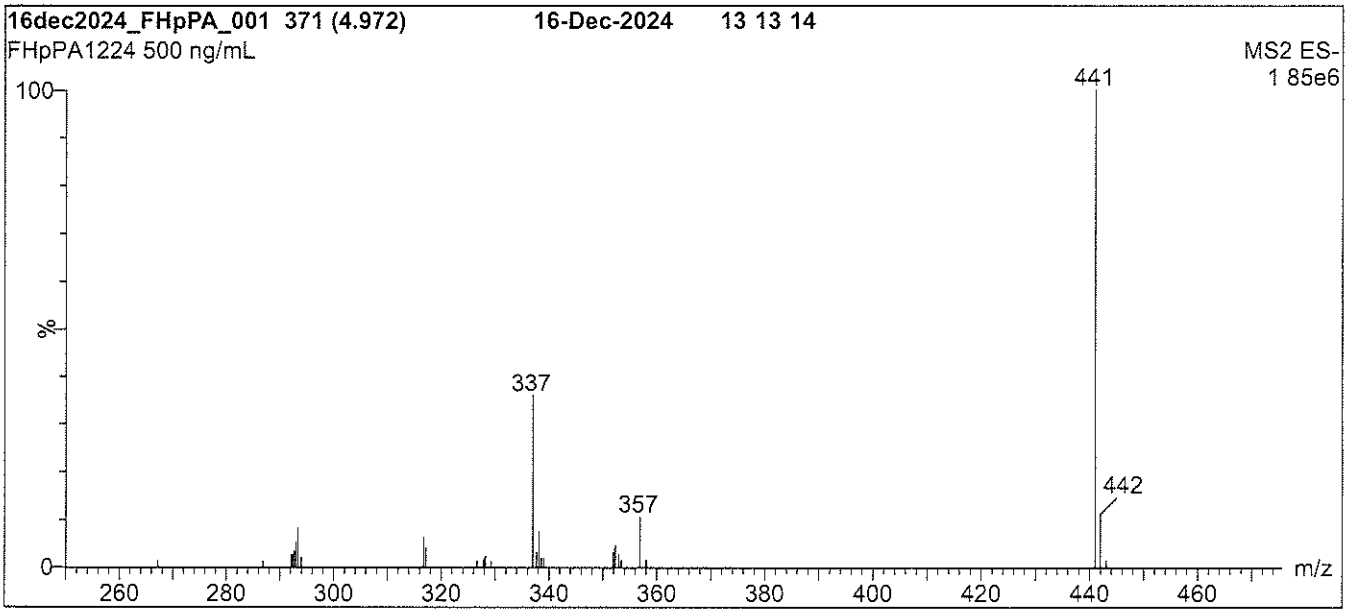
CALA Testing Accreditation No. A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **FHpPA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

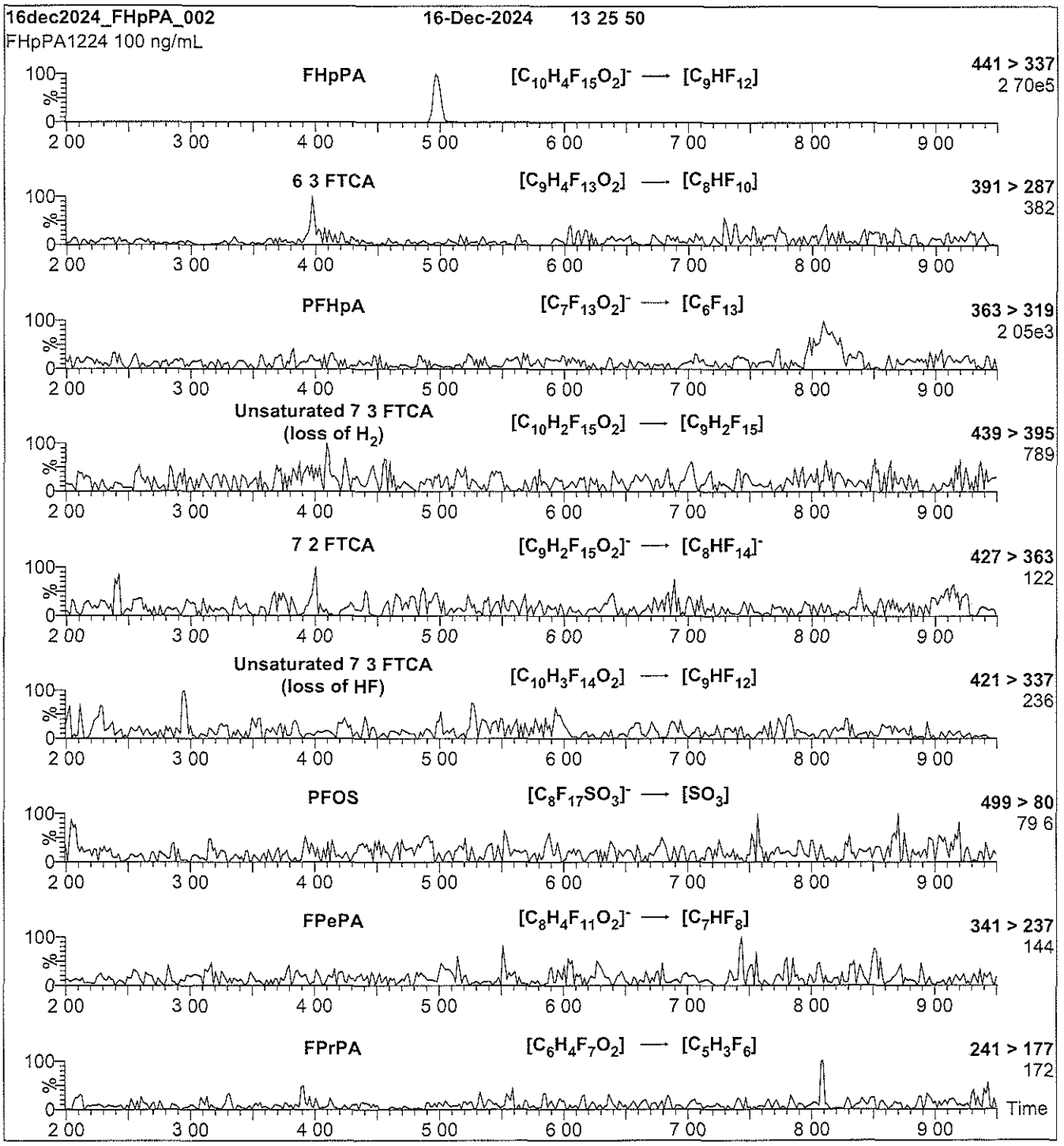
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80 20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 0 50
Cone Voltage (V) = 28 50
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **FHpPA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (FHpPA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5.42e-3
Collision Energy (eV) = 8

Reagent

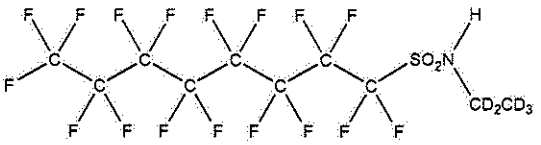
PFC_ST_04695

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	d-N-EtFOSA M	**LOT NUMBER.**	dNEtFOSA1124M
COMPOUND.	N-Ethyl-d_5-perfluoro-1-octanesulfonamide		

STRUCTURE.



CAS #. 936109-40-9

410-8087403

MOLECULAR FORMULA.	$C_{10}D_5HF_{17}NO_2S$	**MOLECULAR WEIGHT:**	532 23
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	10/15/2024		
EXPIRY DATE. (mm/dd/yyyy)	10/15/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

8087401
ID: PFC_ST_04693
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d5-NEtPFOSA Stock

8087402
ID: PFC_ST_04694
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d5-NEtPFOSA Stock

8087403
ID: PFC_ST_04695
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d5-NEtPFOSA Stock

8087404
ID: PFC_ST_04696
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d5-NEtPFOSA Stock

ADDITIONAL INFORMATION.

- See page 2 for further details

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 10/18/2024 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

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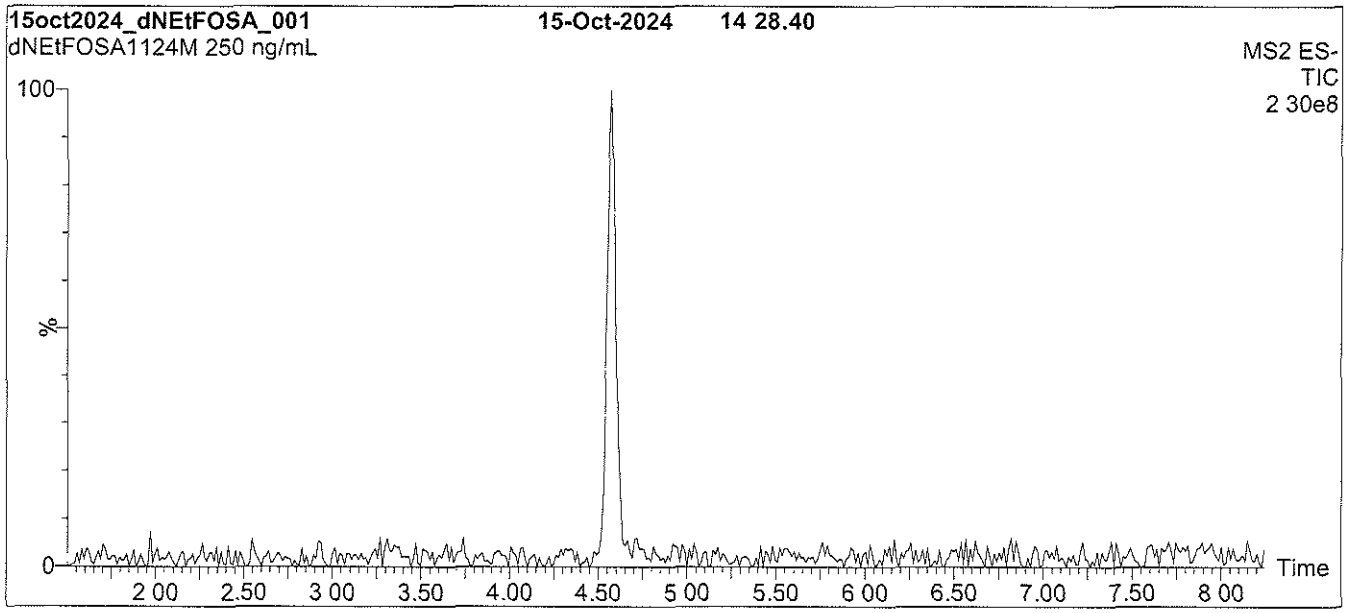
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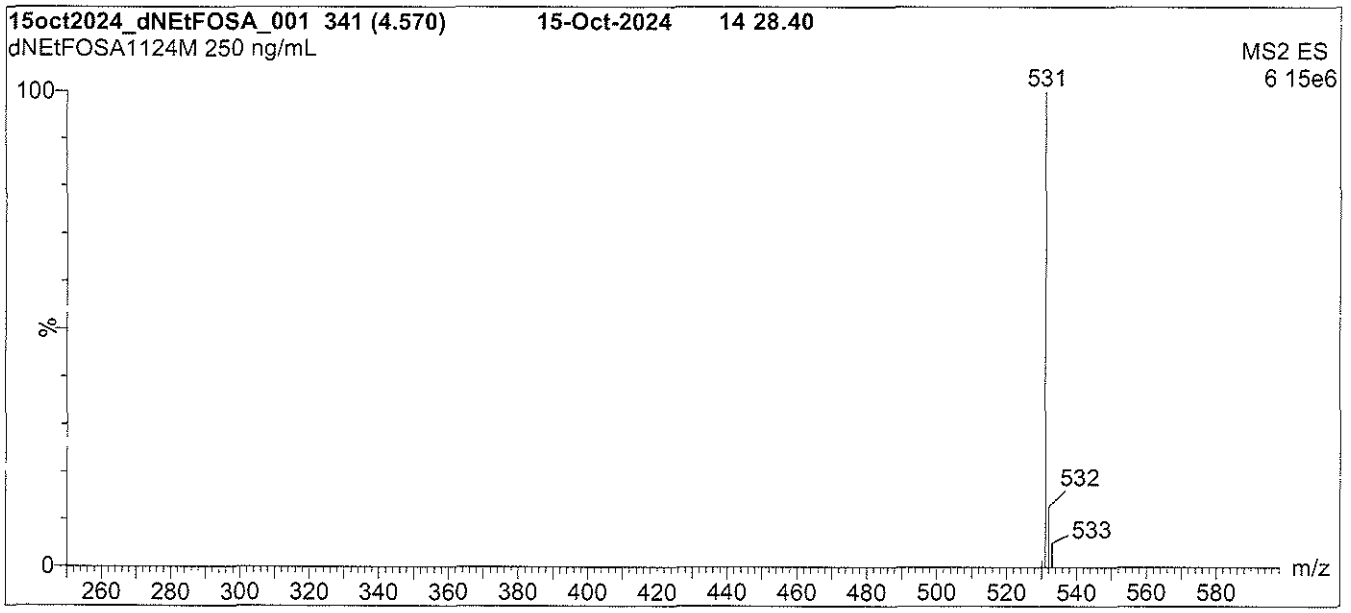
CALA Testing Accreditation No. A1226

ANAB ANSI Nat nal Accreditat on Board ACCRED TED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **d-N-EtFOSA-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

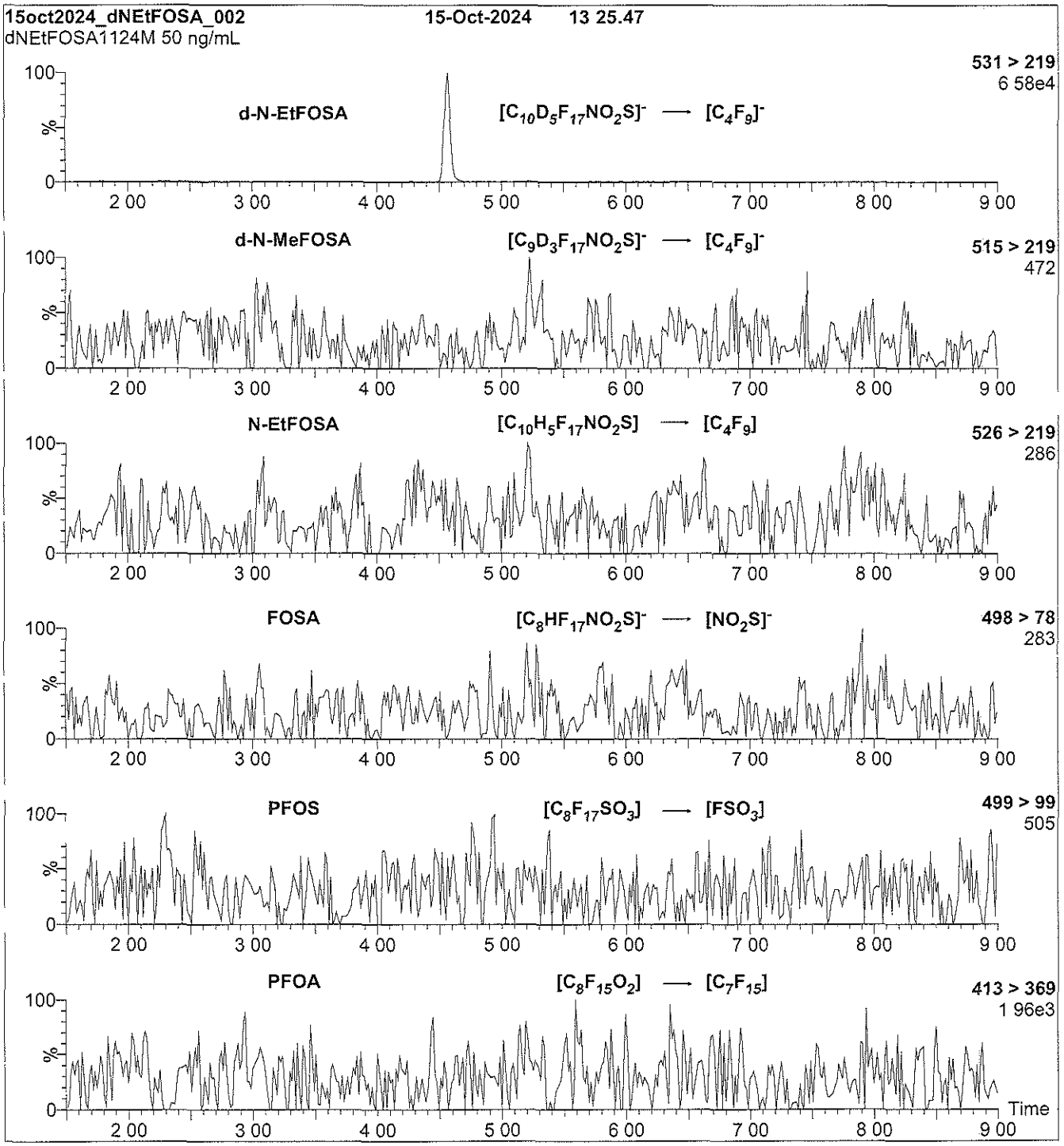
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 30% H_2O / 70% (80.20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 1 00
Cone Voltage (V) = 44 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **d-N-EtFOSA-M, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (d-N-EtFOSA-M)
Mobile phase	Same as Figure 1
Flow	300 µL/m n

MS Parameters.

Collision Gas (mbar) = 4.24e-3
Collision Energy (eV) = 24

Reagent

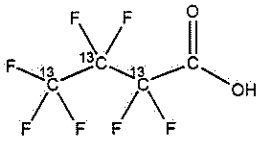
PFC_ST_04712

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-04248

PRODUCT CODE.	M3PFBA	**LOT NUMBER.**	M3PFBA0125
COMPOUND.	Perfluoro-n-(2 3,4- $^{3}C_{3}$)butanoic acid		
STRUCTURE.		**CAS #.**	2483735-33-5



410-7664778

MOLECULAR FORMULA.	$^{13}C_{3}{}^{12}CHF_{7}O_{2}$	**MOLECULAR WEIGHT:**	217 02
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	01/10/2025		
EXPIRY DATE. (mm/dd/yyyy)	01/10/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~0 2% of perfluoro-n-($^{13}C_{3}$)propanoic acid and also contains ~1 1% of perfluoro-n-($^{13}C_{4}$)butanoic acid (MPFBA) due to the naturally occurring isotopic abundance of ^{13}C in the unlabelled carbon atom

FOR LABORATORY USE ONLY NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 01/16/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

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where x is expressed as a relative standard uncertainty of the individual parameter

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EXPIRY DATE / PERIOD OF VALIDITY.

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

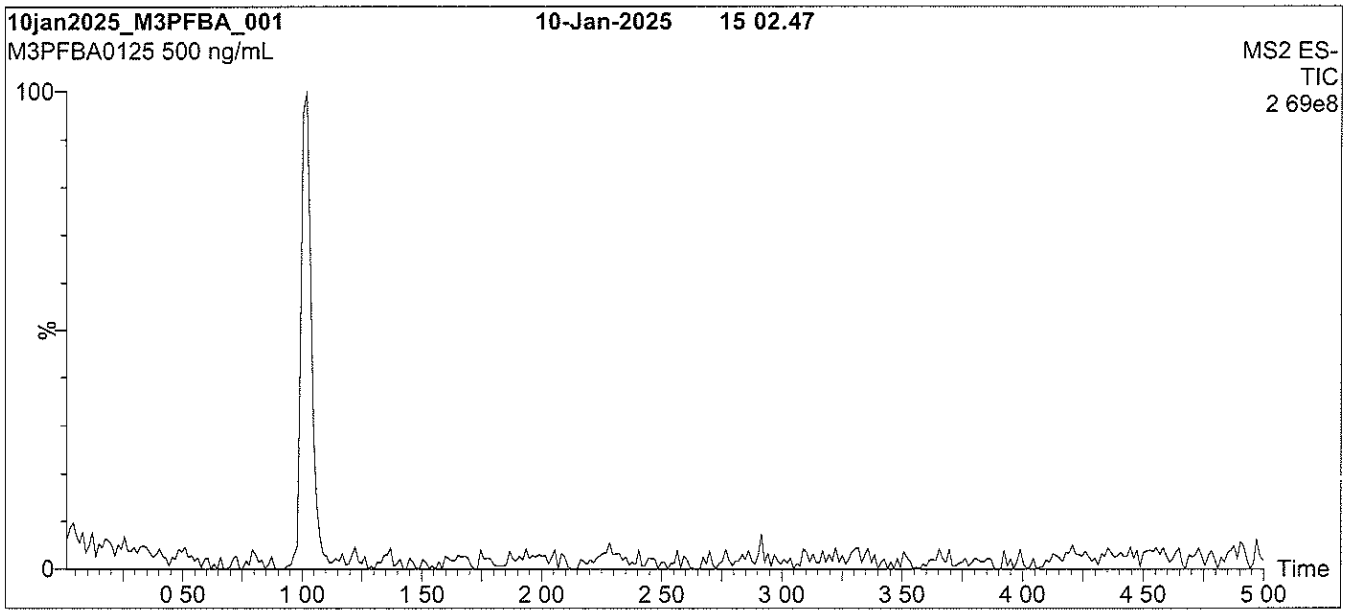
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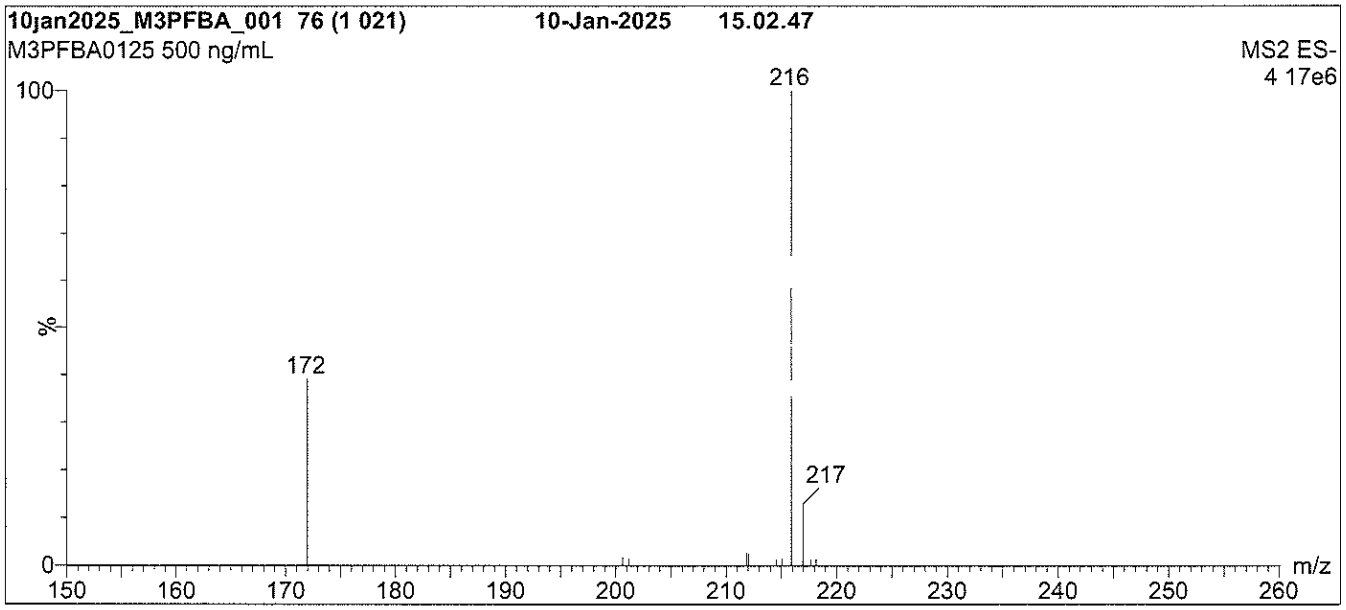
CALA Testing Accreditation No. A1226

ANAB At National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M3PFBA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80 20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

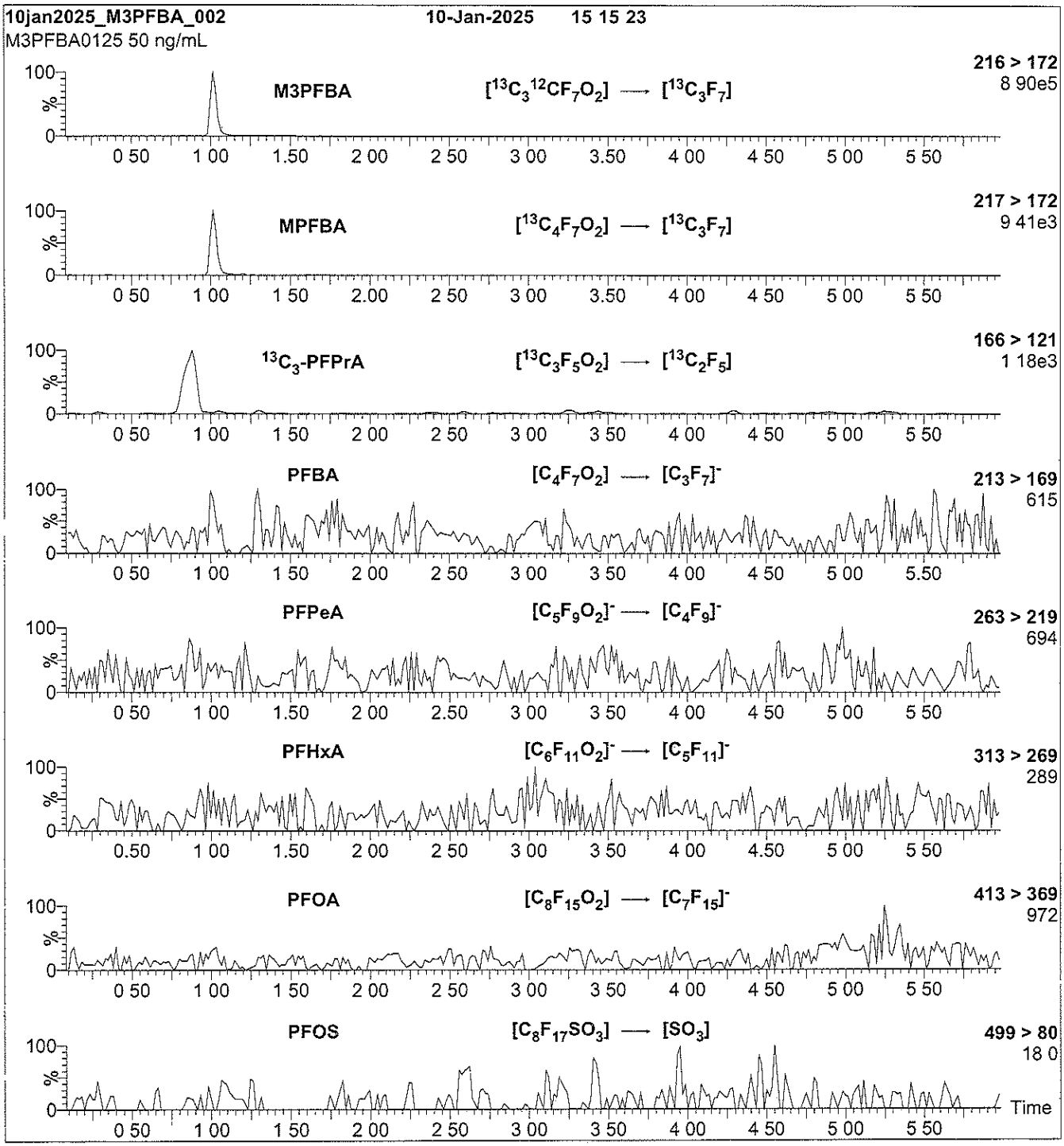
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3PFBA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M3PFBA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 6.29e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_04713

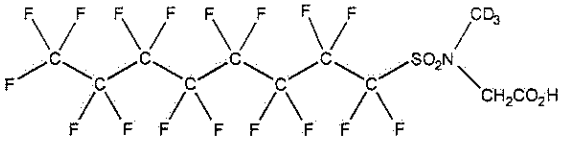
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE. d3-N-MeFOSAA **LOT NUMBER.** d3NMeFOSAA0525

COMPOUND. N Methyl-d_3-perfluoro-1-octanesulfonamidoacetic acid

STRUCTURE. **CAS #.** 1400690 70-1



410-8075611

MOLECULAR FORMULA.	$C_{11}D_3H_3F_{17}NO_4S$	**MOLECULAR WEIGHT:**	574 23
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY.**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	06/05/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/05/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

8075611
ID: PFC_ST_04657
Exp:06/05/30 Prpd:WTU3 Opn:
Labeled d3-N-MeFOSAA Stock

8075614
ID: PFC_ST_04658
Exp:06/05/30 Prpd:WTU3 Opn:
Labeled d3-N-MeFOSAA Stock

8075615
ID: PFC_ST_04659
Exp:06/05/30 Prpd:WTU3 Opn:
Labeled d3-N-MeFOSAA Stock

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
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ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester

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Certified By _____ **Date** 06/09/2025 (mm/dd/yyyy)

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EXPIRY DATE / PERIOD OF VALIDITY.

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

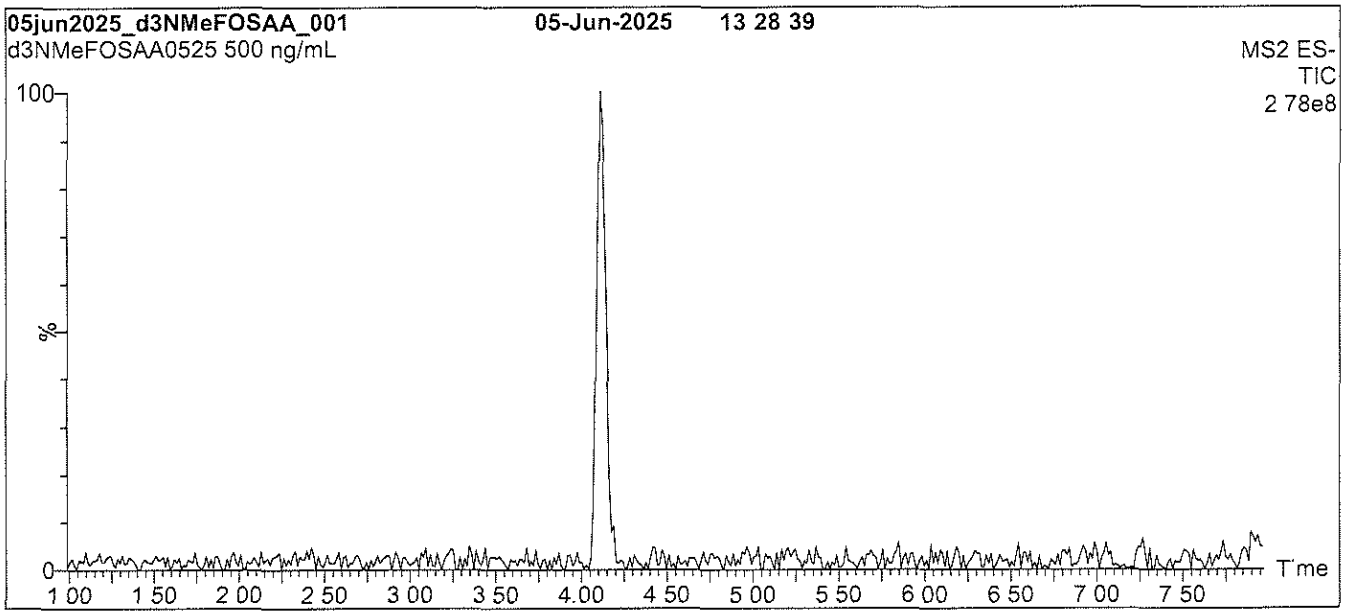
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB AR 1523)

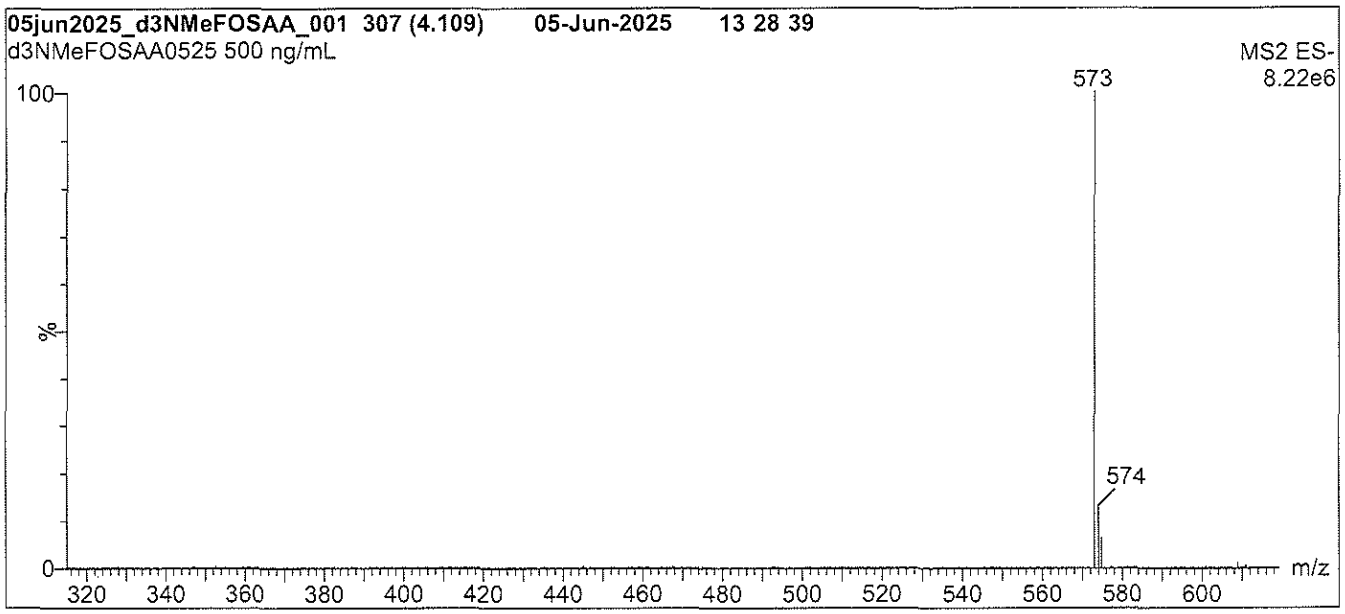
CALA
Ac reditation No. A 226

ANAB
ANSI Nat onal Accreditation Board
ACCRED TED
ISO 17034
REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **d3-N-MeFOSAA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

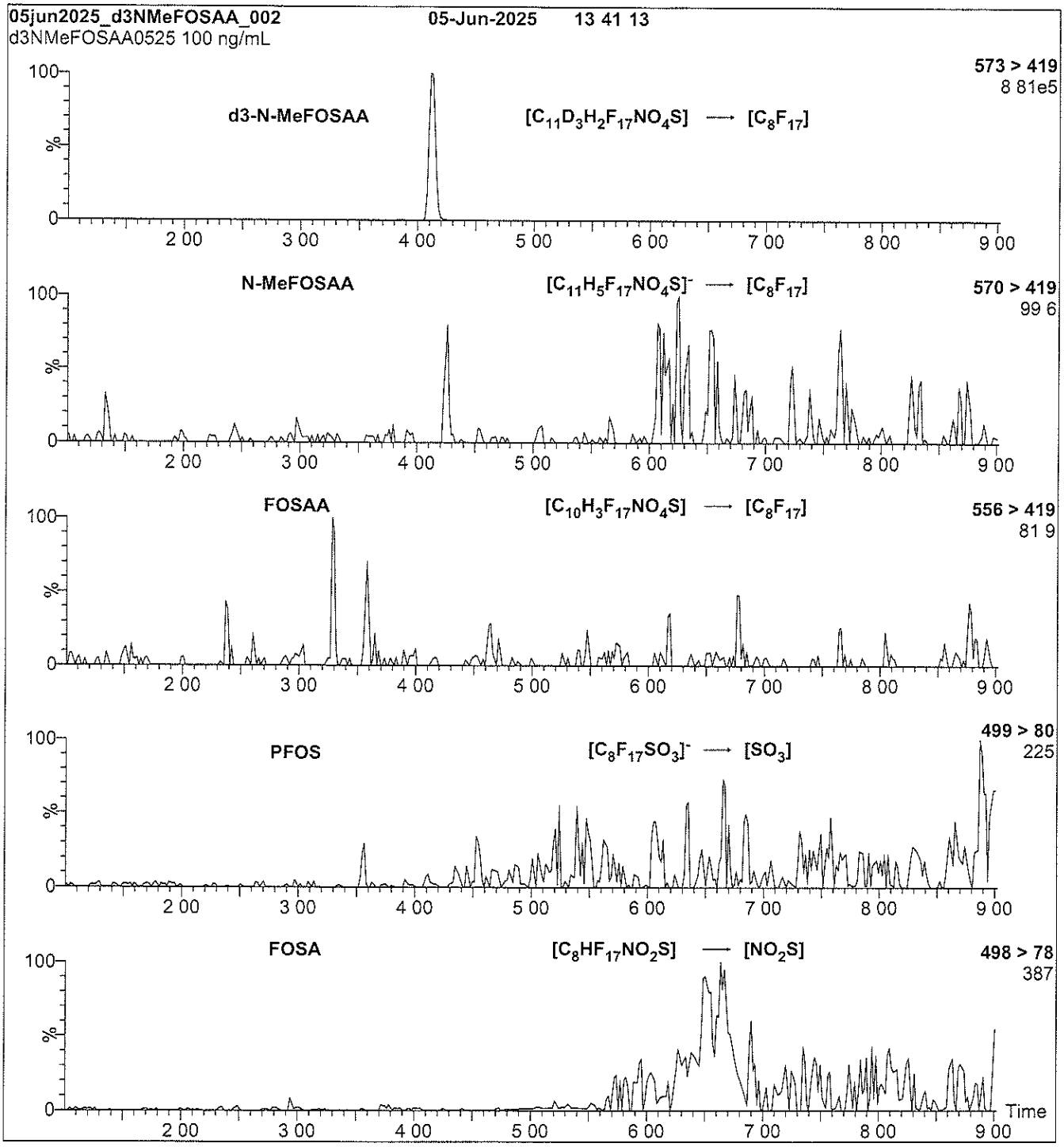
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start. 40% H_2O / 60% (80 20 MeOH.ACN) (both with 10 mM NH OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before return ng to nitial conditions in 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **d3-N-MeFOSAA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (d3-N-MeFOSAA)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.76e-3
Collision Energy (eV) = 18

Reagent

PFC_ST_04729

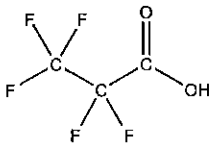
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-04728, 04729, 04730

PRODUCT CODE: PFPrA
COMPOUND: Perfluoropropanoic acid
LOT NUMBER: PFPrA0825

STRUCTURE:
CAS #: 422-64-0



MOLECULAR FORMULA: $C_3HF_5O_2$
MOLECULAR WEIGHT: 164.03
CONCENTRATION: 50.0 ± 2.5 µg/mL
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 08/08/2025
EXPIRY DATE: (mm/dd/yyyy) 08/08/2030
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan Extracted Chromatogram and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 08/08/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

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QUALITY MANAGEMENT:

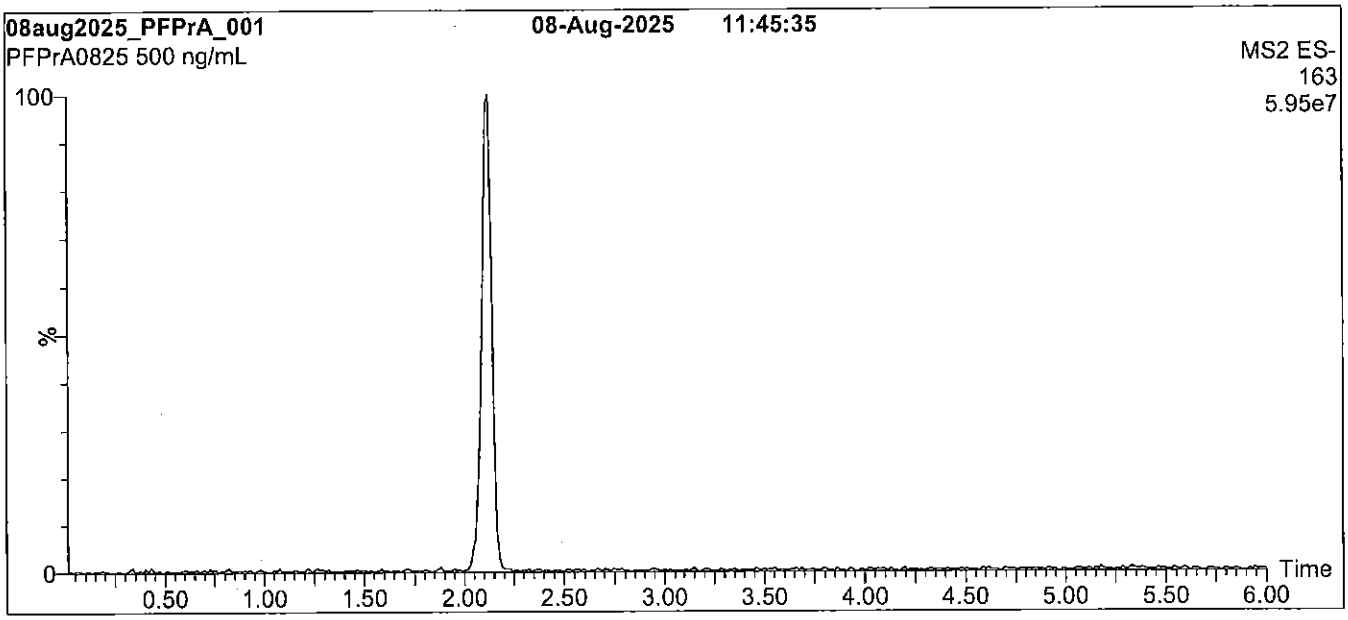
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

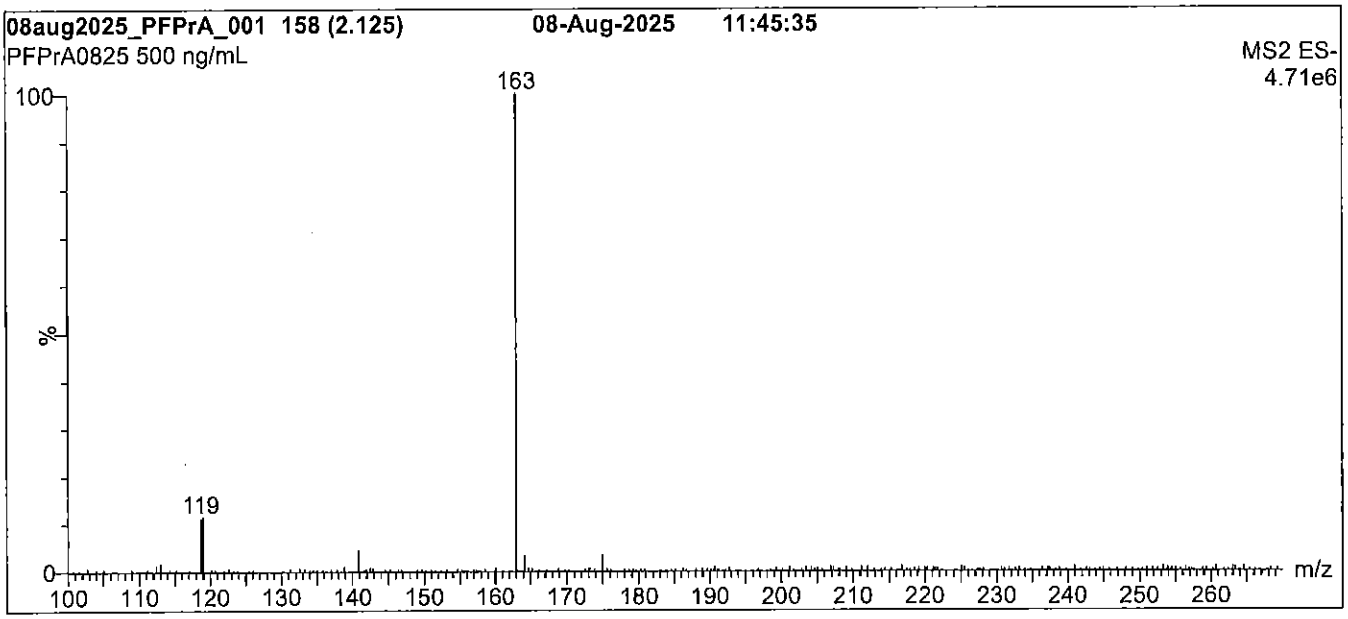
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **PFPrA; LC/MS Data (Full Scan Extracted Chromatogram and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Restek Raptor Polar X
2.7 µm, 2.1 x 50 mm

Mobile phase: Gradient
Start: 50% H_2O (with 10 mM NH_4COOH buffer)
50% (60:40 ACN:MeOH)
(both with 0.05% formic acid)
Ramp to 90% organic over 7 min and hold for 1 min before returning to initial conditions in 0.5 min.
Time: 10 min

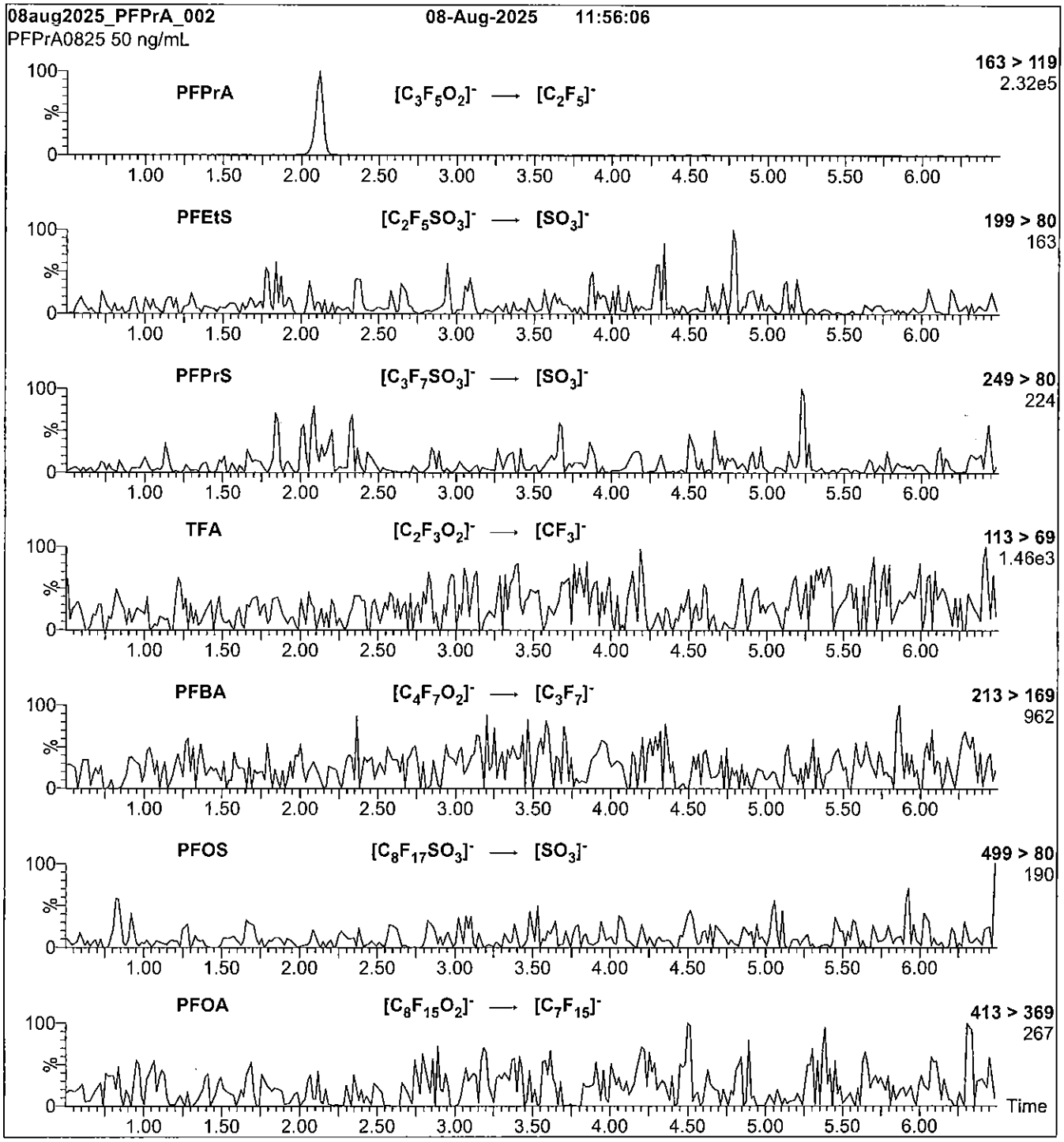
Flow: 400 µL/min

MS Parameters:

Experiment: Full Scan (100 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **PFPrA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFPrA)

Mobile phase: Same as Figure 1

Flow: 400 µL/min

MS Parameters:

Collision Gas (mbar) = 3.65e-3
Collision Energy (eV) = 8

Reagent

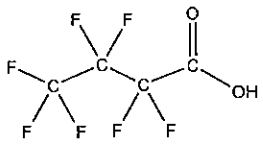
PFC_ST_04767

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-047164, 047166, 047167

PRODUCT CODE:	PFBA	**LOT NUMBER:**	PFBA0625
COMPOUND:	Perfluoro-n-butanoic acid		
STRUCTURE:		**CAS #:**	375-22-4



MOLECULAR FORMULA:	$C_4HF_7O_2$	**MOLECULAR WEIGHT:**	214.04
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	06/11/2025		
EXPIRY DATE: (mm/dd/yyyy)	06/11/2030		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 08/01/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

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where x is expressed as a relative standard uncertainty of the individual parameter.

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LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

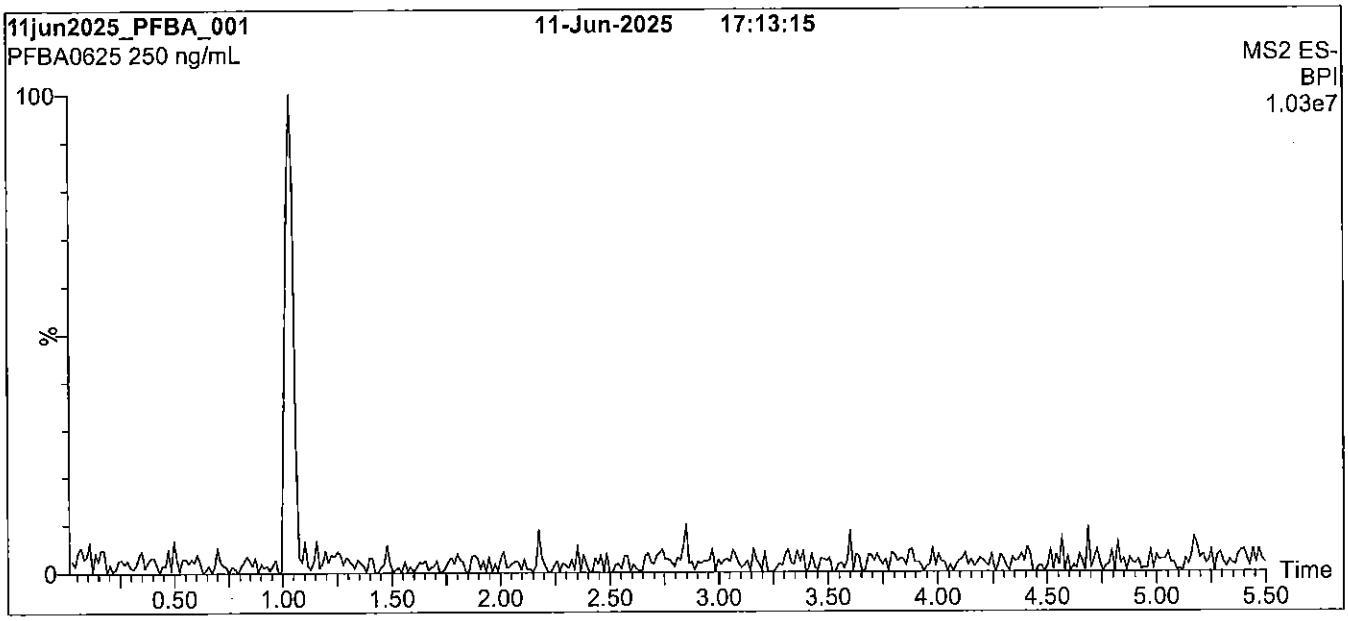
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

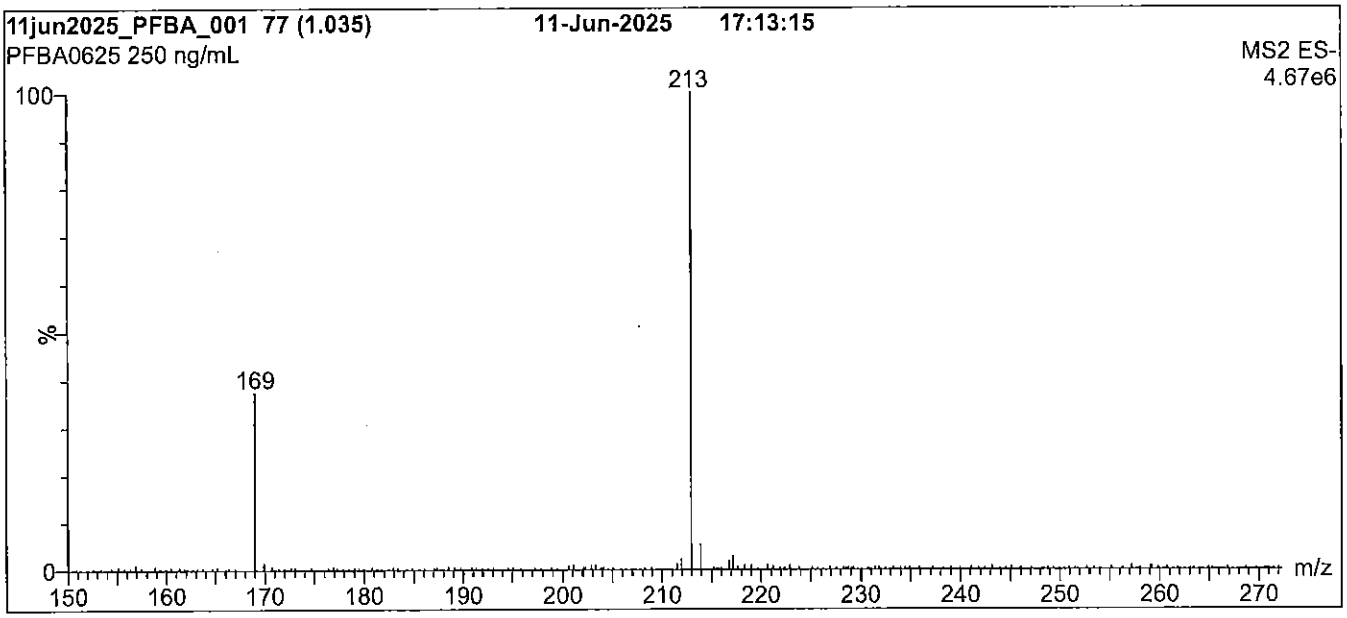
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **PFBA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

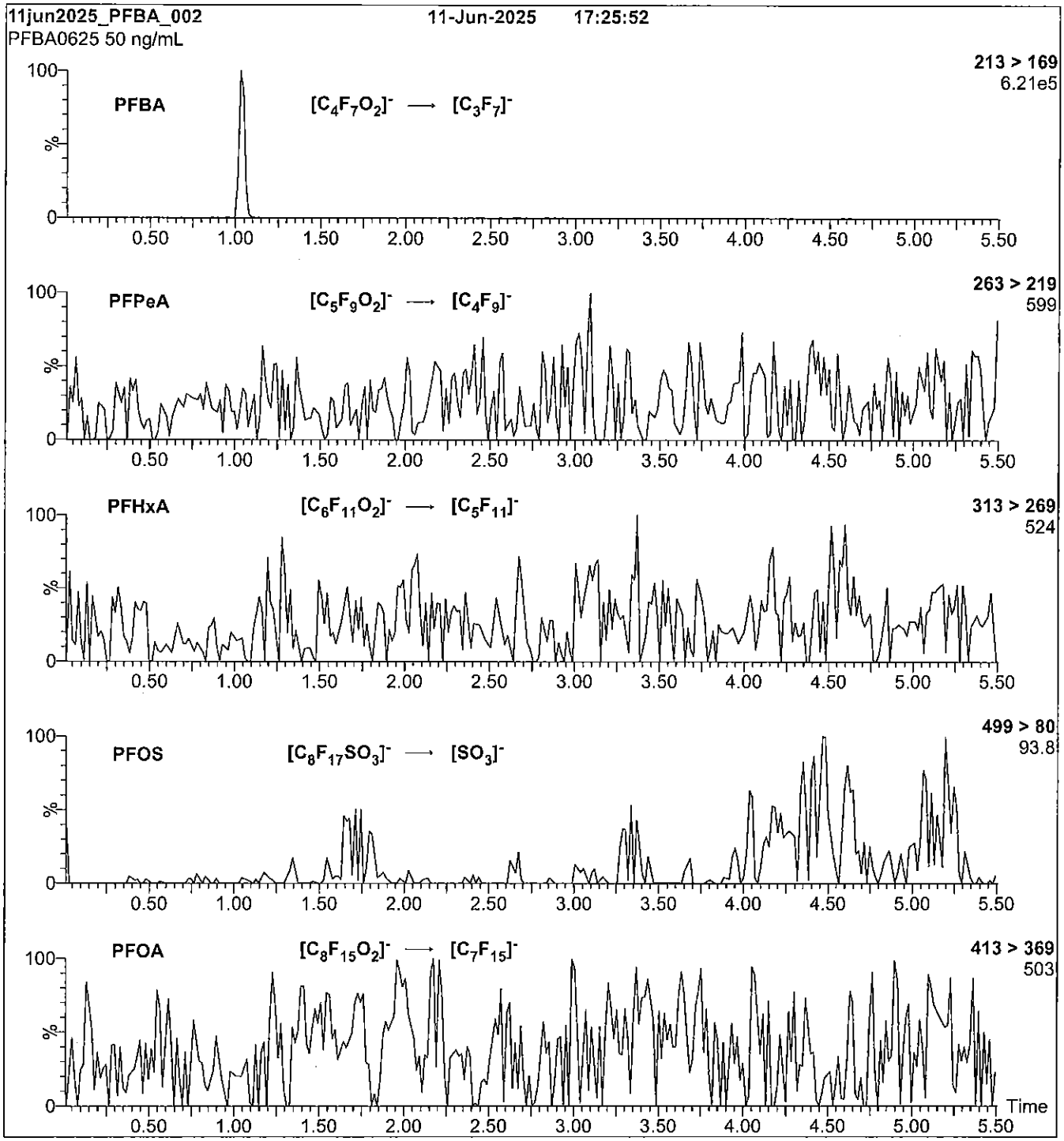
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **PFBA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFBA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.06e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_04769

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

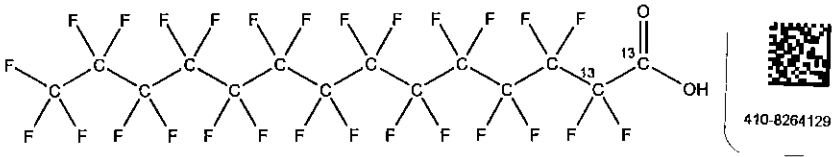
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ID: PFC_ST_04769
Exp:06/05/30 Prpd:DSU6 Opn:
Labeled 13C2 PFTeDA Stock

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ID: PFC_ST_04771
Exp:06/05/30 Prpd:DSU6 Opn:
Labeled 13C2 PFTeDA Stock

8264138
ID: PFC_ST_04772
Exp:06/05/30 Prpd:DSU6 Opn:
Labeled 13C2 PFTeDA Stock

8264139
ID: PFC_ST_04773
Exp:06/05/30 Prpd:DSU6 Opn:
Labeled 13C2 PFTeDA Stock

PRODUCT CODE.	M2PFTeDA	**LOT NUMBER.**	M2PFTeDA0525
COMPOUND.	Perfluoro-n-(1 2 $^{13}C_2$)tetradecanoic acid		
STRUCTURE.		**CAS #.**	2708218-82-8



410-8264129

MOLECULAR FORMULA.	$^{3}C_2{}^{12}C_{12}HF_{27}O_2$	**MOLECULAR WEIGHT:**	716 10
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	06/05/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/05/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

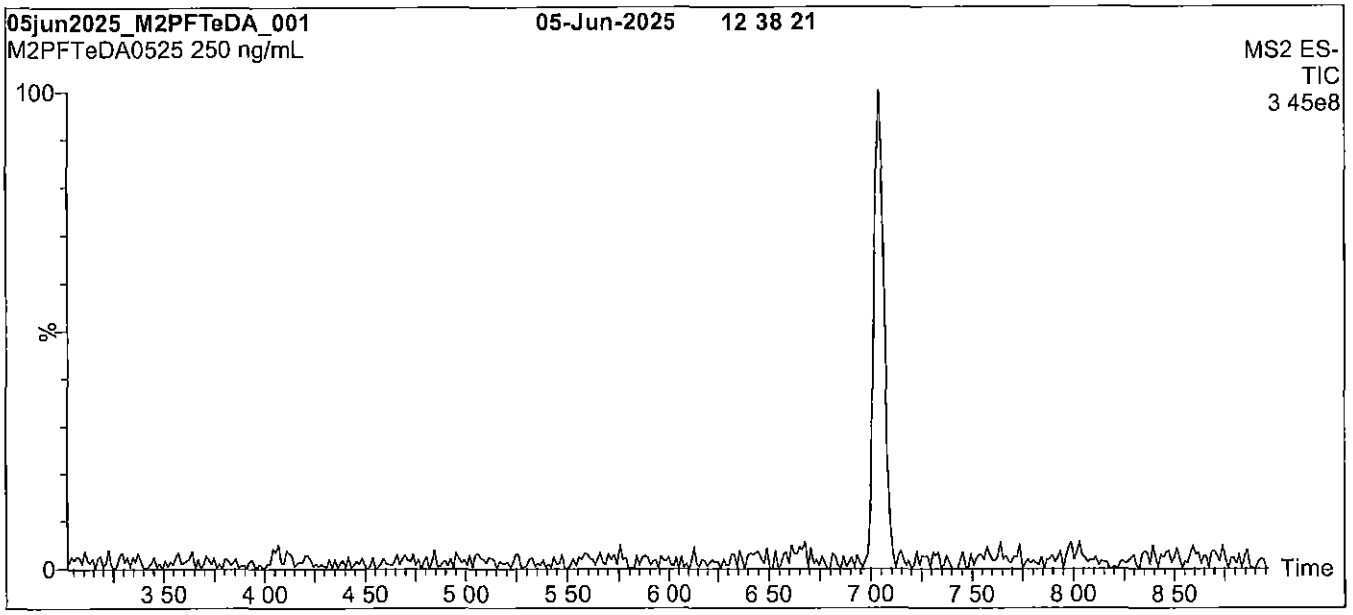
- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

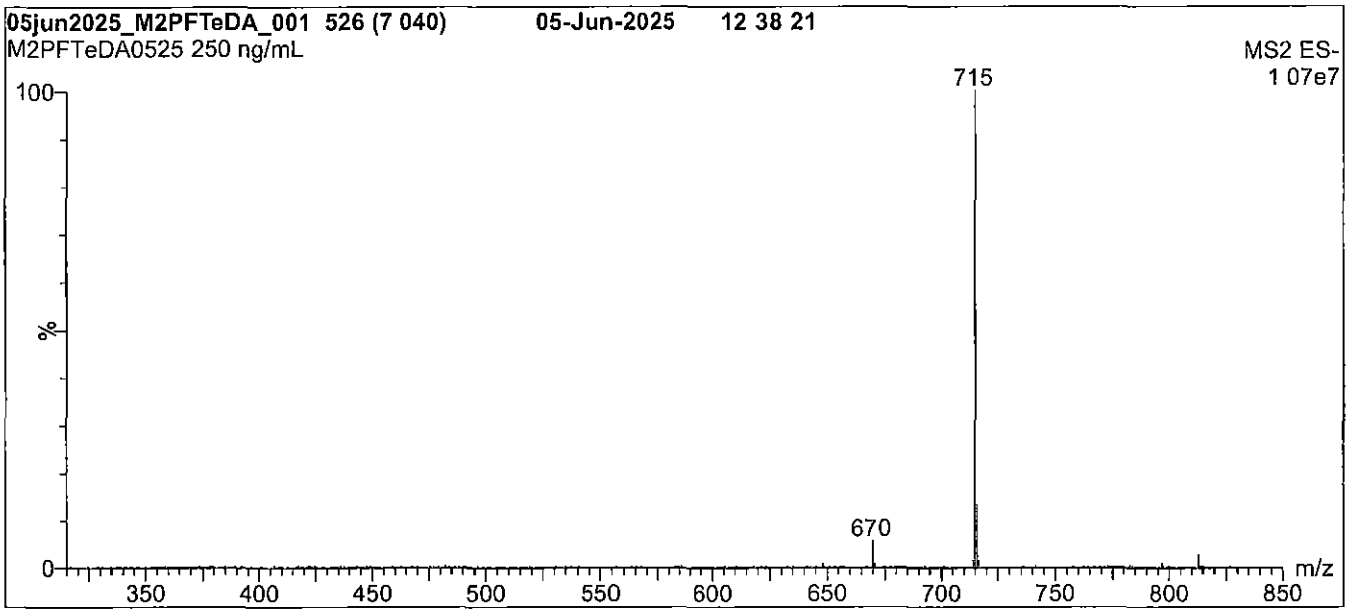
FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 06/06/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc , 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs com

Figure 1. **M2PFTeDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80 20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Reagent

PFC_ST_04774

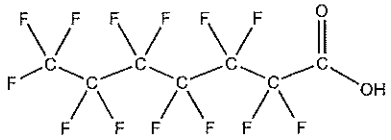
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-DH768, 4770, 4774

PRODUCT CODE: PFHpA
COMPOUND: Perfluoro-n-heptanoic acid
LOT NUMBER: PFHpA1124

STRUCTURE:
CAS #: 375-85-9



MOLECULAR FORMULA: $C_7HF_{13}O_2$
MOLECULAR WEIGHT: 364.06
CONCENTRATION: 50.0 ± 2.5 µg/mL
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 11/21/2024
EXPIRY DATE: (mm/dd/yyyy) 11/21/2029
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 12/10/2024 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

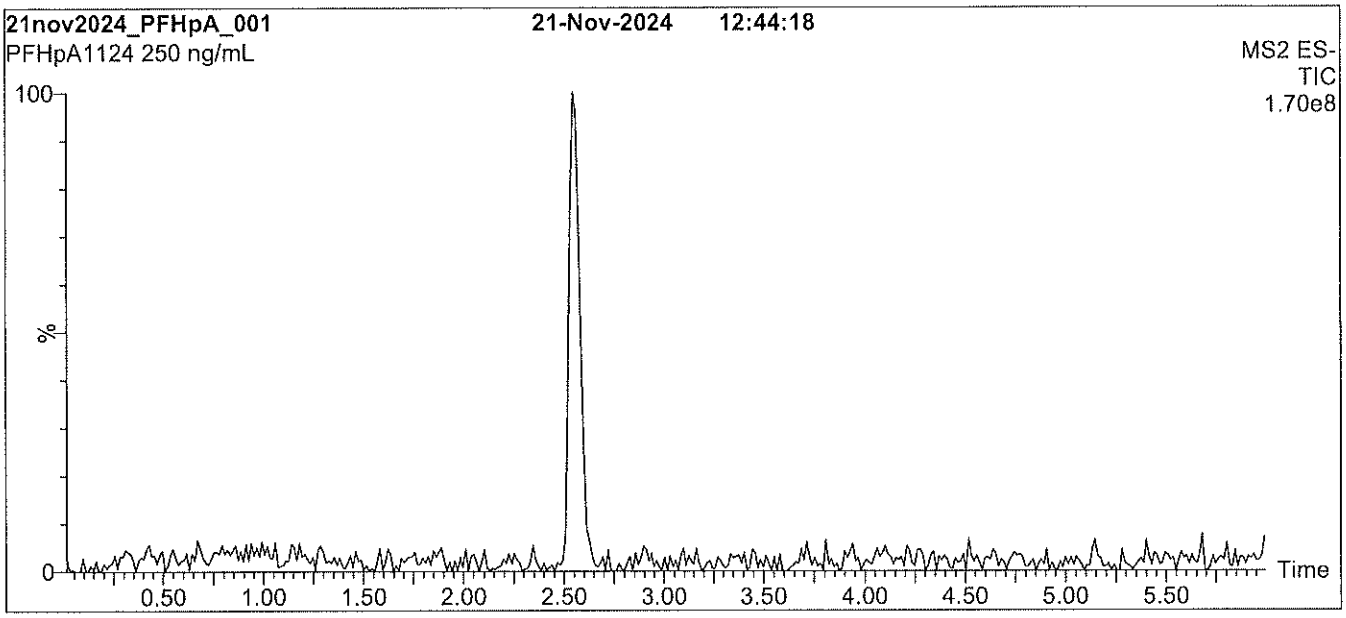
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

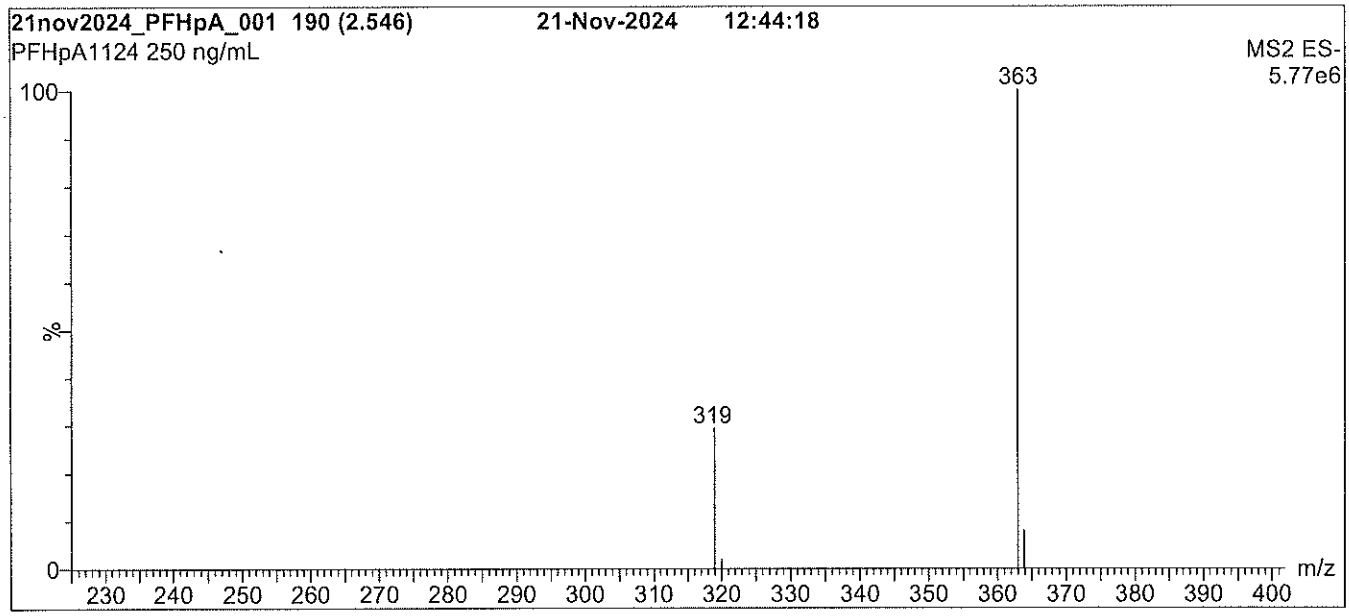
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **PFHpA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

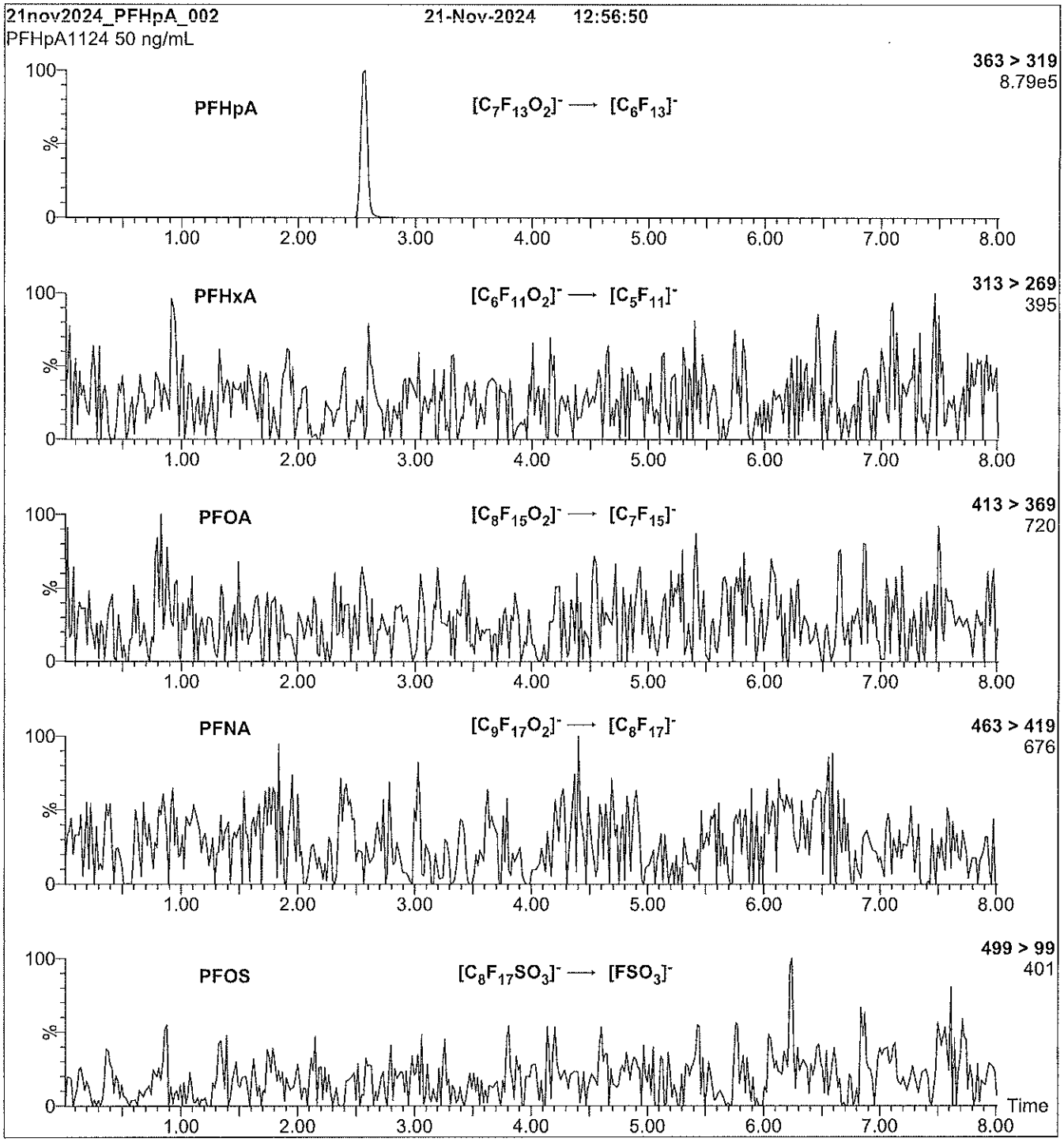
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: PFHpA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (PFHpA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 6,40e-3
Collision Energy (eV) = 8

Reagent

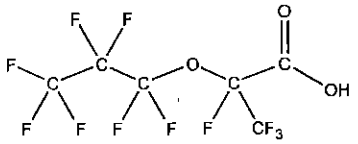
PFC_ST_04793

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PFC_ST_04790, 4791, 4792, 4793

PRODUCT CODE:	HFPO-DA	**LOT NUMBER:**	HFPODA0425
COMPOUND:	Hexafluoropropylene oxide dimer acid		
IUPAC NAME:	*rac*-2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid		
STRUCTURE:		**CAS #:**	13252-13-6



MOLECULAR FORMULA:	$C_6HF_{11}O_3$	**MOLECULAR WEIGHT:**	330.05
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	04/25/2025		
EXPIRY DATE: (mm/dd/yyyy)	04/25/2029		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- This compound is commercially known as GenX.
- HFPO-DA is a mixture of two stereoisomers (a pair of enantiomers) that coelute using the provided conditions.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 04/29/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

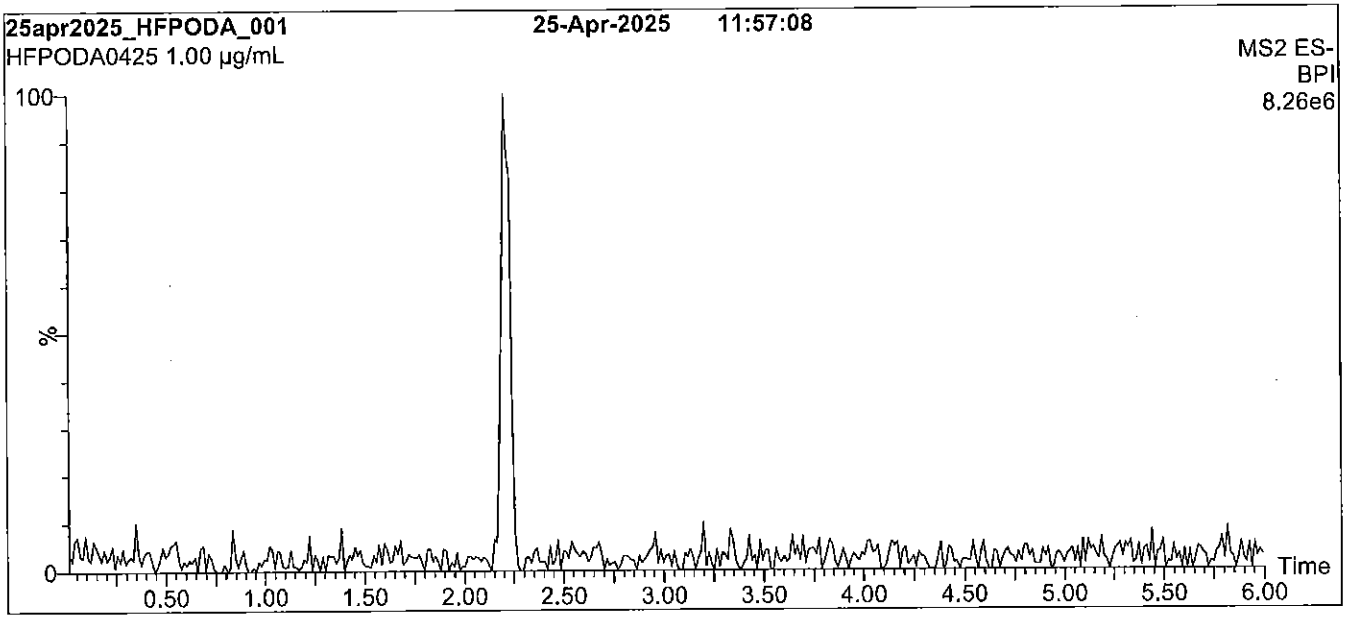
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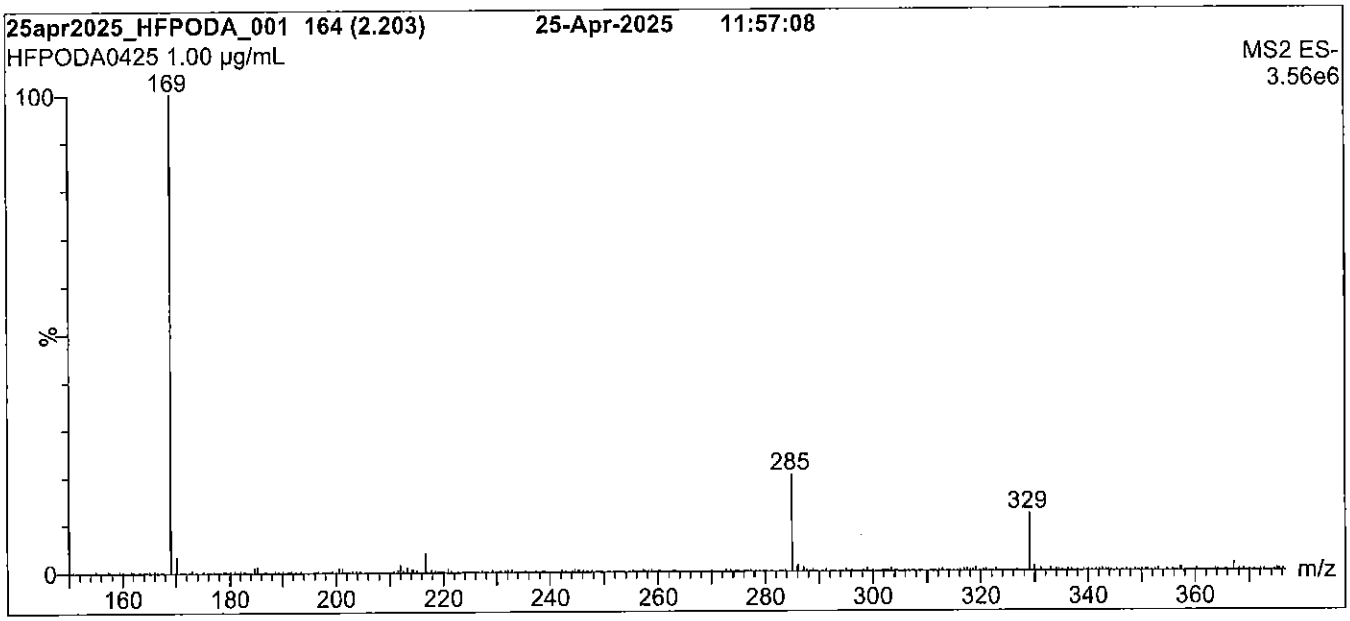
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **HFPO-DA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

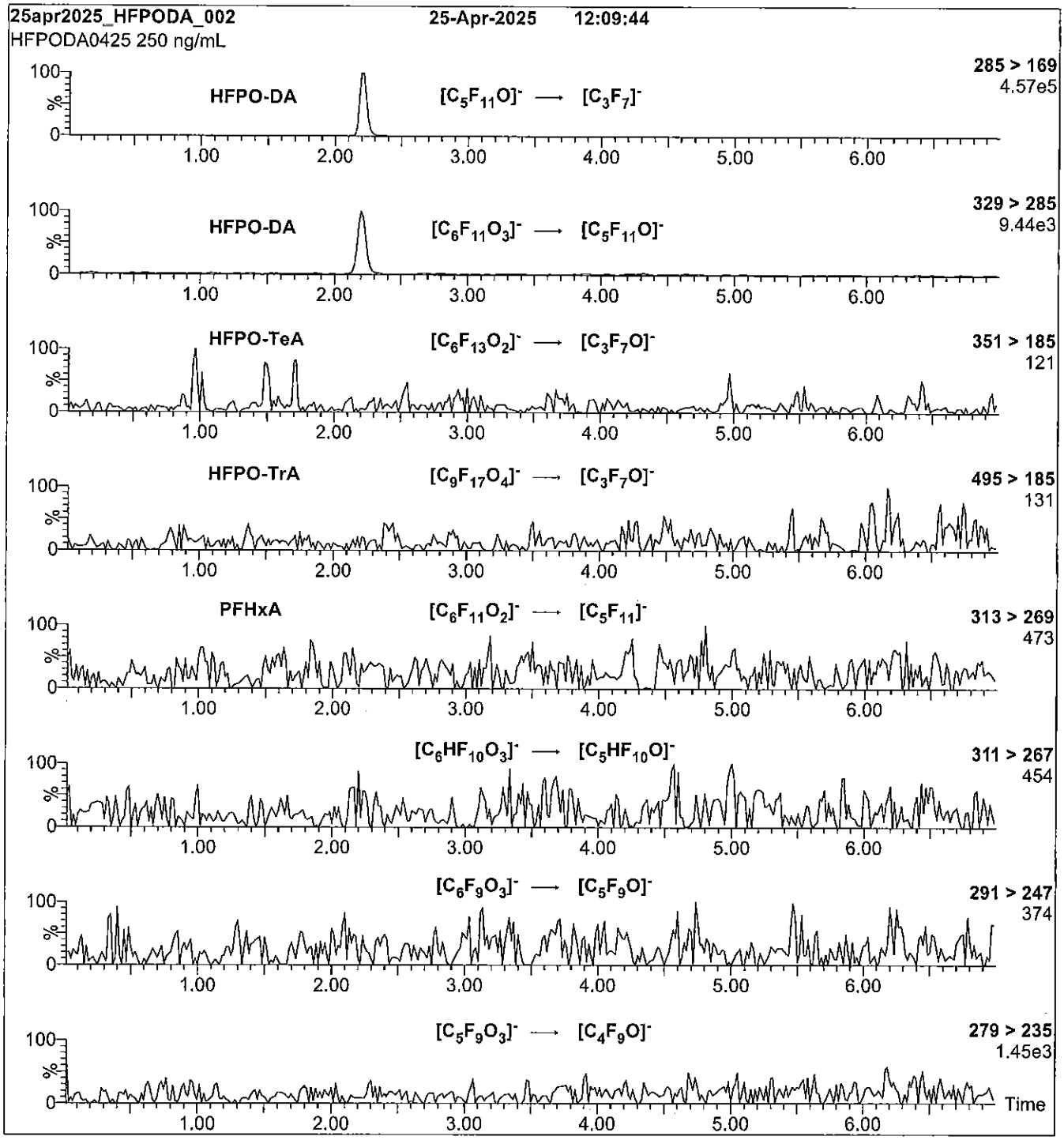
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (HFPO-DA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.19e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_04801

br-NEtFOSE

2-(N-Ethylperfluorooctanesulfonamido)ethanol
Solution/Mixture of Linear and
Branched Isomers

PRODUCT CODE:	br-NEtFOSE
LOT NUMBER:	brNEtFOSE0225
CONCENTRATION:	50.0 ± 2.5 µg/mL
SOLVENT(S):	Methanol
DATE PREPARED: (mm/dd/yyyy)	02/20/2025
LAST TESTED: (mm/dd/yyyy)	03/13/2025 (HRGC/LRMS)
	02/21/2025 (LC/MS)
EXPIRY DATE: (mm/dd/yyyy)	03/13/2030
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

The chemical purity has been determined to be ≥98% 2-(N-ethylperfluorooctanesulfonamido)ethanol linear and branched isomers. The full name, structure, and percent composition for each of the isomeric components are given in Table A.

DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by ^{19}F-NMR
Figure 1: HRGC/LRMS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS Data (Full Scan and Mass Spectrum)
Figure 3: LC/MS Data (SIR)
Figure 4: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- CAS #: 1691-99-2 (for linear isomer).
- It is recommended to integrate and quantify the linear and branched isomers separately as their response factors can vary depending on optimized acquisition parameters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

INTENDED USE:

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UNCERTAINTY:

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where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **br-NEtFOSE; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

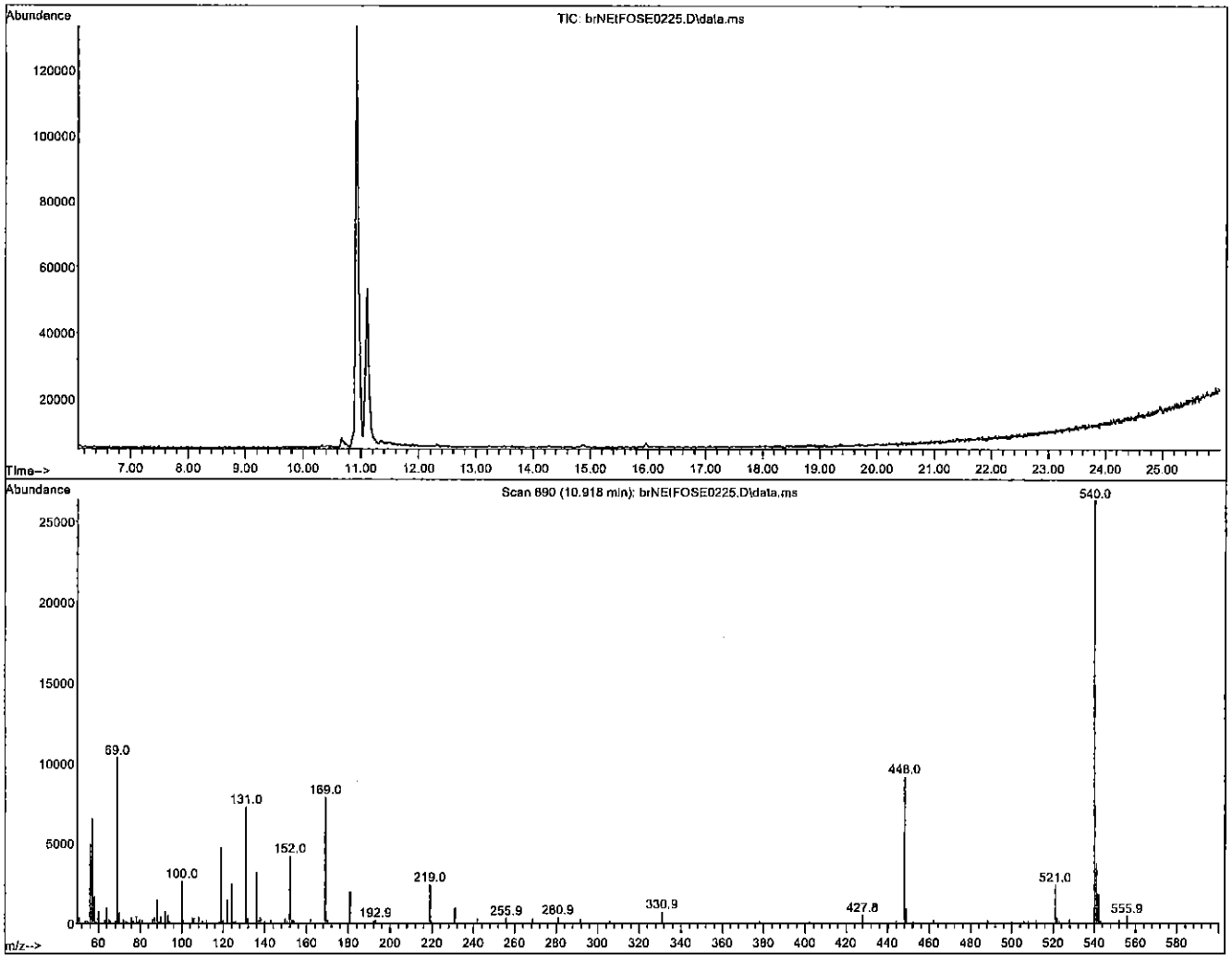
Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR
1	2-(N-Ethylperfluoro-1-octanesulfonamido)ethanol	$CF_3(CF_2)_7SO_2N(CH_2CH_3)CH_2CH_2OH$	64.6
2	2-(N-Ethylperfluoro-2-methyl-1-heptanesulfonamido)ethanol	$CF_3(CF_2)_4CF(CF_3)CF_2SO_2N(CH_2CH_3)CH_2CH_2OH$	0.2
3	2-(N-Ethylperfluoro-3-methyl-1-heptanesulfonamido)ethanol	$CF_3(CF_2)_3CF(CF_3)(CF_2)_2SO_2N(CH_2CH_3)CH_2CH_2OH$	4.1
4	2-(N-Ethylperfluoro-4-methyl-1-heptanesulfonamido)ethanol	$CF_3(CF_2)_2CF(CF_3)(CF_2)_3SO_2N(CH_2CH_3)CH_2CH_2OH$	4.3
5	2-(N-Ethylperfluoro-5-methyl-1-heptanesulfonamido)ethanol	$CF_3CF_2CF(CF_3)(CF_2)_4SO_2N(CH_2CH_3)CH_2CH_2OH$	8.8
6	2-(N-Ethylperfluoro-6-methyl-1-heptanesulfonamido)ethanol	$CF_3CF(CF_3)(CF_2)_5SO_2N(CH_2CH_3)CH_2CH_2OH$	17.8
7	2-(N-Ethylperfluoro-5,5-dimethyl-1-hexanesulfonamido)ethanol	$CF_3C(CF_3)_2(CF_2)_4SO_2N(CH_2CH_3)CH_2CH_2OH$	0.3

* Percent of total 2-(N-ethylperfluorooctanesulfonamido)ethanol isomers only. Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages.

Certified By: _____ **Date:** 04/04/2025
(mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: **br-NEtFOSE; HRGC/LRMS Data (Full Scan and Mass Spectrum)**



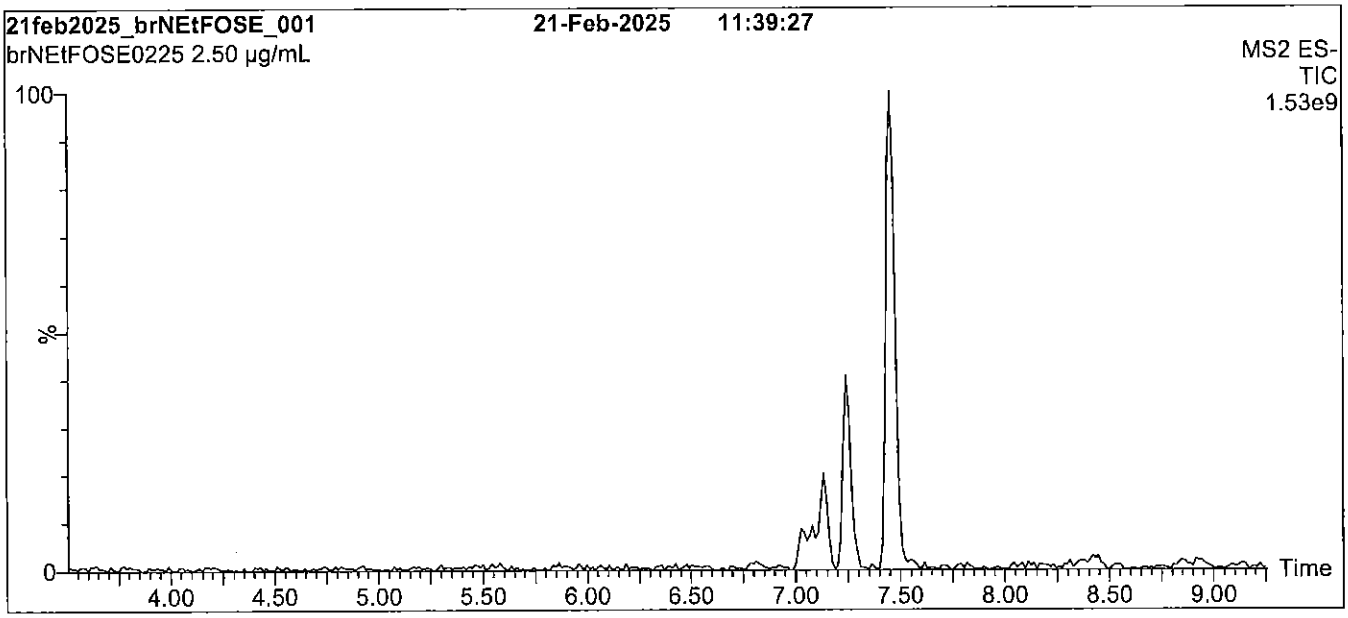
Conditions for Figure 1:

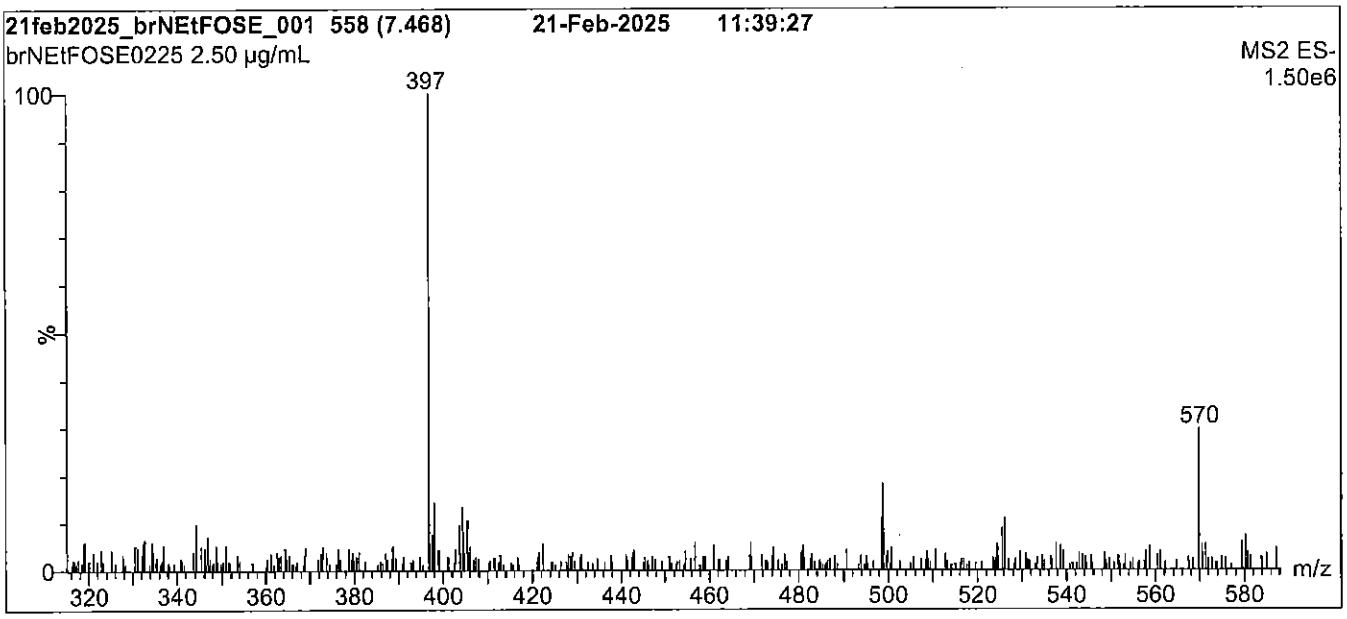
Agilent 7890A HRGC
Agilent 5975C MSD

Chromatographic Conditions:

Column:	30 m HP-5MS UI (0.25 mm id, 0.25 µm film thickness) Agilent J&W
Flow:	Constant at 1.0 mL/min
Injector:	250°C (Splitless Injection)
Oven:	100°C (5 min) 10°C/min to 310°C 310°C (10 min)
Ionization:	EI+
Detector:	230°C Full Scan (50-1000 amu)

Figure 2: **br-NEtFOSE; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 2:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% MeOH
Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min.
Time: 12 min

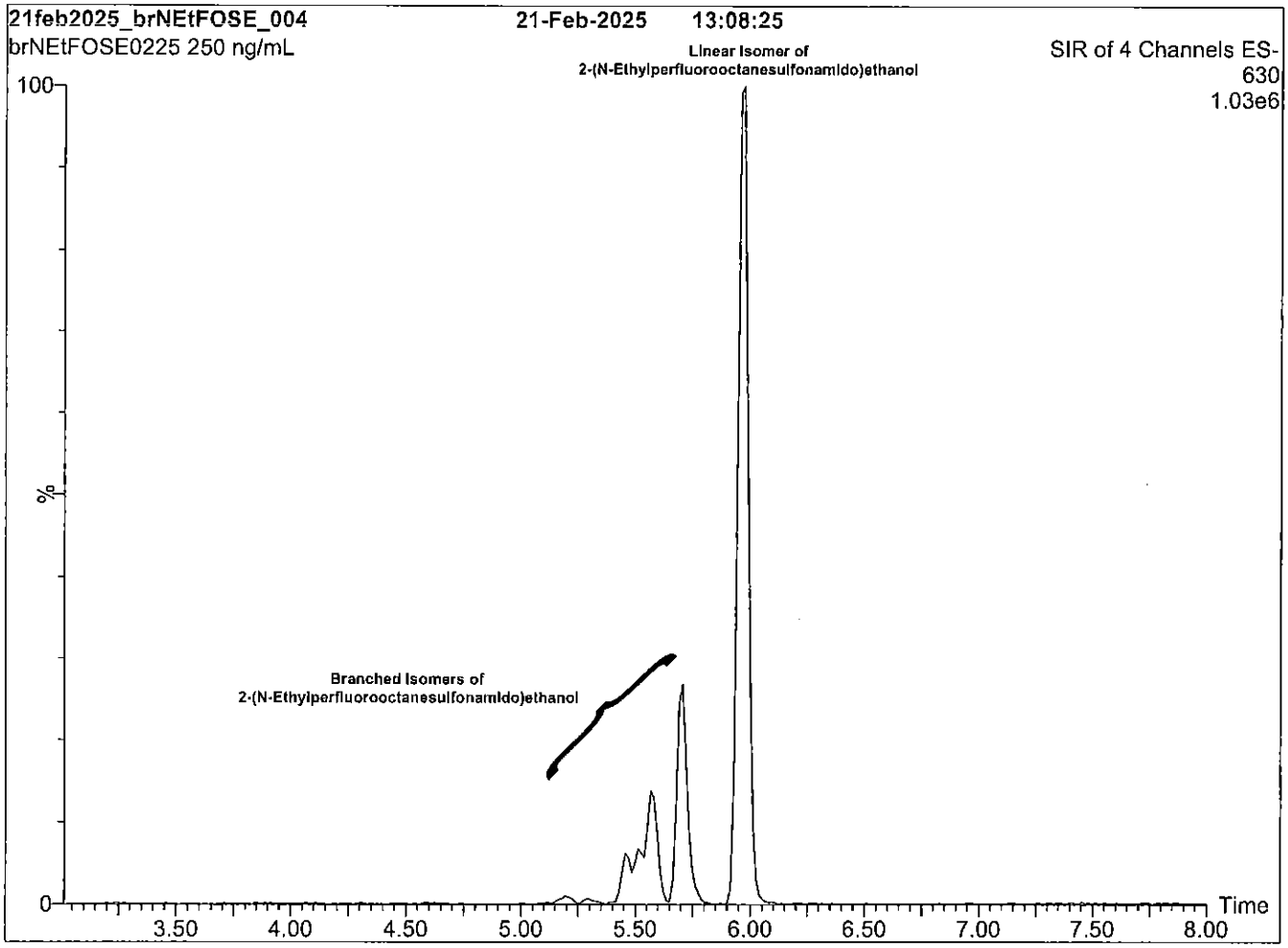
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 3: **br-NEtFOSE; LC/MS Data (SIR)**



Conditions for Figure 3:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

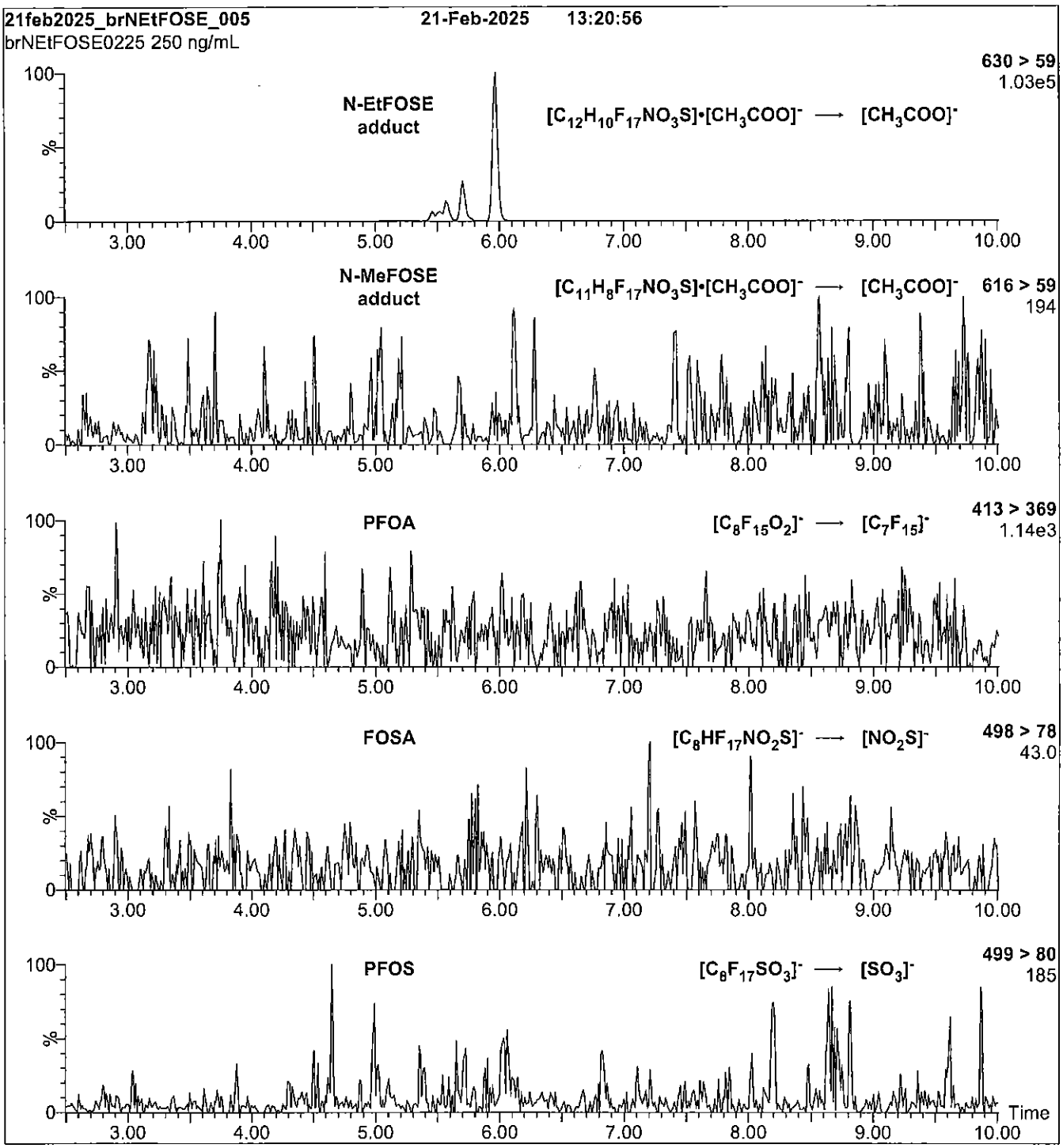
Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (15-20)
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 4: br-NEtFOSE; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 4:

Injection: On-column (br-NEtFOSE)

Mobile phase: Same as Figure 3

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.34e-3
Collision Energy (eV) = 12

Reagent

PFC_ST_04804

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PFC-ST-04802, 4803, 4804

br-PFNA

Perfluorononanoic Acid Solution/Mixture of Linear and Branched Isomers

PRODUCT CODE:	br-PFNA
LOT NUMBER:	brPFNA0724
CONCENTRATION:	50.0 ± 2.5 µg/mL
SOLVENT(S):	Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	07/15/2024
LAST TESTED: (mm/dd/yyyy)	07/17/2024
EXPIRY DATE: (mm/dd/yyyy)	07/17/2029
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

The chemical purity has been determined to be ≥98% perfluorononanoic acid linear and branched isomers. The full name, structure, and percent composition for each of the isomeric components are given in Table A.

DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by ^{19}F-NMR
Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS Data (SIR)
Figure 3: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- It is recommended to integrate and quantify the linear and branched isomers separately as their response factors can vary depending on optimized acquisition parameters.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.
- Contains ~0.4% of perfluoro-n-octanoic acid (PFOA).
- CAS#: 375-95-1 (for linear isomer).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

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$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Table A: **br-PFNA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

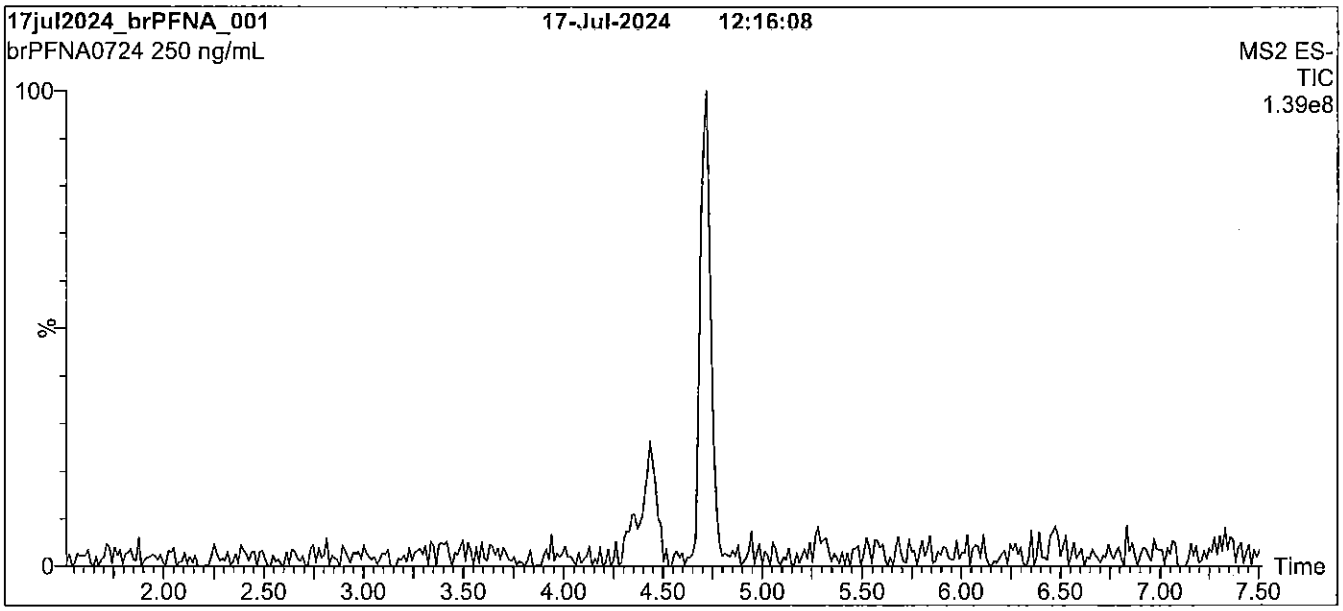
Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR
1	Perfluoro-n-nonanoic acid	$CF_3(CF_2)_7CO_2H$	65.2
2	Perfluoro-4-methyloctanoic acid	$CF_3(CF_2)_3CF(CF_3)(CF_2)_2CO_2H$	5.7
3	Perfluoro-5-methyloctanoic acid	$CF_3(CF_2)_2CF(CF_3)(CF_2)_3CO_2H$	4.9
4	Perfluoro-6-methyloctanoic acid	$CF_3CF_2CF(CF_3)(CF_2)_4CO_2H$	8.1
5	Perfluoro-7-methyloctanoic acid	$CF_3CF(CF_3)(CF_2)_5CO_2H$	14.6
6	Perfluoro-6,6-dimethylheptanoic acid	$CF_3C(CF_3)_2(CF_2)_4CO_2H$	0.4
7	Unknown Double Branched Isomers		1.0

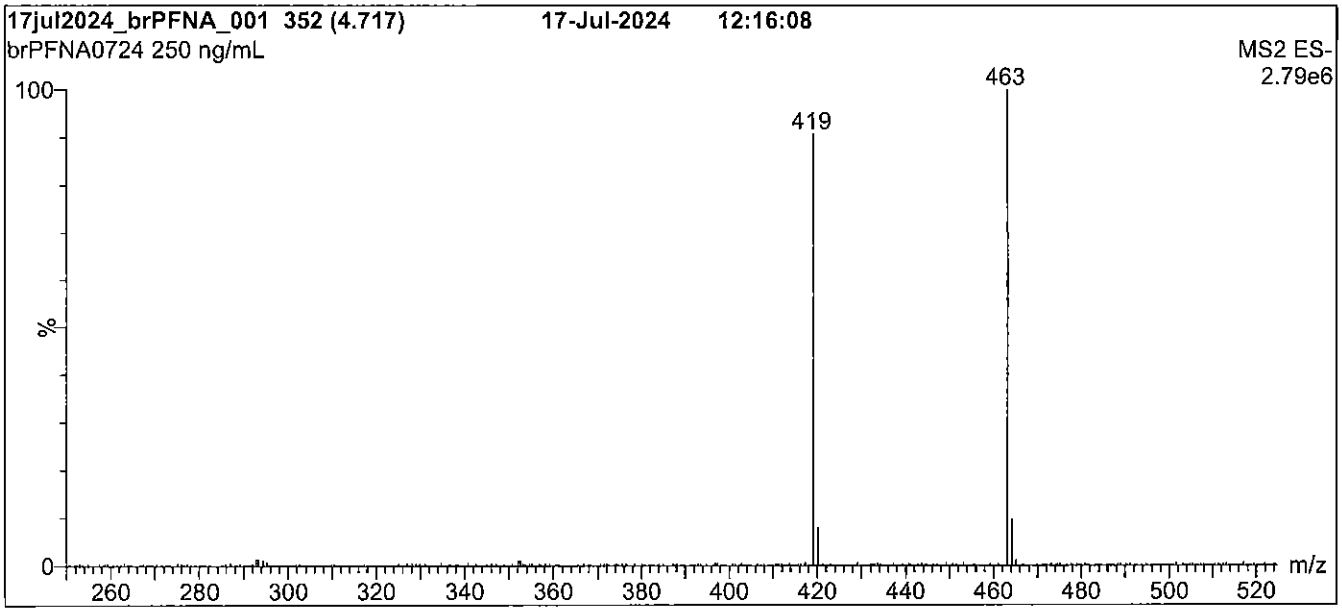
* Percent of total perfluorononanoic acid isomers only.

Certified By: _____ **Date:** 07/19/2024
(mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: br-PFNA; LC/MS Data (Full Scan and Mass Spectrum)





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

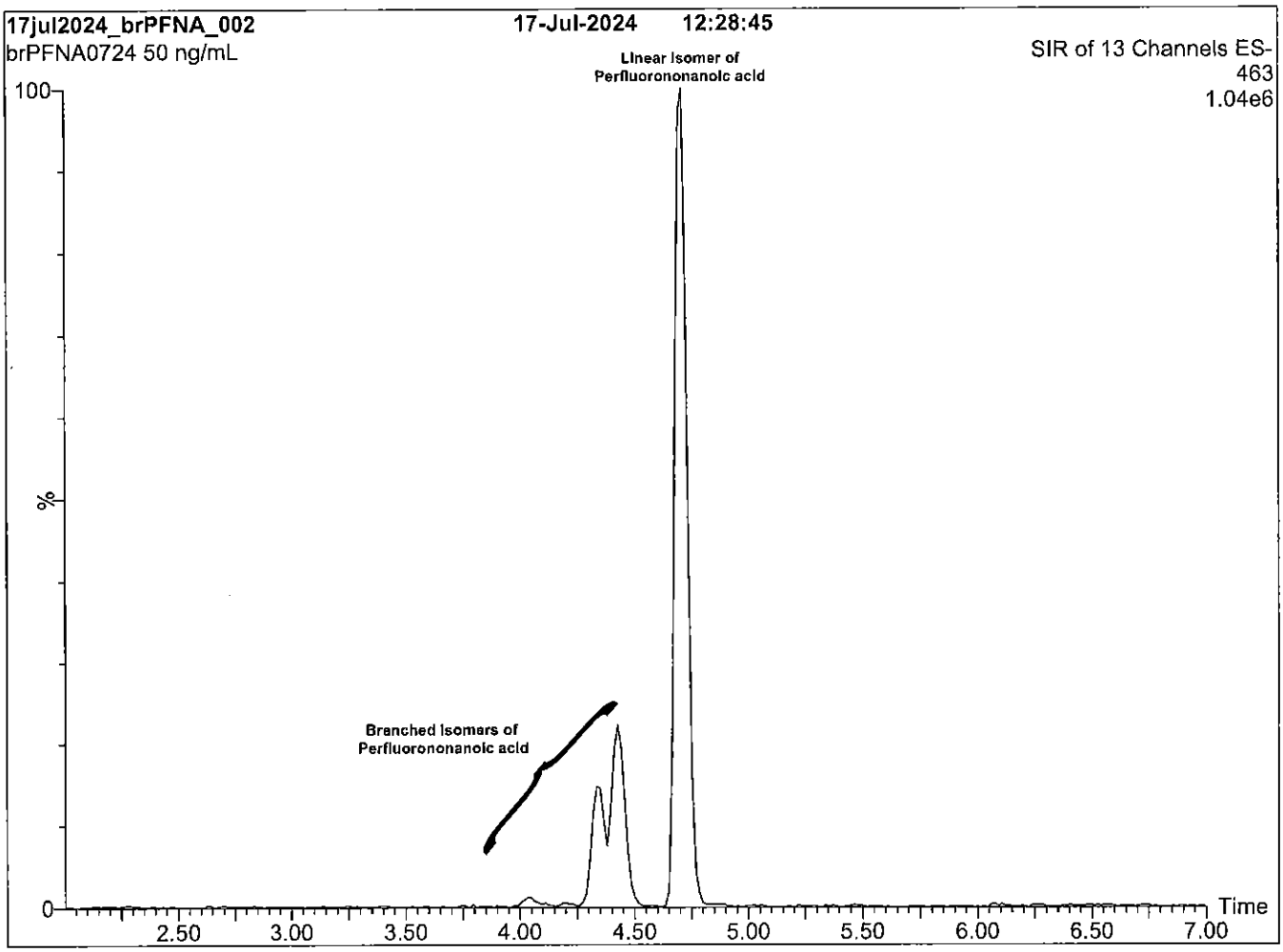
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: br-PFNA; LC/MS Data (SIR)



Conditions for Figure 2:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

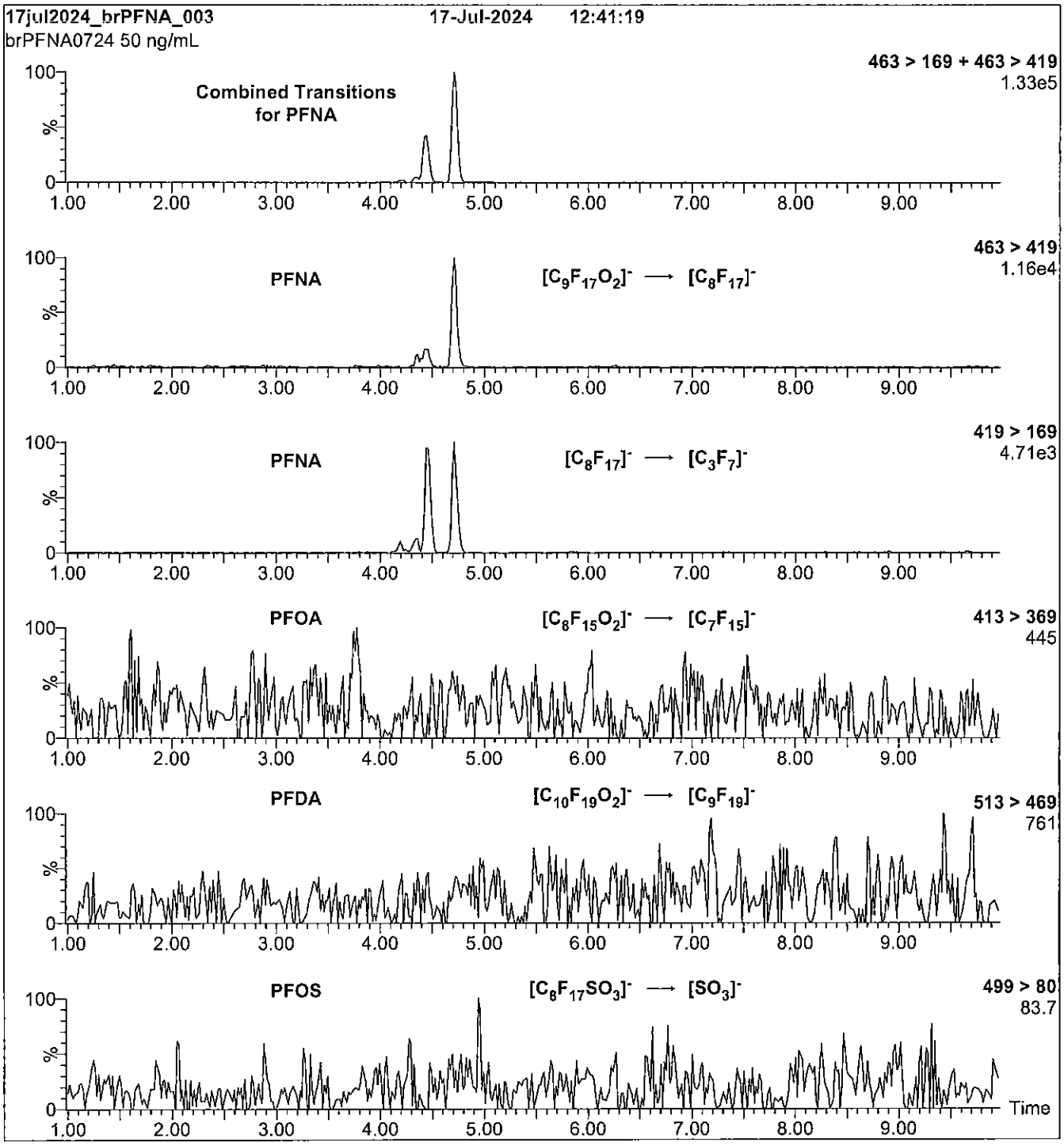
Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 3: **br-PFNA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3:

Injection: On-column (br-PFNA)

Mobile phase: Same as Figures 1 & 2

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.94e-3
Collision Energy (eV) = 20

Reagent

PFC_ST_04807

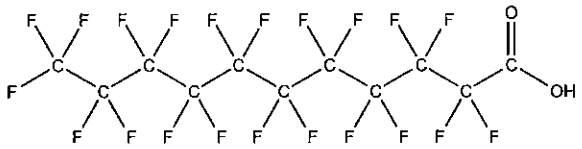
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

DFC-ST-04807, 4811

PRODUCT CODE: PFUdA
LOT NUMBER: PFUdA0425
COMPOUND: Perfluoro-n-undecanoic acid

STRUCTURE:
CAS #: 2058-94-8



MOLECULAR FORMULA: $C_{11}HF_{21}O_2$
MOLECULAR WEIGHT: 564.09
CONCENTRATION: 50.0 ± 2.5 µg/mL
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 04/09/2025
EXPIRY DATE: (mm/dd/yyyy) 04/09/2030
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 04/11/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

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HANDLING:

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SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

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UNCERTAINTY:

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where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

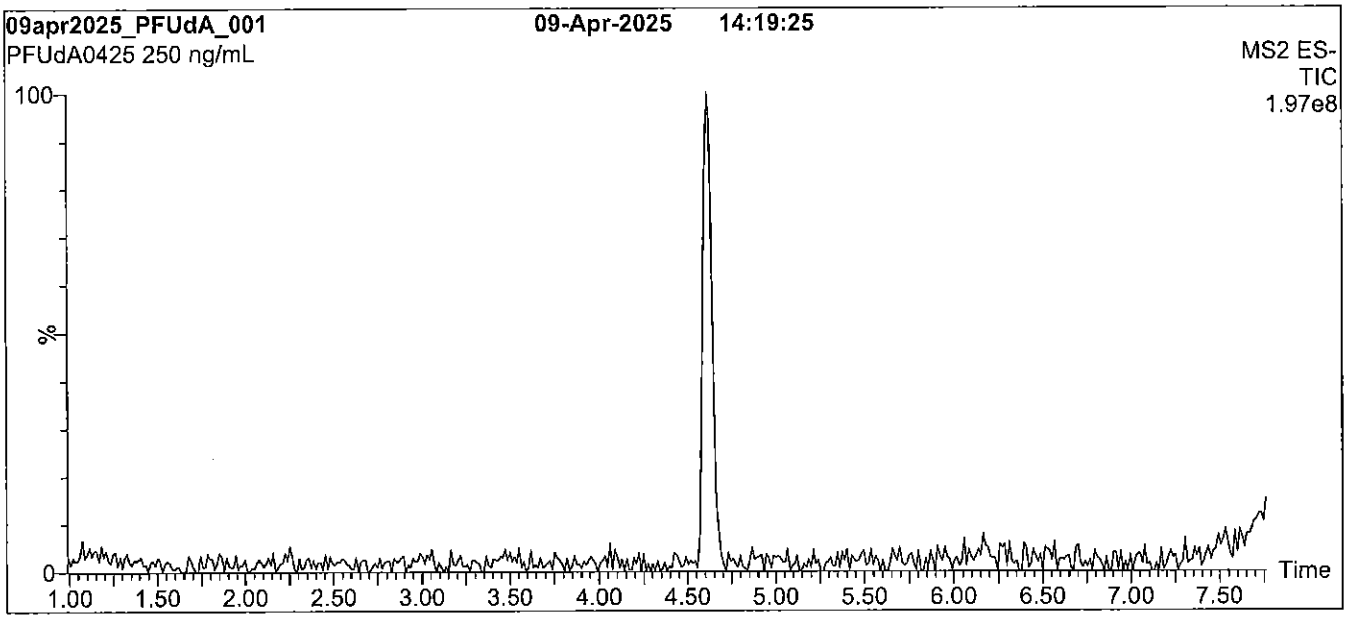
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

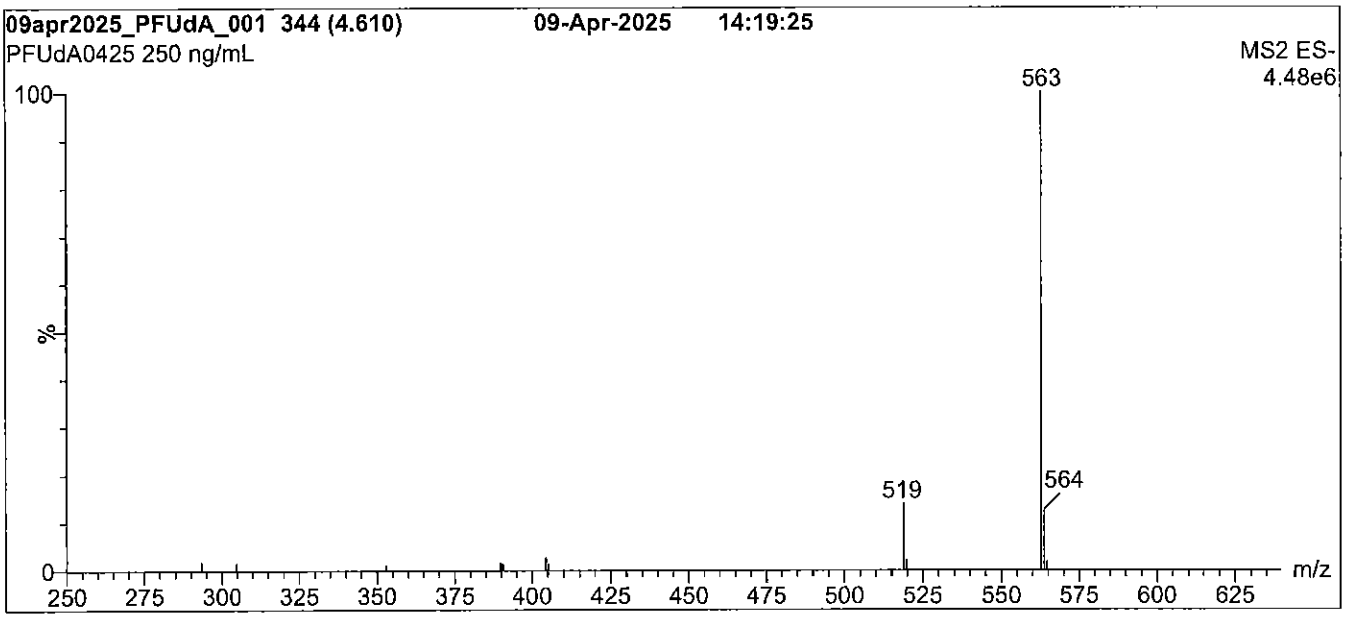
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **PFUdA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

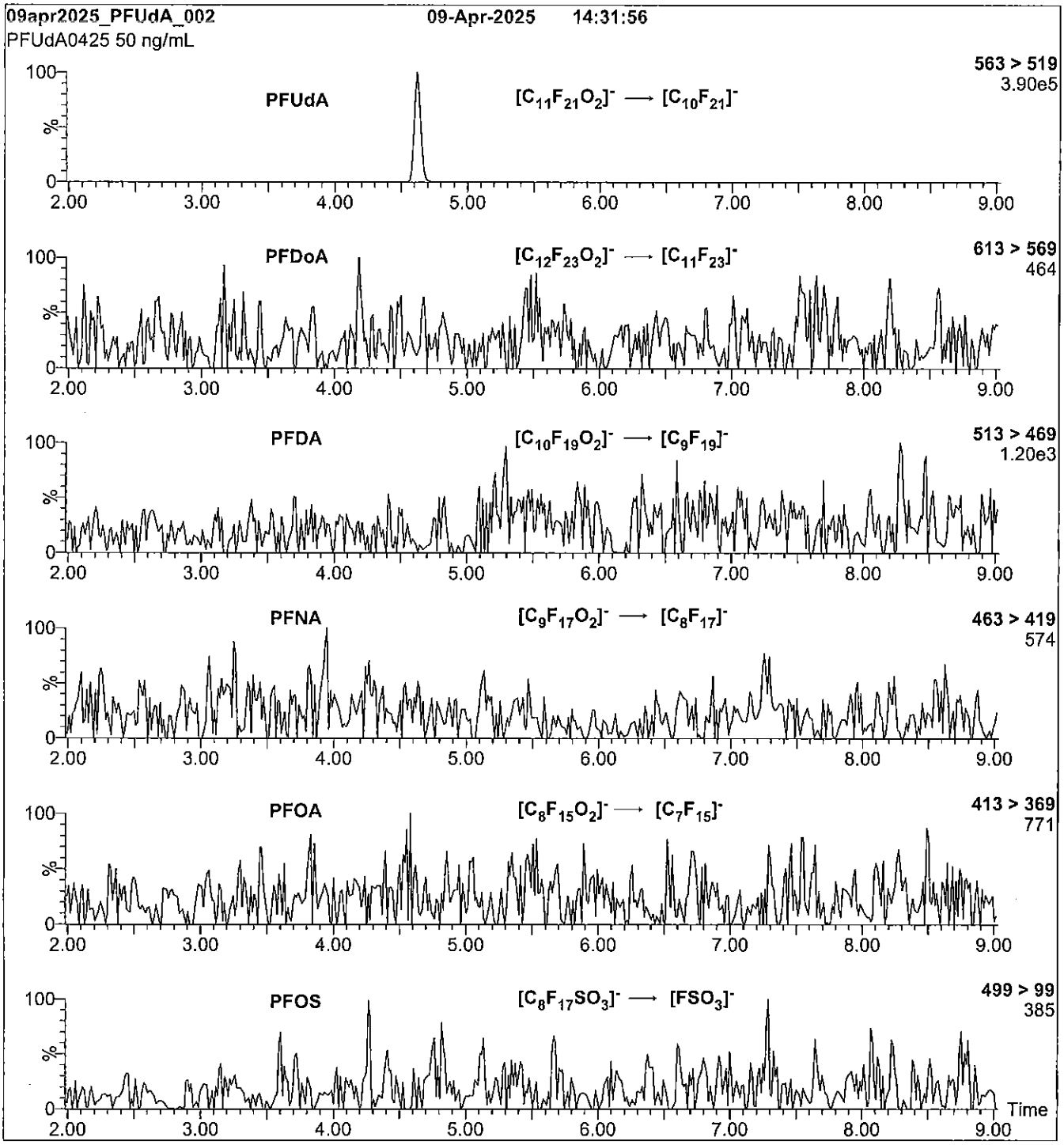
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: PFUdA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (PFUdA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.91e-3
Collision Energy (eV) = 12

Reagent

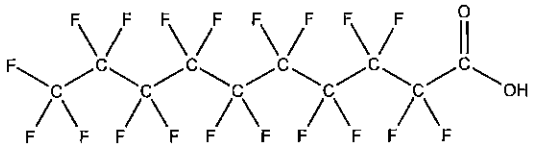
PFC_ST_04815

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_04815, 4816

PRODUCT CODE:	PFDA	**LOT NUMBER:**	PFDA0724
COMPOUND:	Perfluoro-n-decanoic acid		
STRUCTURE:		**CAS #:**	335-76-2



MOLECULAR FORMULA:	$C_{10}HF_{19}O_2$	**MOLECULAR WEIGHT:**	514.08
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	07/17/2024		
EXPIRY DATE: (mm/dd/yyyy)	07/17/2029		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 02/10/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

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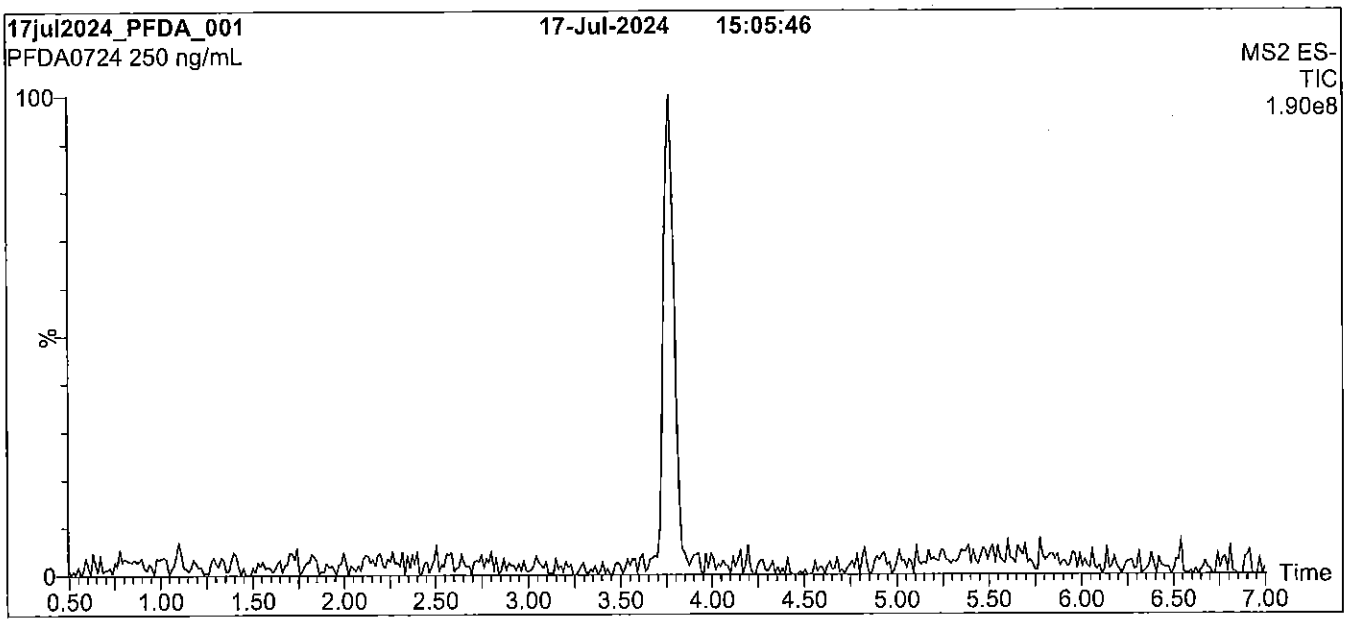
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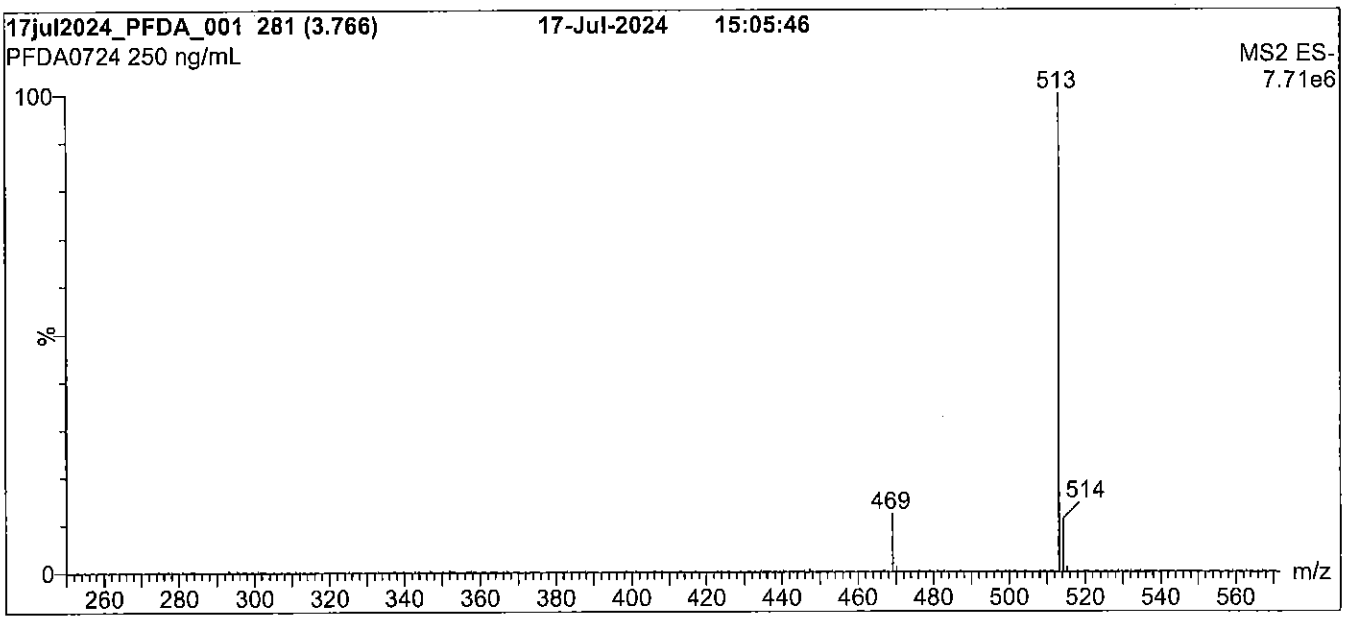
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **PFDA; LC/MS Data (Full Scan and Mass Spectrum)**





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Waters Xevo TQ-S micro MS

Chromatographic Conditions:

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1.7 µm, 2.1 x 100 mm

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Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

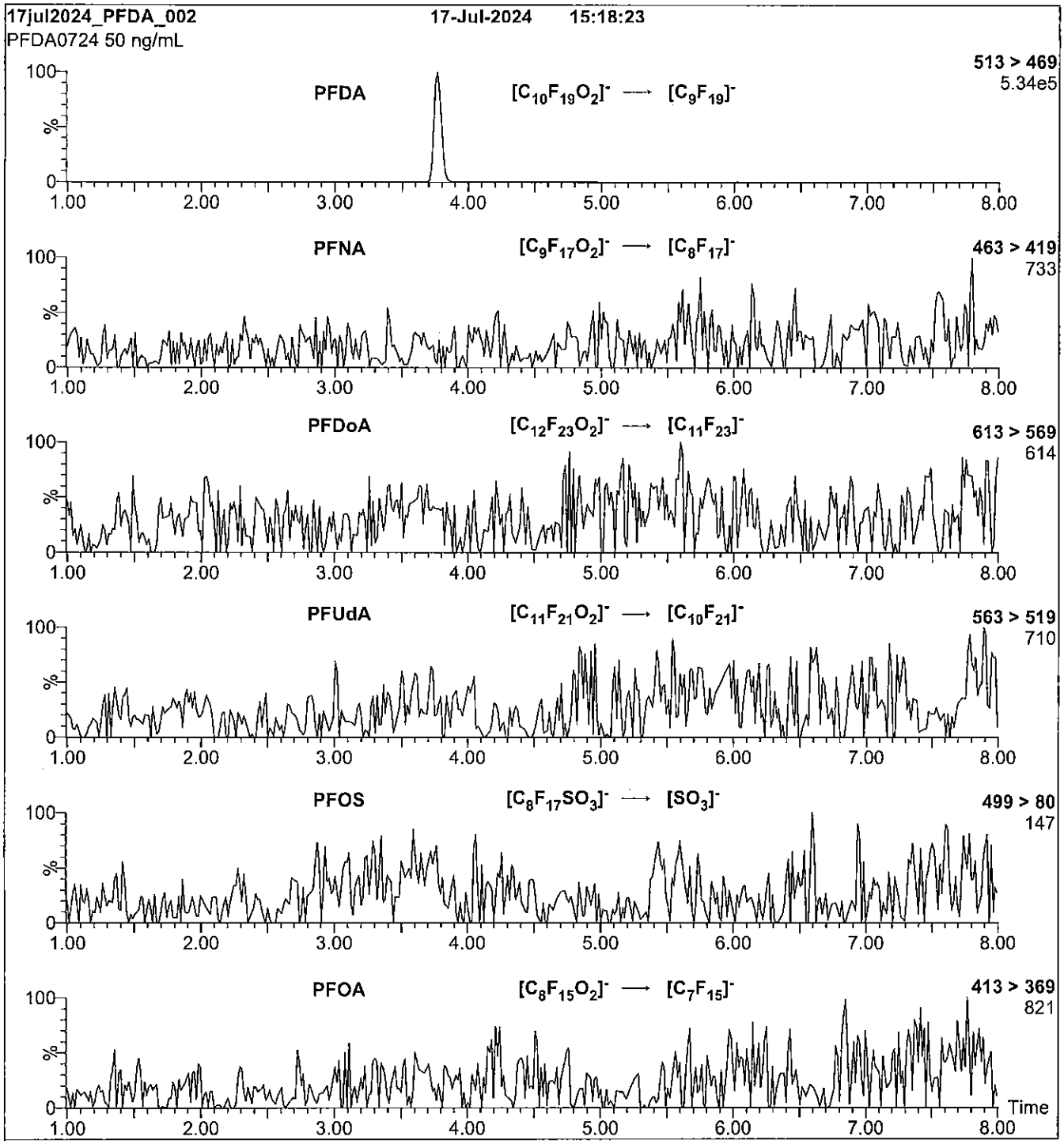
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **PFDA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFDA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.94e-3
Collision Energy (eV) = 10

Reagent

PFC_ST_04858

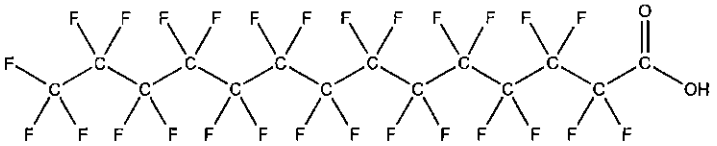
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

8264648
ID: PFC_ST_04857
Exp:04/09/30 Prpd:RPU6 Opn:
Native PFTeDA Stock

8264649
ID: PFC_ST_04858
Exp:04/09/30 Prpd:RPU6 Opn:
Native PFTeDA Stock

PRODUCT CODE.	PFTeDA	**LOT NUMBER.**	PFTeDA0425
COMPOUND.	Perfluoro-n-tetradecanoic acid		
STRUCTURE.		**CAS #.**	376-06-7



MOLECULAR FORMULA.	$C_{14}HF_{27}O_2$	**MOLECULAR WEIGHT:**	714 11
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY.	>98%		
LAST TESTED. (mm/dd/yyyy)	04/09/2025		
EXPIRY DATE. (mm/dd/yyyy)	04/09/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

410-8264649

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

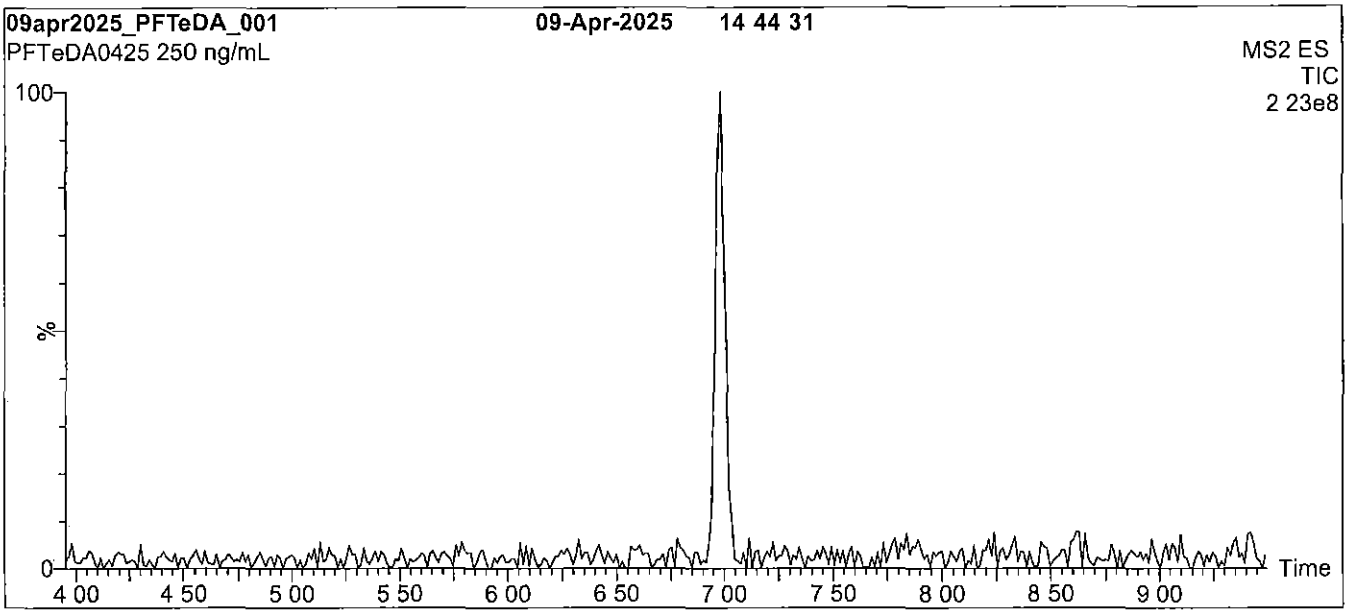
- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~0 3% of perfluoro-n-dodecanoic acid (PFDoA)

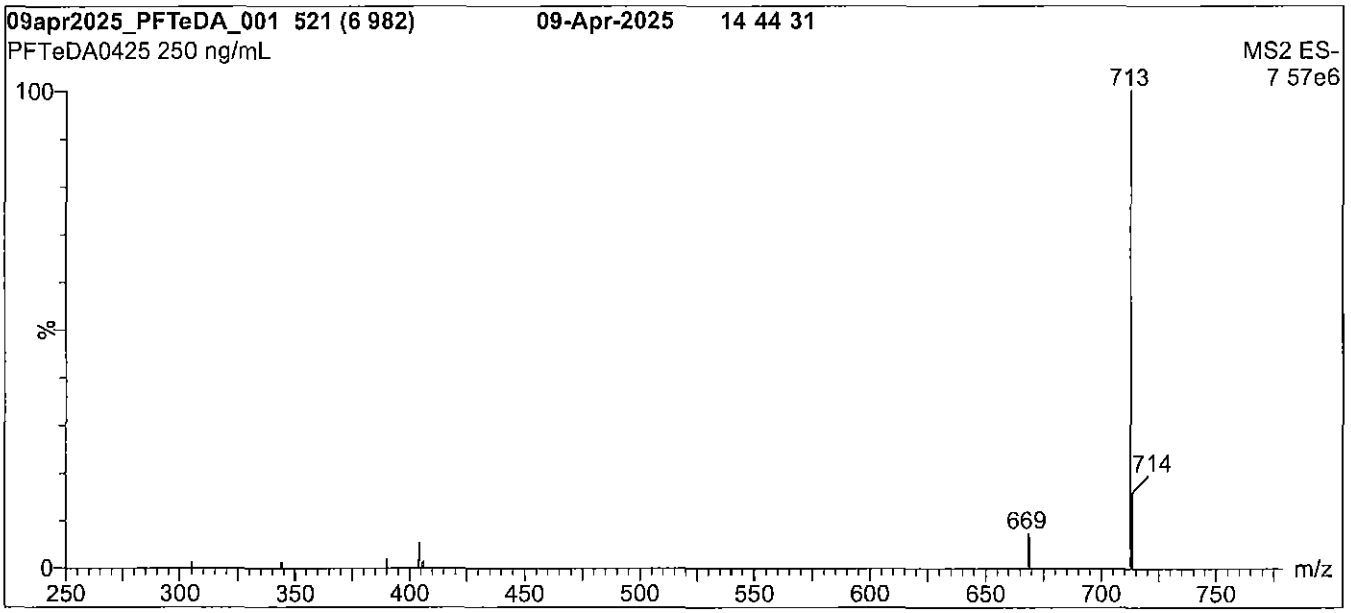
FOR LABORATORY USE ONLY NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 04/14/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc , 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs com

Figure 1. **PFTeDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80 20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 12 min

Flow: 300 µL/min

MS Parameters.

Experiment. Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Reagent

PFC_ST_04947

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

8439529
ID: PFC_ST_04946
Exp:04/23/30 Prpd:D4BO Opn:
Native FPePA Stock (5:3 FTCA)

8439530
ID: PFC_ST_04947
Exp:04/23/30 Prpd:D4BO Opn:
Native FPePA Stock (5:3 FTCA)

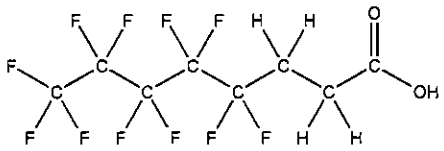
8439531
ID: PFC_ST_04948
Exp:04/23/30 Prpd:D4BO Opn:
Native FPePA Stock (5:3 FTCA)

8439532
ID: PFC_ST_04949
Exp:04/23/30 Prpd:D4BO Opn:
Native FPePA Stock (5:3 FTCA)

PRODUCT CODE. FPePA
COMPOUND. 3-Perfluoropentyl propanoic acid

LOT NUMBER: FPePA0425

STRUCTURE:



CAS #: 914637-49-3

410-8439530

MOLECULAR FORMULA.	$C_8H_5F_{11}O_2$	**MOLECULAR WEIGHT:**	342 11
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	04/23/2025		
EXPIRY DATE. (mm/dd/yyyy)	04/23/2030		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains <0 5% of the unsaturated 5 3 telomer acid ($C_8H_3F_{11}O_2$) as an impurity by H and ^{19}F NMR.

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By. _____ **Date** 05/05/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x_1 x_2, $.x_n$ on which it depends is

$$u_c(y(x_1\ x_2\ \ .x_n)) = \sqrt{\sum_{=1}^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

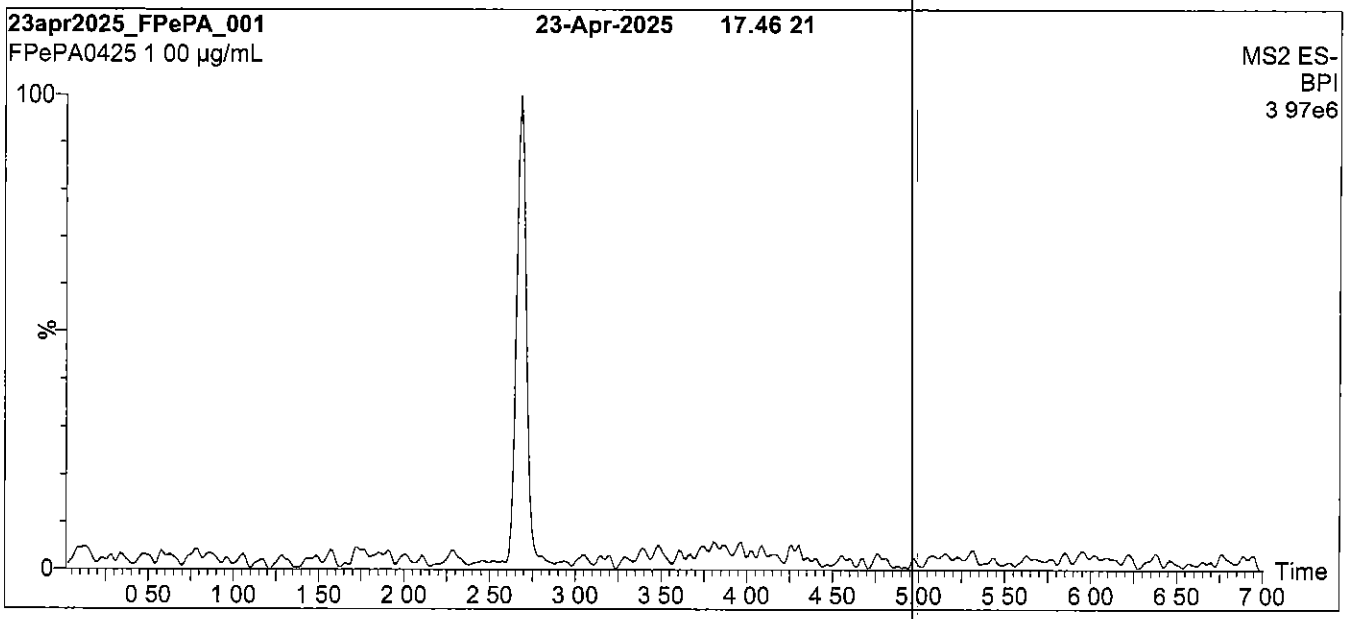
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

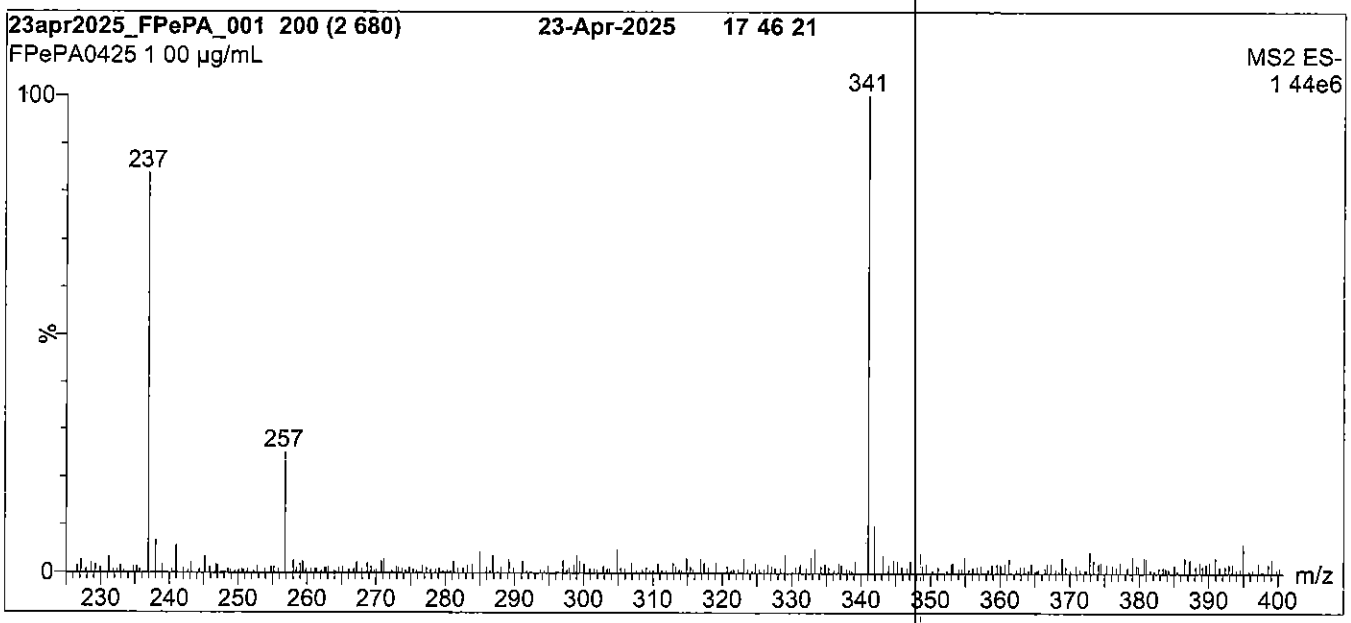
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **FPePA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min.
Time 12 min

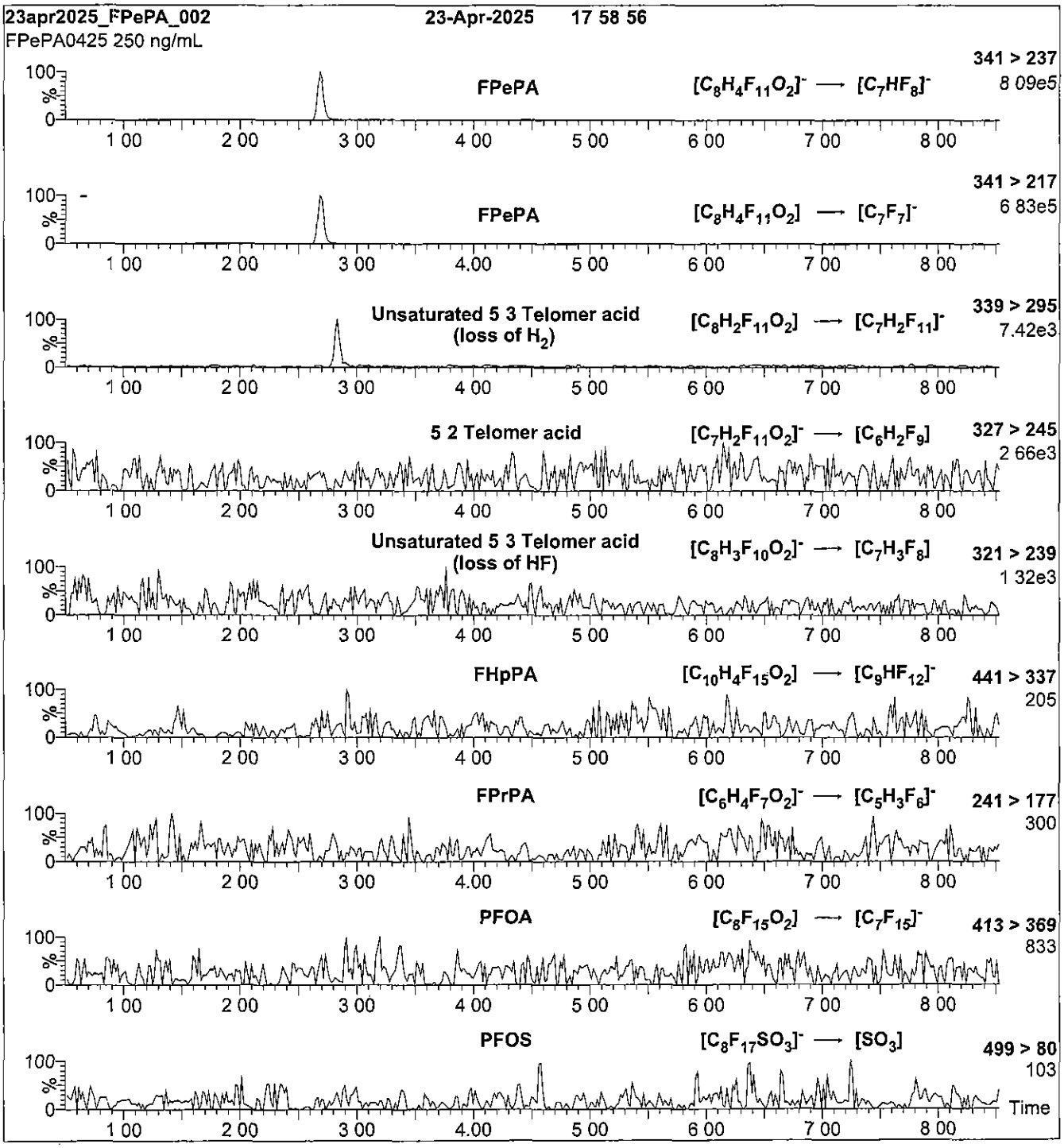
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 0 50
Cone Voltage (V) = 28.50
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **FPePA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (FPePA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.34e-3
Collision Energy (eV) = 10

Reagent

PFC_ST_04949

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

8439529
ID: PFC_ST_04946
Exp:04/23/30 Prpd:D4SO Opn:
Native FPePA Stock (5:3 FTCA)

8439530
ID: PFC_ST_04947
Exp:04/23/30 Prpd:D4SO Opn:
Native FPePA Stock (5:3 FTCA)

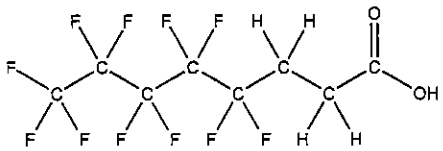
8439531
ID: PFC_ST_04948
Exp:04/23/30 Prpd:D4SO Opn:
Native FPePA Stock (5:3 FTCA)

8439532
ID: PFC_ST_04949
Exp:04/23/30 Prpd:D4SO Opn:
Native FPePA Stock (5:3 FTCA)

PRODUCT CODE. FPePA
COMPOUND. 3-Perfluoropentyl propanoic acid

LOT NUMBER. FPePA0425

STRUCTURE.



CAS #: 914637-49-3

410-8439532

MOLECULAR FORMULA. $C_8H_5F_{11}O_2$
CONCENTRATION. 50 0 ± 2 5 µg/mL
CHEMICAL PURITY: >98%
LAST TESTED. (mm/dd/yyyy) 04/23/2025
EXPIRY DATE. (mm/dd/yyyy) 04/23/2030
RECOMMENDED STORAGE. Refrigerate ampoule

MOLECULAR WEIGHT: 342 11
SOLVENT(S). Methanol

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains <0 5% of the unsaturated 5 3 telomer acid ($C_8H_3F\ O_2$) as an impurity by ^1H and ^{19}F NMR.

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Certified By· _____ **Date** 05/05/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x_1 x_2, x_n on which it depends is.

$$u_c(y(x_1\ x_2,\ldots x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

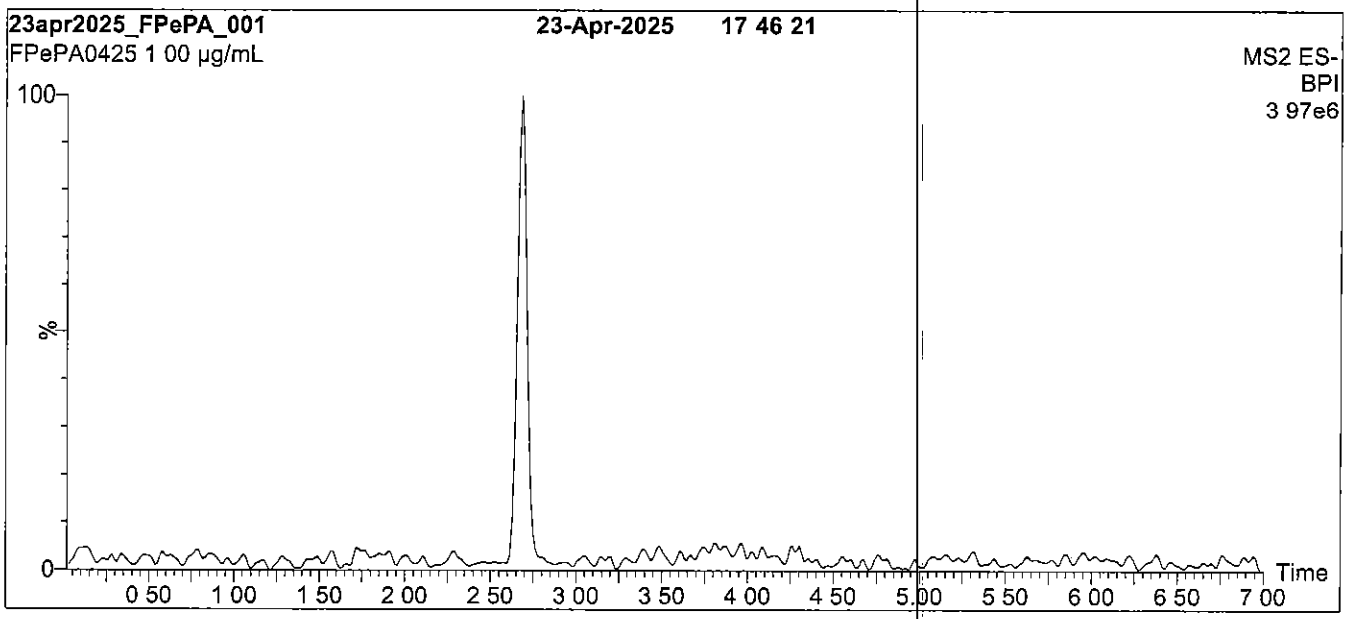
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523).

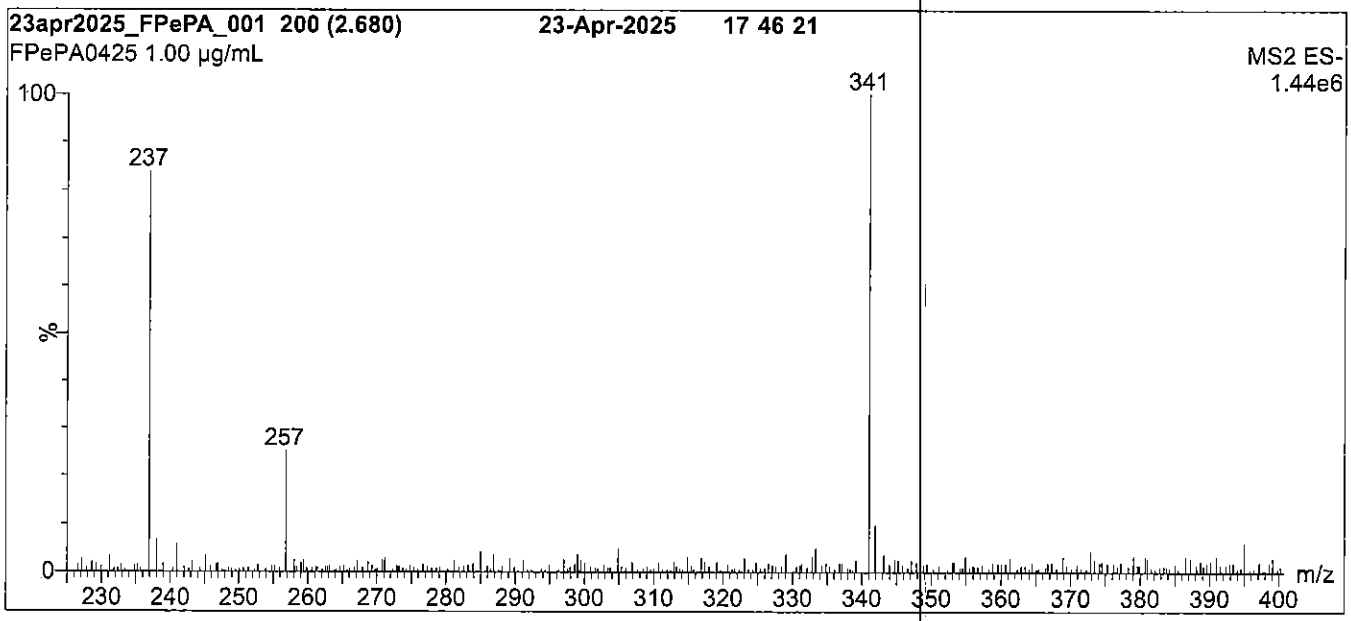
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **FPePA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP$_{18}$ 1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 12 min

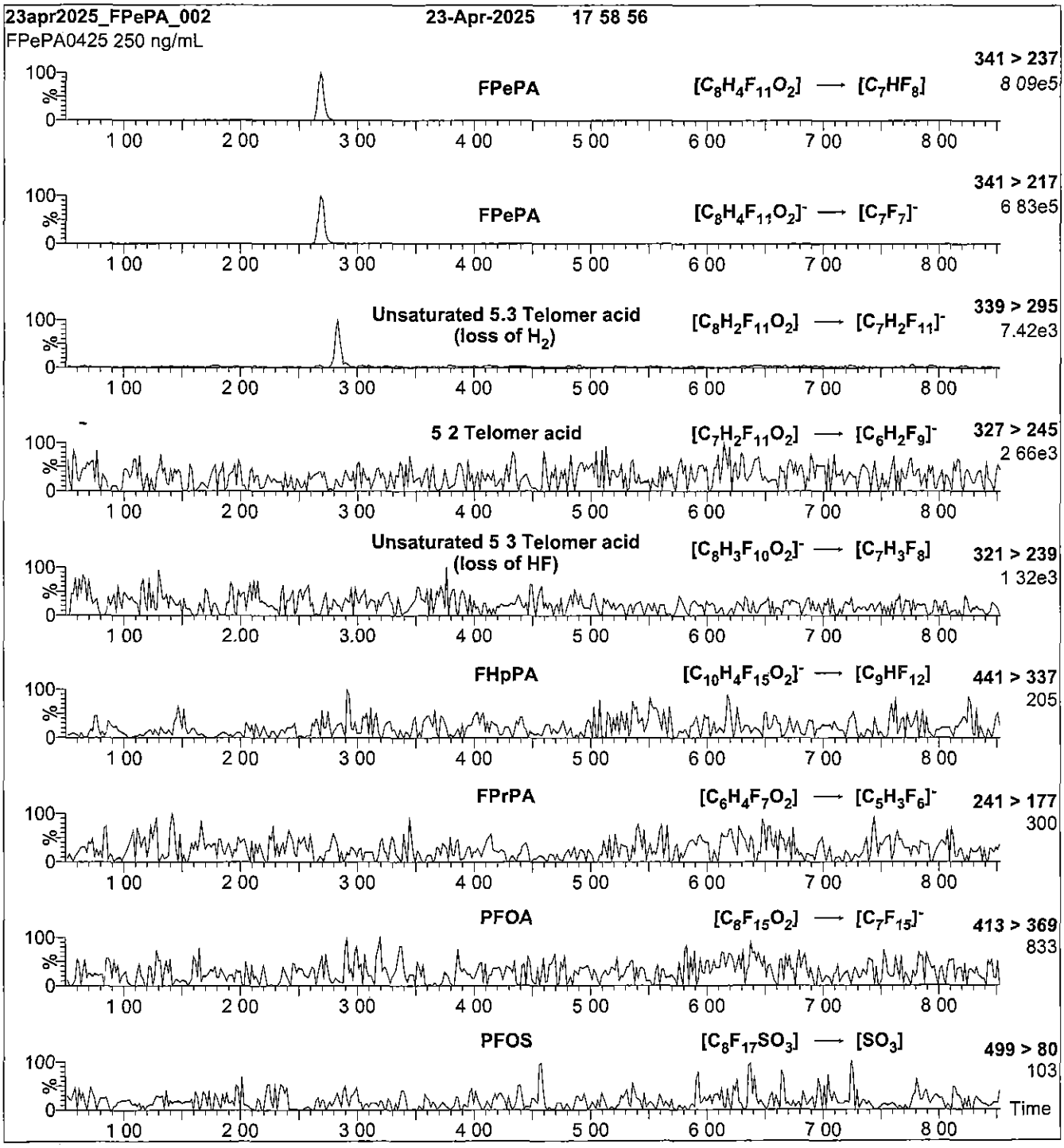
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (225 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 0.50
Cone Voltage (V) = 28 50
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **FPePA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection	On-column (FPePA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.34e-3
Collision Energy (eV) = 10

Reagent

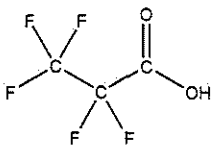
PFC_ST_04970

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-04970, 4971, 4972

PRODUCT CODE.	PFPrA	**LOT NUMBER.**	PFPrA0825
COMPOUND.	Perfluoropropanoic acid		
STRUCTURE.		**CAS #.**	422-64-0



410-8456672

MOLECULAR FORMULA.	$C_3HF_5O_2$	**MOLECULAR WEIGHT:**	164 03
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY.	>98%		
LAST TESTED. (mm/dd/yyyy)	08/08/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/08/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan Extracted Chromatogram and Mass Spectrum)
Figure 2. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 08/08/2025
(mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, x_n on which it depends is.

$$u_c(y(x_1\ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

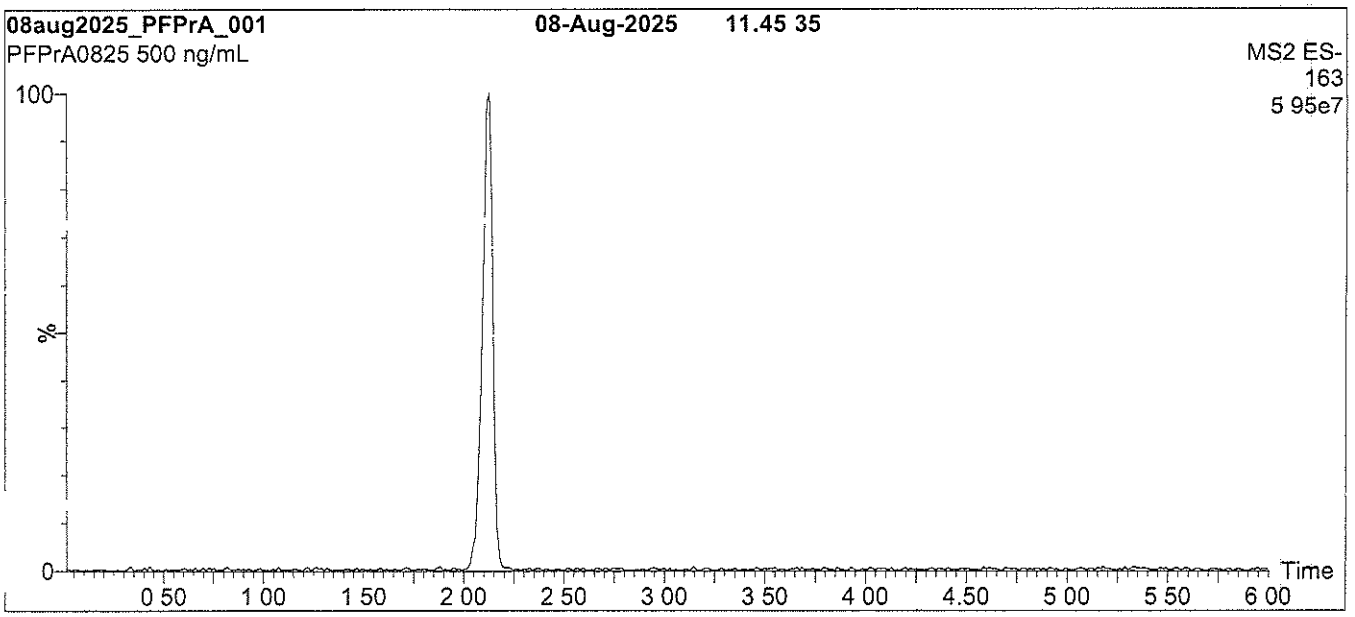
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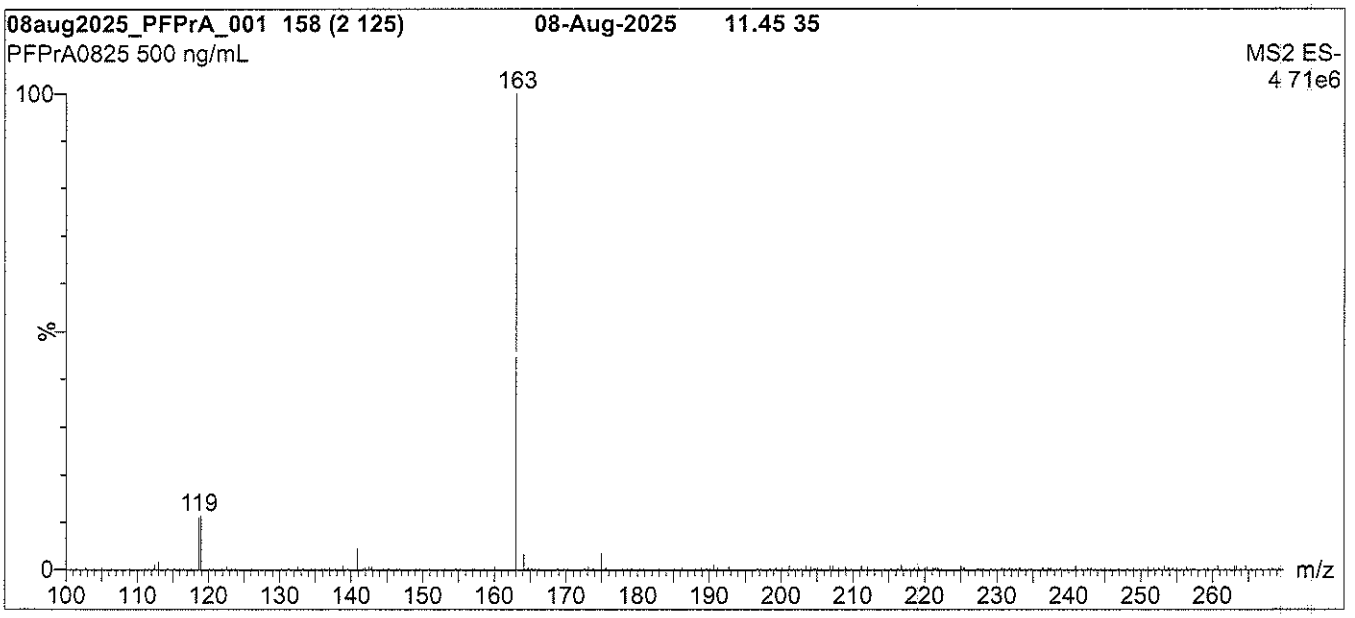
CALA Testing Accreditation No. A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **PFPrA, LC/MS Data (Full Scan Extracted Chromatogram and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Restek Raptor Polar X
2.7 µm 2.1 x 50 mm

Mobile phase: Gradient
Start: 50% H_2O (with 10 mM NH_4COOH buffer)
50% (60:40 ACN MeOH)
(both with 0 05% formic acid)
Ramp to 90% organic over 7 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time 10 min

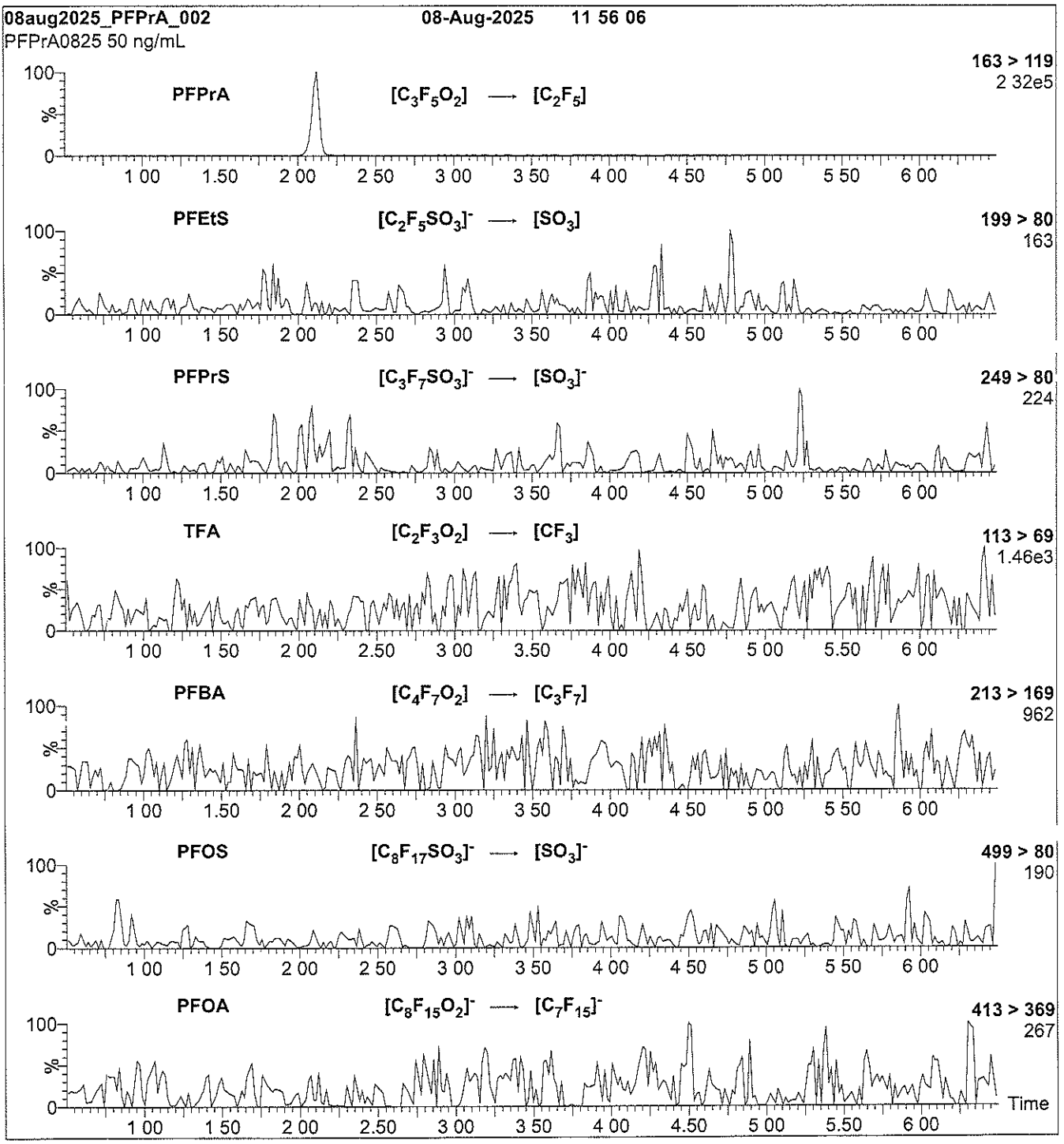
Flow: 400 µL/min

MS Parameters.

Experiment: Full Scan (100 850 amu)

Source. Electrospray (negative)
Capillary Voltage (kV) = 2 75
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **PFPrA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (PFPrA)
Mobile phase	Same as Figure 1
Flow	400 µL/min

MS Parameters.

Collision Gas (mbar) = 3.65e-3
Collision Energy (eV) = 8

Reagent

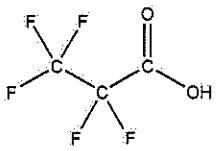
PFC_ST_04972

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-04970, 4971, 4972

PRODUCT CODE.	PFPrA	**LOT NUMBER.**	PFPrA0825
COMPOUND.	Perfluoropropanoic acid		
STRUCTURE.		**CAS #.**	422-64-0



410-8456675

MOLECULAR FORMULA.	$C_3HF_5O_2$	**MOLECULAR WEIGHT:**	164 03
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%		
LAST TESTED. (mm/dd/yyyy)	08/08/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/08/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan Extracted Chromatogram and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 08/08/2025 (mm/dd/yyyy)

B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions s calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is

$$u_c(y(x_1\ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

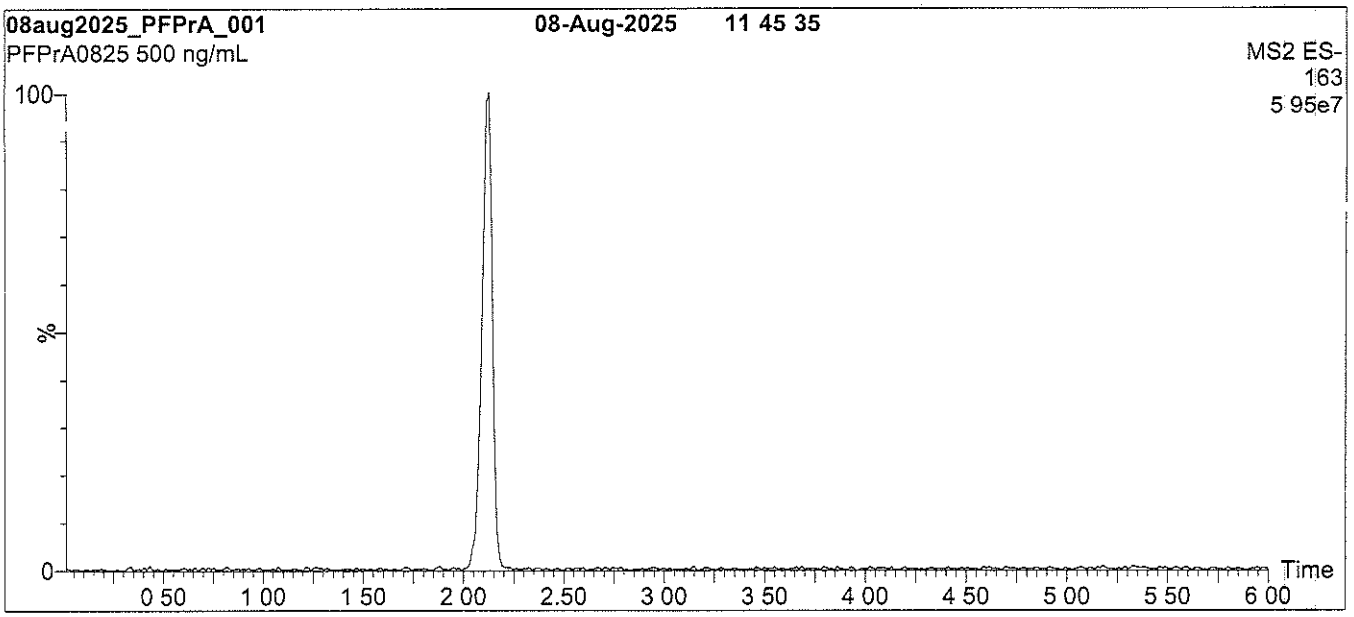
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523).

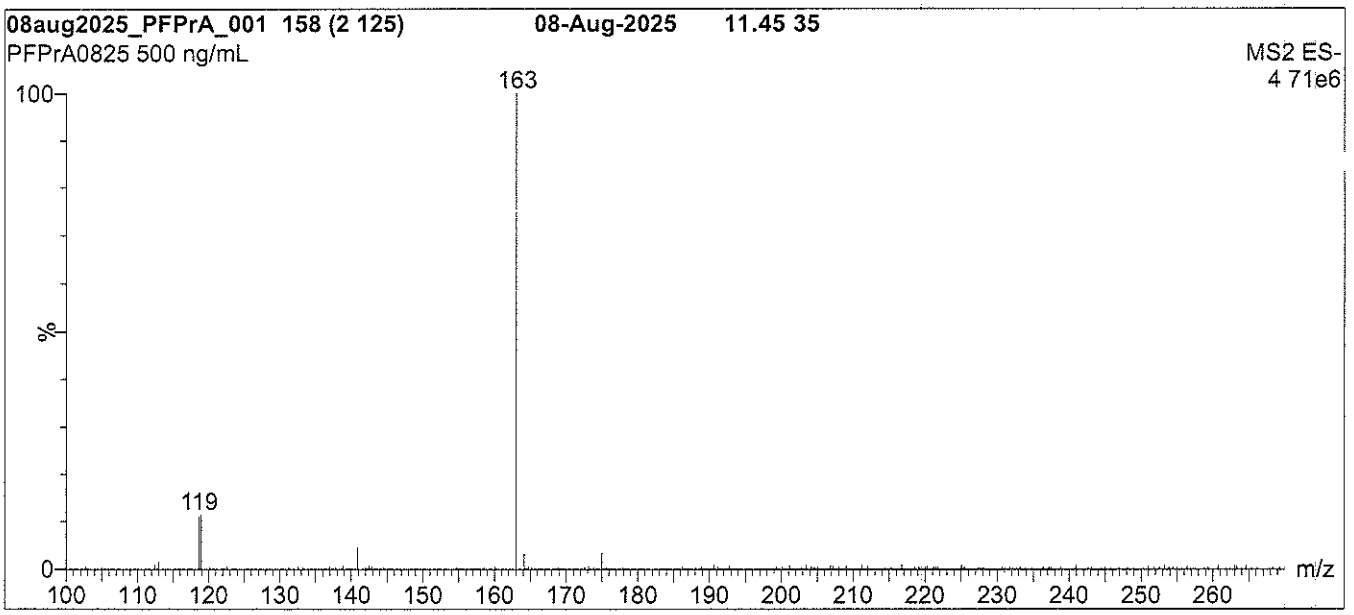
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **PFPrA, LC/MS Data (Full Scan Extracted Chromatogram and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Restek Raptor Polar X
2.7 µm 2 1 x 50 mm

Mobile phase: Gradient
Start. 50% H_2O (with 10 mM NH_4COOH buffer)
50% (60:40 ACN MeOH)
(both with 0 05% formic acid)
Ramp to 90% organic over 7 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 10 min

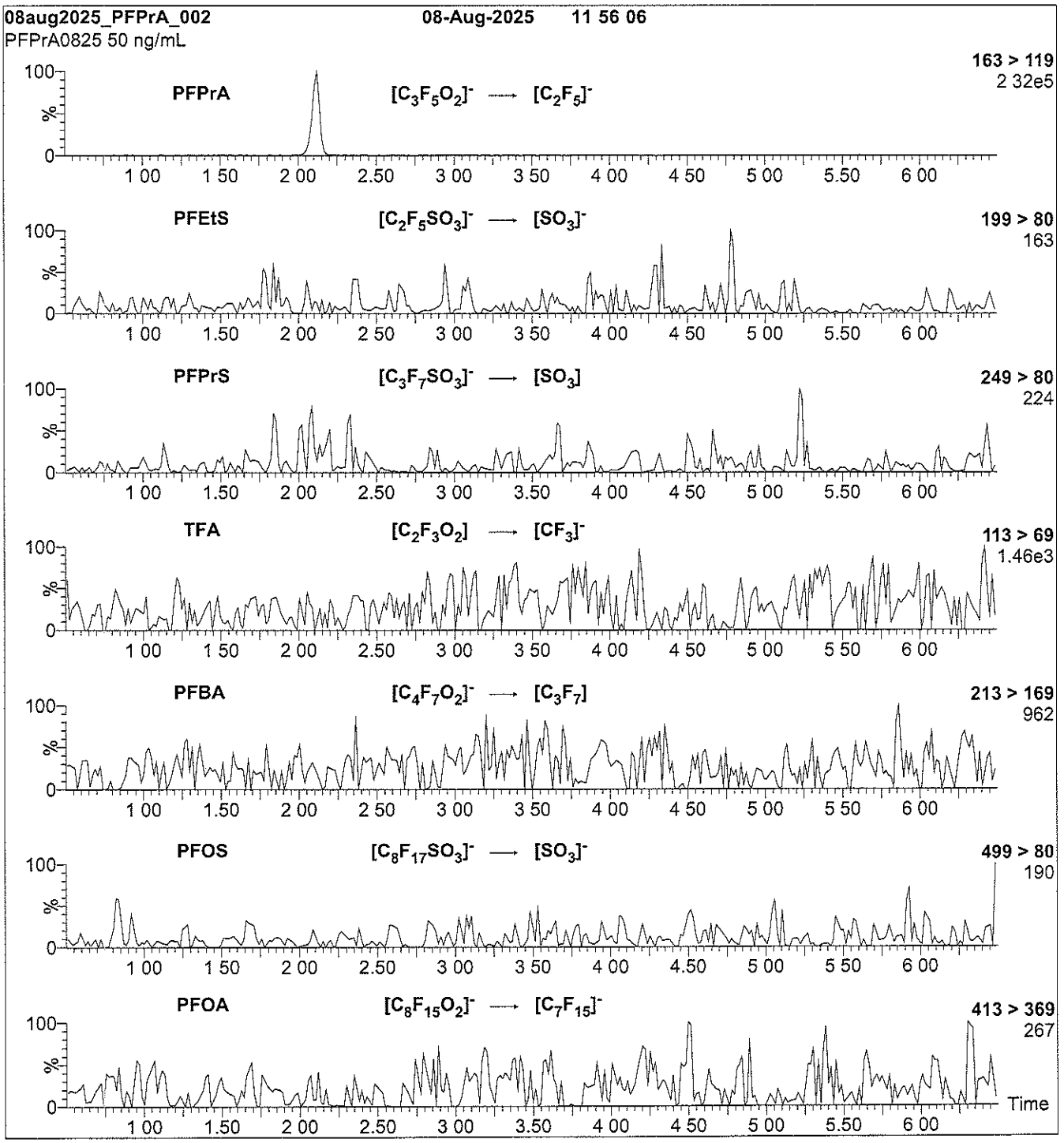
Flow: 400 µL/min

MS Parameters.

Experiment: Full Scan (100 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **PFPrA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (PFPrA)
Mobile phase	Same as Figure 1
Flow	400 µL/min

MS Parameters.

Collision Gas (mbar) = 3 65e-3
Collision Energy (eV) = 8

Reagent

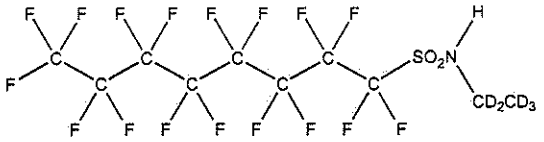
PFC_ST_05001

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_4998, 4999, 5000, 5001

PRODUCT CODE.	d-N-EtFOSA-M	**LOT NUMBER.**	dNEtFOSA1124M
COMPOUND.	N-Ethyl-d_5-perfluoro-1-octanesulfonamide		
STRUCTURE.		**CAS #.**	936109-40-9



410-8468571

MOLECULAR FORMULA.	$C_{10}D_5HF_{17}NO_2S$	**MOLECULAR WEIGHT:**	532.23
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	10/15/2024		
EXPIRY DATE. (mm/dd/yyyy)	10/15/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 10/18/2024 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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HANDLING.

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, x_n on which it depends is

$$u_c(y(x_1\ x \quad x_n)) = \sqrt{\sum^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

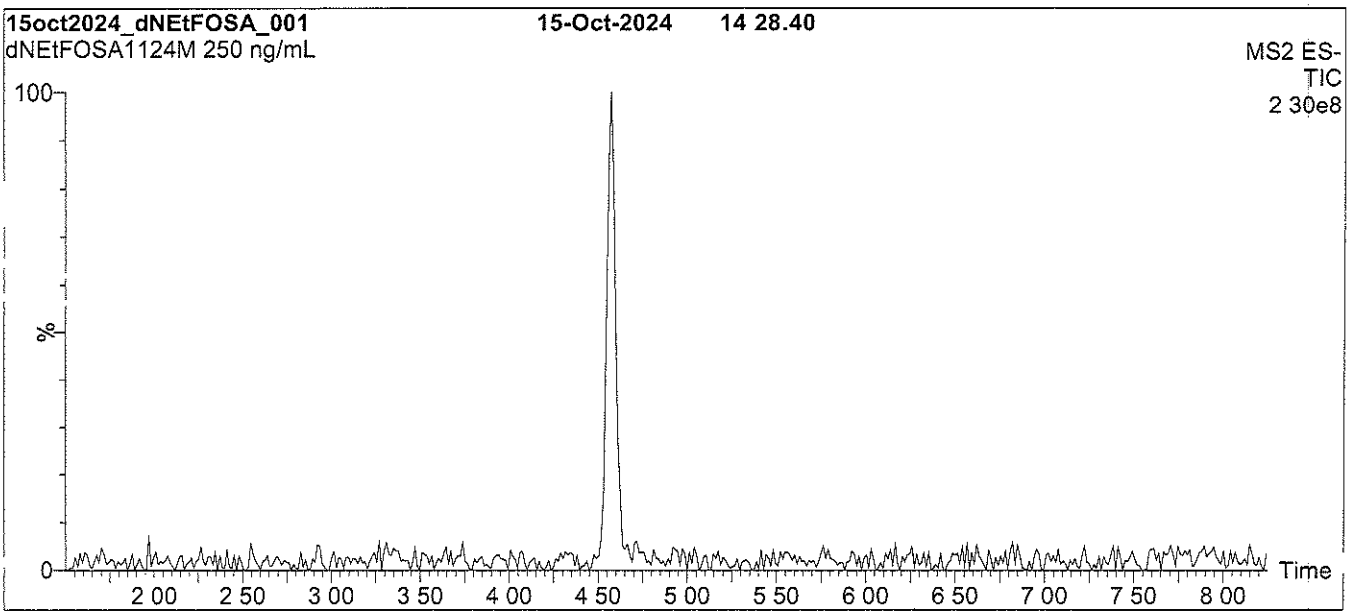
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

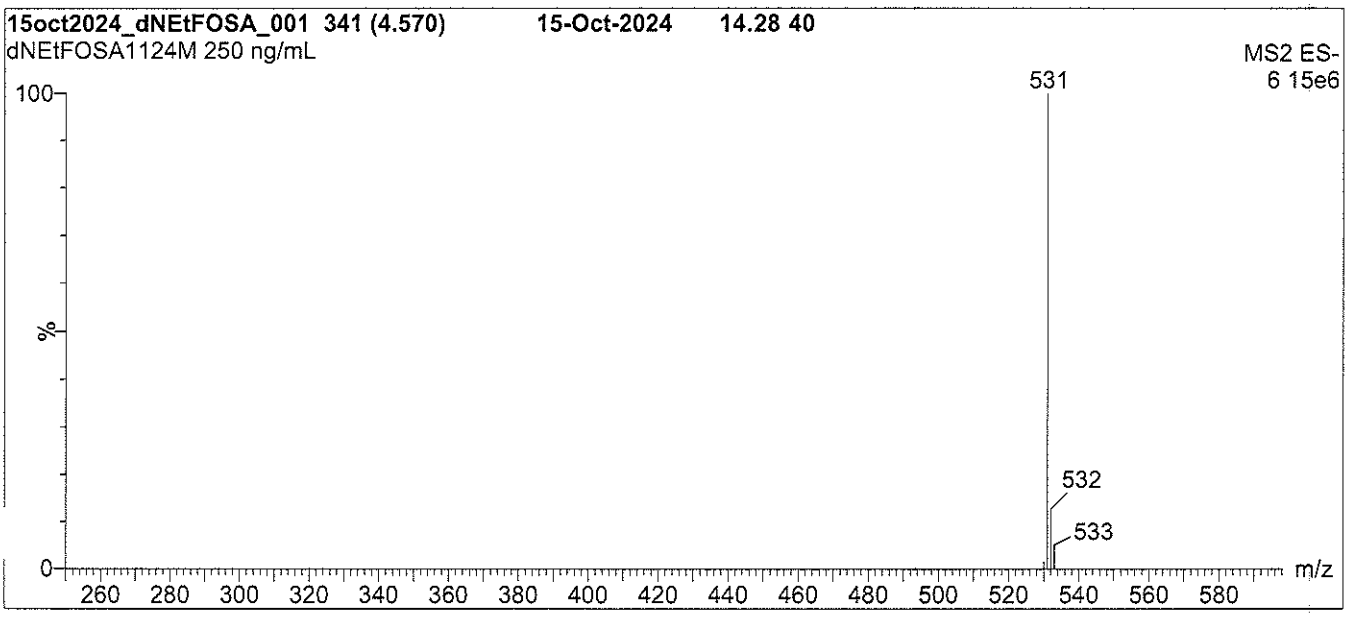
CALA Testing Accreditation No. A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **d-N-EtFOSA-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

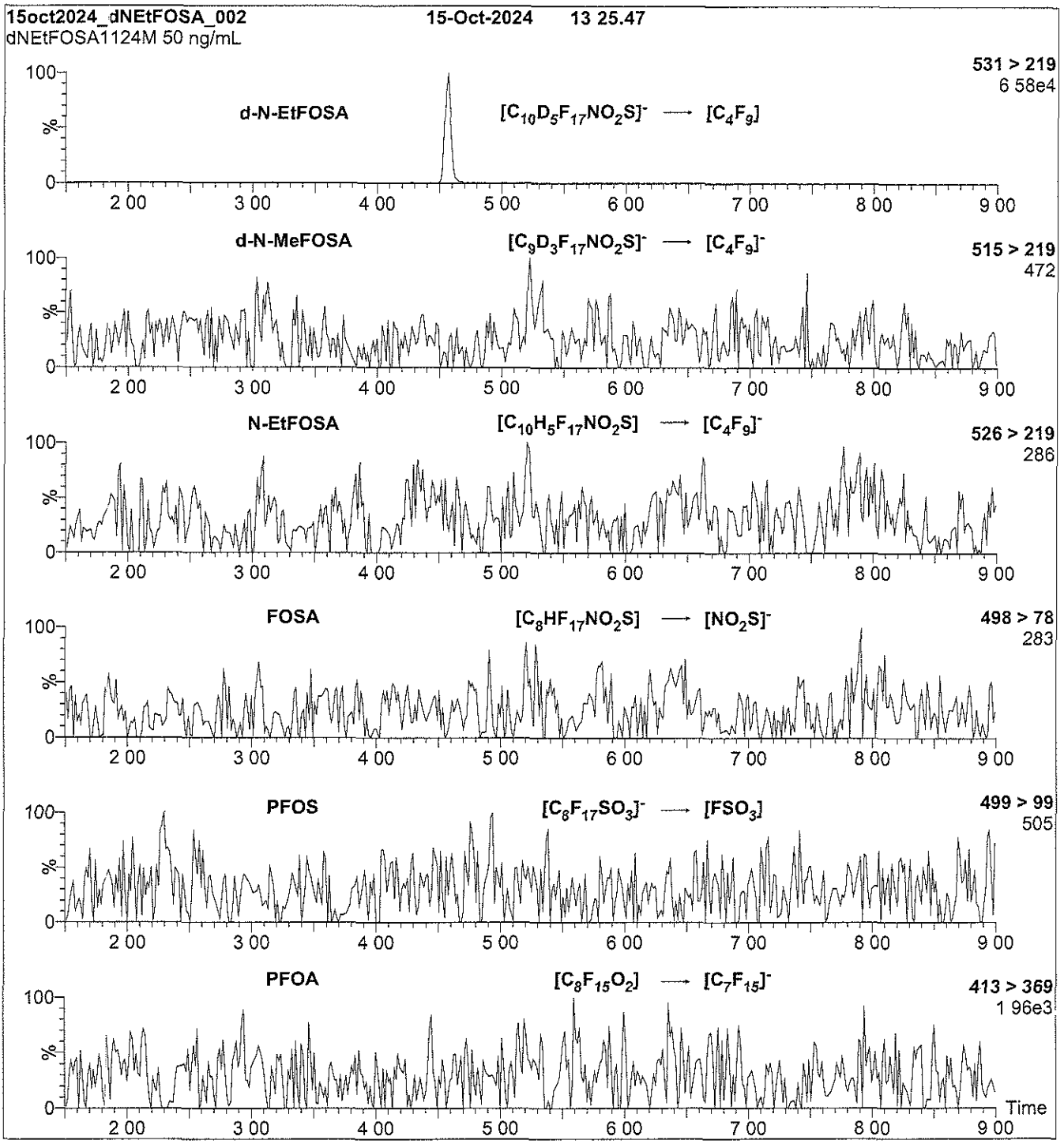
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 1 00
Cone Voltage (V) = 44.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **d-N-EtFOSA-M, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (d-N-EtFOSA-M)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.24e-3
Collision Energy (eV) = 24

Reagent

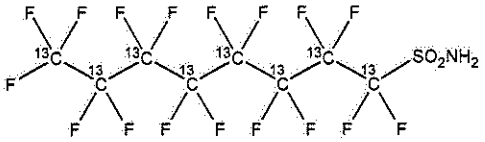
PFC_ST_05002

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_050002, 5003, 5004

PRODUCT CODE.	M8FOSA-I	**LOT NUMBER.**	M8FOSA0525I
COMPOUND.	Perfluoro-1-($^{13}C_8$)octanesulfonamide		
STRUCTURE.		**CAS #.**	1365803-60-6



410-8470197

MOLECULAR FORMULA.	$^{13}C_8H_2F_{17}NO_2S$	**MOLECULAR WEIGHT:**	507 09
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Isopropanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	05/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	05/28/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains ~1 0% of perfluoro-1 ($^{13}C_4$)octanesulfonamide ~0 1% of perfluoro-1-($^{13}C_7$)heptanesulfonamide and ~0 1% of perfluoro-n-($^{13}C_8$)octanoic acid (M8PFOA)

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Certified By _____ **Date** 06/04/2025 (mm/dd/yyyy)

B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

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HOMOGENEITY:

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where x is expressed as a relative standard uncertainty of the individual parameter

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

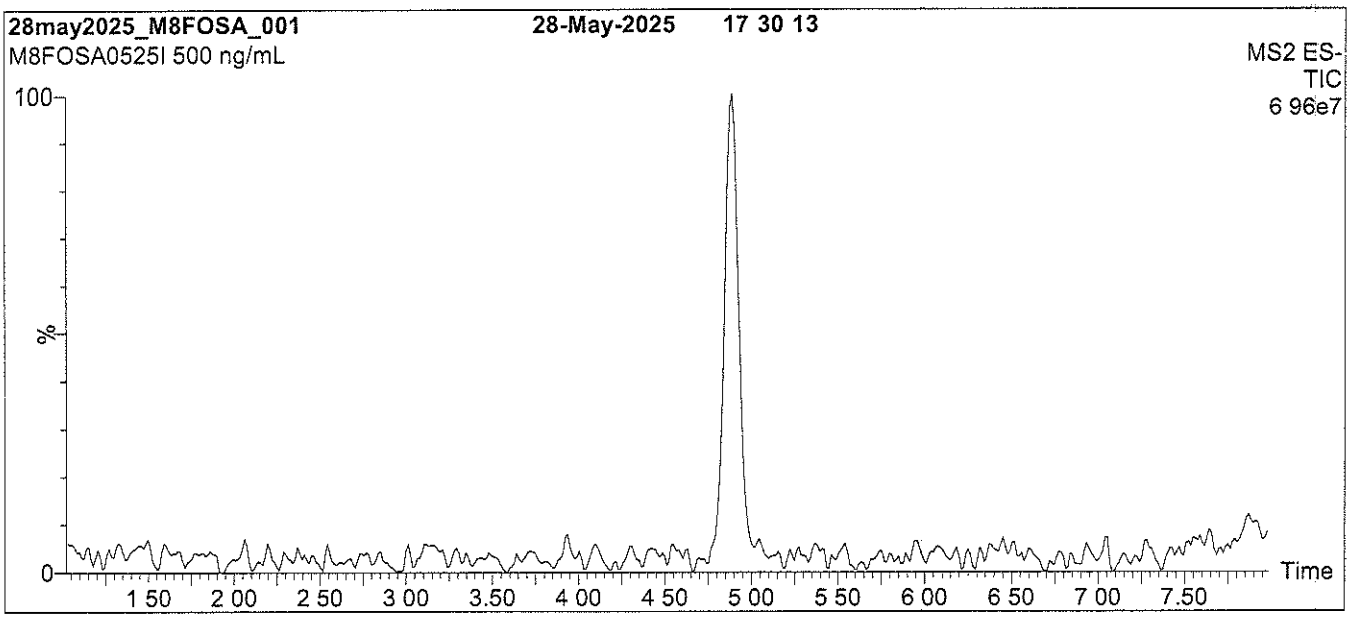
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR 1523)

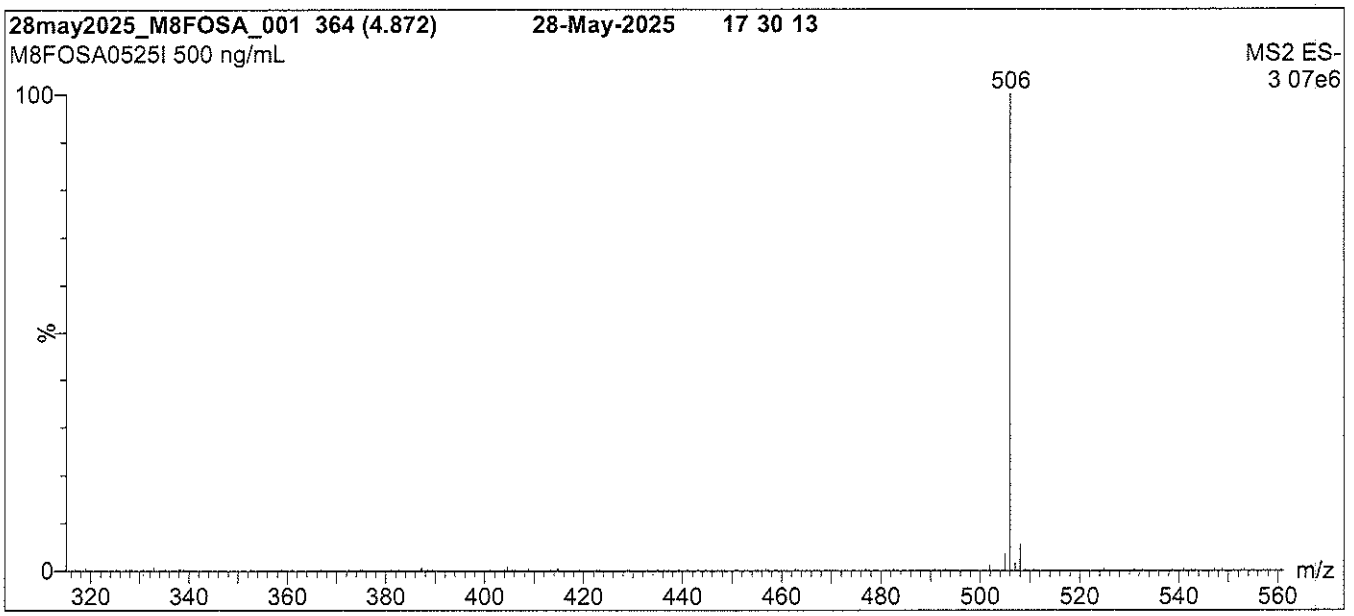
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M8FOSA-I, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

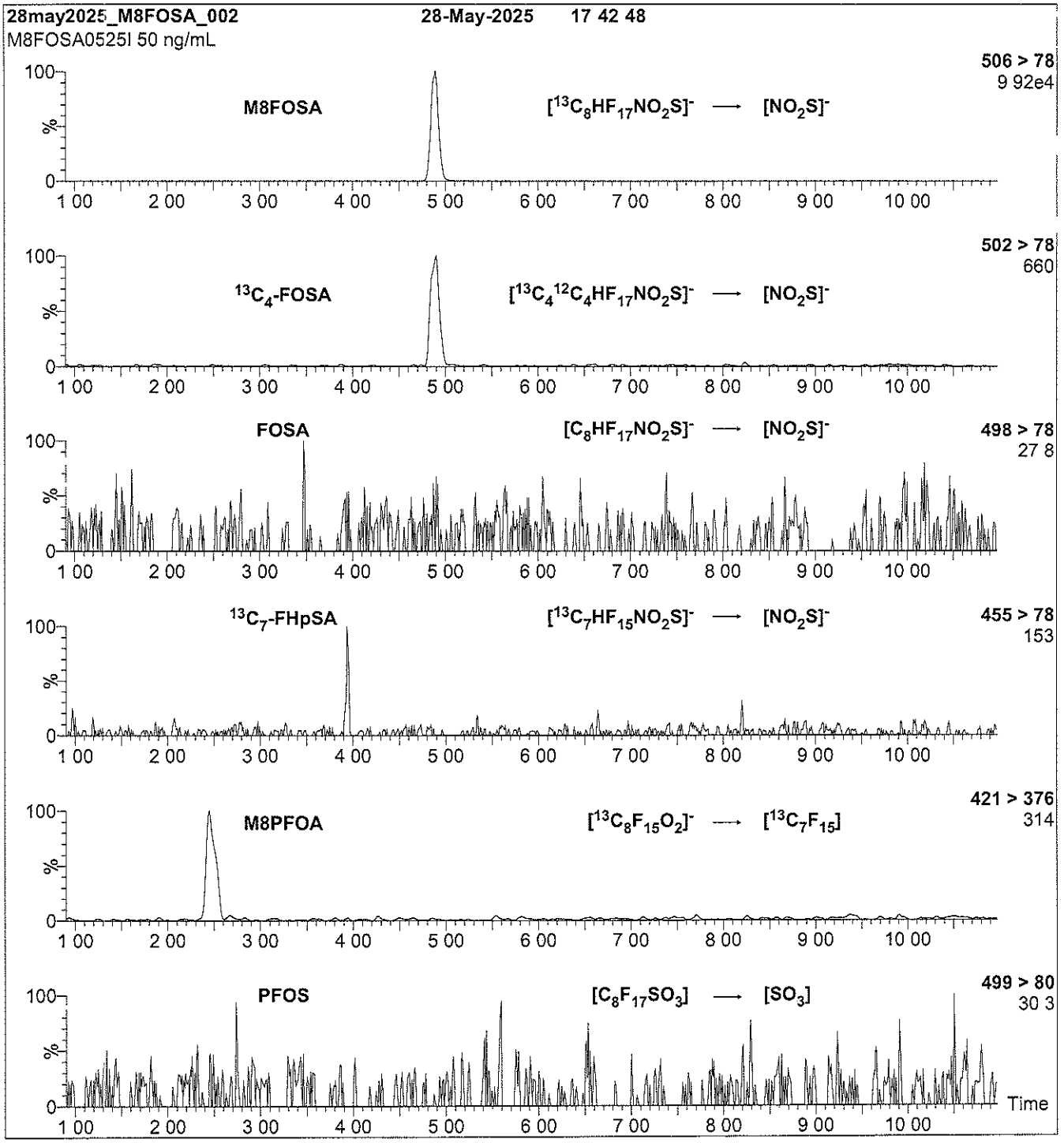
Column	Acquity UPLC BEH Shield RP$_8$ 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 40% H_2O / 60% (80:20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0 5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 1.50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8FOSA-I, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M8FOSA-I)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.43e-3
Collision Energy (eV) = 30

Reagent

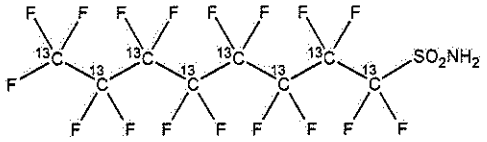
PFC_ST_05003

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_050022, 5003, 5004

PRODUCT CODE.	M8FOSA-I	**LOT NUMBER.**	M8FOSA0525I
COMPOUND.	Perfluoro-1-($^{13}C_8$)octanesulfonamide		
STRUCTURE.		**CAS #.**	1365803-60-6



410-8470198

MOLECULAR FORMULA.	$^{13}C_8H_2F_{17}NO_2S$	**MOLECULAR WEIGHT:**	507 09
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Isopropanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	05/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	05/28/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains ~1 0% of perfluoro-1-($^{13}C_4$)octanesulfonamide ~0 1% of perfluoro-1-($^{13}C_7$)heptanesulfonamide and ~0 1% of perfluoro-n ($^{13}C_8$)octanoic acid (M8PFOA)

FOR LABORATORY USE ONLY NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 06/04/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
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HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is

$$u_c(y(x_1\ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date, in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

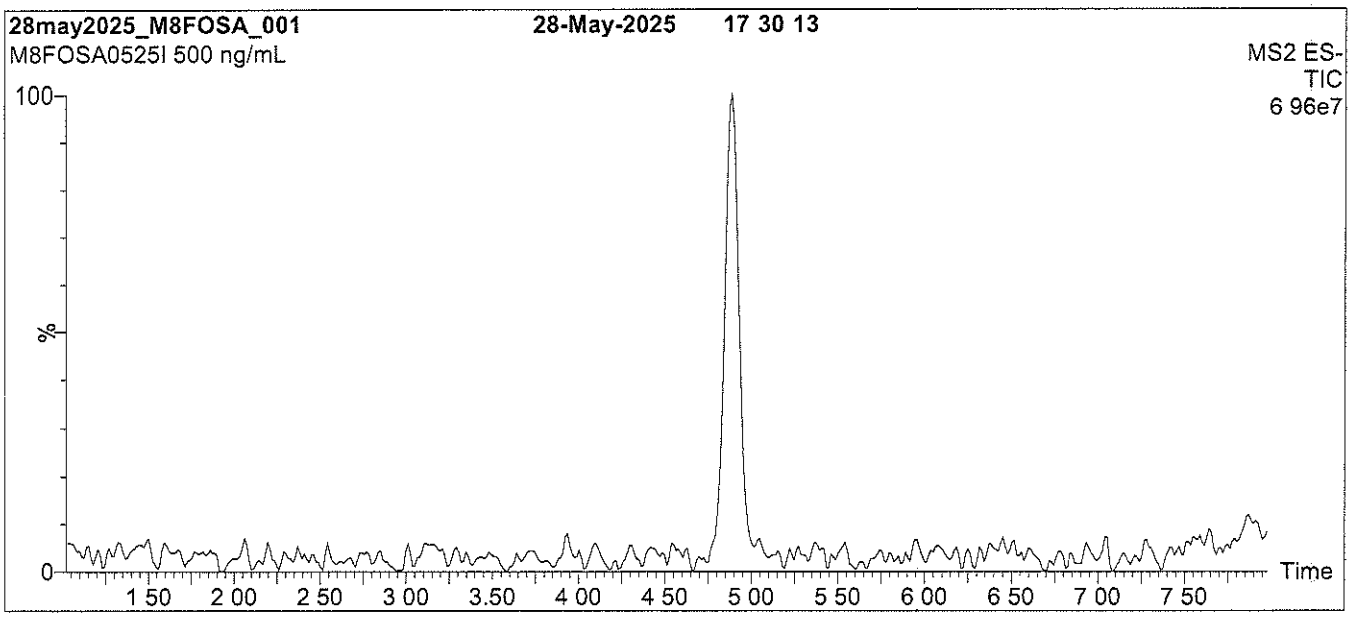
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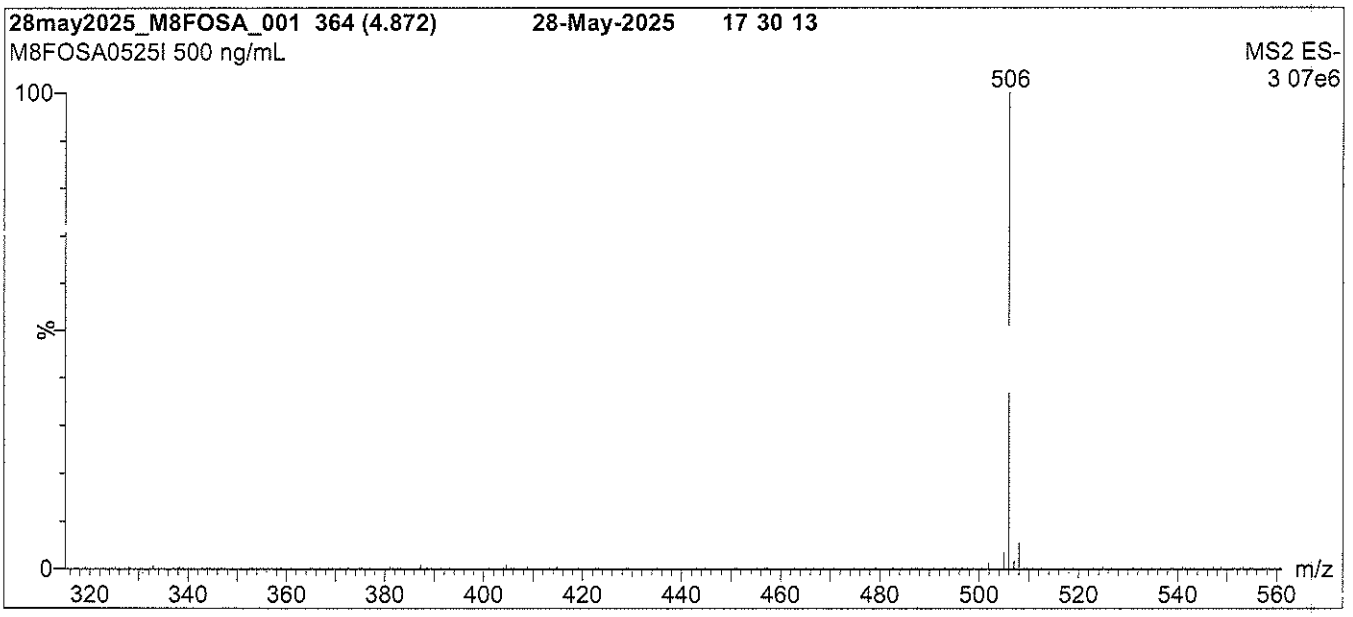
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M8FOSA-I, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

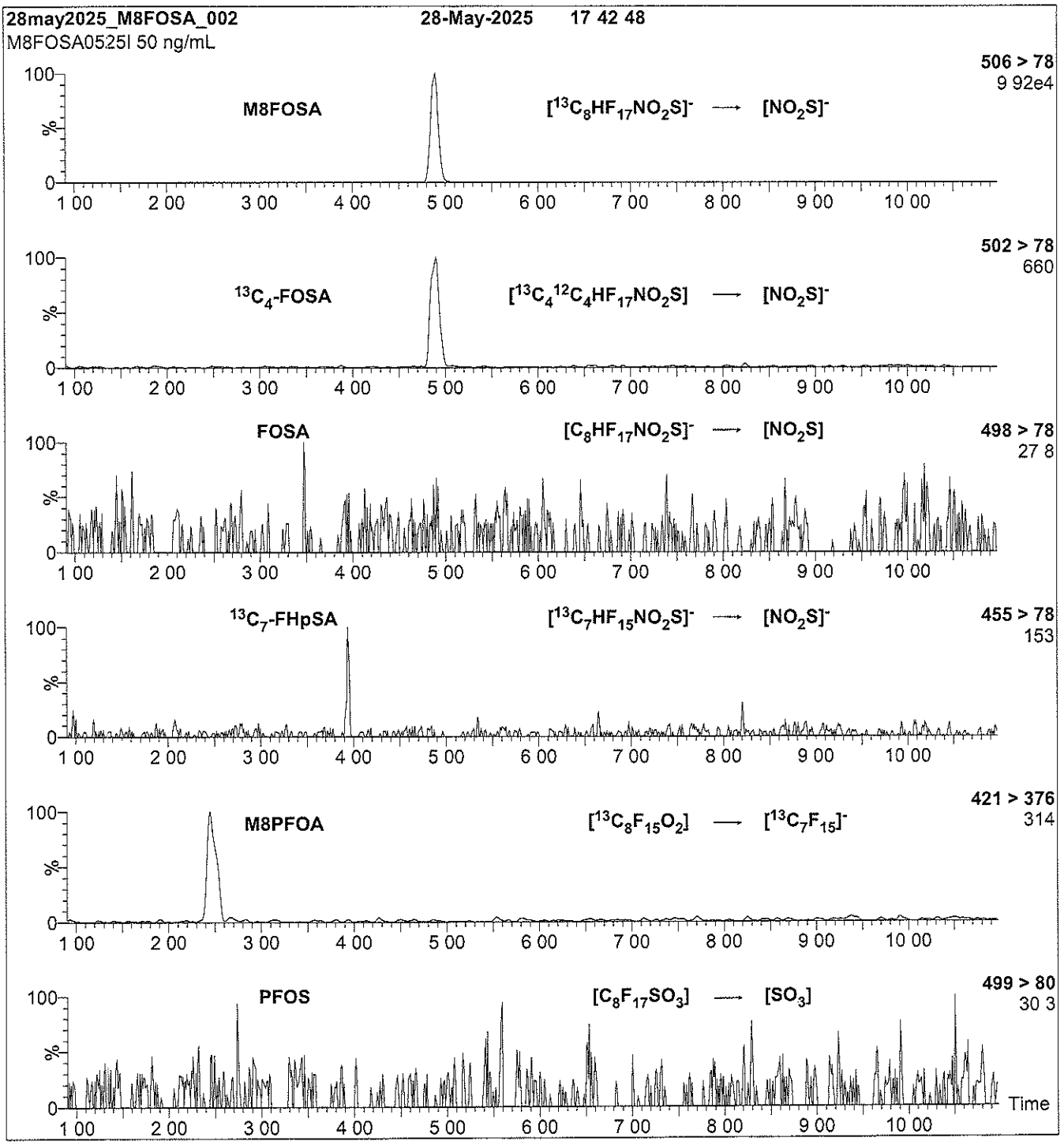
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 1 50
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8FOSA-I, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M8FOSA-I)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.43e-3
Collision Energy (eV) = 30

Reagent

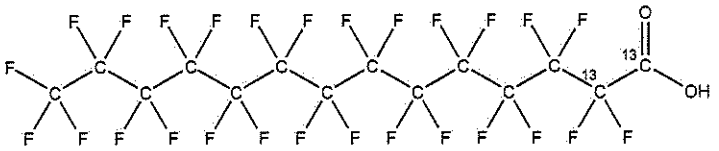
PFC_ST_05014

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC ST 05013, 05014

PRODUCT CODE.	M2PFTeDA	**LOT NUMBER.**	M2PFTeDA0525
COMPOUND.	Perfluoro-n-(1 2- $^{3}C_{2}$)tetradecanoic acid		
STRUCTURE.		**CAS #:**	2708218-82-8



410-8475401

MOLECULAR FORMULA.	$^{13}C_{2}{}^{12}C_{12}HF_{27}O_{2}$	**MOLECULAR WEIGHT:**	716 10
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY.**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	06/05/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/05/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 06/06/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

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HANDLING.

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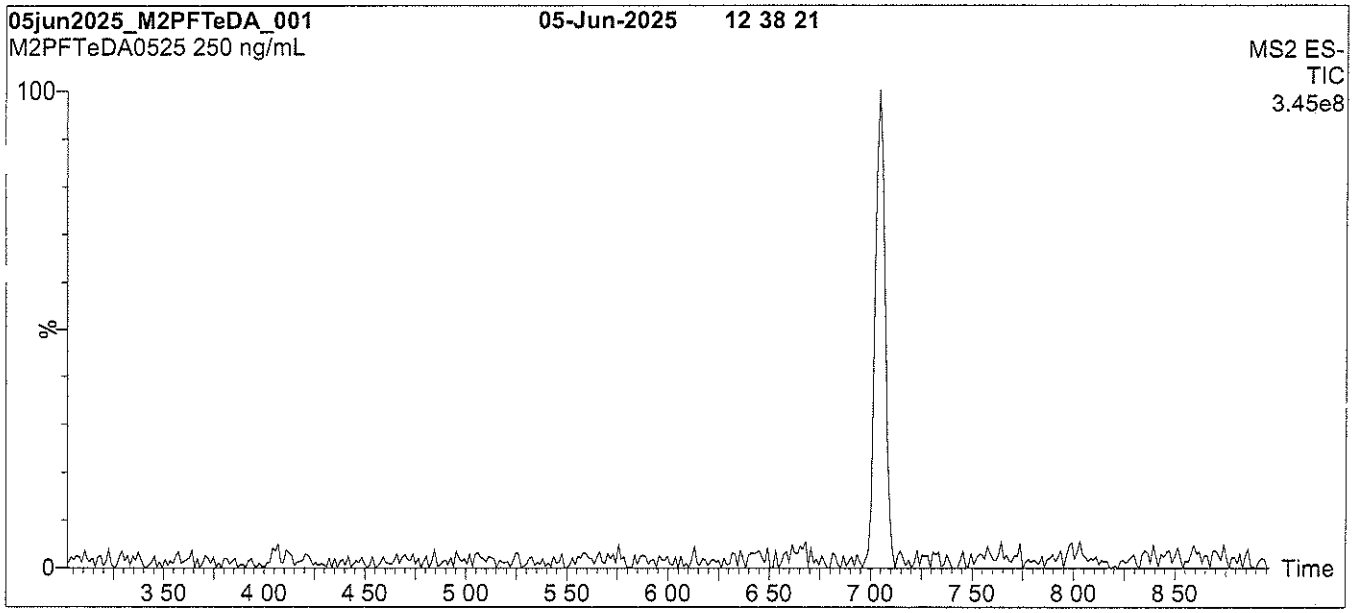
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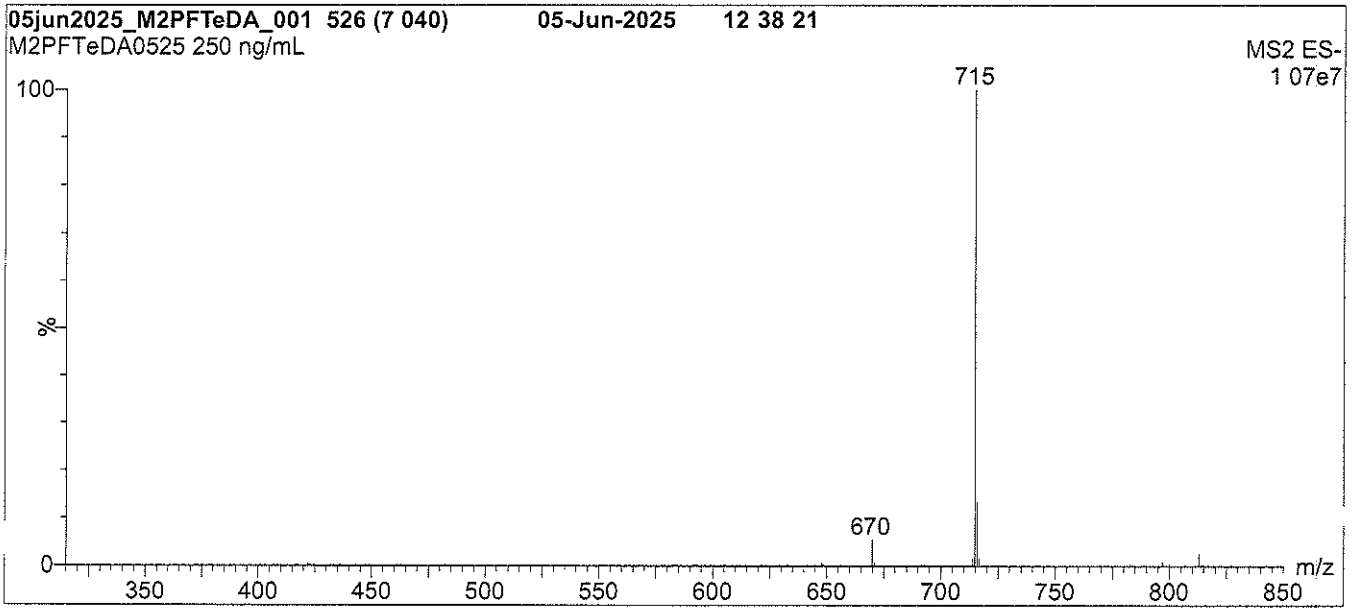
CALA Testing Accreditation No. A 226

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Figure 1. **M2PFTeDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80·20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0 5 min
Time. 12 min

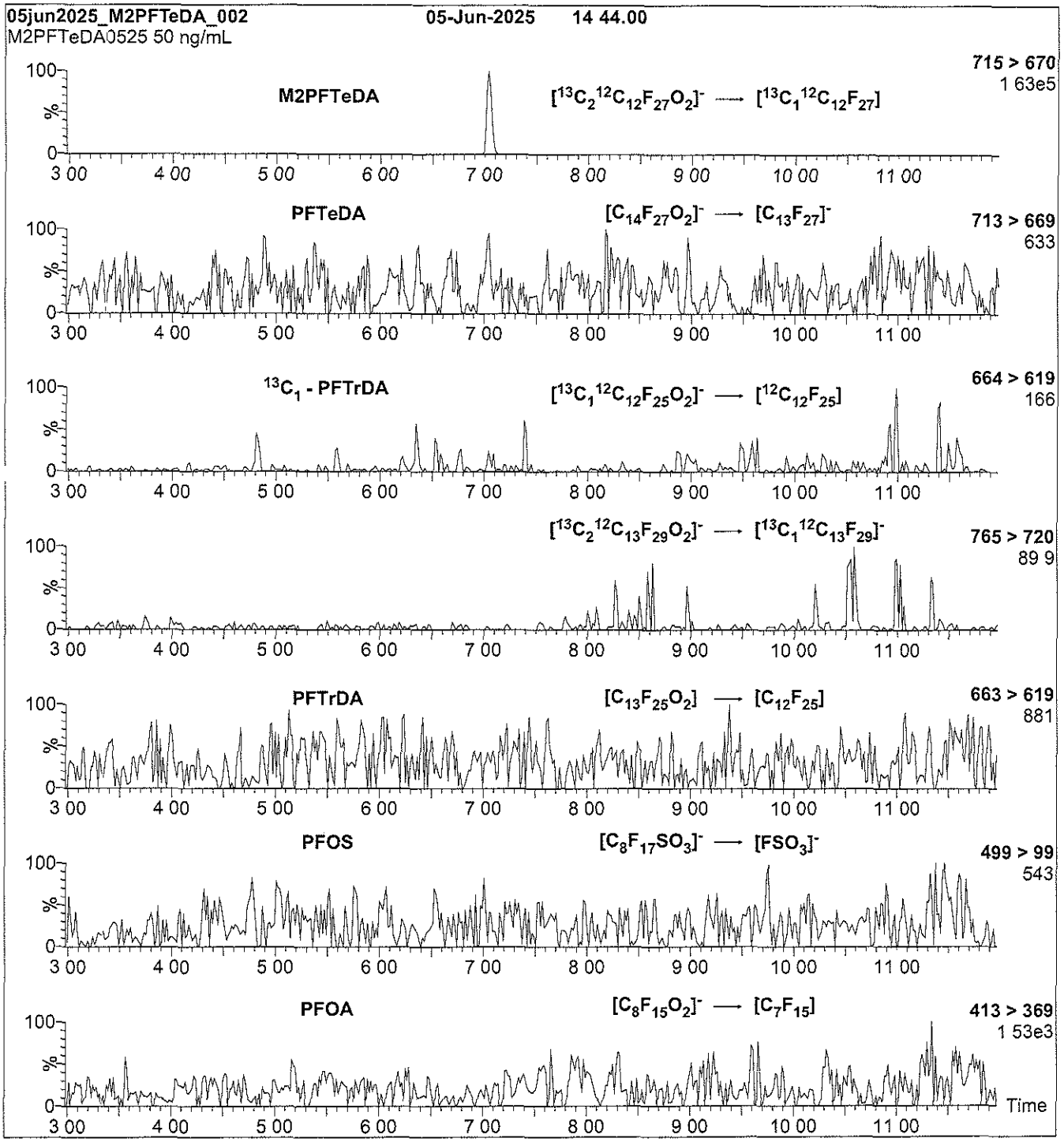
Flow· 300 µL/min

MS Parameters.

Experiment: Full Scan (315 - 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2PFTeDA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M2PFTeDA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3 76e-3
Collision Energy (eV) = 14

Reagent

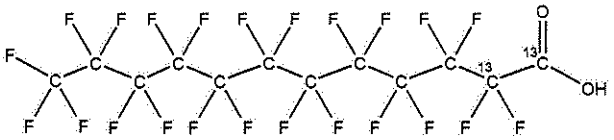
PFC_ST_05016

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC ST 050125, 5010

PRODUCT CODE.	MPFDoA	**LOT NUMBER.**	MPFDoA0525
COMPOUND.	Perfluoro-n-(1 2 $^{13}C_2$)dodecanoic acid		
STRUCTURE.		**CAS #.**	960315-52-0



410-847542

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_{10}HF_{23}O_2$	**MOLECULAR WEIGHT:**	616 08
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	05/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	05/28/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 05/30/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
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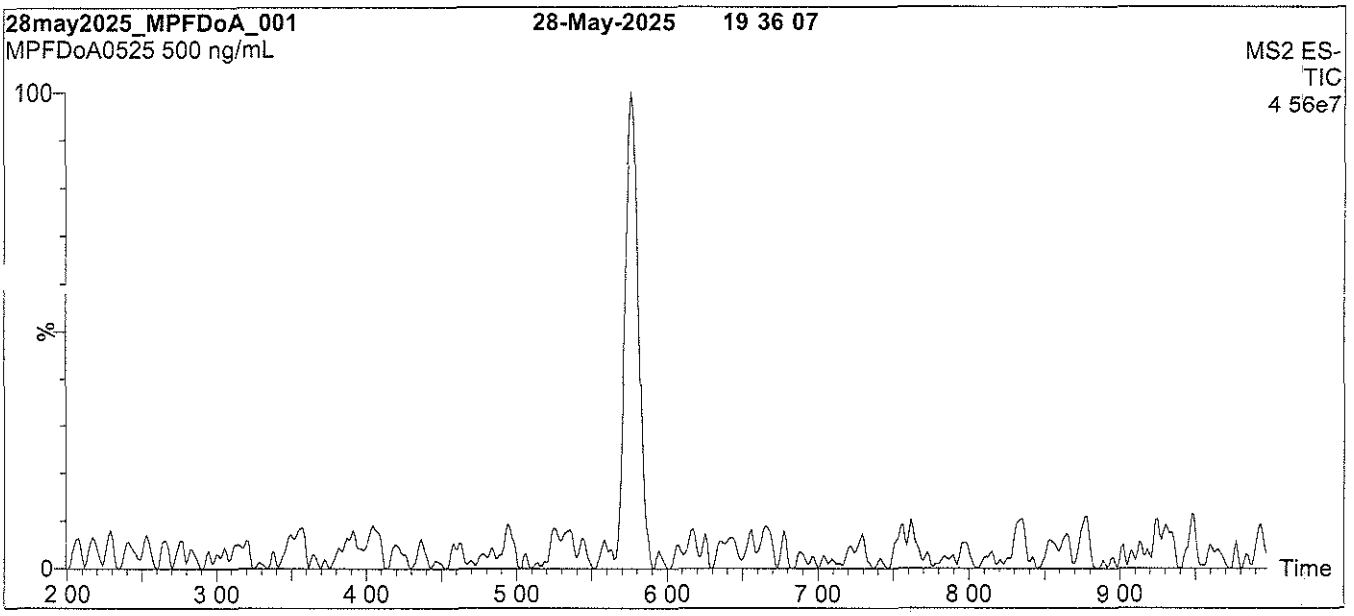
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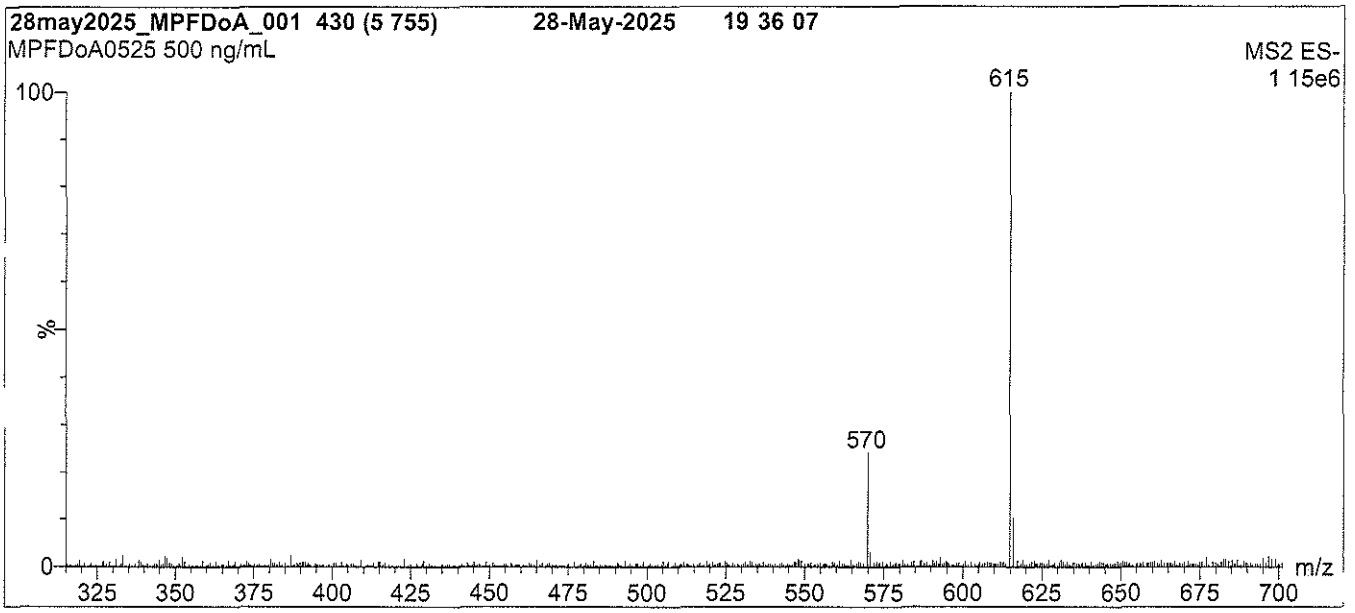
CALA Testing Accreditation No. A 226

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Figure 1. **MPFDoA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

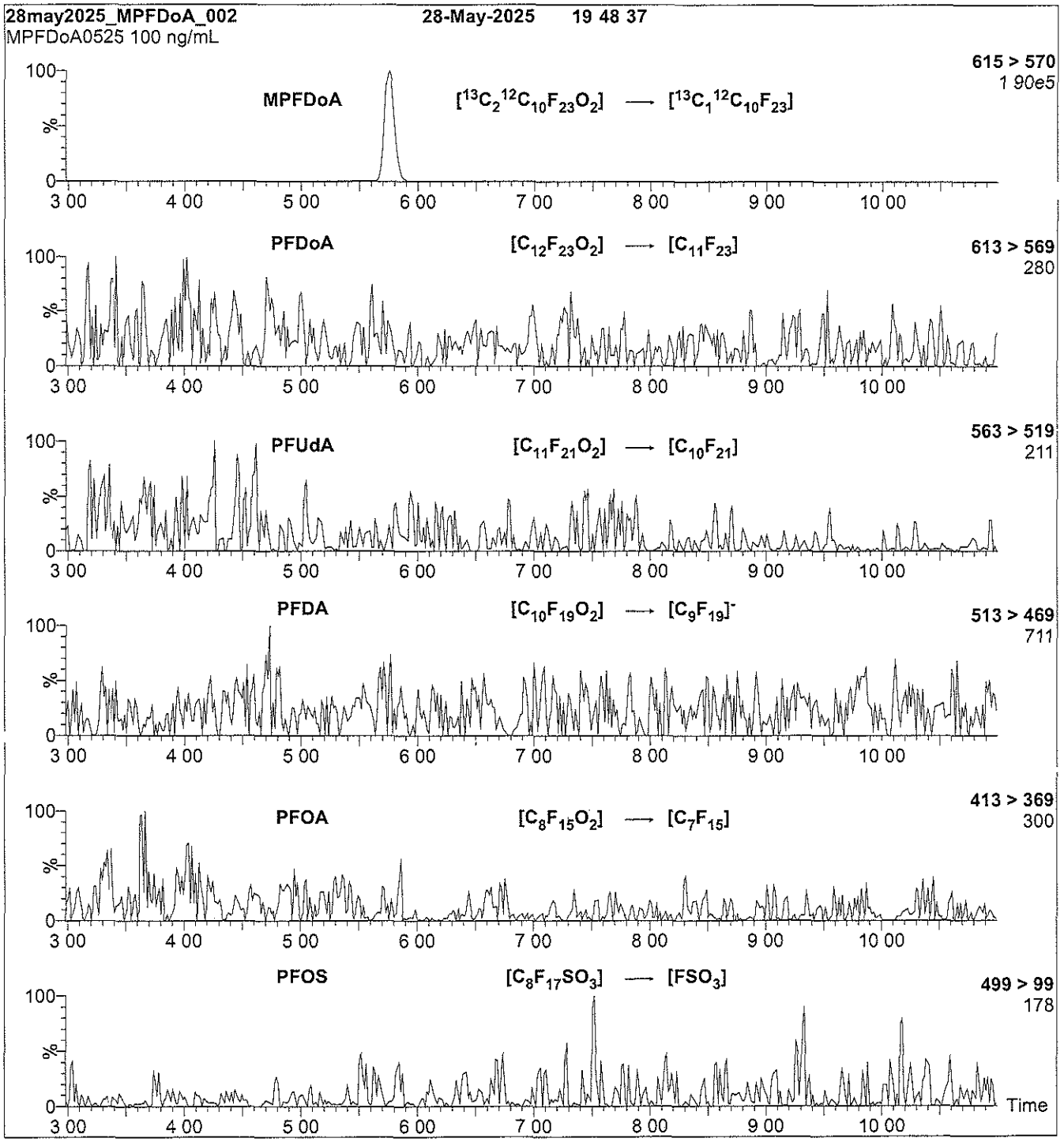
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFDoA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (MPFDoA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.46e-3
Collision Energy (eV) = 12

Reagent

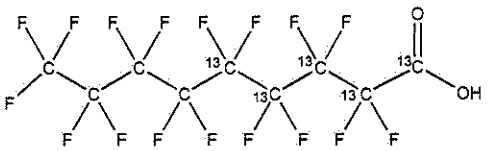
PFC_ST_05025

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC ST 5025 5026

PRODUCT CODE.	MPFNA	**LOT NUMBER.**	MPFNA0425
COMPOUND.	Perfluoro-n-(1 2 3 4 5-$^{13}C_5$)nonanoic acid		
STRUCTURE.		**CAS #.**	960315-49-5



410-8475507

MOLECULAR FORMULA.	$^{13}C_5{}^{12}C_4HF_{17}O_2$	**MOLECULAR WEIGHT:**	469 04
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	04/09/2025		
EXPIRY DATE. (mm/dd/yyyy)	04/09/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

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Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

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- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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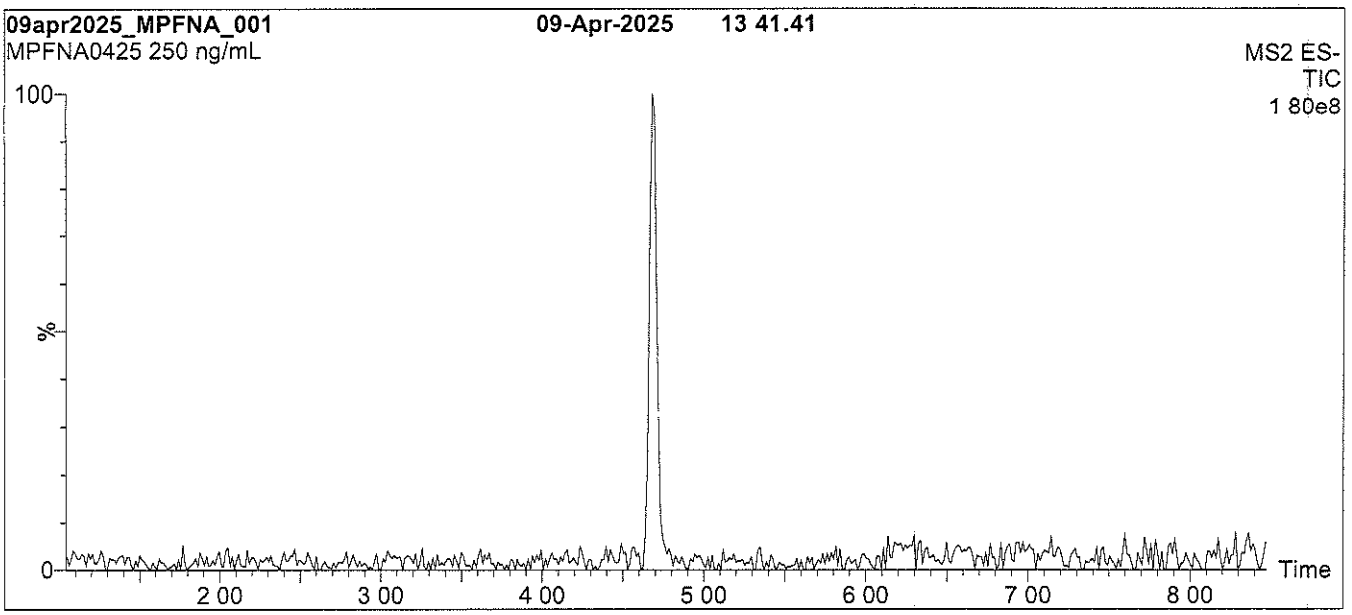
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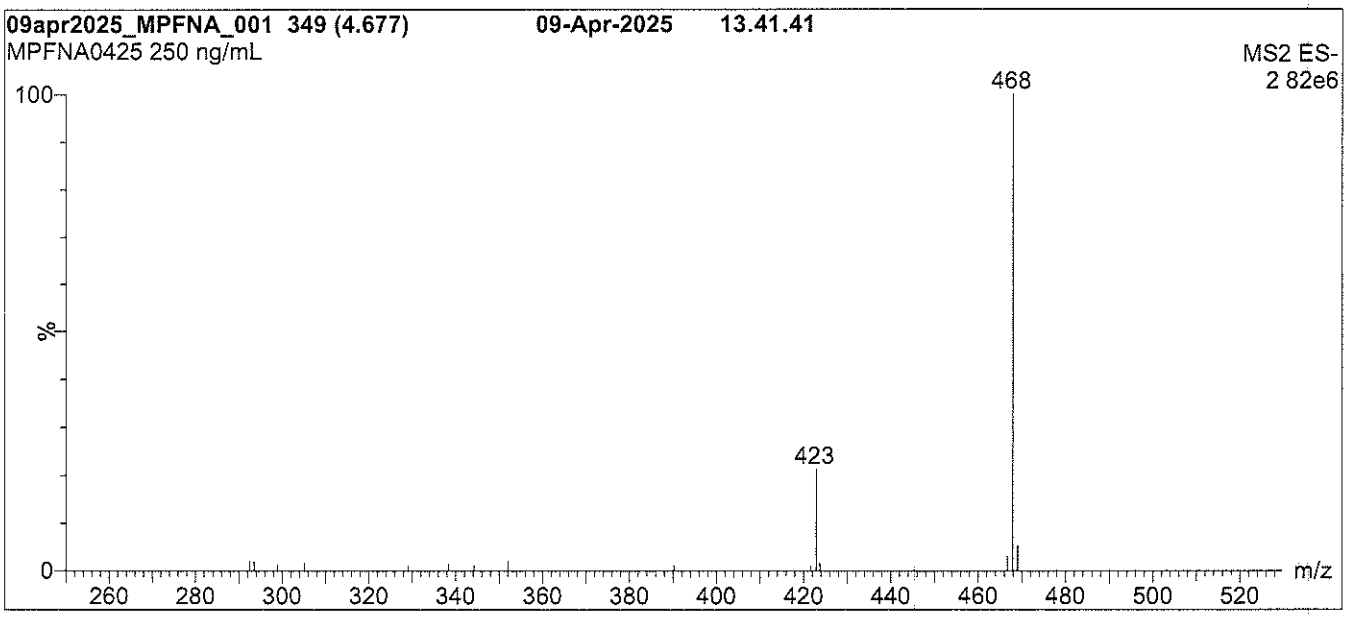
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFNA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

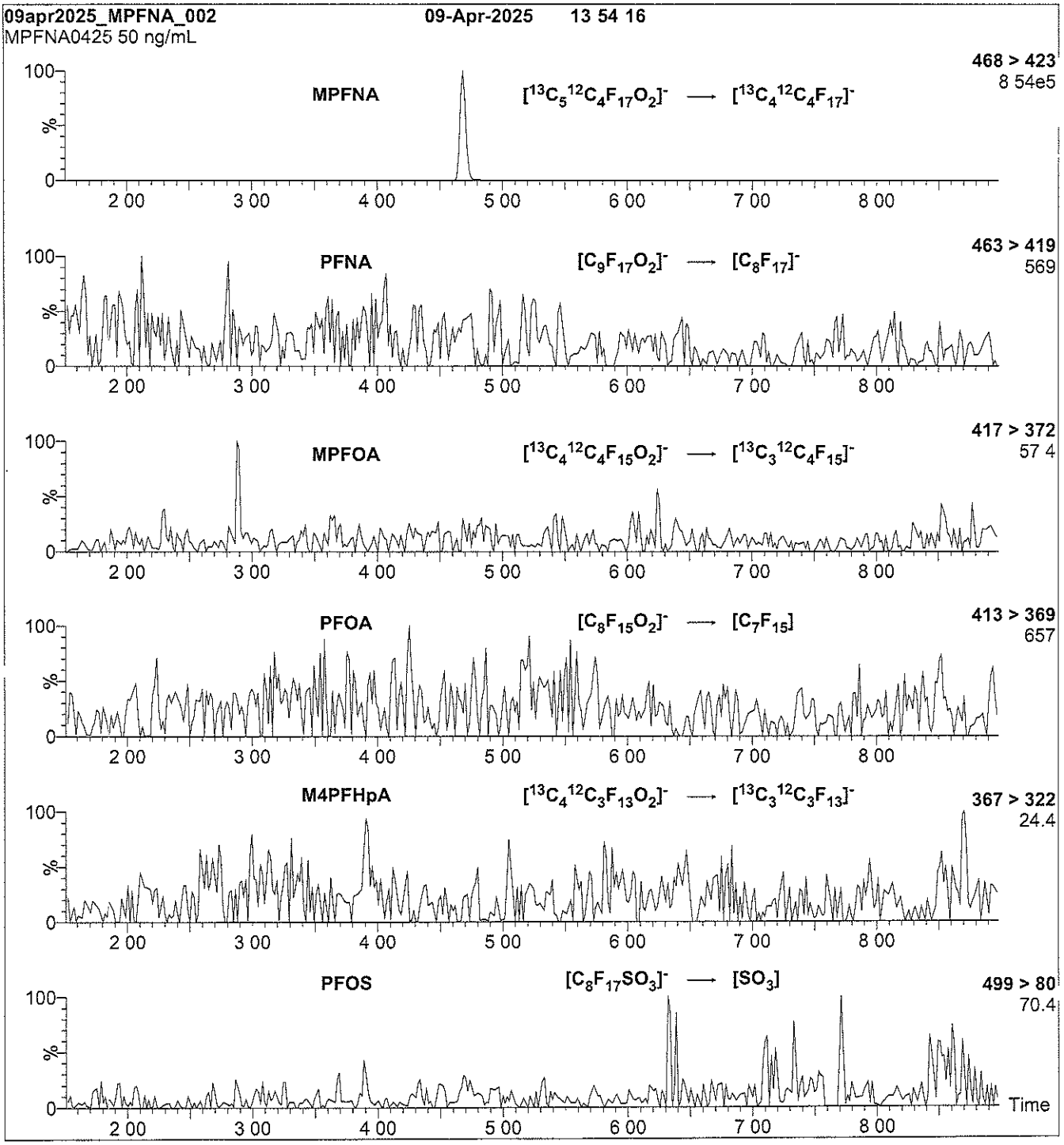
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80.20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time· 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (250 - 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFNA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (MPFNA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5.91e-3
Collision Energy (eV) = 10

Reagent

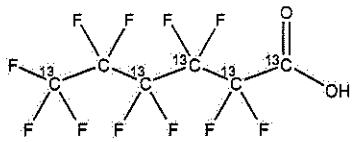
PFC_ST_05037

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

REC ST 5035, 5036, 5037, 5038

PRODUCT CODE.	M5PFHxA	**LOT NUMBER.**	M5PFHxA0925
COMPOUND.	Perfluoro-n-(1 2 3 4 6-$^{13}C_5$)hexanoic acid		
STRUCTURE.		**CAS #.**	2328024-54-8



410-8475562

MOLECULAR FORMULA.	$^{13}C_5{}^{12}C_1HF_{11}O_2$	**MOLECULAR WEIGHT:**	319 02
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	09/15/2025		
EXPIRY DATE. (mm/dd/yyyy)	09/15/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date** 09/16/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY.

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard, they are compared by GC/MS LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x x_2, x_n on which it depends is.

$$u\ (y(x_1\ x\quad x_n)) = \sqrt{\sum^{n} u(y\ x\ )}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

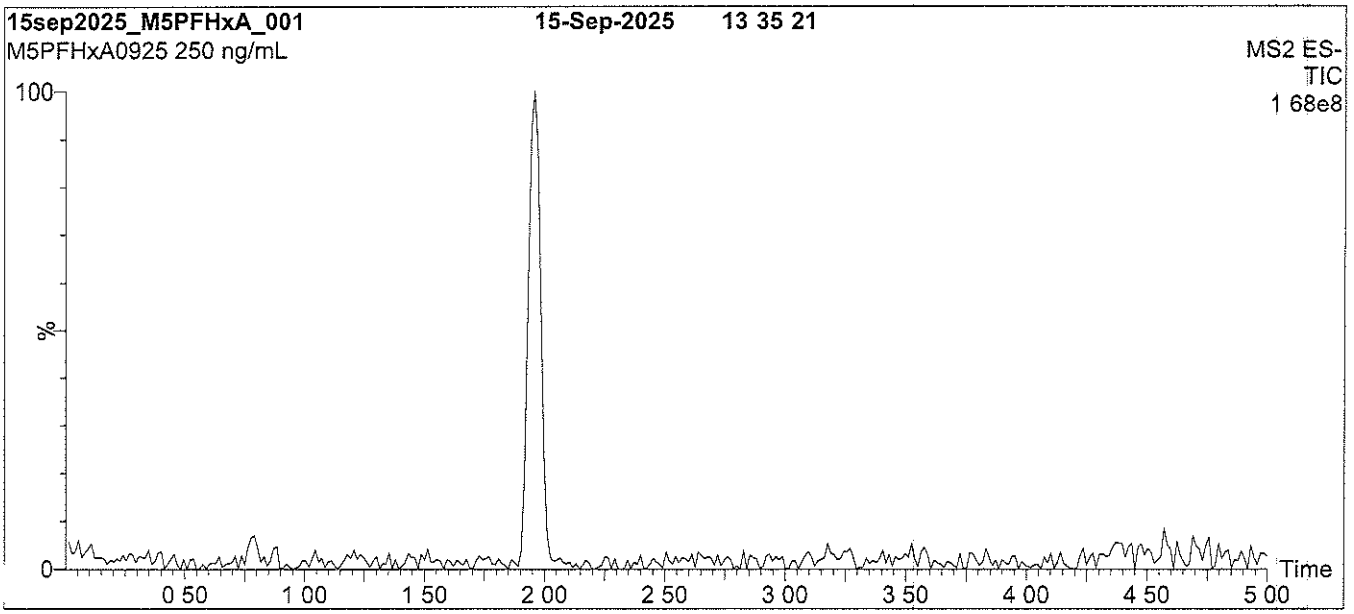
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

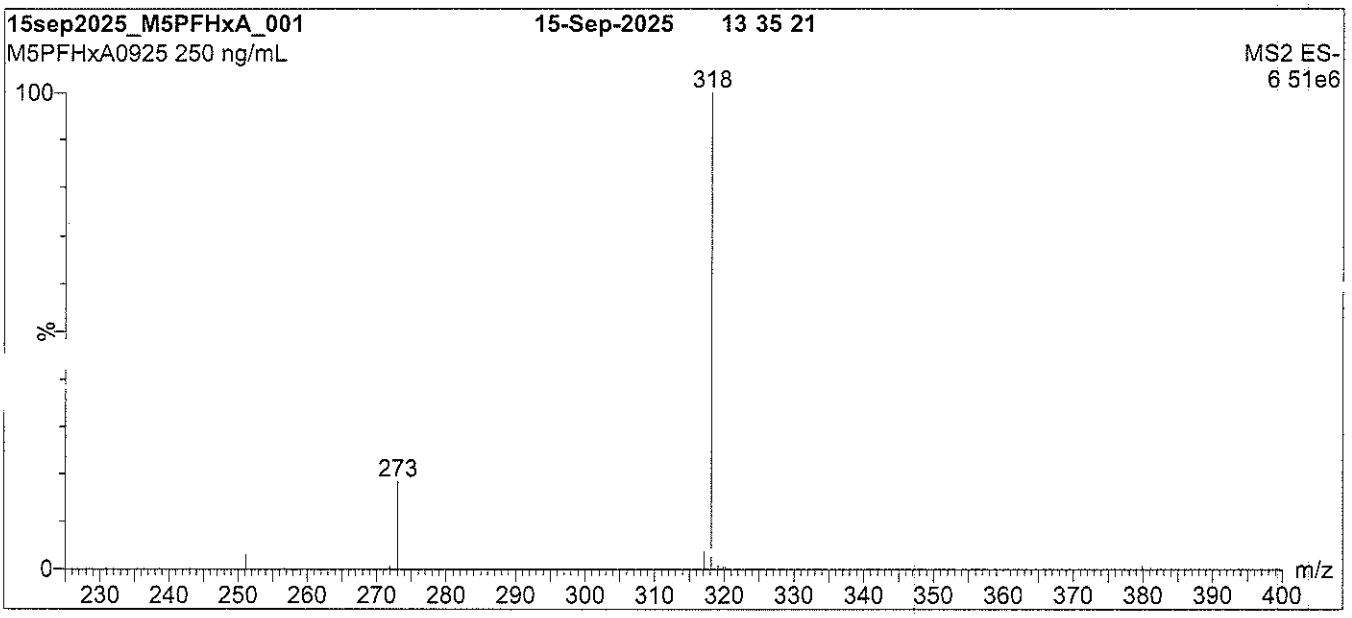
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M5PFHxA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time 12 min

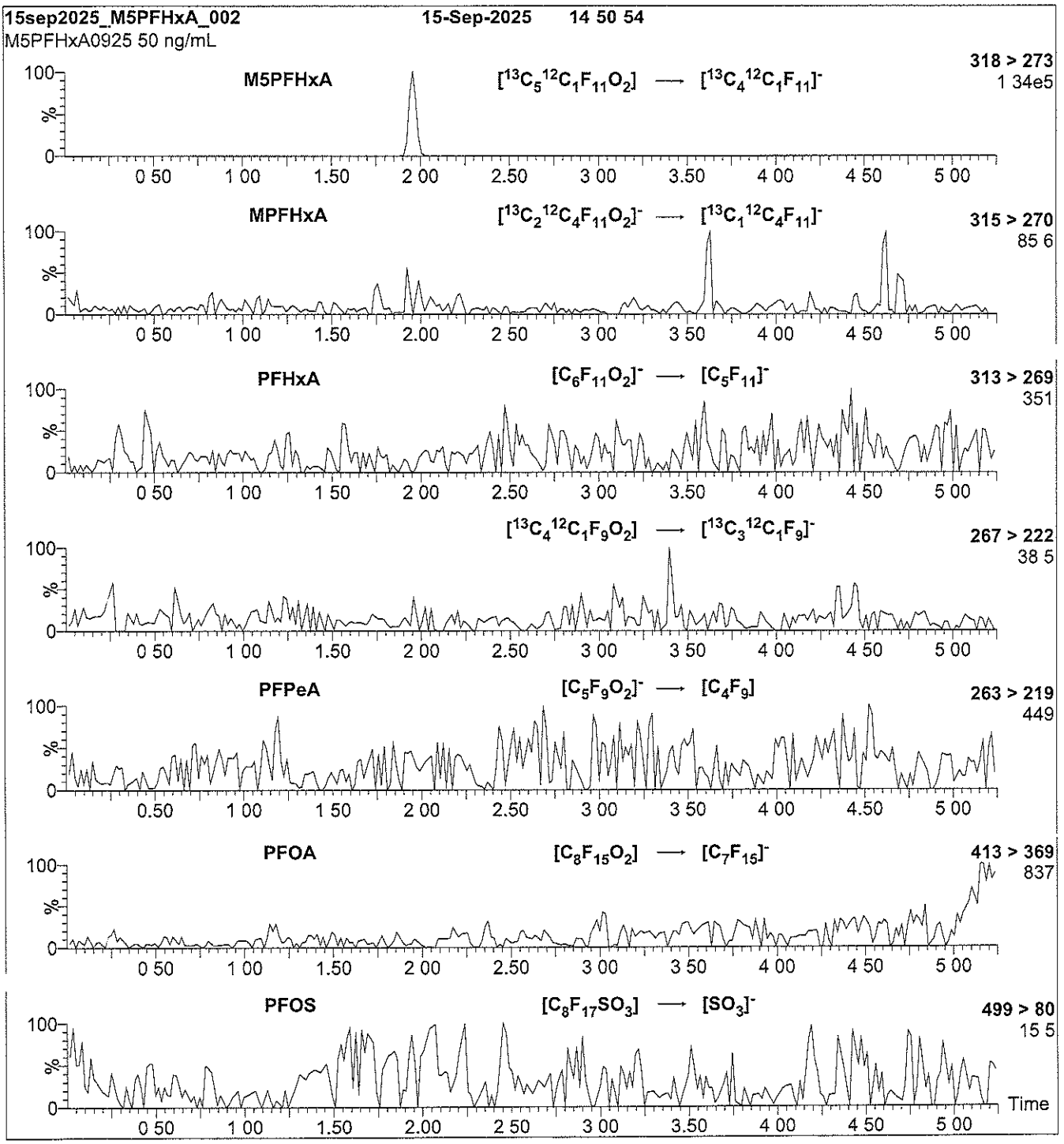
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (225 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M5PFHxA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M5PFHxA)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3 71e-3
Collision Energy (eV) = 8 (318 > 273)

Reagent

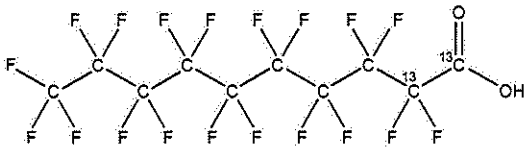
PFC_ST_05044

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC ST 5043, 5044

PRODUCT CODE.	MPFDA	**LOT NUMBER.**	MPFDA1024
COMPOUND.	Perfluoro-n-(1 2-$^{13}C_2$)decanoic acid		
STRUCTURE.		**CAS #:**	960315-50-8



410-8475678

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_8HF_{19}O_2$	**MOLECULAR WEIGHT:**	516 07
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY.**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	10/07/2024		
EXPIRY DATE. (mm/dd/yyyy)	10/07/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 10/17/2024 (mm/dd/yyyy)

B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS, LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is

$$u_c(y(x \quad x \quad x_n)) = \sqrt{\sum^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

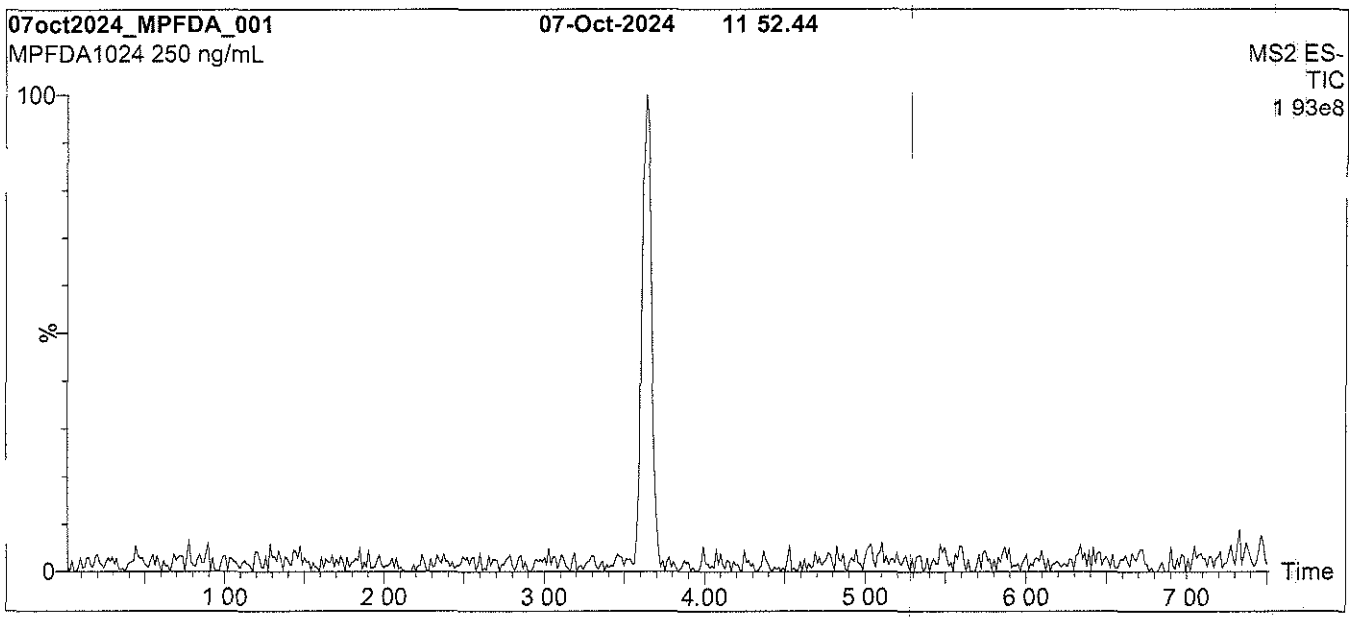
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

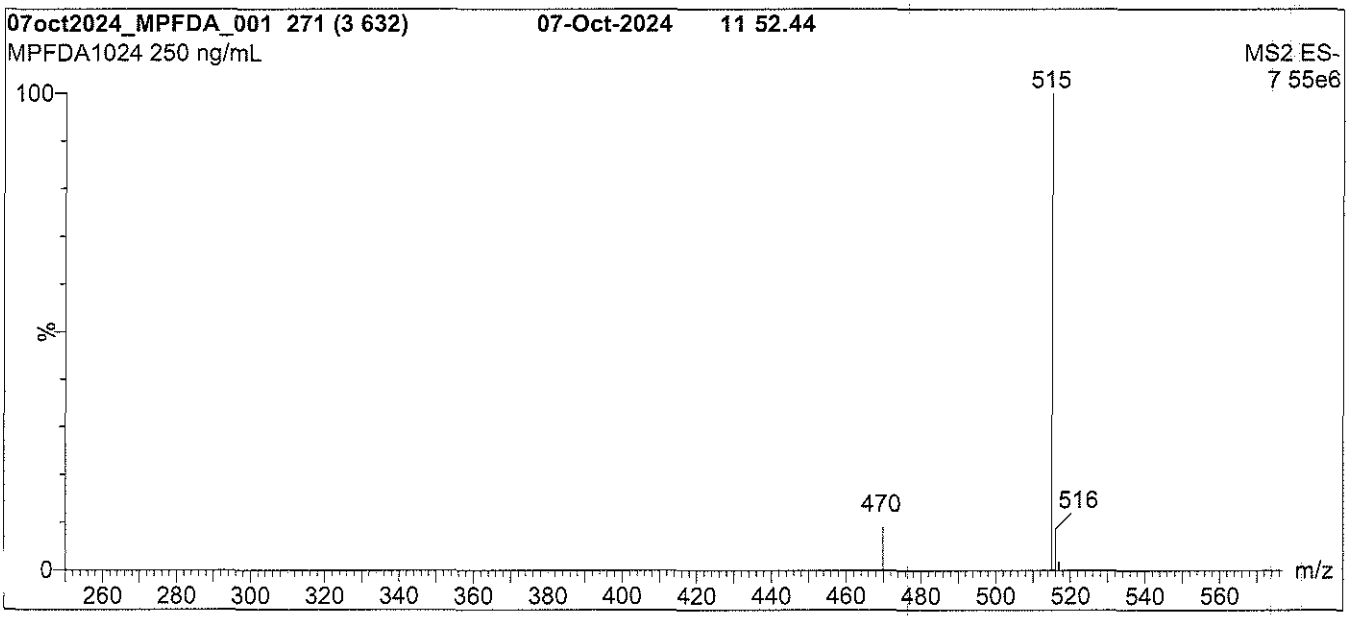
CALA Testing Accreditation No. A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time 12 min

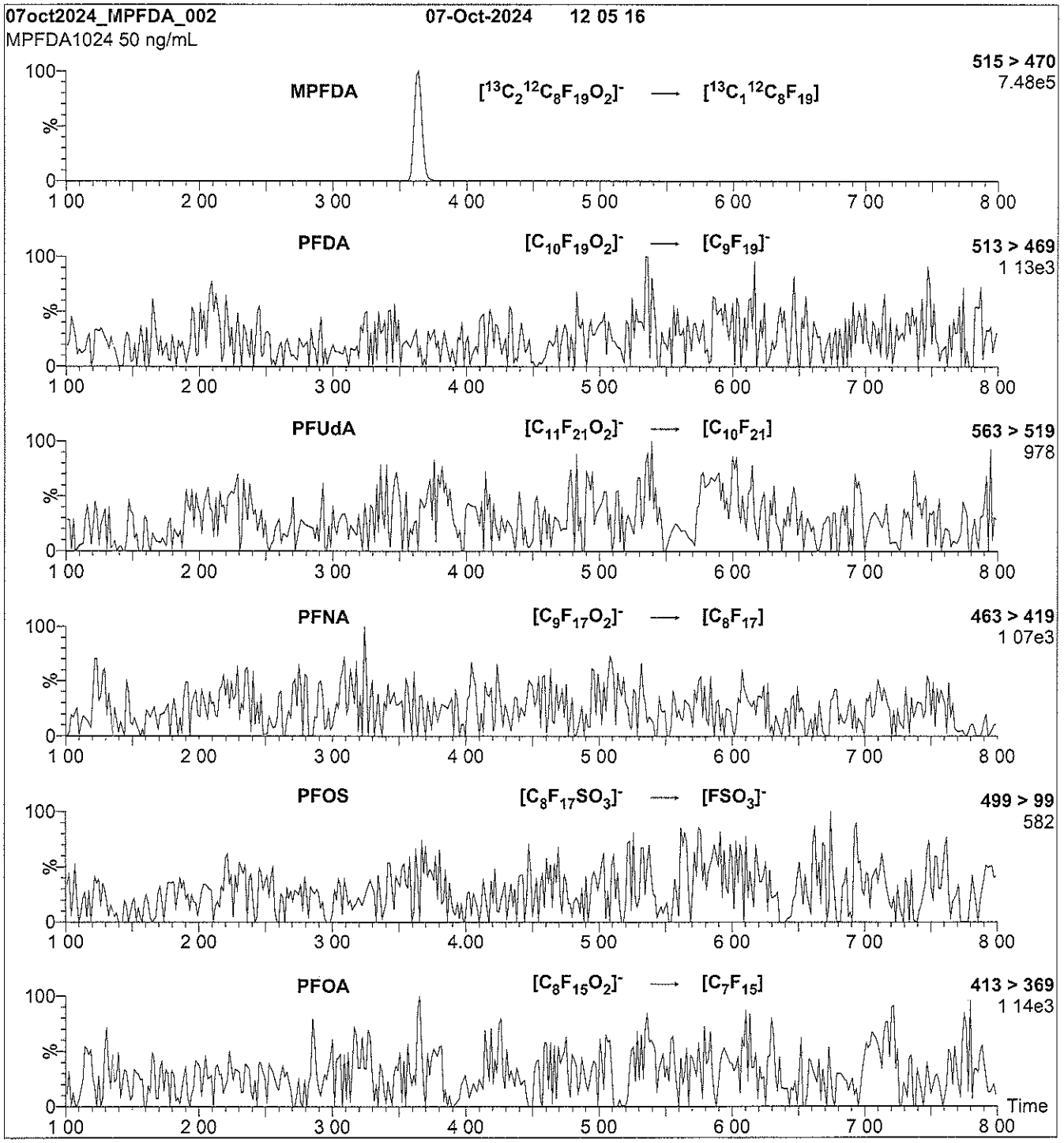
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFDA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (MPFDA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.26e-3
Collision Energy (eV) = 10

Reagent

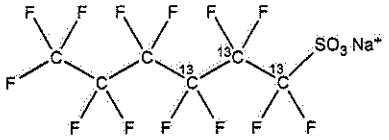
PFC_ST_05059

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFCST 5056, 5057, 5058, 5059, 5060

PRODUCT CODE.	M3PFHxS	**LOT NUMBER.**	M3PFHxS0425
COMPOUND.	Sodium perfluoro-1-(1 2 3-$^{13}C_3$)hexanesulfonate		
STRUCTURE.		**CAS #.**	2708218-86-2



410-8475834

MOLECULAR FORMULA.	$^{13}C_3{}^{12}C_3F_{13}SO_3Na$	**MOLECULAR WEIGHT:**	425 07
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt)	**SOLVENT(S).**	Methanol
	47.4 ± 2.4 µg/mL (M3PFHxS acid)		
	47.3 ± 2.4 µg/mL (M3PFHxS anion)		
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY.**	≥99% ^{3}C
LAST TESTED. (mm/dd/yyyy)	04/23/2025		
EXPIRY DATE. (mm/dd/yyyy)	04/23/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 04/30/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

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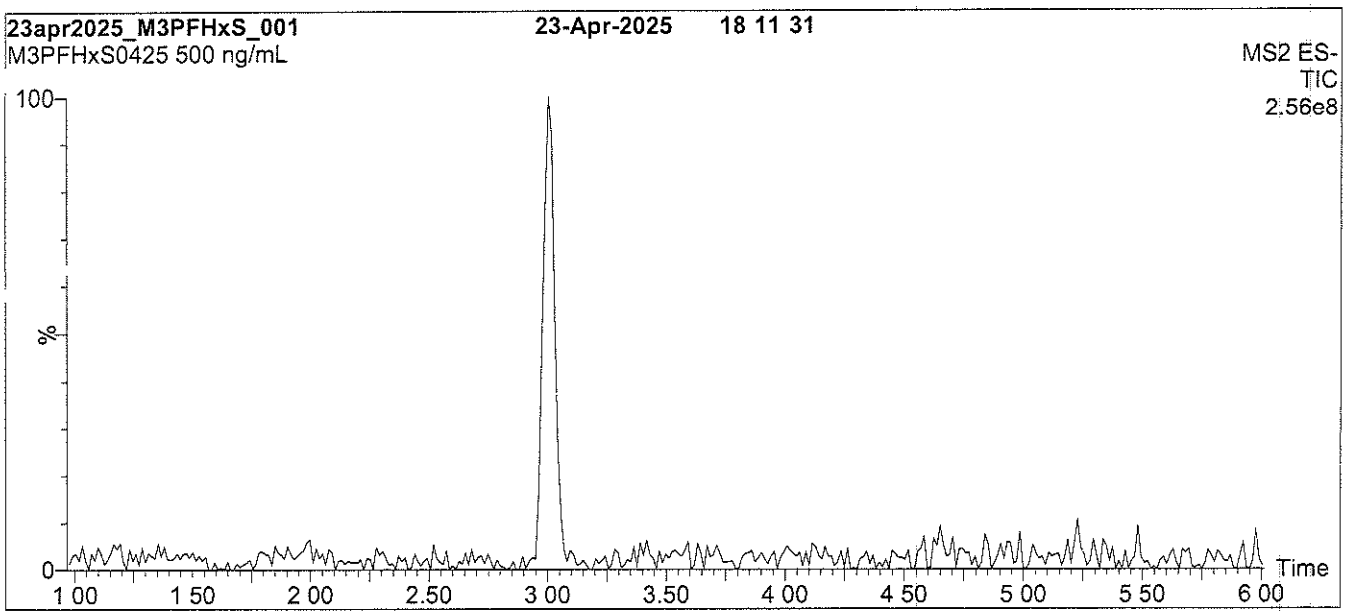
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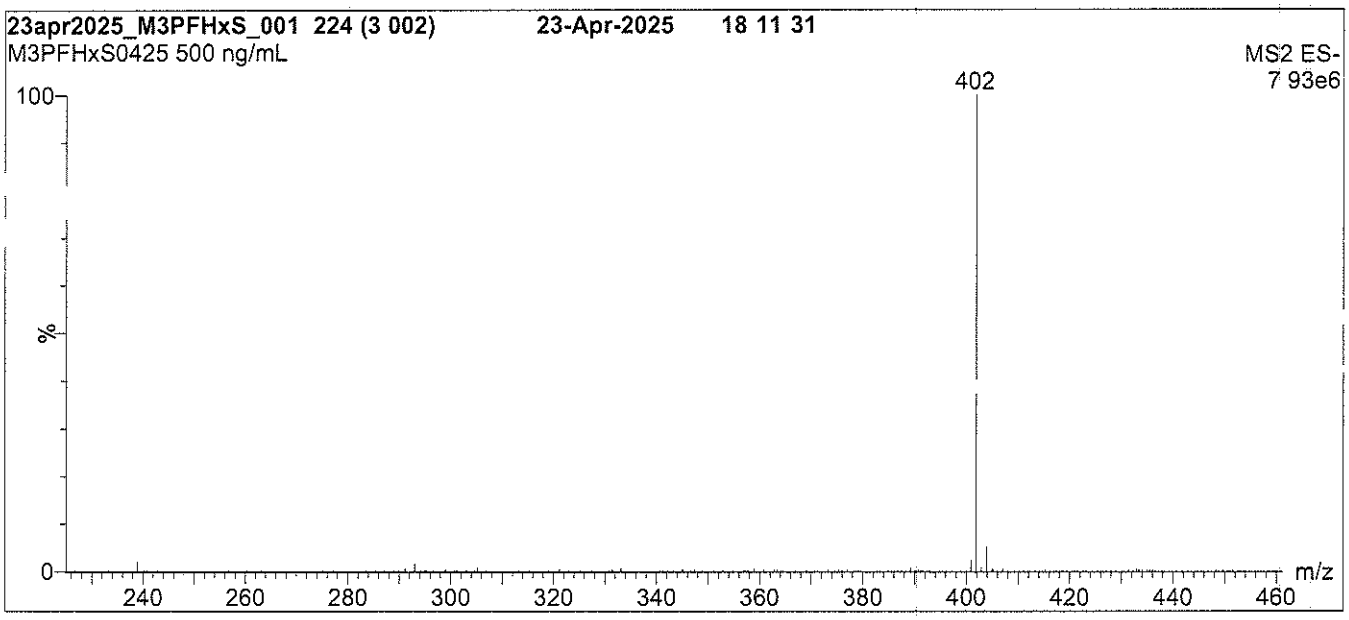
CALA Testing Accreditation No. A 226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M3PFHxS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

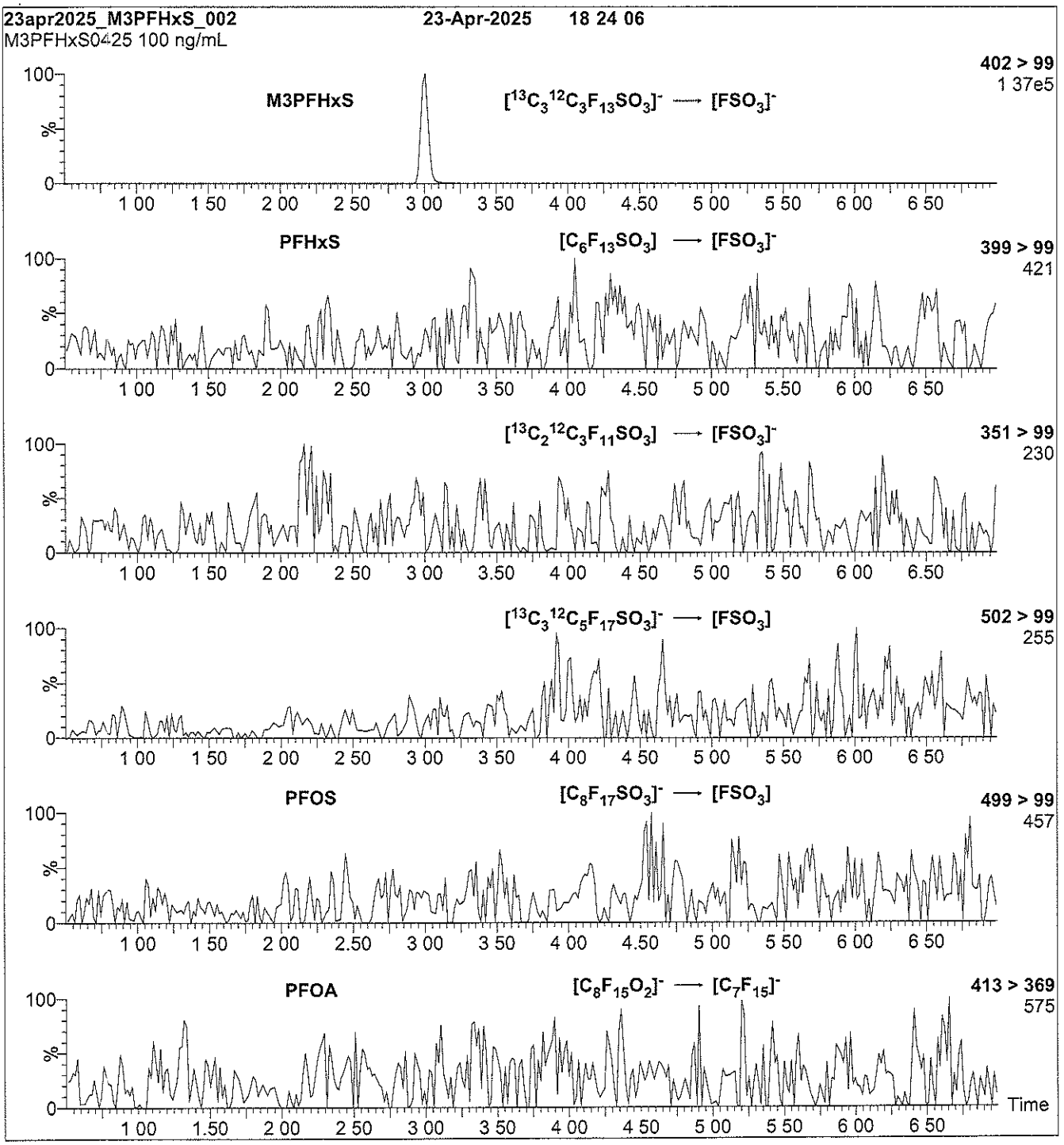
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80:20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0 5 min Time· 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (225 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3PFHxS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M3PFHxS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.31e-3
Collision Energy (eV) = 32

Reagent

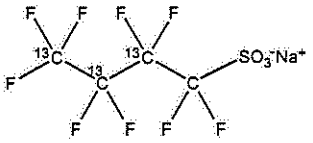
PFC_ST_05061

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFCST 5061, 5062, 5063, 5064, 5065

PRODUCT CODE.	M3PFBS	**LOT NUMBER.**	M3PFBS0825
COMPOUND.	Sodium perfluoro-1-(2 3 4-$^{13}C_3$)butanesulfonate		
STRUCTURE.		**CAS #:**	2708218-84-0



410-8475977

MOLECULAR FORMULA.	$^{13}C_3{}^{12}CF_9SO_3Na$	**MOLECULAR WEIGHT:**	325 06
CONCENTRATION.	50 0 ± 2.5 µg/mL (Na salt) 46 6 ± 2.3 µg/mL (M3PFBS acid) 46.5 ± 2.3 µg/mL (M3PFBS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	08/21/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/21/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 09/03/2025 (mm/dd/yyyy)

B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS, SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard they are compared by GC/MS LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x_1 x_2, x_n on which it depends is.

$$u_c(y(x_1\ x,\quad x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products traceability tc international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

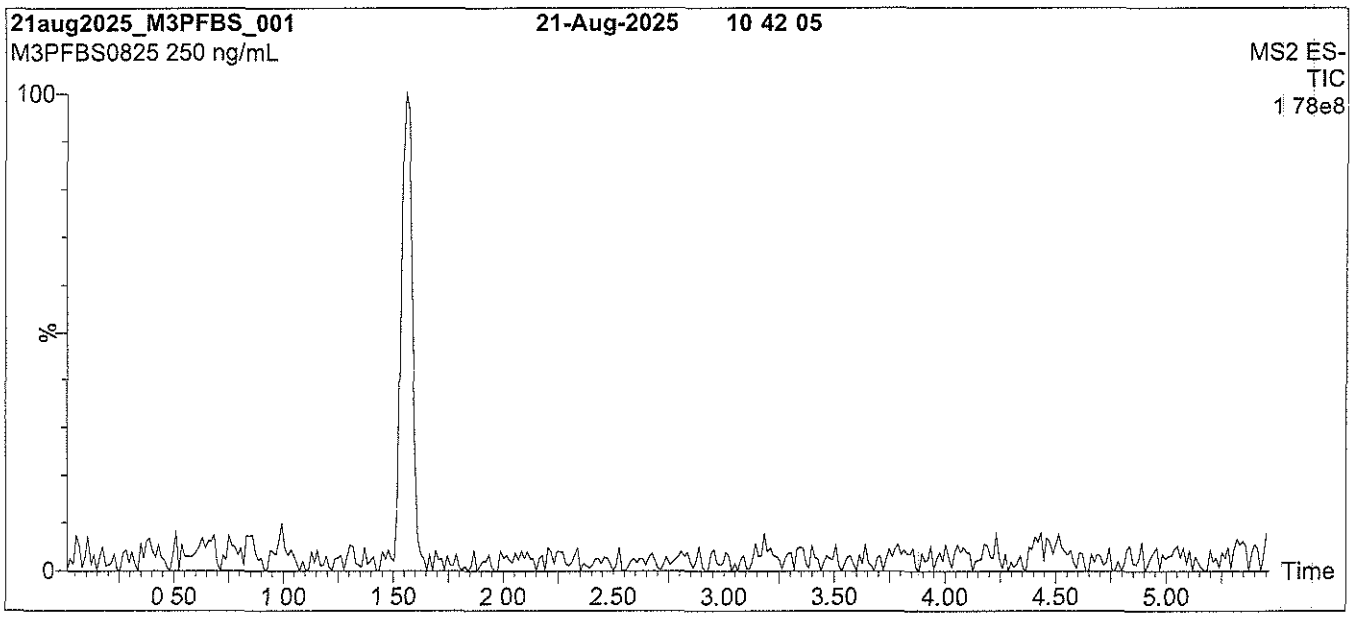
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523)

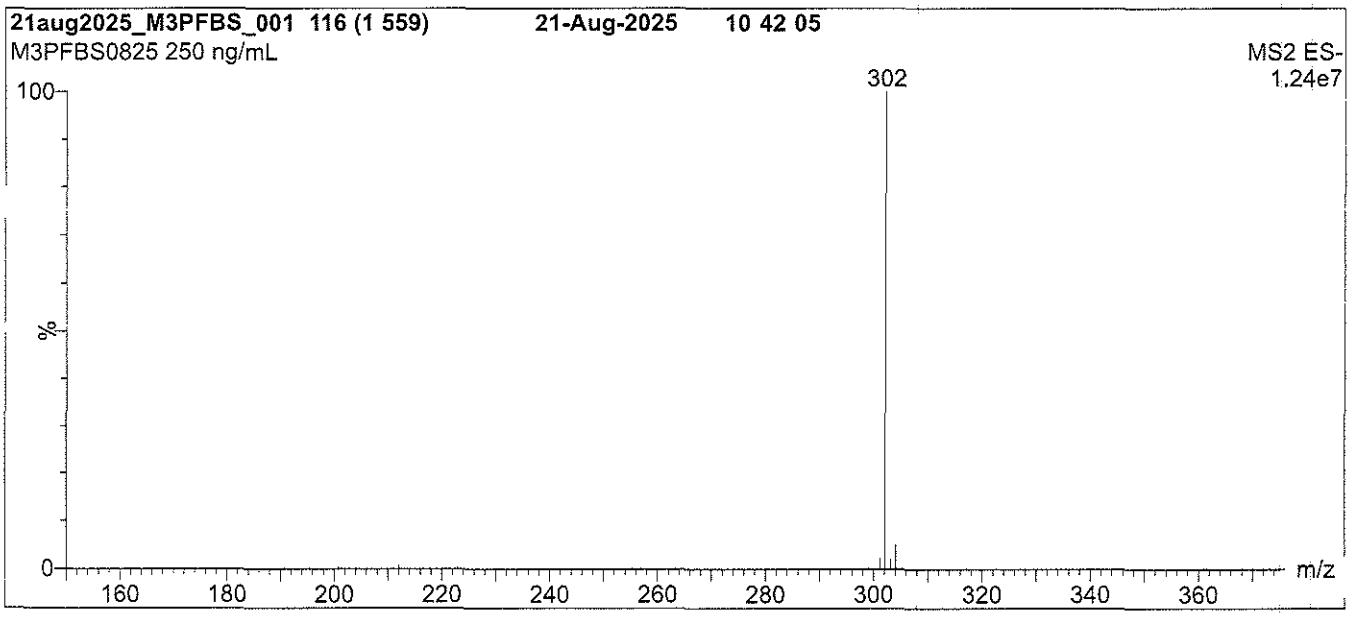
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M3PFBS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80.20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0 5 min
Time 12 min

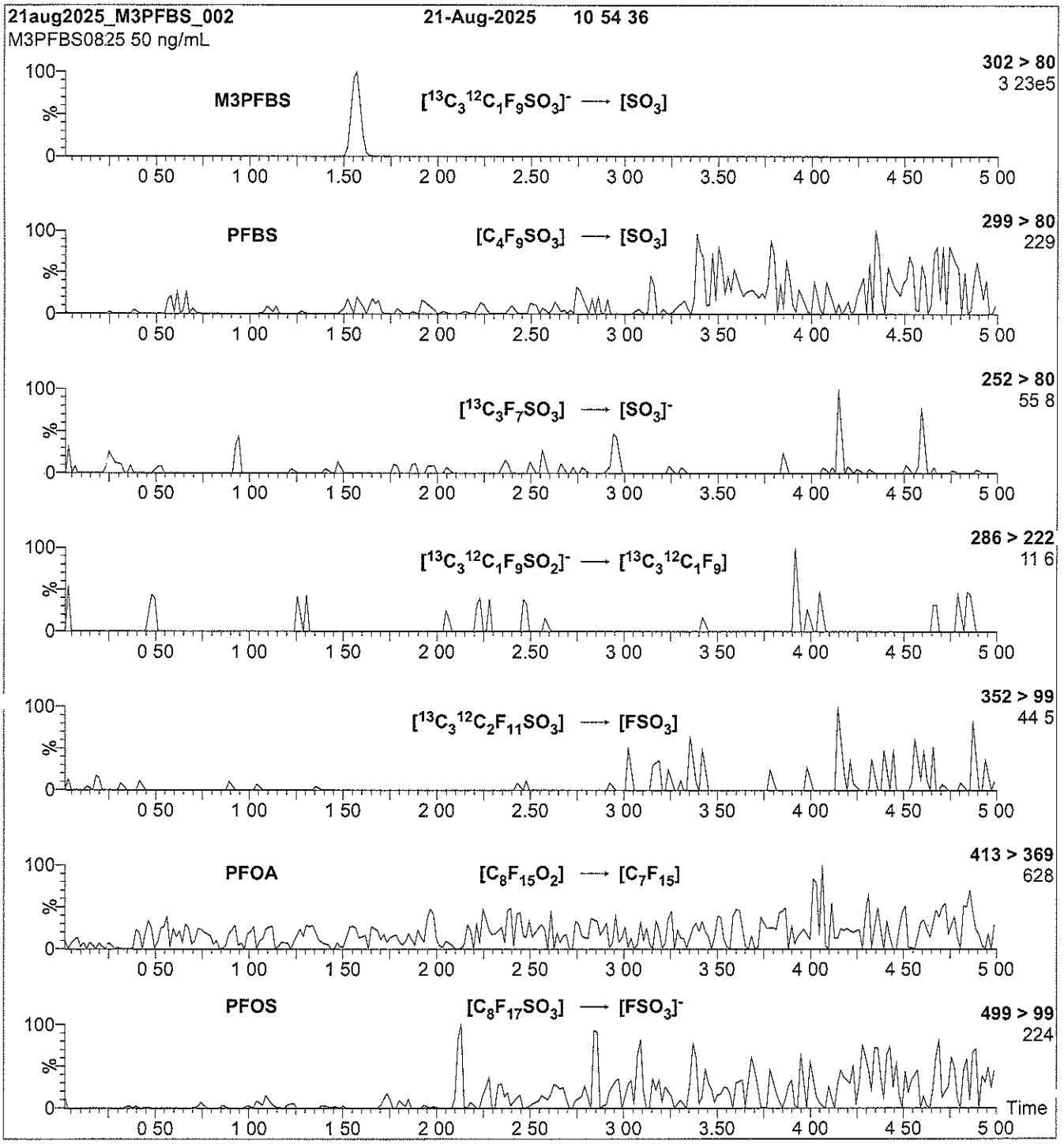
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3PFBS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M3PFBS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 30 (302 > 80)

Reagent

PFC_ST_05074

WELLINGTON LABORATORIES

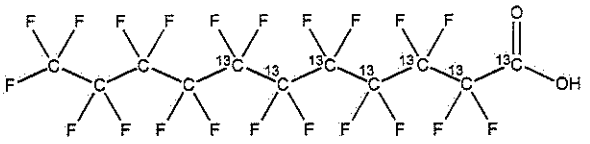
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC ST 5072, 5073, 5074

PRODUCT CODE. M7PFUdA **LOT NUMBER.** M7PFUdA0725

COMPOUND. Perfluoro-n-(1 2 3 4 5 6 7 $^{13}C_7$)undecanoic acid

STRUCTURE. **CAS #:** Not available



410-8476254

MOLECULAR FORMULA.	$^{13}C_7{}^{12}C_4HF_{21}O_2$	**MOLECULAR WEIGHT:**	571 04
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	07/18/2025		
EXPIRY DATE. (mm/dd/yyyy)	07/18/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~0 3% of perfluoro-n-(1 2 3 4 5 6-$^{13}C_6$)decanoic acid (M6PFDA)

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 07/23/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is.

$$u_c(y(x_1\ x_2\ \ x_n)) = \sqrt{\sum^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

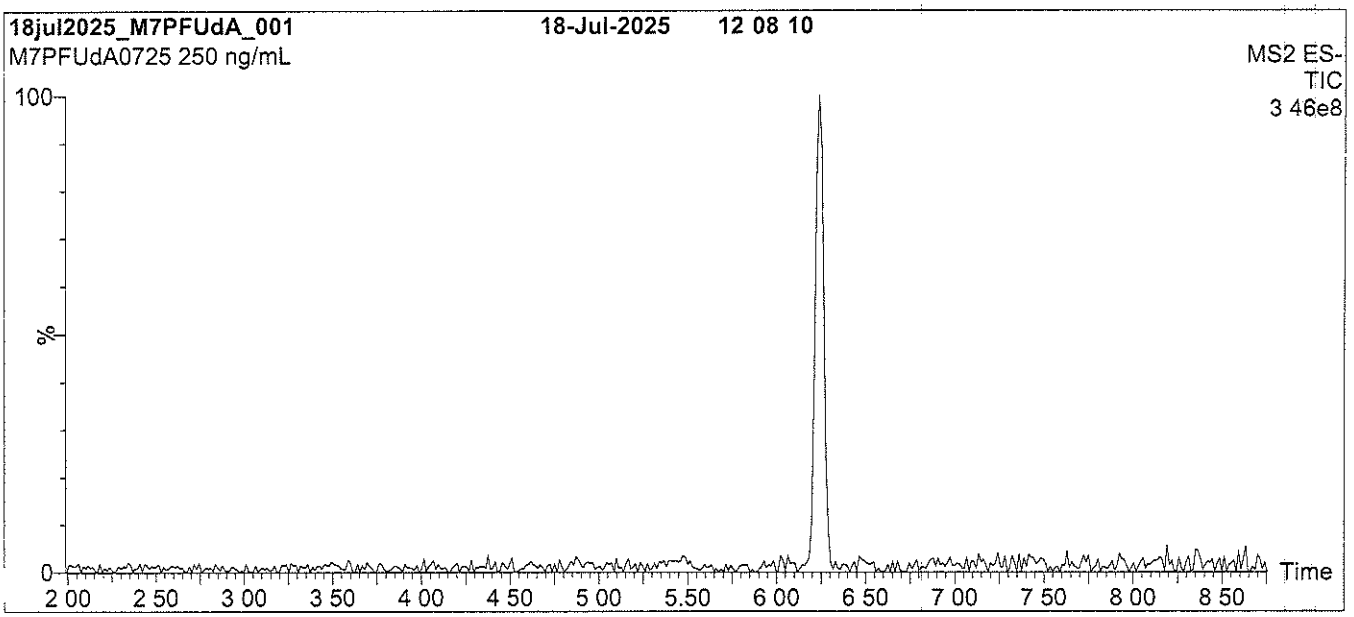
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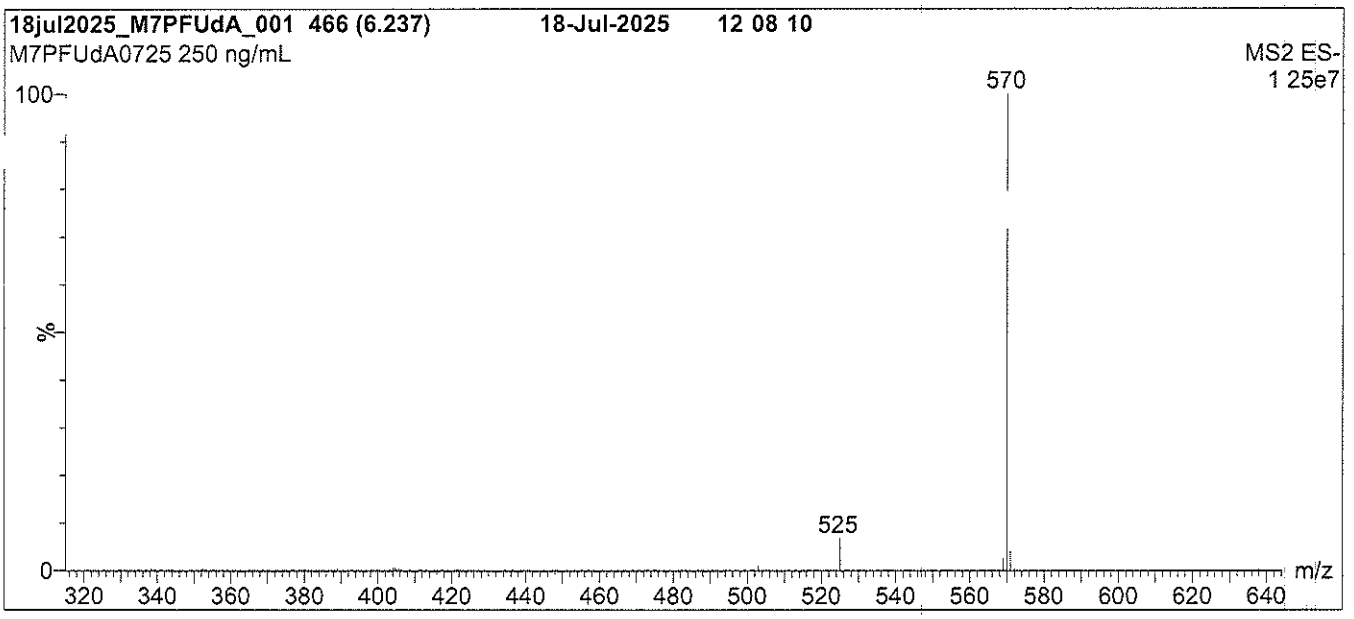
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M7PFUdA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

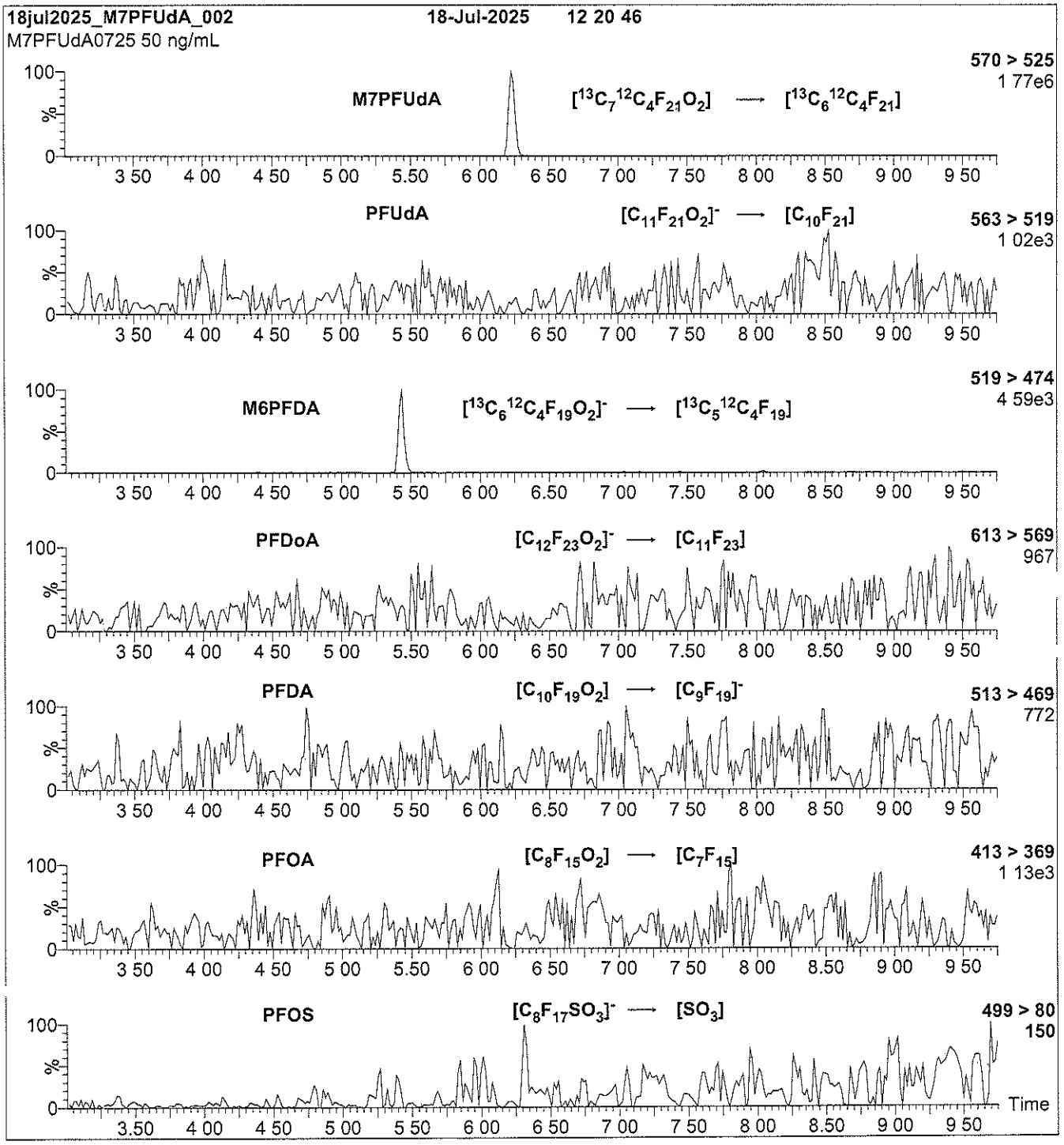
Column	Acquity UPLC BEH Shield RP $_6$ 1 7 µm 2.1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80 20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (250 - 850 amu)

Source. Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M7PFUdA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M7PFUdA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.49e-3
Collision Energy (eV) = 12

Reagent

PFC_ST_05078

10

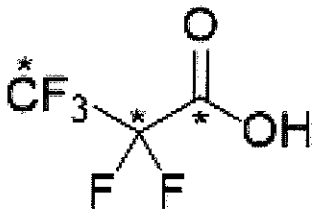
Cambridge Isotope Laboratories, Inc.

50 Frontage Road
Andover MA 01810 USA

PFC_ST_ 5078, 5079, 5080, 5081, 5082, 5083, 5084, 5085, 5086, 5087

Certificate of Analysis

Perfluoropropanoic acid (PFPrA) ($^{13}C_3$,99%) 50 µg/mL in MeOH w/4 molar equivalents NaOH



Catalog #:	CLM 11324-A-S
Batch #:	**B003784**
Chemical Formula.	*C3HF5O2
Molecular Weight:	167 01
Labeled CAS #:	NA
Unlabeled CAS #:	422-64-0
Manufacture Date:	4/9/2025
Retest Date:	4/8/2030

410-8489406

Storage: Store at room temperature away from light and moisture.

Intended Use: For Research Use Only Not for use in diagnostic procedures.

Quality Control Tests and Results

Test	Specification	Result
Concentration Based on Gravimetry	50 ± 5 µg/mL	50.0 ± 0.4 µg/mL, (k=2)

Certification

- Cambridge Isotope Laboratories, Inc. certifies that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible. Results are representative of QC testing at time of release from Quality Control unless otherwise stated. The COA also applies to the CIL finished good catalog number Some possible packaging sizes and their corresponding suffix are 1.2, 1, -0 5 10, or -0 1 The expiration date is valid only for unopened vials or ampoules that have been stored as recommended. CIL Certificates of Analysis are occasionally updated with new data following recertification. We recommend checking the website for the latest version.
- Gravimetric concentrations are compensated for the measured Chemical Purity of the neat material. Gravimetry is traceable to the NIST through calibrated balances and certified, calibrated, standard weights. The calibrations are traceable to the SI through NIST The calibrations also meet specifications outlined in ISO 17034, ISO/IEC 17025 and applicable subdocuments.
- For compounds that are enriched at 2 or more sites within the molecule, the value given for isotopic enrichment will be different from the percent species abundance of the fully enriched molecule. To learn more about isotopic enrichment and species abundance, please visit https.//isotope.com/en-us/enrichment.
- Concentration is verified through multiple analysis and is calculated as the average of the multiple analysis compared to an independently prepared calibration solution. The calculation and reporting of uncertainty conforms to the practices outlined in the Eurachem/CITAC Guide. 'Quantifying Uncertainty in Analytical Measurement' Second Edition.

Marina Klionsky
Quality Review

Date: 4/23/2025

Revision 1

Reagent

PFC_ST_05086

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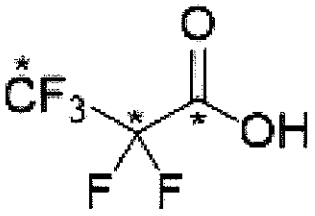
Cambridge Isotope Laboratories, Inc.

50 Frontage Road
Andover MA 01810 USA

PFC_ST_ 5078, 5079, 5080, 5081, 5082, 5083, 5084, 5085, 5086, 5087

Certificate of Analysis

Perfluoropropanoic acid (PFPrA) ($^{13}C_3$,99%) 50 µg/mL in MeOH w/4 molar equivalents NaOH



Catalog #:	CLM-11324-A-S
Batch #:	**B003784**
Chemical Formula.	*C3HF5O2
Molecular Weight:	167.01
Labeled CAS #:	NA
Unlabeled CAS #:	422-64-0
Manufacture Date:	4/9/2025
Retest Date:	4/8/2030

410-8489416

Storage: Store at room temperature away from light and moisture.

Intended Use: For Research Use Only Not for use in diagnostic procedures.

Quality Control Tests and Results

Test	Specification	Result
Concentration Based on Gravimetry	50 ± 5 µg/mL	50.0 ± 0.4 µg/mL, (k=2)

Certification

- Cambridge Isotope Laboratories, Inc. certifies that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible. Results are representative of QC testing at time of release from Quality Control unless otherwise stated. The COA also applies to the CIL finished good catalog number Some possible packaging sizes and their corresponding suffix are 1.2, 1, -0 5, 10, or -0 1 The expiration date is valid only for unopened vials or ampoules that have been stored as recommended. CIL Certificates of Analysis are occasionally updated with new data following recertification. We recommend checking the website for the latest version.
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Marina Klionsky
Quality Review

Date: 4/23/2025

Revision 1

Reagent

PFC_ST_05090

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

EPA-1633STK

410-8533958

U.S. EPA Method 1633
Native PFAS Stock Solution/Mixture

PRODUCT CODE.	EPA-1633STK
LOT NUMBER.	1633STK0625
SOLVENT(S).	Methanol/Isopropanol (0 5%)/Water (<1%)
DATE PREPARED. (mm/dd/yyyy)	06/06/2025
LAST TESTED. (mm/dd/yyyy)	06/11/2025
EXPIRY DATE. (mm/dd/yyyy)	06/11/2029
RECOMMENDED STORAGE.	Refrigerate ampoule

DESCRIPTION.

EPA-1633STK is a solution/mixture of native perfluoroalkylcarboxylic acids (C_4-C_7 C_{10}-C_{14} linear· C_8 and C_9 linear and branched) perfluoroalkanesulfonates (C_4, C_5, C_7, C_9 C_{10} and C_{12} linear· C_6 and C_8 linear and branched) fluorotelomer sulfonates (4 2 6.2 and 8 2) perfluorooctanesulfonamides (linear and branched) perfluorooctanesulfonamidoacetic acids (linear and branched) perfluorooctanesulfonamidoethanols (linear and branched) hexafluoropropylene oxide dimer acid (GenX HFPO-DA) sodium dodecafluoro-3H-4 8-dioxanonanoate (NaDONA) perfluoroalkyl ether carboxylic acids (PF4OPeA PF5OHxA, and 3 6-OPFHpA) the major and minor components of F-53B (9Cl PF3ONS and 11Cl PF3OUdS) a perfluoroalkyl ether sulfonate (PFEESA) and fluorotelomer carboxylic acids The components and their concentrations are given in Table A.

The individual components of this mixture all have chemical purities of >98%

DOCUMENTATION/ DATA ATTACHED.

Table A	Components and Concentrations of the Solution/Mixture		
Table B	Isomeric Composition of PFOA	Table H	Isomeric Composition of N-EtFOSAA
Table C	Isomeric Composition of PFNA	Table I	Isomeric Composition of N MeFOSE
Table D	Isomeric Composition of FOSA	Table J	Isomeric Composition of N-EtFOSE
Table E	Isomeric Composition of N-MeFOSA	Table K	Isomeric Composition of PFHxSK
Table F	Isomeric Composition of N-EtFOSA	Table L	Isomeric Composition of PFOSK
Table G	Isomeric Composition of N-MeFOSAA	Figure 1	LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters
- It is recommended to integrate and quantify the linear and branched isomers separately as their response factors can vary depending on optimized acquisition parameters

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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Table A. EPA-1633STK, Components and Concentrations (ng/mL, ± 5% in methanol/isopropanol (0 5%)/water (<1%))

Compound	Acronym	CAS #	Concentration* (ng/mL)	
Perfluoro-n-butanoic acid	PFBA	375-22-4	1000	
Perfluoro-n-pentanoic acid	PFPeA	2706-90-3	500	
Perfluoro-n-hexanoic acid	PFHxA	307-24-4	250	
Perfluoro-n-heptanoic acid	PFHpA	375-85-9	250	
Perfluorooctanoic acid[a]	PFOA, linear isomer	335-67 1	250	166
	PFOA, ∑ branched isomers			84.3
Perfluorononanoic acid[b]	PFNA, linear isomer	375-95-1	250	163
	PFNA, ∑ branched isomers			86.8
Perfluoro-n-decanoic acid	PFDA	335-76-2	250	
Perfluoro-n-undecanoic acid	PFUdA	2058-94-8	250	
Perfluoro-n-dodecanoic acid	PFDoA	307-55-1	250	
Perfluoro-n-tridecanoic acid	PFTrDA	72629-94-8	250	
Perfluoro-n-tetradecanoic acid	PFTeDA	376-06-7	250	
Perfluorooctanesulfonamide[c]	FOSA, linear isomer	754-91-6	250	167
	FOSA, ∑ branched isomers			84.0
N-Methylperfluorooctanesulfonamide[d]	N-MeFOSA, linear isomer	31506-32-8	250	181
	N-MeFOSA, ∑ branched isomers			69 1
N-Ethylperfluorooctanesulfonamide[e]	N-EtFOSA, linear isomer	4151-50-2	250	185
	N-EtFOSA, ∑ branched isomers			65.5
N-Methylperfluorooctanesulfonamidoacetic acid[f]	N-MeFOSAA, linear isomer	2355-31-9	250	190
	N-MeFOSAA, ∑ branched isomers			60 0
N-Ethylperfluorooctanesulfonamidoacetic acid[g]	N-EtFOSAA, linear isomer	2991-50-6	250	194
	N-EtFOSAA, ∑ branched isomers			56.3
2-(N-Methylperfluorooctanesulfonamido)ethanol[h]	N-MeFOSE: linear isomer	24448-09-7	2500	1690
	N-MeFOSE, ∑ branched isomers			813
2-(N-Ethylperfluorooctanesulfonamido)ethanol[i]	N-EtFOSE, linear isomer	1691-99-2	2500	1620
	N-EtFOSE, ∑ branched isomers			888
rac-2,3 3,3-Tetrafluoro-2-(1 1,2,2,3,3,3-heptafluoropropoxy)propanoic acid	HFPO-DA	13252-13-6	1000	
Perfluoro-4-oxapentanoic acid	PF4OPeA	377 73-1	500	
Perfluoro-5-oxahexanoic acid	PF5OHxA	863090-89-5	500	
Perfluoro-3,6-dioxaheptanoic acid	3,6-OPFHpA	151772-58-6	500	
3-Perfluoropropyl propanoic acid	FPrPA	356-02-5	1250	
3-Perfluoropentyl propanoic acid	FPePA	914637-49-3	6250	
3-Perfluoroheptyl propanoic acid	FHpPA	812-70-4	6250	

* Concentrations have been rounded to three significant figures

[a] See Table B for percent composition of linear and branched PFOA isomers
[b] See Table C for percent composition of linear and branched PFNA isomers
See Table D for percent composition of linear and branched FOSA isomers
[d] See Table E for percent composition of linear and branched N-MeFOSA isomers.
[e] See Table F for percent composition of linear and branched N-EtFOSA isomers
See Table G for percent composition of linear and branched N-MeFOSAA isomers.
[g] See Table H for percent composition of linear and branched N-EtFOSAA isomers
[h] See Table I for percent composition of linear and branched N-MeFOSE isomers.
See Table J for percent composition of linear and branched N-EtFOSE isomers.

Table A. **EPA-1633STK, Components and Concentrations (ng/mL, ± 5% in methanol/isopropanol (0 5%)/water (<1%))**

Compound	Acronym	CAS #	Concentration* (ng/mL)		
			as the salt		as the acid
Potassium perfluoro-1-butanesulfonate	L-PFBS	29420-49-3	250		222
Sod um perfluoro-1-pentanesulfonate	L-PFPeS	630402-22-1	250		235
Potassium perfluorohexanesulfonate[j]	PFHxSK. inear isomer	3871-99-6	250	203	185
	PFHxSK: ∑ branched isomers			47.3	43.1
Sodium perfluoro-1-heptanesulfonate	L-PFHpS	21934-50-9	250		238
Potassium perfluorooctanesulfonate[k]	PFOSK: linear isomer	2795-39-3	250	197	183
	PFOSK. ∑ branched isomers			52.8	49.0
Sodium perfluoro-1-nonanesulfonate	L-PFNS	98789-57-2	250		240
Sodium perfluoro-1-decanesulfonate	L-PFDS	2806-15-7	250		241
Sodium perfluoro-1-dodecanesulfonate	L-PFDoS	1260224-54-1	250		242
Sodium 1H 1H,2H,2H-perfluorohexanesulfonate	4:2FTS	27619-93-8	1000		937
Sodium 1H 1H,2H 2H-perfluorooctanesulfonate	6:2FTS	27619-94-9	1000		951
Sodium 1H 1H,2H,2H-perfluorodecanesulfonate	8.2FTS	27619-96-1	1000		960
Sodium *rac*-dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	2250081-67-3	1000		945
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9Cl-PF3ONS	73606-19-6	1000		933
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate	11Cl-PF3OUdS	83329-89-9	1000		943
Potassium perfluoro(2-ethoxyethane)sulfonate	PFEESA	117205-07-9	500		446

* Concentrations have been rounded to three significant figures.

[j] See Table K for percent composition of linear and branched PFHxSK isomers
[k] See Table L for percent composition of linear and branched PFOSK isomers.

Certified By _____ **Date** 06/16/2025
(mm/dd/yyyy)
B G. Chittim General Manager

Table B. **PFOA, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	Perfluoro-n-octanoic acid	66 3	66.3
2	Perfluoro-3-methylheptanoic acid	5 0	33 7
3	Perfluoro-4-methylheptanoic acid	6 9	
4	Perfluoro-5-methylheptanoic acid	7 2	
5	Perfluoro-6-methylheptanoic acid	13 3	
6	Perfluoro-5 5-dimethylhexanoic acid	0 4	
7	Perfluoro-4 5-dimethylhexanoic acid	0 5	
8	Perfluoro-3 5-dimethylhexanoic acid	0 2	
9	Perfluoro-4 4-dimethylhexanoic acid	0 2	
10	Perfluoro-3 3-dimethylhexanoic acid		

* Percent of total perfluorooctanoic acid isomers only Additional branched isomers may be present at levels below the detection limit of the ^{9}F NMR analysis which would not significantly impact the above percentages

Table C. **PFNA, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{9}F-NMR	
1	Perfluoro-n-nonanoic acid	65 2	65 2
2	Perfluoro-4-methyloctanoic acid	5 7	34.7
3	Perfluoro-5-methyloctanoic acid	4 9	
4	Perfluoro-6-methyloctanoic acid	8 1	
5	Perfluoro-7-methyloctanoic acid	14 6	
6	Perfluoro-6 6-dimethylheptanoic acid	0 4	
7	Unknown Double Branched Isomers	1 0	

* Percent of total perfluorononanoic acid isomers only Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages.

Table D. **FOSA, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	Perfluoro-1-octanesulfonamide	66 6	66 6
2	Perfluoro-1-methyl-1-heptanesulfonamide**	0 8	33 6
3	Perfluoro-2-methyl 1-heptanesulfonamide	0 3	
4	Perfluoro-3-methyl-1-heptanesulfonamide	4 2	
5	Perfluoro-4-methyl-1-heptanesulfonamide	3 5	
6	Perfluoro-5-methyl-1-heptanesulfonamide	7 8	
7	Perfluoro-6-methyl 1-heptanesulfonamide	16 8	
8	Perfluoro-5 5-dimethyl-1-hexanesulfonamide	0 2	

* Percent of total perfluorooctanesulfonamide isomers only. Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages.

** Systematic Name Perfluoro-2-octanesulfonamide

Table E. **N-MeFOSA, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	N-Methylperfluoro-1-octanesulfonamide	72 3	72.3
2	N-Methylperfluoro-3-methyl-1-heptanesulfonamide	2 1	27 6
3	N-Methylperfluoro-4-methyl-1-heptanesulfonamide	2 6	
4	N-Methylperfluoro-5-methyl-1-heptanesulfonamide	6 7	
5	N-Methylperfluoro-6-methyl-1-heptanesulfonamide	16 2	
6	N-Methylperfluoro-5 5-dimethyl-1-hexanesulfonamide	0 04	

* Percent of total N-methylperfluorooctanesulfonamide isomers only Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages

Table F. **N-EtFOSA, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	N-Ethylperfluoro-1-octanesulfonamide	73 8	73 8
2	N-Ethylperfluoro-1-methyl-1-heptanesulfonamide**	0 1	26 2
3	N-Ethylperfluoro-3-methyl-1-heptanesulfonamide	2 3	
4	N-Ethylperfluoro-4-methyl-1-heptanesulfonamide	2 6	
5	N-Ethylperfluoro-5-methyl-1-heptanesulfonamide	6.2	
6	N-Ethylperfluoro-6-methyl-1-heptanesulfonamide	14 8	
7	N-Ethylperfluoro-5 5-dimethyl-1-hexanesulfonamide	0.2	

* Percent of total N-ethylperfluorooctanesulfonamide isomers only Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages
** Systematic Name N-Ethylperfluoro-2-octanesulfonamide

Table G. **N-MeFOSAA, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	N-Methylperfluoro-1-octanesulfonamidoacetic acid	76 0	76 0
2	N-Methylperfluoro-3-methyl-1-heptanesulfonamidoacetic acid	0 7	24 0
3	N-Methylperfluoro-4-methyl-1-heptanesulfonamidoacetic acid	2 0	
4	N-Methylperfluoro-5-methyl-1-heptanesulfonamidoacetic acid	6 0	
5	N-Methylperfluoro-6-methyl-1-heptanesulfonamidoacetic acid	14 0	
6	N-Methylperfluoro-5,5-dimethyl-1-hexanesulfonamidoacetic acid	0 2	
7	Other Unidentified Isomers	1 1	

* Percent of total N-methylperfluorooctanesulfonamidoacetic acid isomers only Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages

Table H. **N-EtFOSAA, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	N Ethylperfluoro-1-octanesulfonamidoacetic acid	77 5	77 5
2	N-Ethylperfluoro-3-methyl-1-heptanesulfonamidoacetic acid	2 3	22.5
3	N-Ethylperfluoro-4-methyl-1-heptanesulfonamidoacetic acid	2 2	
4	N-Ethylperfluoro-5-methyl 1-heptanesulfonamidoacetic acid	5 4	
5	N-Ethylperfluoro-6-methyl-1-heptanesulfonamidoacetic acid	10.4	
6	N-Ethylperfluoro-5 5-dimethyl 1-hexanesulfonamidoacetic acid	0 3	
7	N-Ethylperfluoro-4 5-dimethyl 1-hexanesulfonamidoacetic acid	0 3	
8	N Ethylperfluoro-3 5-dimethyl-1-hexanesulfonamidoacetic acid	0 3	
9	Other Unidentified Isomers	1 3	

* Percent of total N-ethylperfluorooctanesulfonamidoacetic acid isomers only Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages

Table I. **N-MeFOSE, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	2-(N-Methylperfluoro-1-octanesulfonamido)ethanol	67 6	67 6
2	2-(N-Methylperfluoro-3-methyl-1-heptanesulfonamido)ethanol	3 9	32 5
3	2-(N-Methylperfluoro-4-methyl 1-heptanesulfonamido)ethanol	3.2	
4	2-(N-Methylperfluoro-5-methyl-1-heptanesulfonamido)ethanol	7 7	
5	2-(N-Methylperfluoro-6-methyl-1-heptanesulfonamido)ethanol	17 5	
6	2-(N Methylperfluoro-5 5-dimethyl-1-hexanesulfonamido)ethanol	0 2	

* Percent of total 2-(N-methylperfluorooctanesulfonamido)ethanol isomers only Additional branched isomers may be present at levels below the detection limit of the ^{9}F NMR analysis which would not significantly impact the above percentages

Table J. **N-EtFOSE, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	2-(N-Ethylperfluoro-1-octanesulfonamido)ethanol	64 6	64 6
2	2-(N Ethylperfluoro-2-methyl-1-heptanesulfonamido)ethanol	0 2	35 5
3	2-(N-Ethylperfluoro-3-methyl-1-heptanesulfonamido)ethanol	4 1	
4	2-(N-Ethylperfluoro-4-methyl 1-heptanesulfonamido)ethanol	4 3	
5	2-(N-Ethylperfluoro-5-methyl-1-heptanesulfonamido)ethanol	8 8	
6	2-(N-Ethylperfluoro-6-methyl 1-heptanesulfonamido)ethanol	17 8	
7	2-(N-Ethylperfluoro-5 5-dimethyl-1-hexanesulfonamido)ethanol	0 3	

* Percent of total 2-(N-ethylperfluorooctanesulfonamido)ethanol isomers only Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages.

Table K. **PFHxSK, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	Potassium perfluoro-1-hexanesulfonate	81 1	81 1
2	Potassium perfluoro-1-methyl-1-pentanesulfonate**	2 9	18 9
3	Potassium perfluoro-2-methyl-1-pentanesulfonate	1.4	
4	Potassium perfluoro-3-methyl-1-pentanesulfonate	5 0	
5	Potassium perfluoro-4-methyl-1-pentanesulfonate	8 9	
6	Potassium perfluoro-3 3-dimethyl-1-butanesulfonate	0 2	
7	Other Unidentified Isomers	0 5	

* Percent of total perfluorohexanesulfonate isomers only Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages

** Systematic Name: Potassium perfluorohexane-2-sulfonate

Table L. **PFOSK, Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	Potassium perfluoro-1-octanesulfonate	78 8	78 8
2	Potassium perfluoro-1-methyl-1-heptanesulfonate**	1 2	21 1
3	Potassium perfluoro-2-methyl-1-heptanesulfonate	0 6	
4	Potassium perfluoro-3-methyl-1-heptanesulfonate	1 9	
5	Potassium perfluoro-4-methyl-1-heptanesulfonate	2.2	
6	Potassium perfluoro-5-methyl-1-heptanesulfonate	4 5	
7	Potassium perfluoro-6-methyl-1-heptanesulfonate	10 0	
8	Potassium perfluoro-5 5-dimethyl-1-hexanesulfonate	0 2	
9	Potassium perfluoro-4,4-dimethyl-1-hexanesulfonate	0 03	
10	Potassium perfluoro-4 5-dimethyl-1-hexanesulfonate	0 4	
11	Potassium perfluoro-3,5-dimethyl-1-hexanesulfonate	0 07	

* Percent of total perfluorooctanesulfonate isomers only Additional branched isomers may be present at levels below the detection limit of the ^{19}F NMR analysis which would not significantly impact the above percentages.

** Systematic Name Potassium perfluoro-2-octanesulfonate

Figure 1. **EPA-1633STK, LC/MS/MS Data (Selected MRM Transitions)**

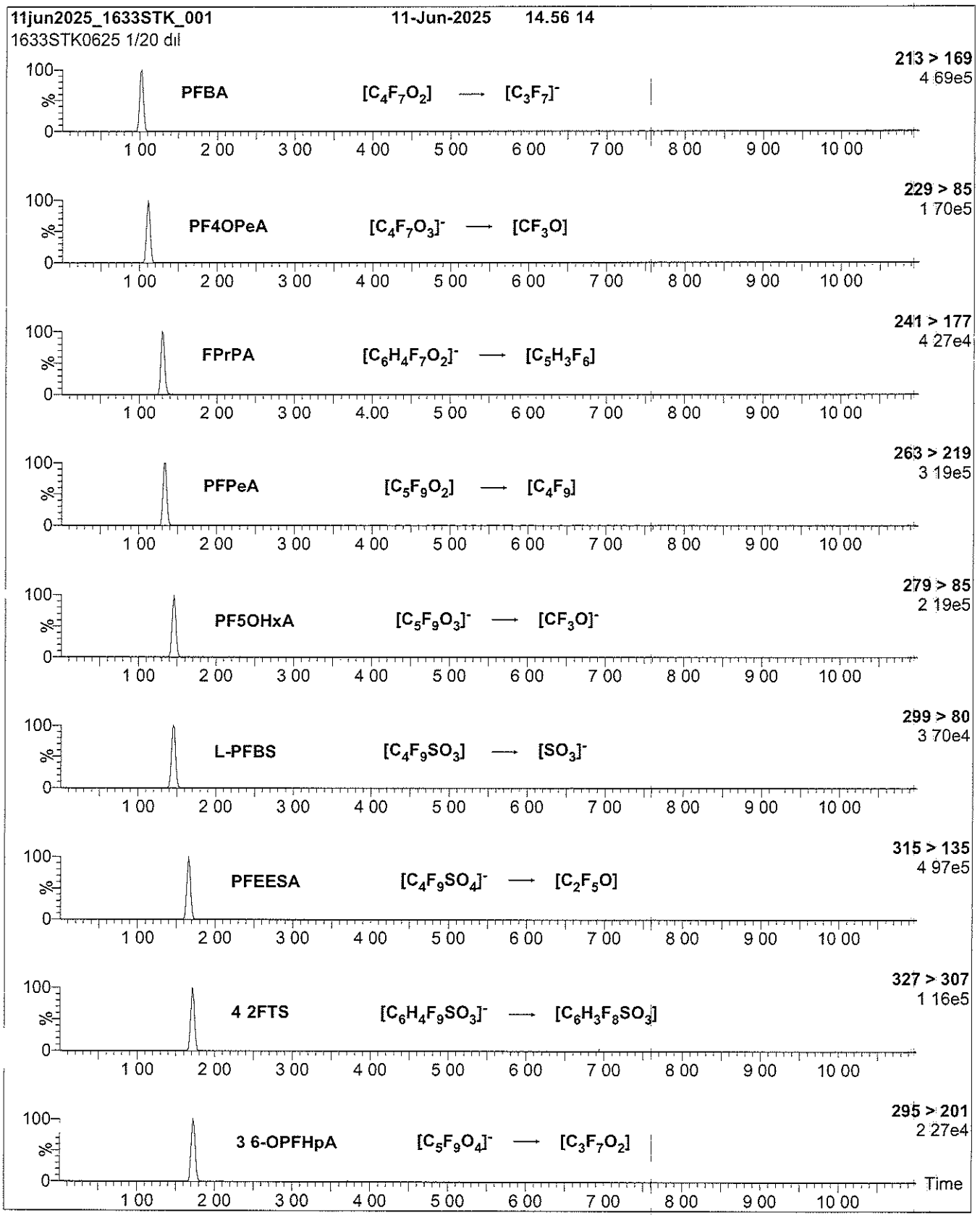


Figure 1. **EPA-1633STK, LC/MS/MS Data (Selected MRM Transitions)**

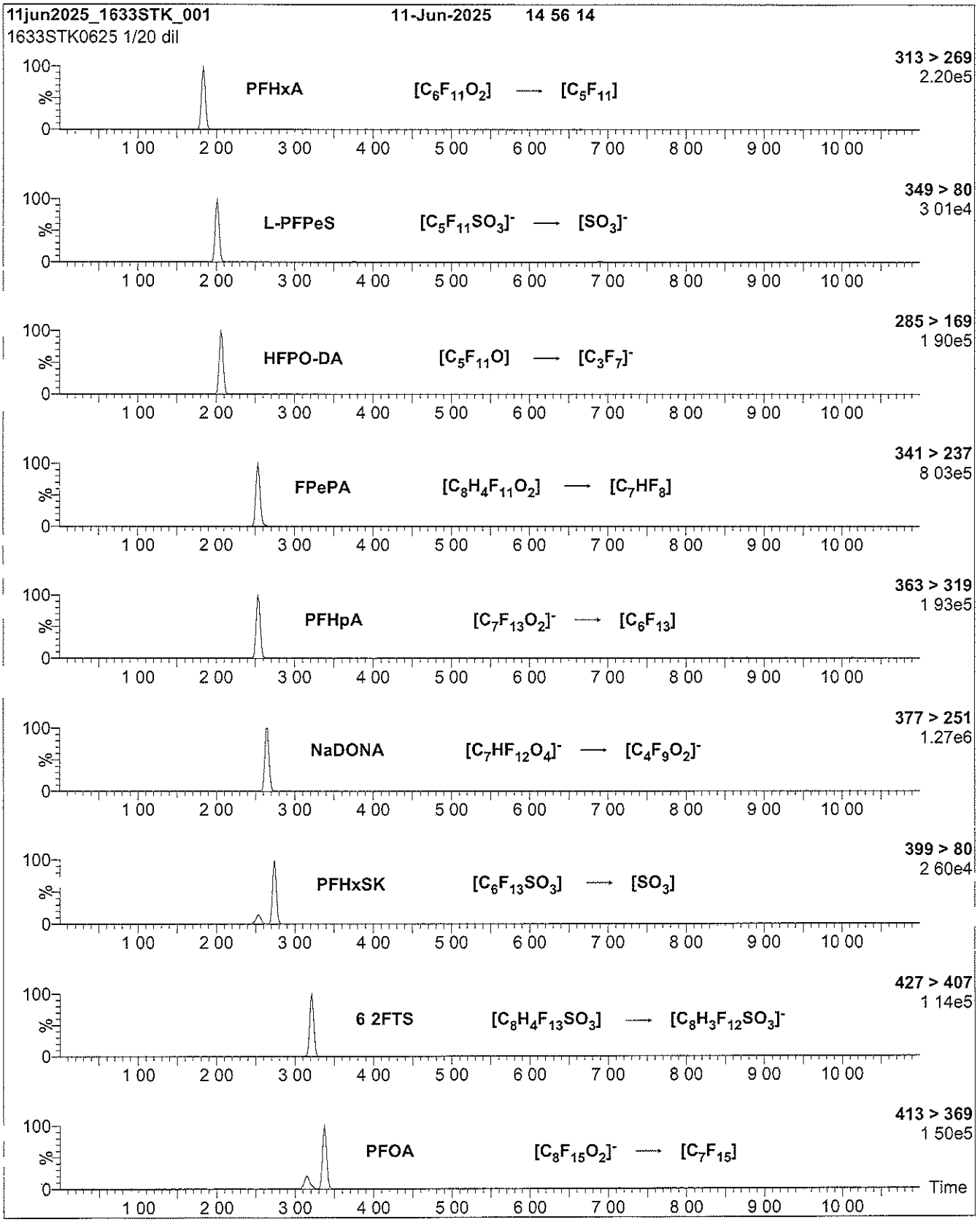


Figure 1. **EPA-1633STK, LC/MS/MS Data (Selected MRM Transitions)**

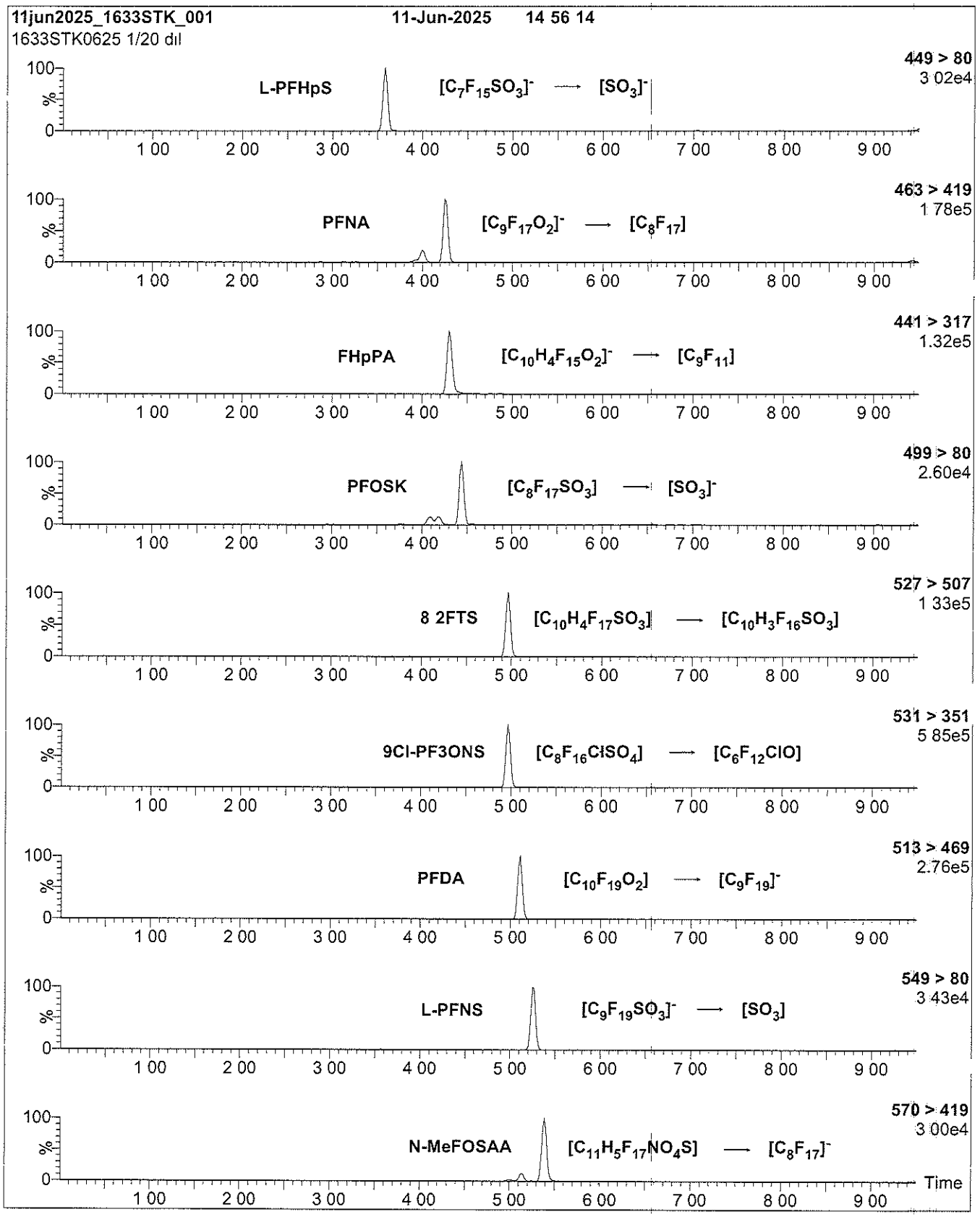


Figure 1. EPA-1633STK, LC/MS/MS Data (Selected MRM Transitions)

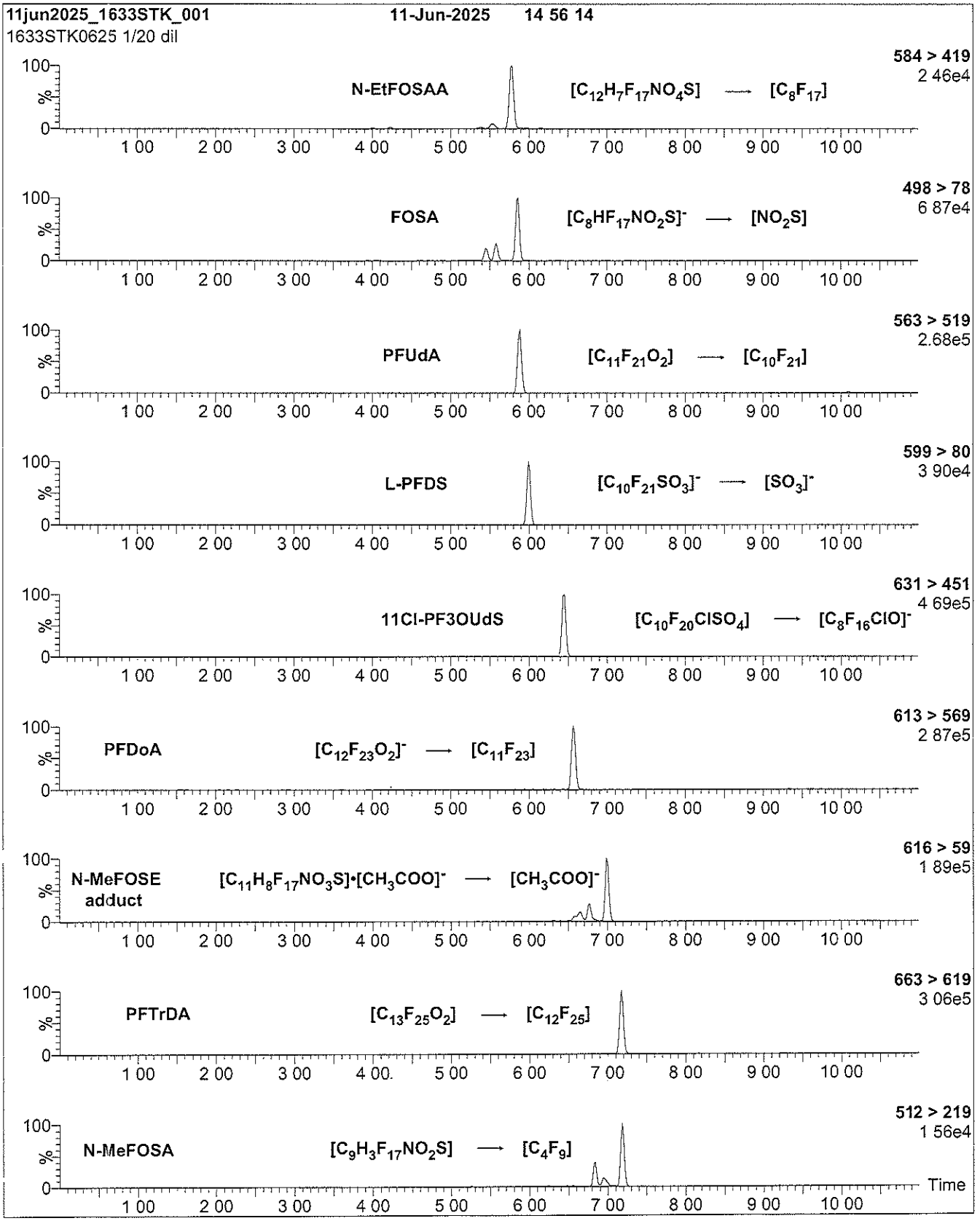
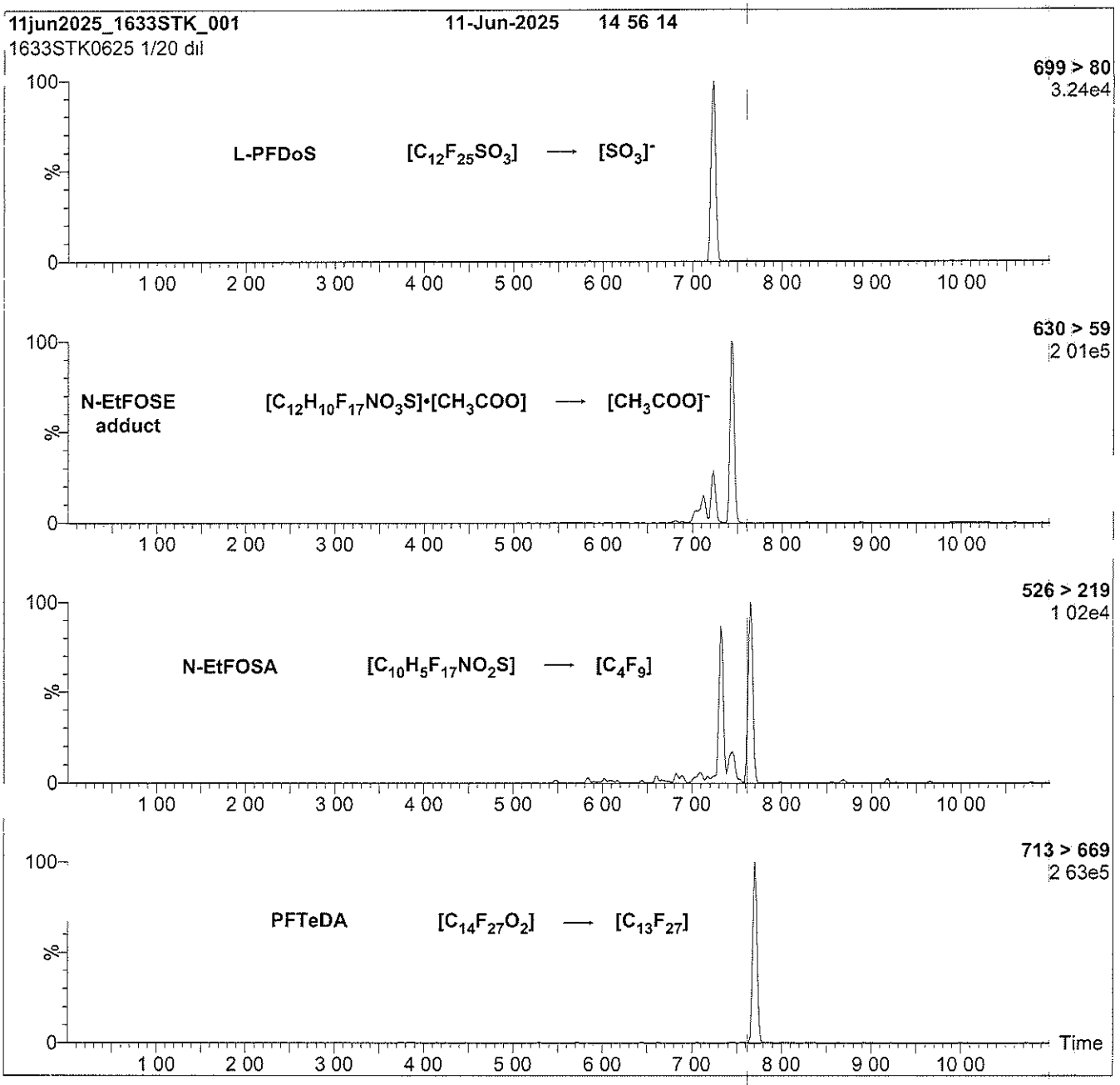


Figure 1. **EPA-1633STK, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column	Acquity UPLC BEH Shield RP_{18} (1 7 µm 2 1 x 100 mm)
Flow	300 µL/min
Mobile phase	Gradient Start: 50% H_2O / 50% (80.20 MeOH.ACN) (both with 10 mM NH_4OAc) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time. 12 min

MS Parameters.

Source Electrospray (negative)

Capilary Voltage (kV) = 2.00
Cone Voltage (V) = 2-74
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000
Collision Gas (mbar) = 3.91e-3
Collision Energy (eV) = 6-60

Reagent

PFC_ST_05107

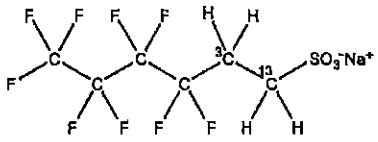
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE. M2-4 2FTS **LOT NUMBER.** M242FTS0725

COMPOUND. Sodium 1H 1H 2H,2H-perfluoro(1,2-$^{13}C_2$)hexanesulfonate ($^{13}C_2$-4 2 FTS)

STRUCTURE.



CAS #. 2708218-88-4

410-8591520

MOLECULAR FORMULA.	$^{13}C_2\ ^2C_4H_4F_9SO_3Na$	**MOLECULAR WEIGHT:**	352 12
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt)	**SOLVENT(S).**	Methanol
	46 9 ± 2 3 µg/mL (M2-4 2FTS acid)		
	46 7 ± 2 3 µg/mL (M2-4 2FTS anion)		
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	07/23/2025		
EXPIRY DATE. (mm/dd/yyyy)	07/23/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- It is known that elevated concentrations of 4 2FTS will contribute to the response of the m/z 329 > 309 MRM transition of M2-4 2FTS due to the natural abundance of ^{34}S (~4 2% relative to ^{32}S) in the native compound Therefore use of the alternative product ion (m/z 81 [$^{32}SO_3H]^-$) is recommended The analogous transition for the ^{34}S native analyte would produce m/z 83 [$^{34}SO_3H]^-$ from the same nominal mass precursor ion thereby eliminating the potential interference
- Contains ≤0 5% of sodium 1H 2H-perfluoro-1-(1 2- $^3C_2$)hexenesulfonate by ^{19}F NMR

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 08/12/2025 (mm/dd/yyyy)

B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • Info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques, such as NMR GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty, $u_c(y)$ of a value y and the uncertainty of the independent parameters x_1 x_2 x_n on which it depends is.

$$u_c(y(x_1\ x_2\ \ x\ )) = \sqrt{\sum u(y\ x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

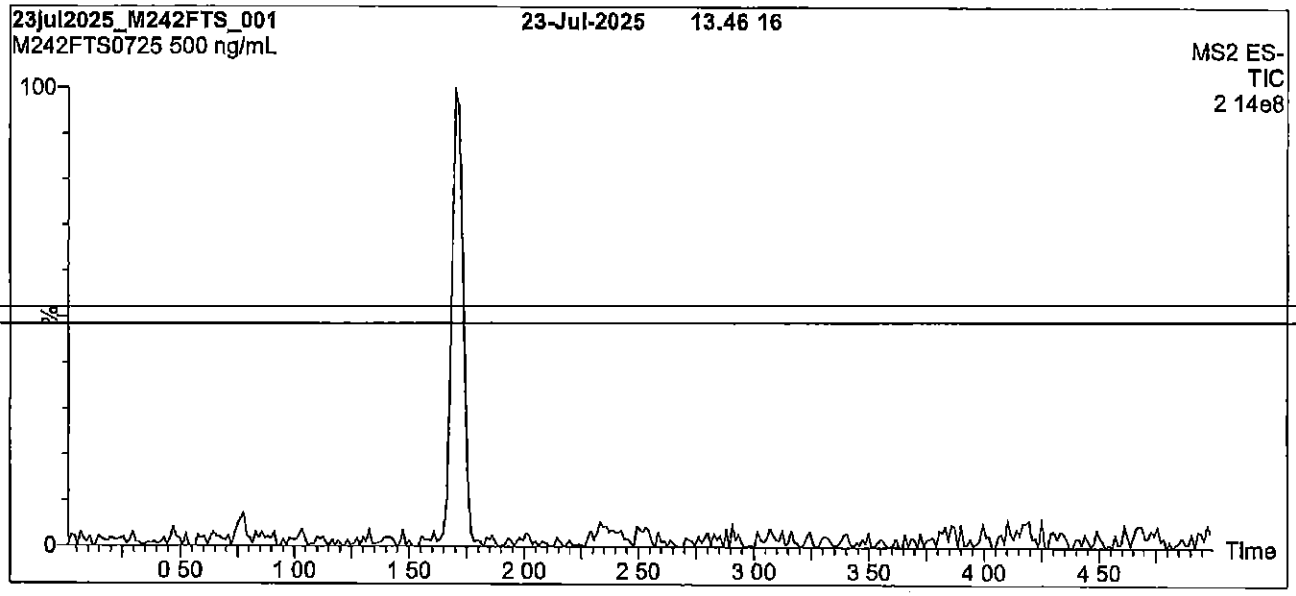
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523).

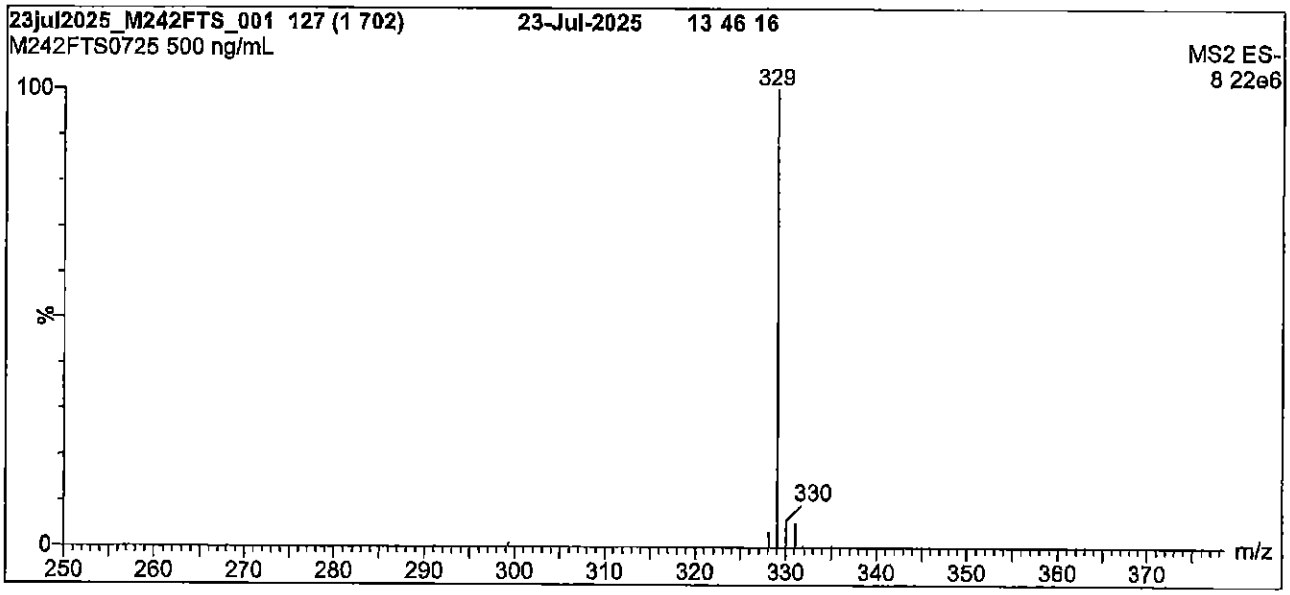
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

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Figure 1: M2-4-2FTS, LC/MS Data (Full Scan and Mass Spectrum)





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

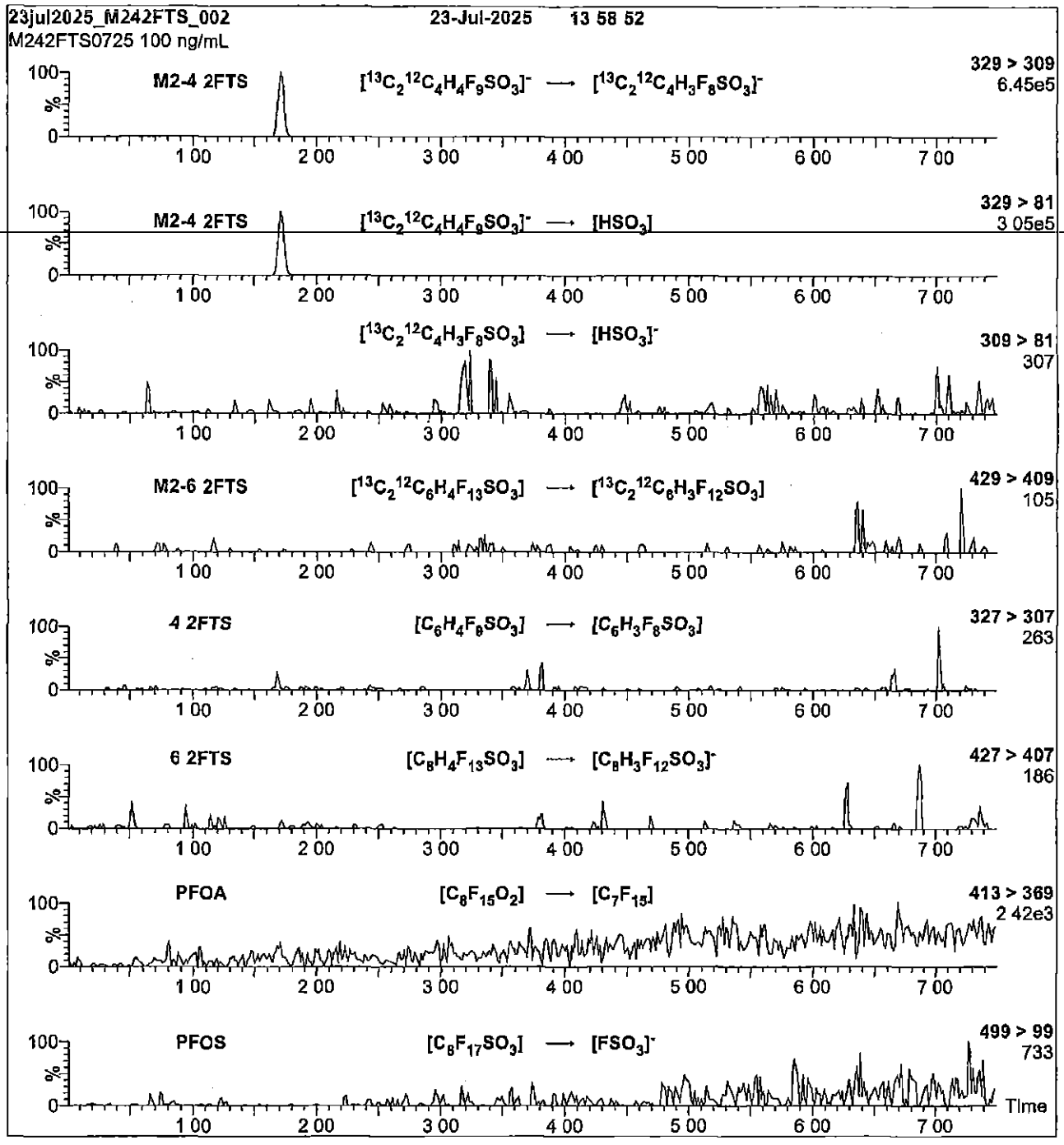
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start 50% H_2O / 50% (80 20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time· 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source· Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 25.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2-4 2FTS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M2-4.2FTS)	**MS Parameters.**	
Mobile phase	Same as Figure 1	Collision Gas (mbar) = 3.65e-3 Collision Energy (eV) = 18	
Flow	300 µL/min		

Reagent

PFC_ST_05111

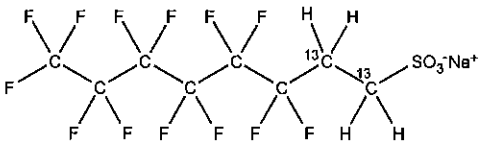
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE. M2-6 2FTS **LOT NUMBER.** M262FTS0625

COMPOUND. Sodium 1H 1H 2H 2H-perfluoro(1 2-$^{13}C_2$)octanesulfonate

STRUCTURE. **CAS #.** 2708218-89-5



410-8591601

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_6H_4F_{13}SO_3Na$	**MOLECULAR WEIGHT:**	452 13
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt)	**SOLVENT(S).**	Methanol
	47 6 ± 2 4 µg/mL (M2-6 2FTS acid)		
	47 5 ± 2 4 µg/mL (M2-6 2FTS anion)		
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	06/26/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/26/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- The native 6 2FTS contains 4 22% of ^{34}S (due to natural isotopic abundance) therefore both native 6 2FTS and M2-6 2FTS will produce signals in the m/z 429 to m/z 409 channel during MRM analysis We recommend using the m/z 429 to m/z 81 transition to monitor for M2-6 2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2)

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By B G. Chittim General Manager **Date** 07/15/2025 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is

$$u_c(y(x_1\ x_2\quad x_n)) = \sqrt{\sum_{=1}^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware) An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

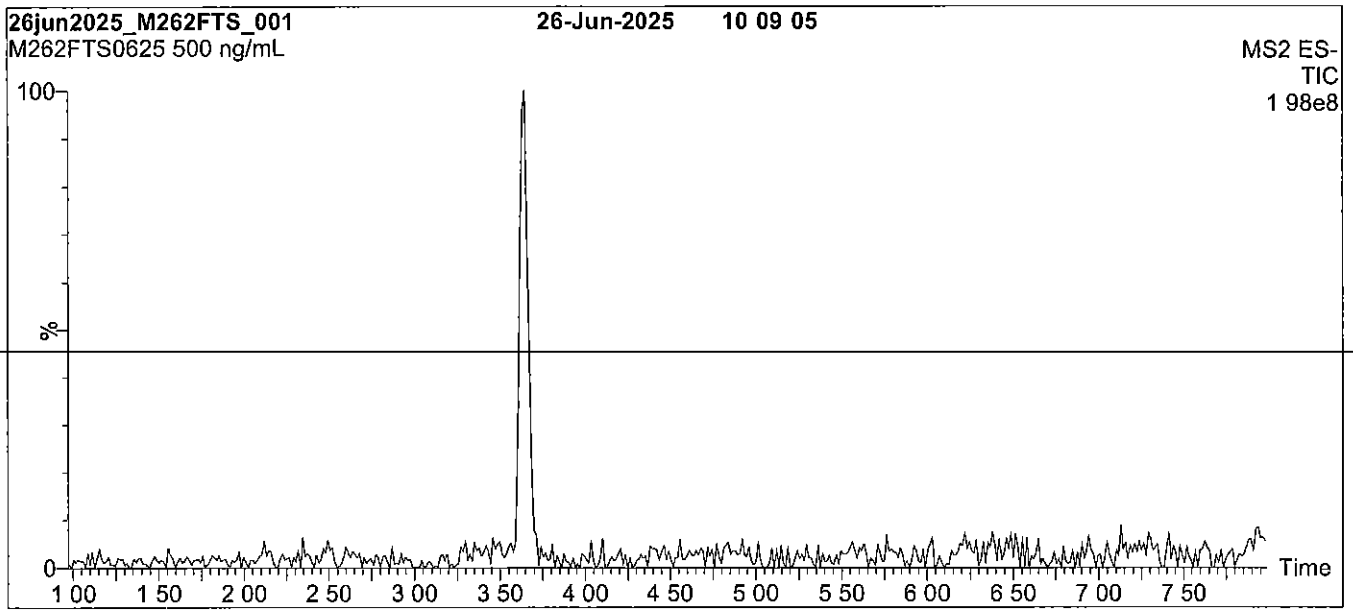
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA A1226) and ISO 17034 by the ANSI National Accreditation Board (ANAB AR 1523).

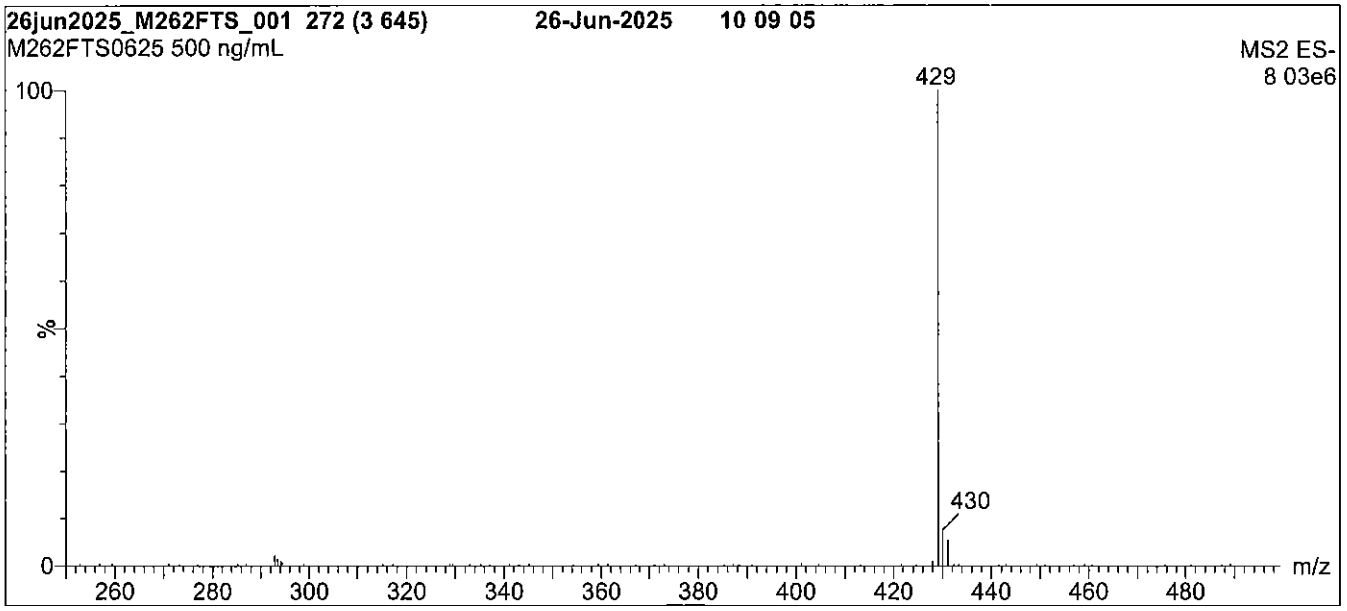
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. M2:6:2FTS; LC/MS Data (Full Scan and Mass Spectrum)





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

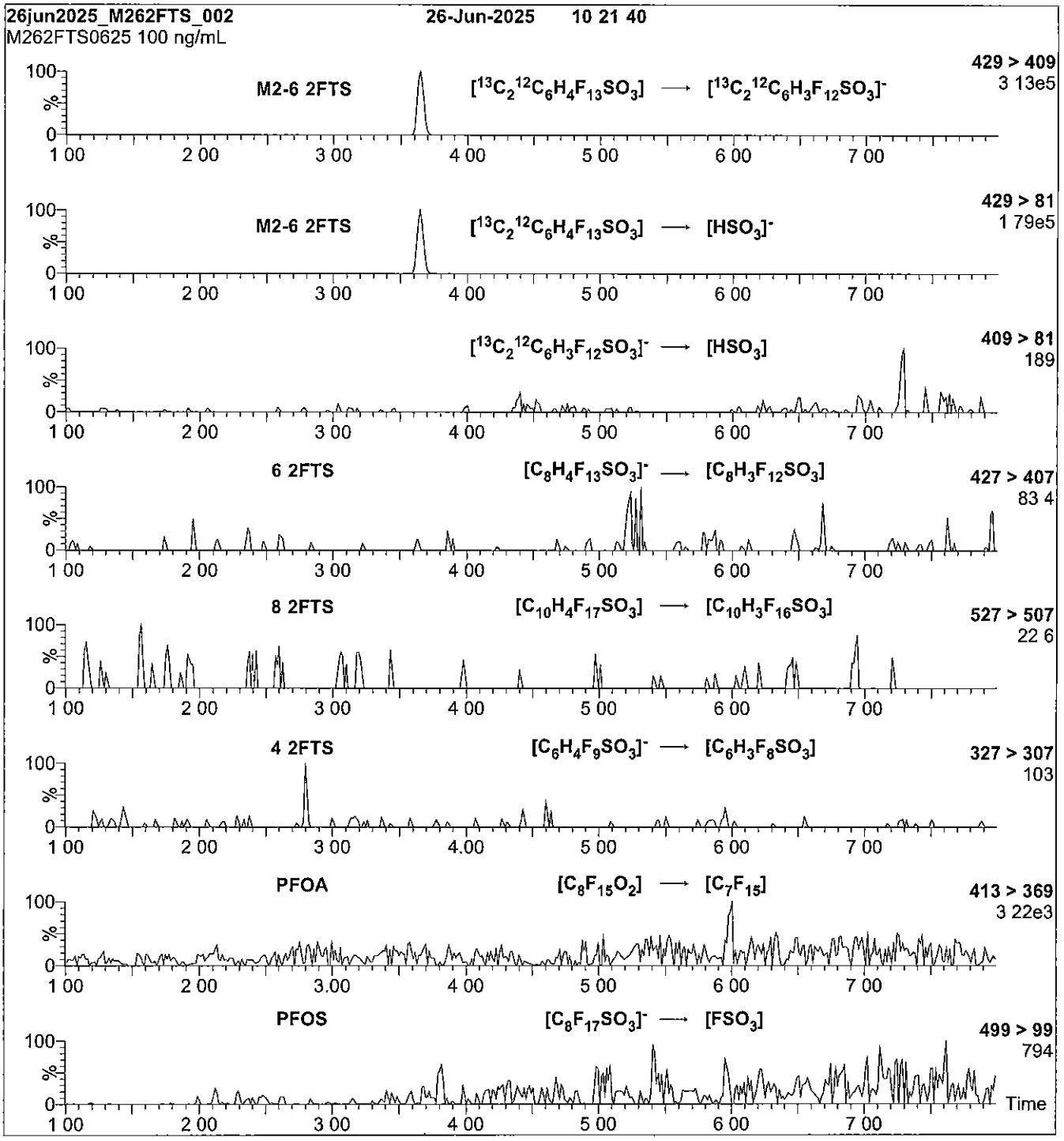
Column	Acquity UPLC BEH Shield RP $_8$ 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start: 50% H_2O / 50% (80.20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0 5 min Time 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 25 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2-6 2FTS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M2-6.2FTS)
Mobile phase:	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.73e-3
Collision Energy (eV) = 20

Reagent

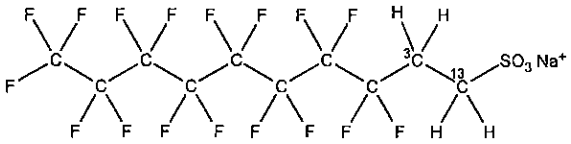
PFC_ST_05121

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. M2-8.2FTS **LOT NUMBER.** M282FTS0425
COMPOUND. Sodium 1H 1H 2H 2H-perfluoro(1 2-$^{13}C_2$)decanesulfonate

STRUCTURE: **CAS #:** 2708218-90-8



410-8591612

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_8H_4F_{17}SO_3Na$	**MOLECULAR WEIGHT:**	552 15
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt)	**SOLVENT(S).**	Methanol
	48 0 ± 2 4 µg/mL (M2-8 2FTS acid)		
	47 9 ± 2.4 µg/mL (M2-8 2FTS anion)		
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	04/09/2025		
EXPIRY DATE: (mm/dd/yyyy)	04/09/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- The native 8 2FTS contains 4.22% of ^{34}S (due to natural isotopic abundance) therefore both native 8 2FTS and M2-8.2FTS will produce signals in the m/z 529 to m/z 509 channel during SRM analysis We recommend using the m/z 529 to m/z 81 transition to monitor for M2-8 2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2)

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Certified By· _____ **Date** 04/23/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc , 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs com

INTENDED USE.

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HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$ of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is.

$$u_c(y(x_1, x_2 \quad x\ )) - \sqrt{\sum_{=1} u(y\ x\ )^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

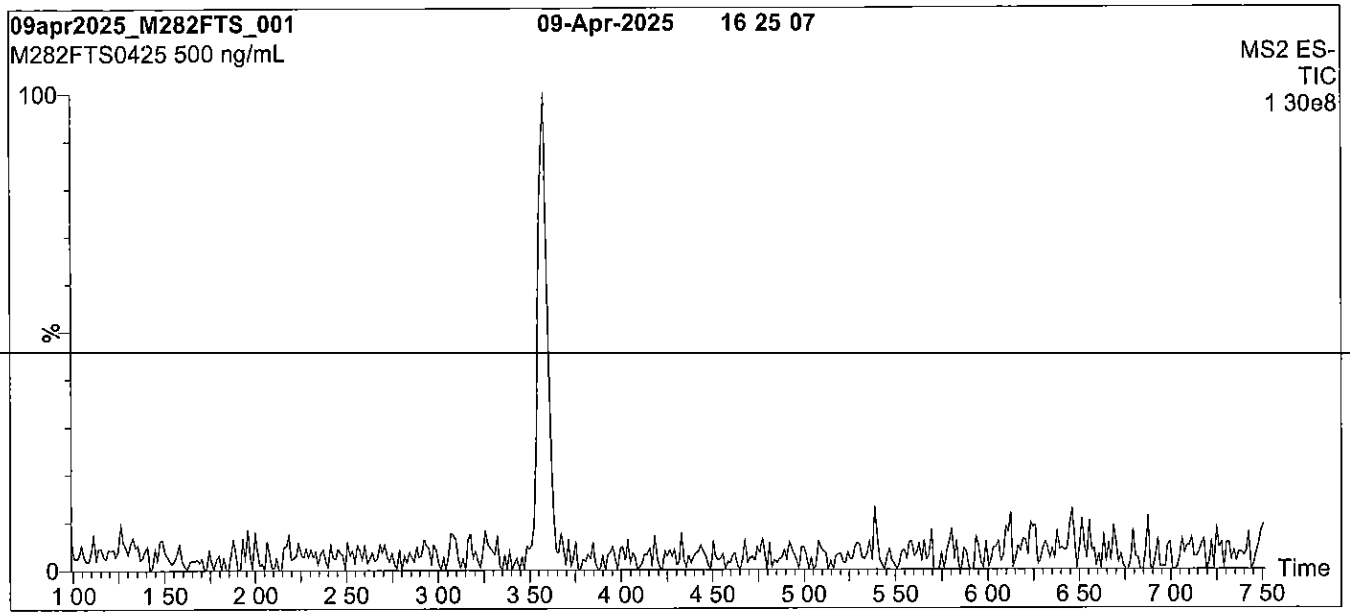
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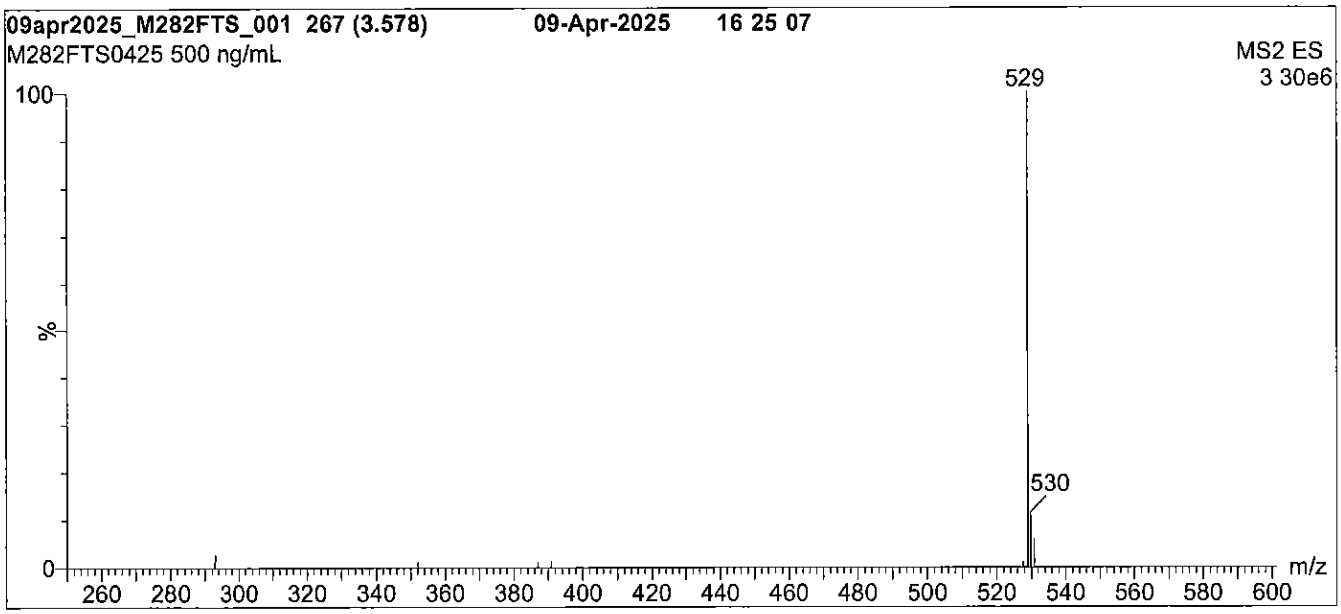
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M2-8.2FTS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

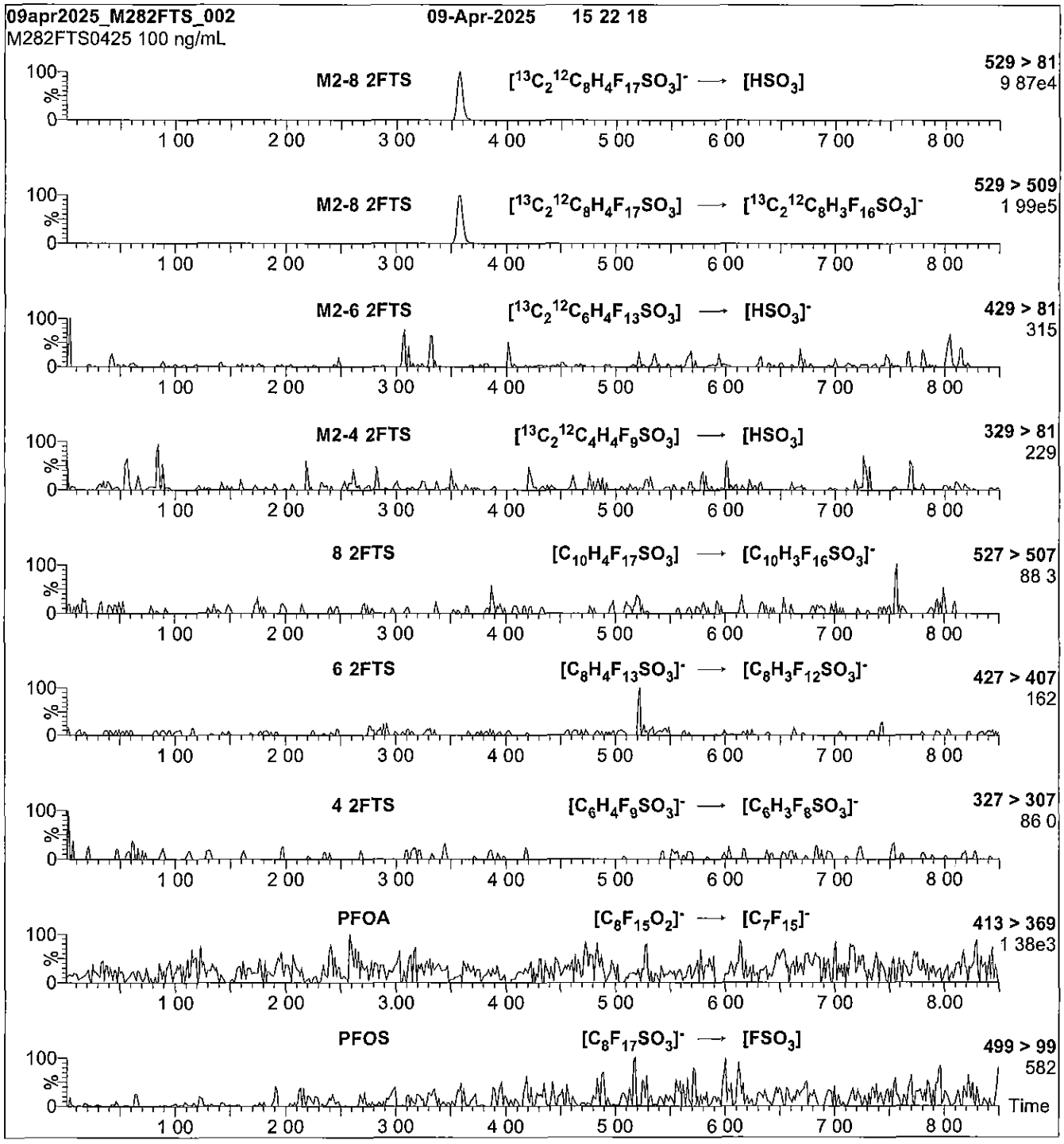
Column	Acquity UPLC BEH Shield RP$_{18}$ 1 7 µm, 2.1 x 100 mm
Mobile phase	Gradient Start. 40% H_2O / 60% (80 20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0 5 min Time 12 min
Flow·	300 µL/min

MS Parameters.

Experiment: Full Scan (250 - 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 25 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2-8 2FTS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M2-8.2FTS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5.91e-3
Collision Energy (eV) = 26

Reagent

PFC_ST_05137

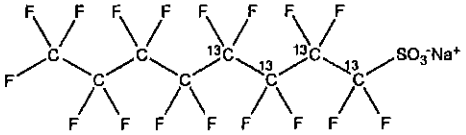
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. MPFOS **LOT NUMBER.** MPFOS0825

COMPOUND: Sodium perfluoro-1-(1 2,3,4-$^{13}C_4$)octanesulfonate

STRUCTURE. **CAS #:** 960315-53-1



410-8632304

MOLECULAR FORMULA.	$^{13}C_4{}^{12}C_4F_{17}SO_3Na$	**MOLECULAR WEIGHT:**	526 08
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 47 9 ± 2.4 µg/mL (MPFOS acid) 47 8 ± 2.4 µg/mL (MPFOS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	08/19/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/19/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains <0 1% of perfluoro-n-($^{13}C_4$)octanoic acid (MPFOA), and 1 4% of an unknown impurity

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 08/22/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers In order to maintain the integrity of the assigned value(s) and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is.

$$u_c(y(x_1\ x_2\ \ x\ )) = \sqrt{\sum_{i=1}^{n} u(y,x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

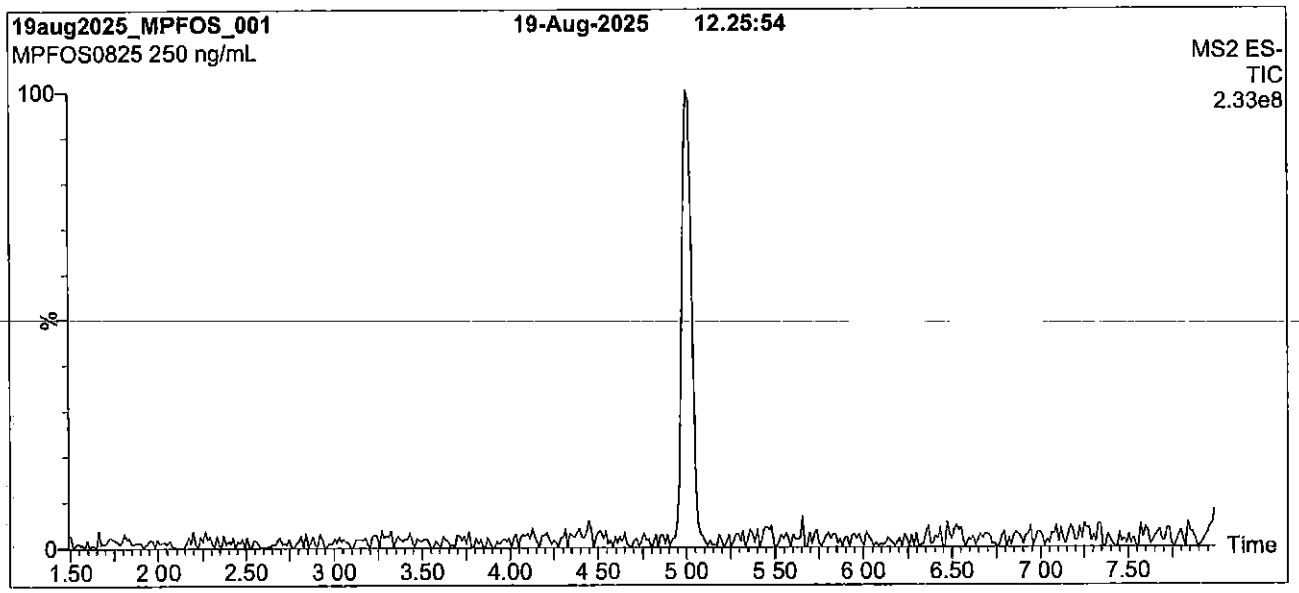
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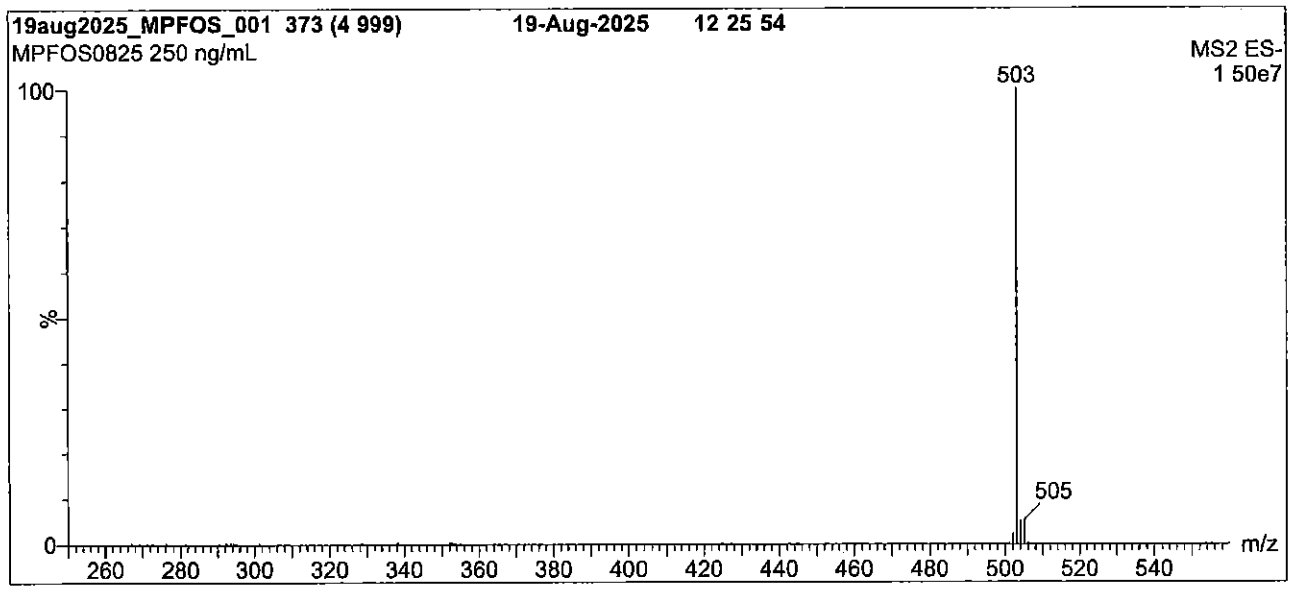
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

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Figure 1: **MPFOS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2 1 x 100 mm

Mobile phase: Gradient
Start. 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to Initial conditions in 0 5 min
Time: 12 min

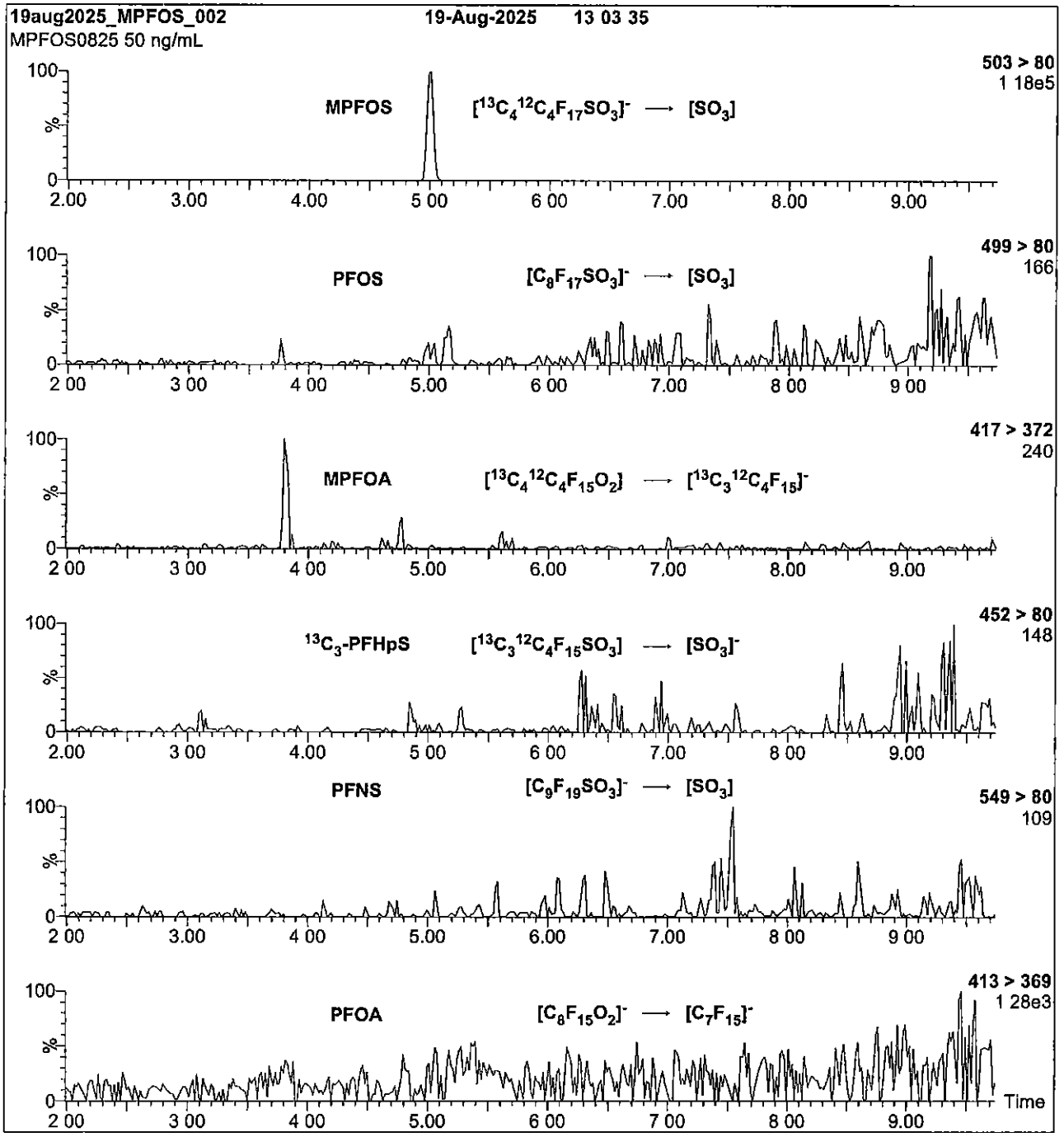
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFOS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection:	On-column (MPFOS)	**MS Parameters.**	
Mobile phase:	Same as Figure 1	Collision Gas (mbar) = 3.57e-3 Collision Energy (eV) = 42 (503 > 80)	
Flow:	300 µL/min		

Reagent

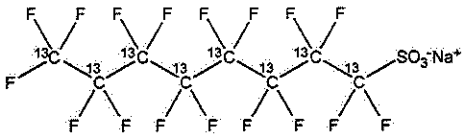
PFC_ST_05165

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-05165, 5166, 5167

PRODUCT CODE.	M8PFOS	**LOT NUMBER.**	M8PFOS1224
COMPOUND.	Sodium perfluoro-1-($^{13}C_8$)octanesulfonate		
STRUCTURE.		**CAS #:**	2522762-16-7



410-8660129

MOLECULAR FORMULA:	$^{13}C_8F_{17}SO_3Na$	**MOLECULAR WEIGHT:**	530.05
CONCENTRATION.	50 0 ± 2.5 µg/mL (Na salt) 47.9 ± 2.4 µg/mL (M8PFOS acid) 47.8 ± 2.4 µg/mL (M8PFOS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	01/02/2025		
EXPIRY DATE. (mm/dd/yyyy)	01/02/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains ~1 1% of sodium perfluoro-1-(1,2,3,4-$^{13}C_4$)octanesulfonate (MPFOS) and <0 1% of perfluoro-n-($^{13}C_8$)octanoic acid (M8PFOA)

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date** 01/06/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is:

$$u_c(y(x\ \ x_2\ \ ..x_n)) = \sqrt{\sum_{i=1}^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

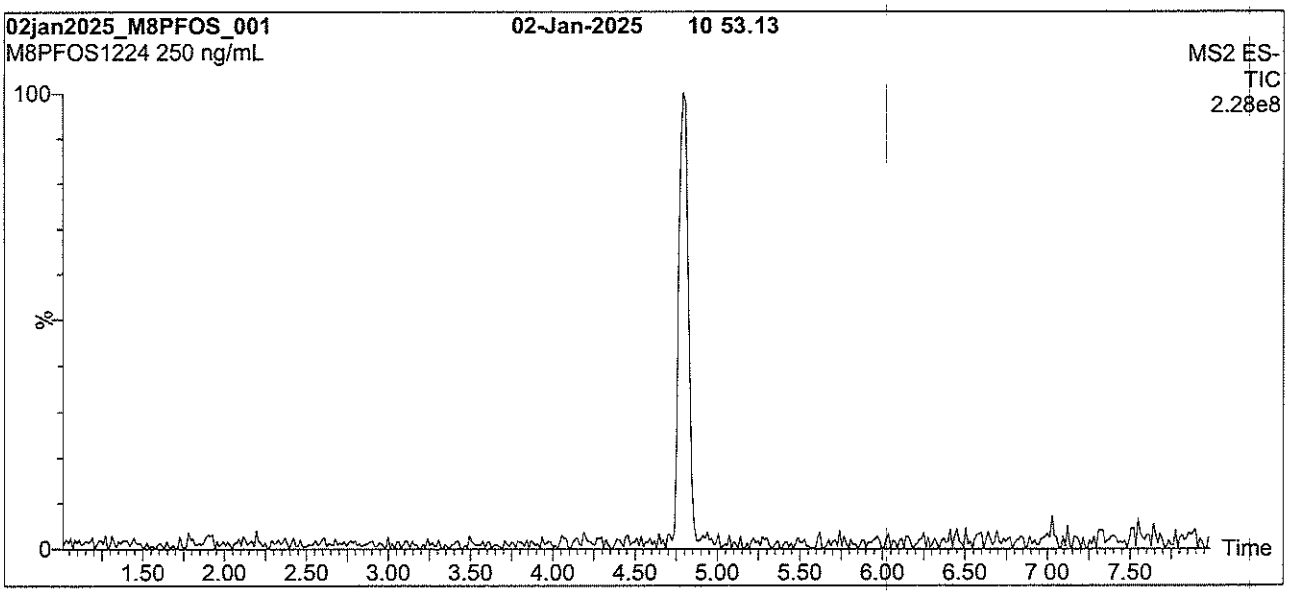
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

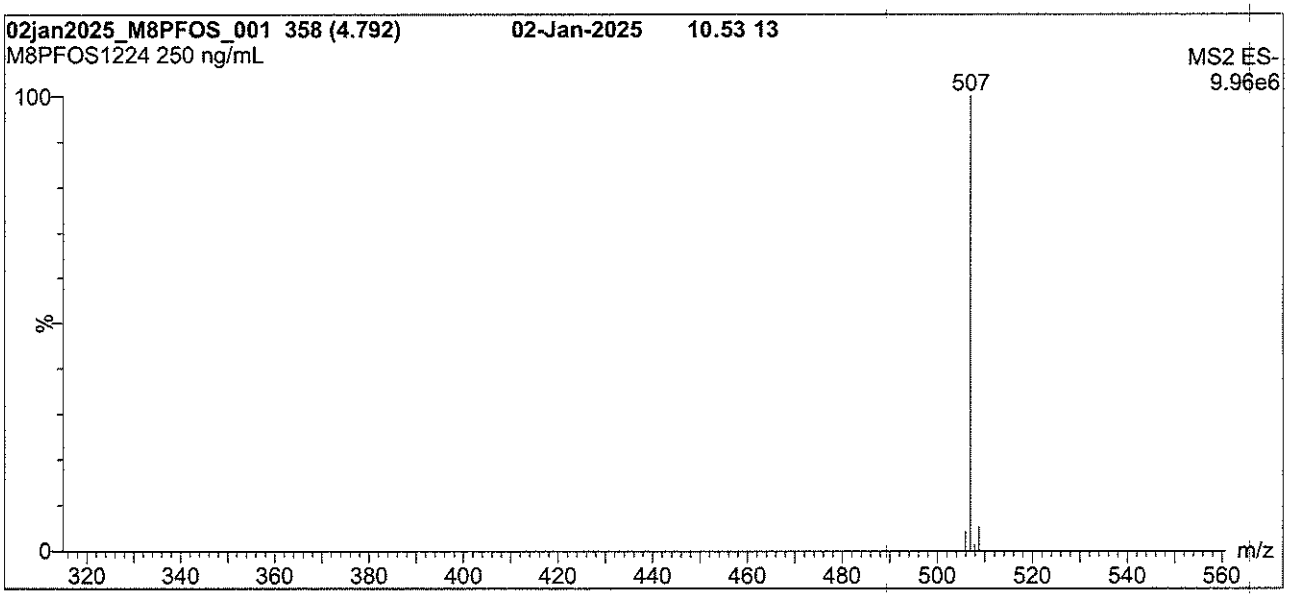
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **M8PFOS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

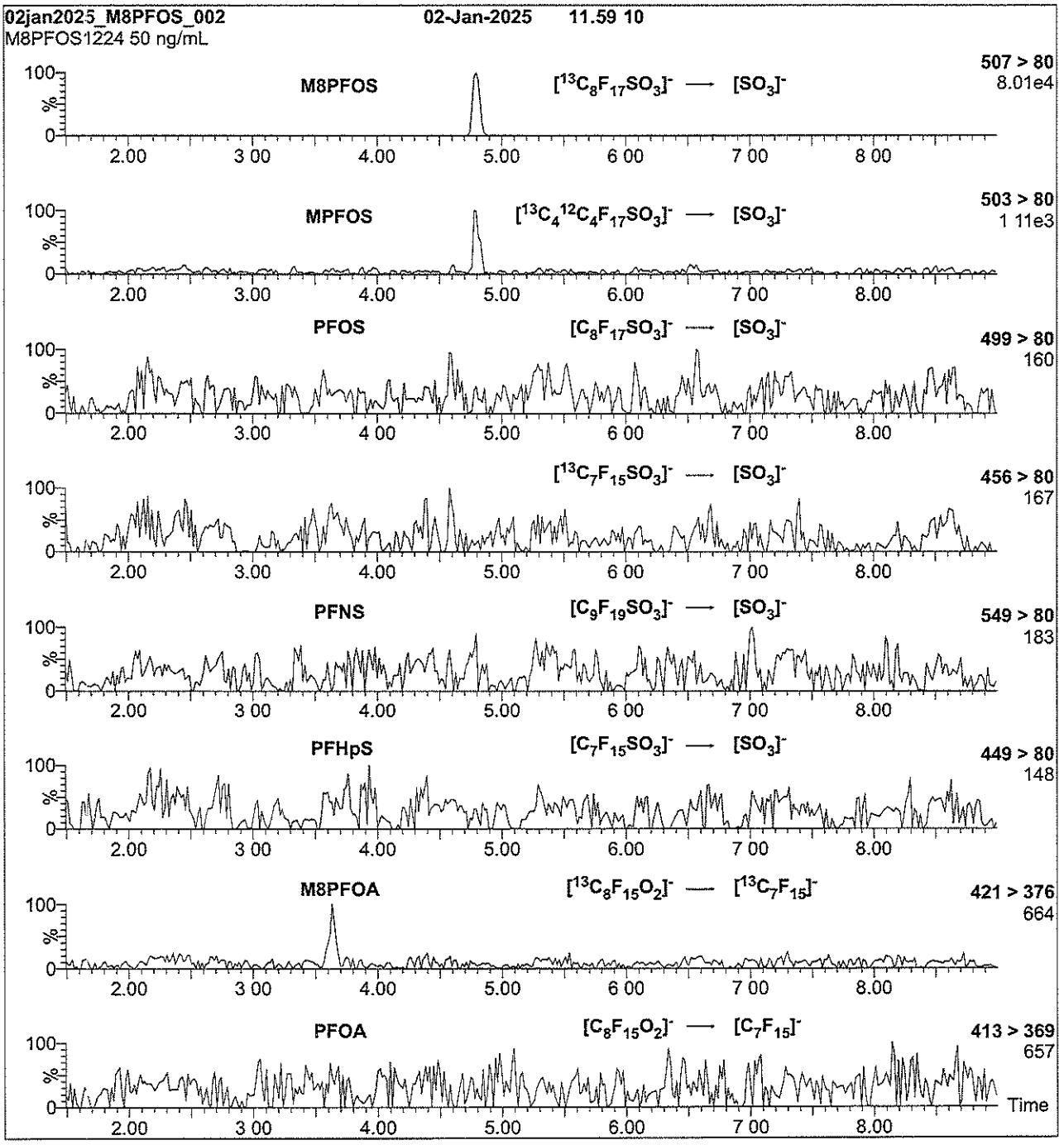
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8PFOS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M8PFOS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.87e-3
Collision Energy (eV) = 64

Reagent

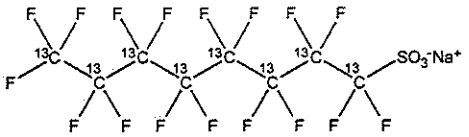
PFC_ST_05167

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST-05165, 5166, 5167

PRODUCT CODE.	M8PFOS	**LOT NUMBER:**	M8PFOS1224
COMPOUND.	Sodium perfluoro-1-($^{13}C_8$)octanesulfonate		
STRUCTURE.		**CAS #:**	2522762-16-7



410-8660132

MOLECULAR FORMULA:	$^{13}C_8F_{17}SO_3Na$	**MOLECULAR WEIGHT:**	530 05
CONCENTRATION.	50.0 ± 2 5 µg/mL (Na salt) 47.9 ± 2.4 µg/mL (M8PFOS acid) 47.8 ± 2.4 µg/mL (M8PFOS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	01/02/2025		
EXPIRY DATE. (mm/dd/yyyy)	01/02/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains ~1 1% of sodium perfluoro-1-(1,2,3,4-$^{13}C_4$)octanesulfonate (MPFOS) and <0 1% of perfluoro-n-($^{13}C_8$)octanoic acid (M8PFOA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: B.G. Chittim, General Manager **Date** 01/06/2025 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

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UNCERTAINTY:

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$$u_c(y(x_1\ x_2\ \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

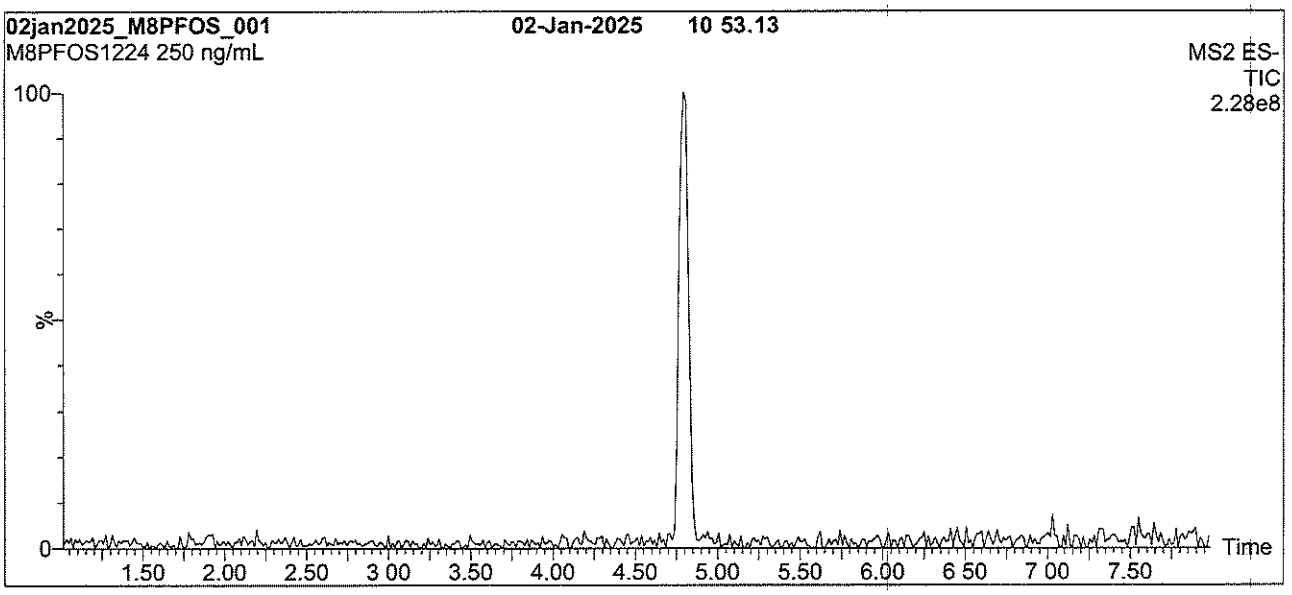
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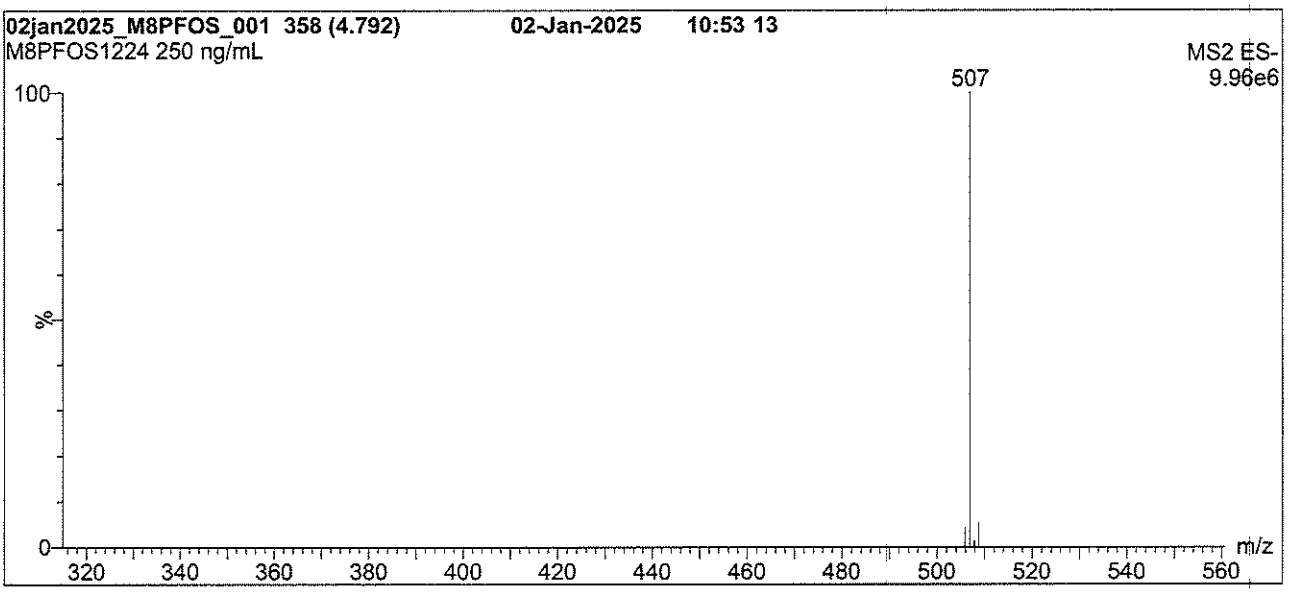
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **M8PFOS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

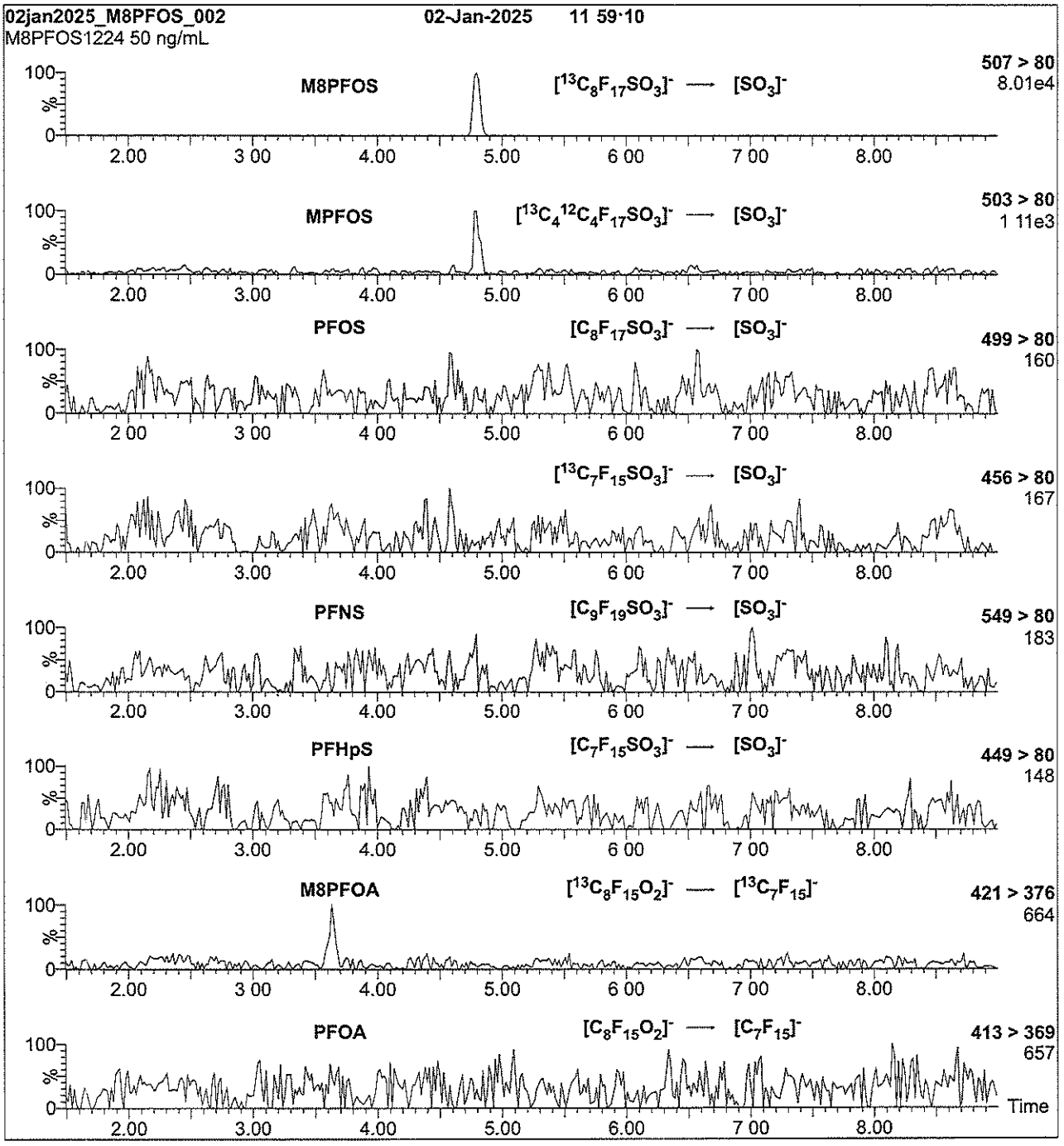
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8PFOS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection: On-column (M8PFOS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters.

Collision Gas (mbar) = 5.87e-3
Collision Energy (eV) = 64

Reagent

PFC_ST_05176

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

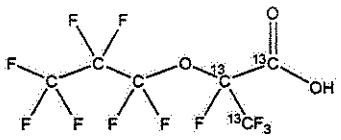
PFC-ST_5174, 5175, 5176, 5177, 5178

PRODUCT CODE. M3HFPO-DA **LOT NUMBER:** M3HFPODA0825

COMPOUND. $^{13}C_3$-Hexafluoropropylene oxide dimer acid ($^{13}C_3$-GenX)

IUPAC NAME. *rac*-2,3,3,3-Tetrafluoro-2-(1 1 2,2,3,3 3-heptafluoropropoxy)($^{13}C_3$)propanoic acid

STRUCTURE.



CAS #: 3030247-97-0

410-8660543

MOLECULAR FORMULA.	$^{13}C_3{}^{12}C_3HF_{11}O_3$	**MOLECULAR WEIGHT:**	333.03
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	08/19/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/19/2029		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- This compound is the $^{13}C_3$-labelled analogue of the major component of the commercial formulation known as GenX.
- M3HFPO-DA is a mixture of two stereoisomers (a pair of enantiomers) that coelute using the provided conditions.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date** 08/28/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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where x is expressed as a relative standard uncertainty of the individual parameter

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QUALITY MANAGEMENT:

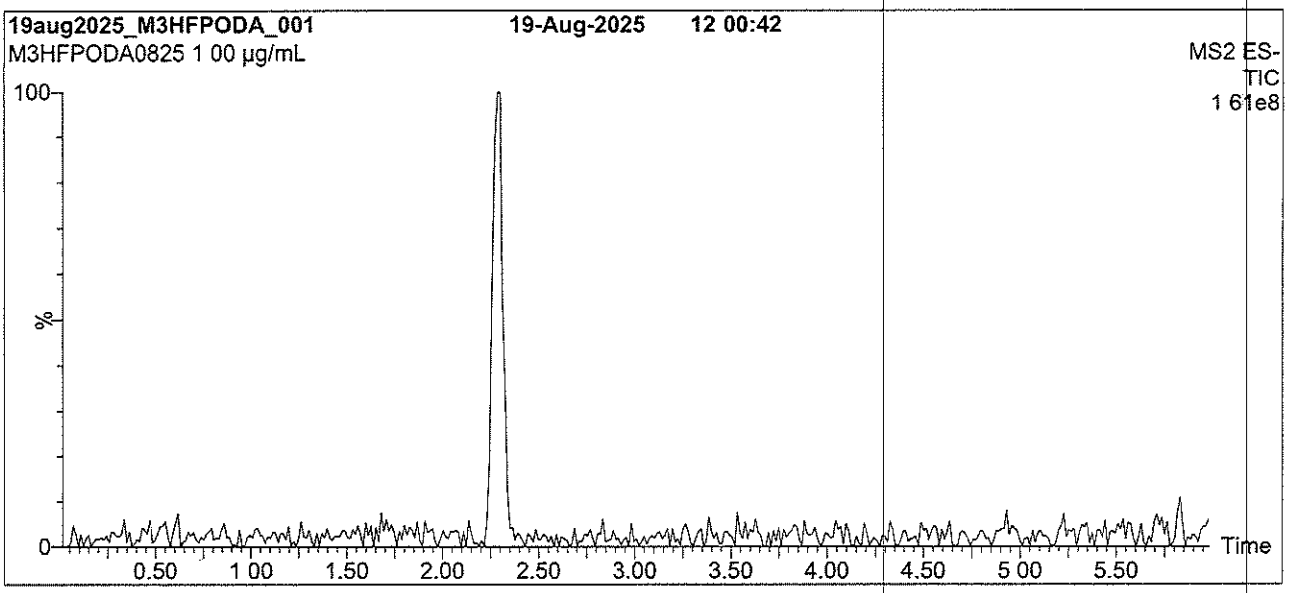
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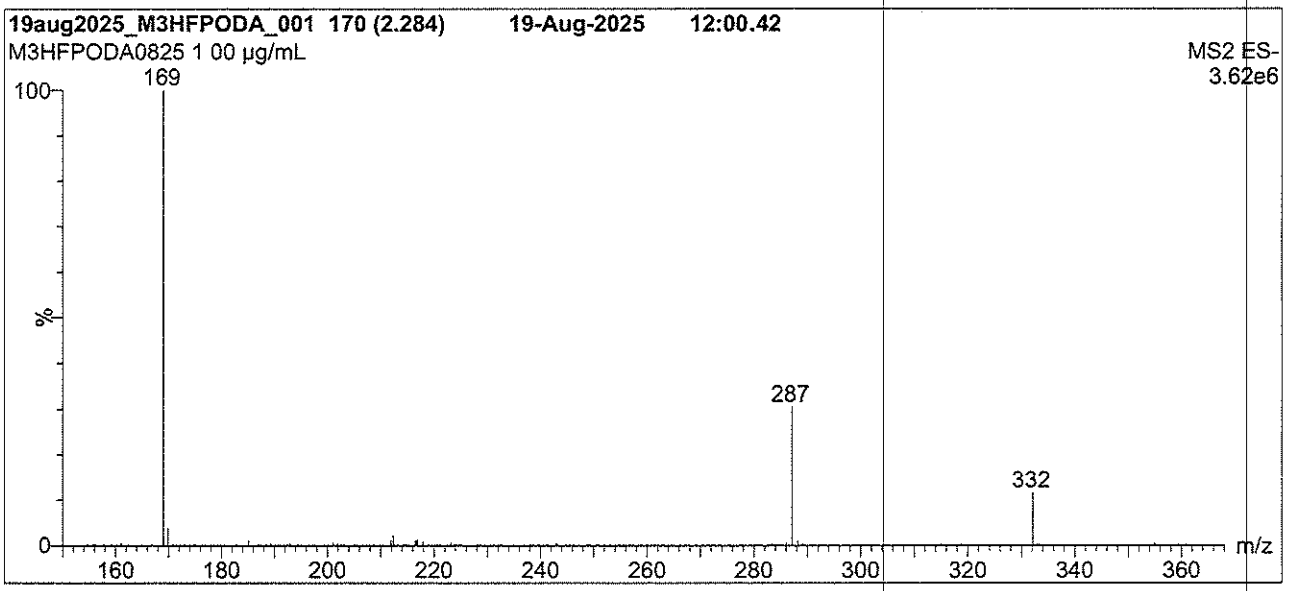
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M3HFPO-DA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

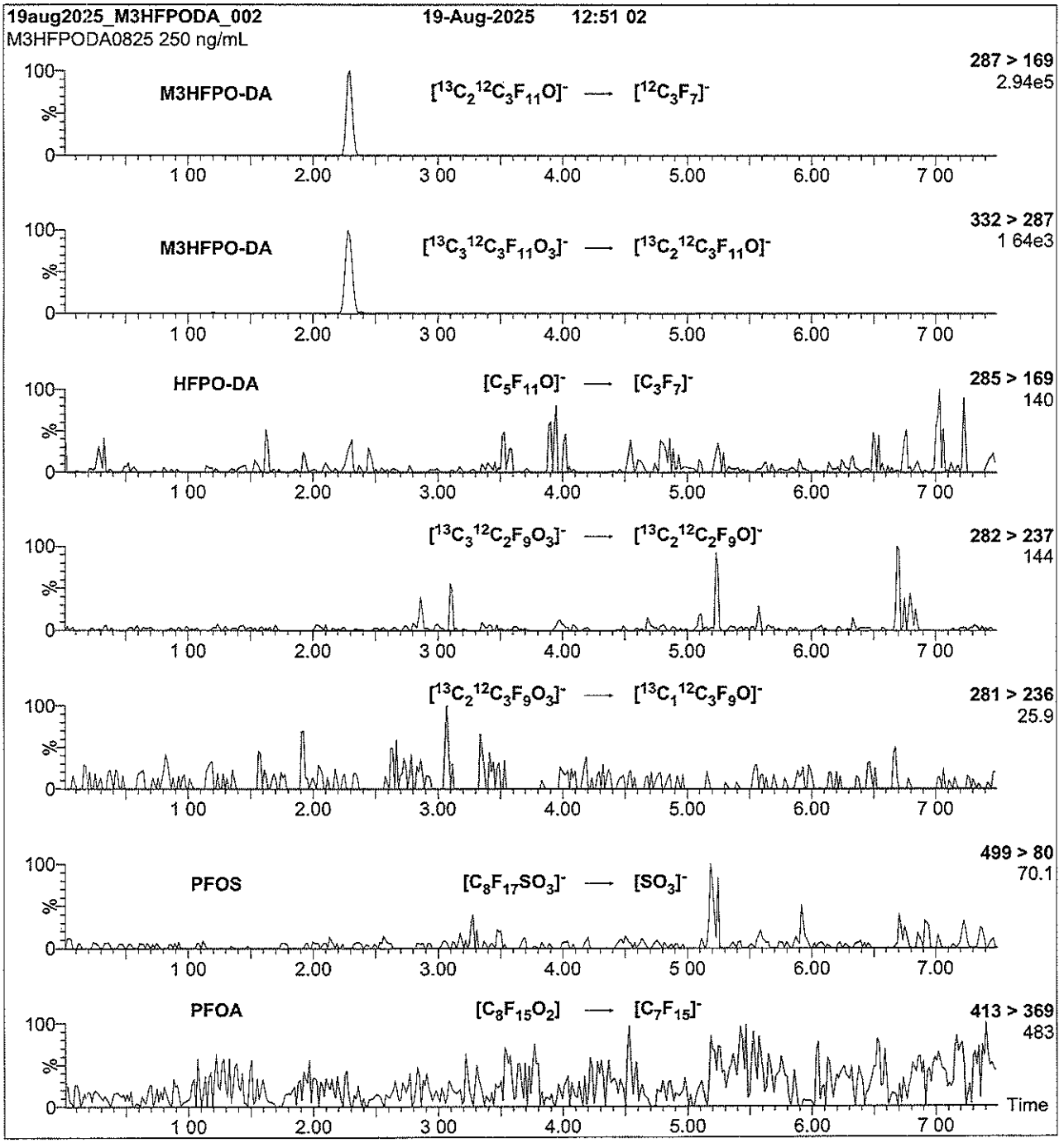
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3HFPO-DA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection: On-column (M3HFPO-DA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 8 (287 > 169)

Reagent

PFC_ST_05178

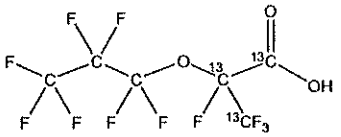
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST_ 5174, 5175, 5176, 5177, 5178

PRODUCT CODE.	M3HFPO-DA	**LOT NUMBER.**	M3HFPODA0825
COMPOUND.	$^{13}C_3$-Hexafluoropropylene oxide dimer acid ($^{13}C_3$-GenX)		
IUPAC NAME.	*rac*-2 3,3 3-Tetrafluoro-2-(1 1,2 2 3 3 3-heptafluoropropoxy)($^{13}C_3$)propanoic acid		

STRUCTURE.



CAS #: 3030247-97-0

410-8660547

MOLECULAR FORMULA.	$^{13}C_3{}^{12}C_3HF_{11}O_3$	**MOLECULAR WEIGHT:**	333 03
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	08/19/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/19/2029		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- This compound is the $^{13}C_3$-labelled analogue of the major component of the commercial formulation known as GenX.
- M3HFPO-DA is a mixture of two stereoisomers (a pair of enantiomers) that coelute using the provided conditions

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· B G. Chittim General Manager **Date** 08/28/2025 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS SFC/UV/MS x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS, LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation

The combined relative standard uncertainty $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is.

$$u_c(y(x_1\ x_2\quad x\ )) - \sqrt{\sum_{i=1} u(y\ x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

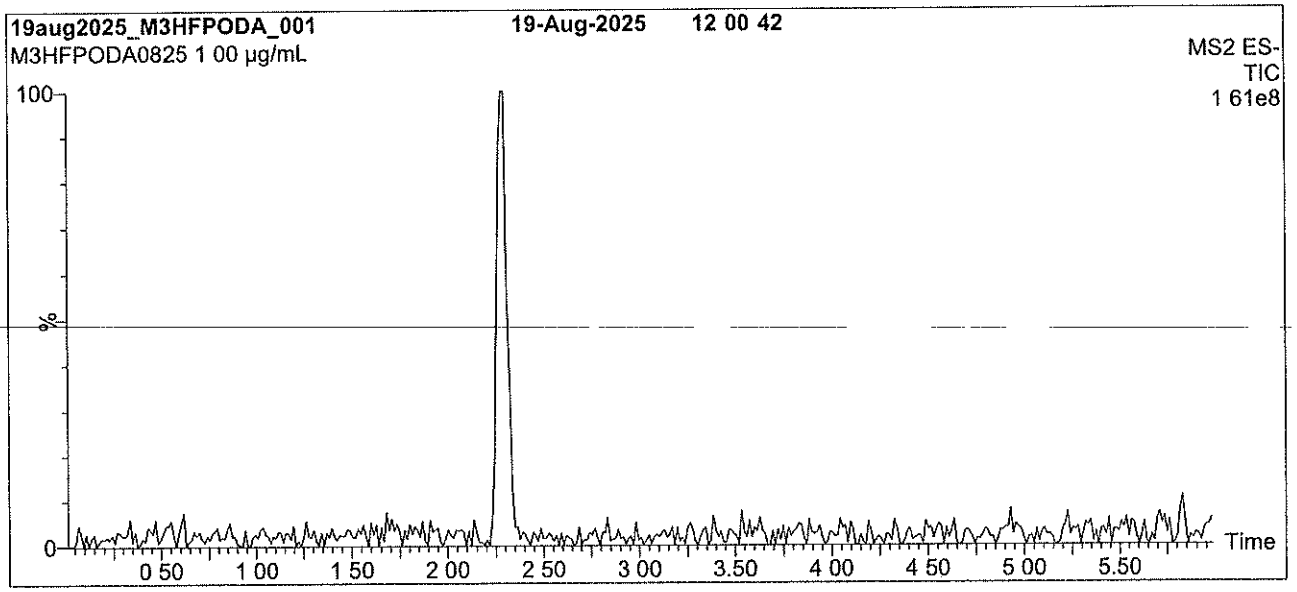
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523).

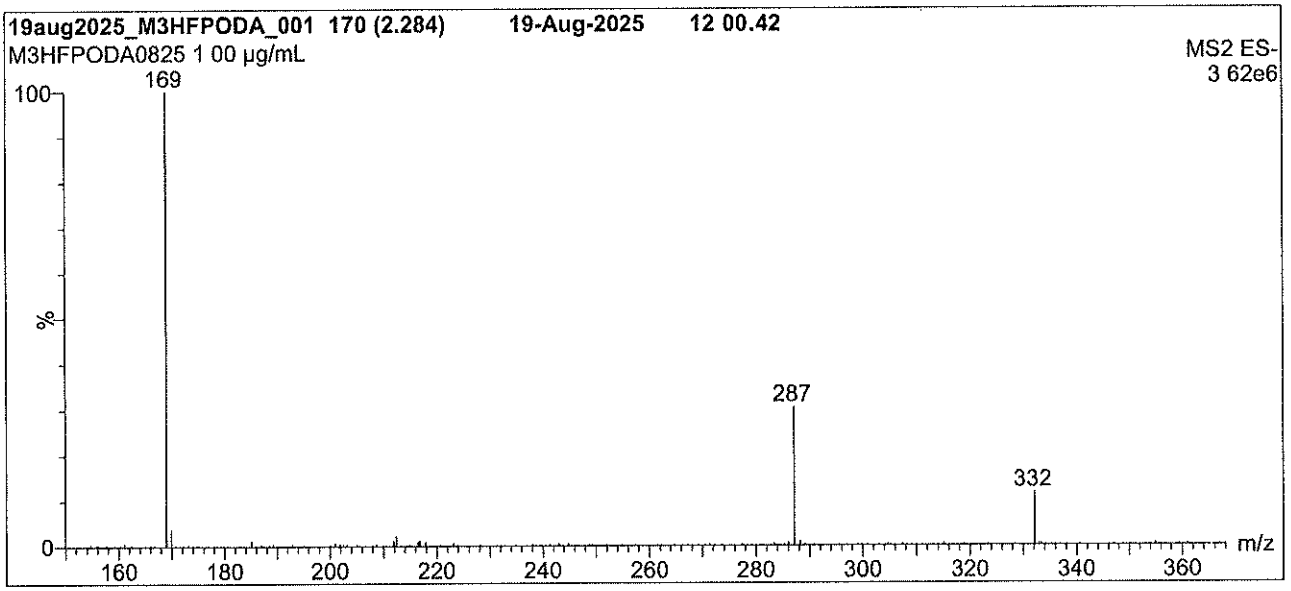
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **M3HFPO-DA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2 1 x 100 mm

Mobile phase: Gradient
Start. 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time· 12 min

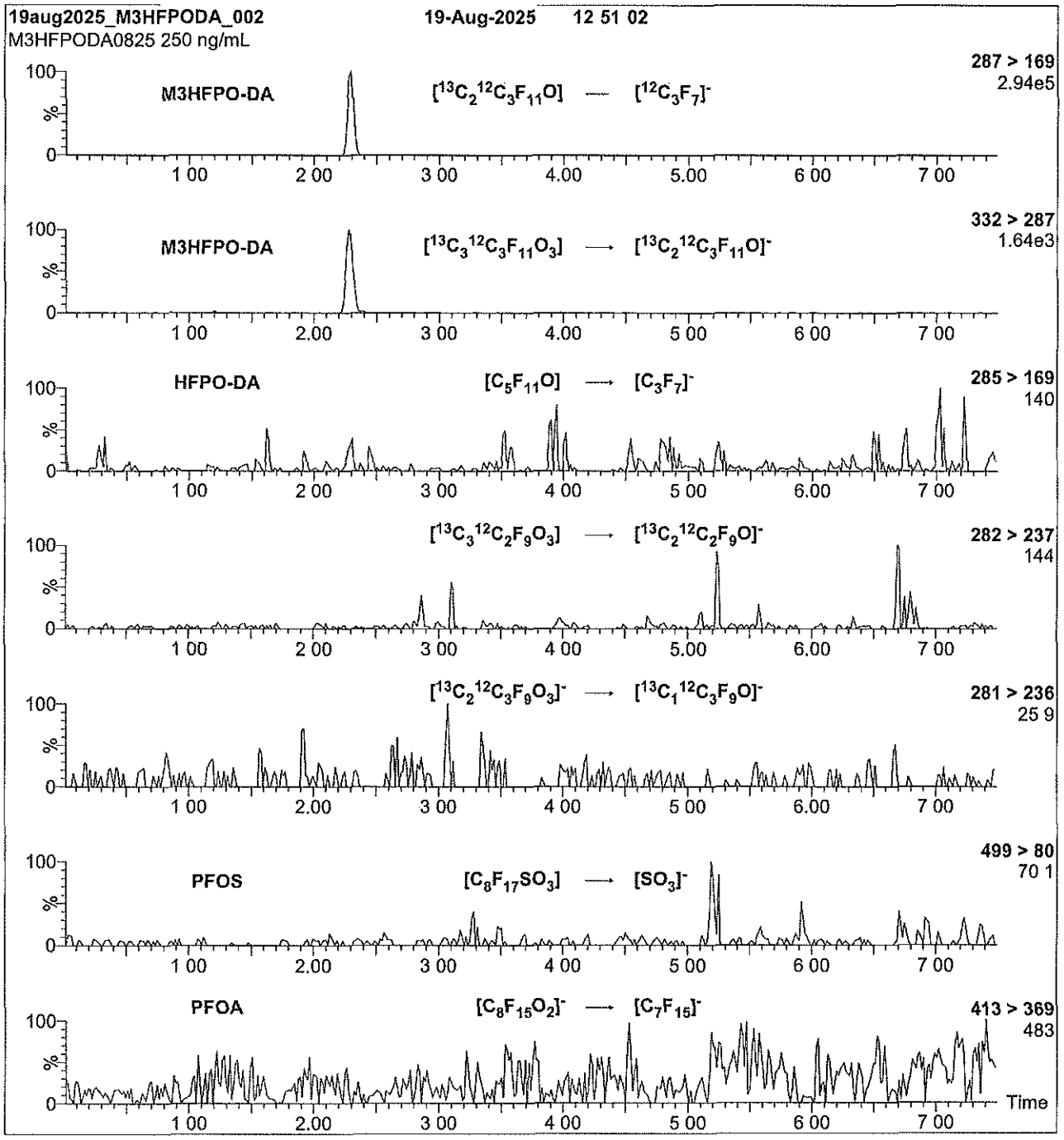
Flow· 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3HFPO-DA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection:	On-column (M3HFPO-DA)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 8 (287 > 169)

Reagent

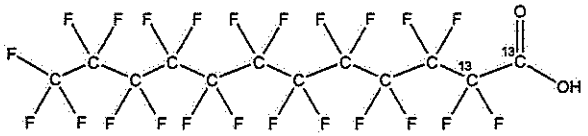
PFC_ST_05184

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST – 05183, 5184, 5185

PRODUCT CODE.	MPFDoA	**LOT NUMBER.**	MPFDoA0525
COMPOUND:	Perfluoro-n-(1,2-$^{13}C_2$)dodecanoic acid		
STRUCTURE.		**CAS #:**	960315-52-0



410-8660704

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_{10}HF_{23}O_2$	**MOLECULAR WEIGHT:**	616.08
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	05/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	05/28/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By· _____ **Date·** 05/30/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

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UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is.

$$u_c(y(x_1\ x\ \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

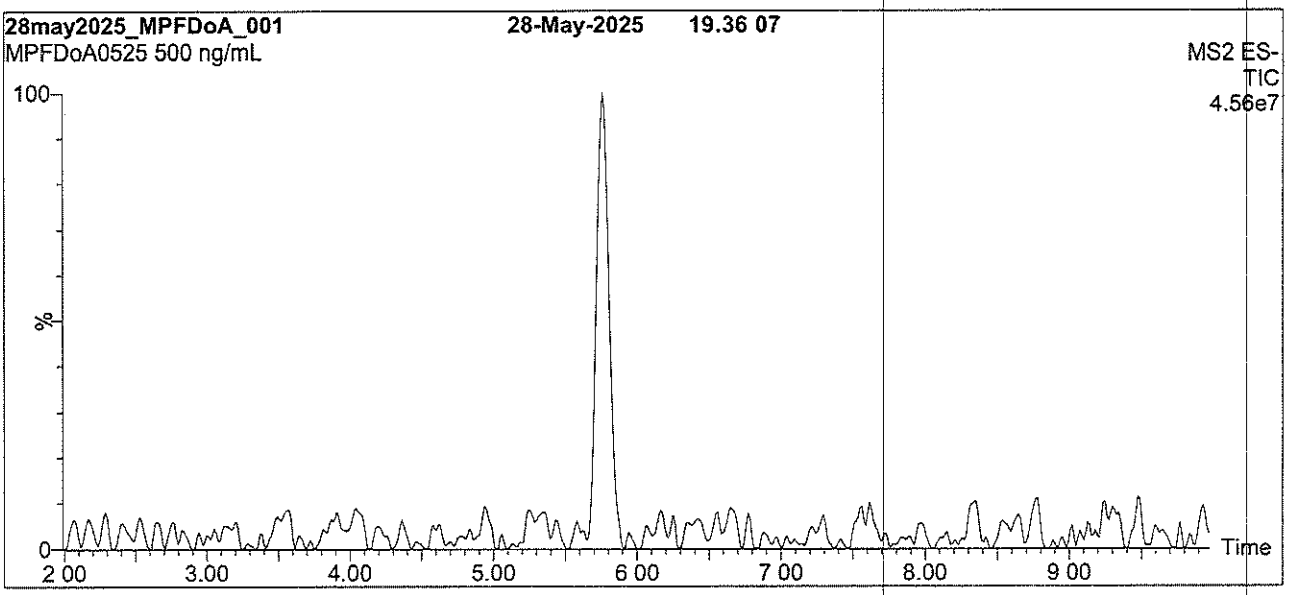
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 7025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB· AR-1523).

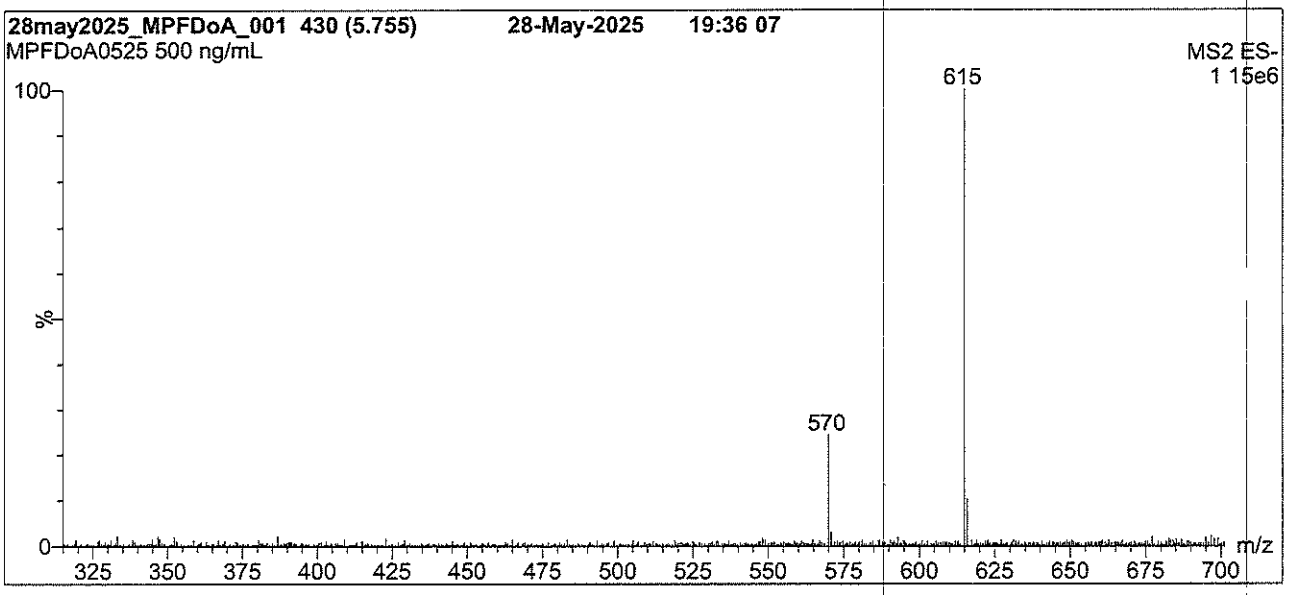
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **MPFDoA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

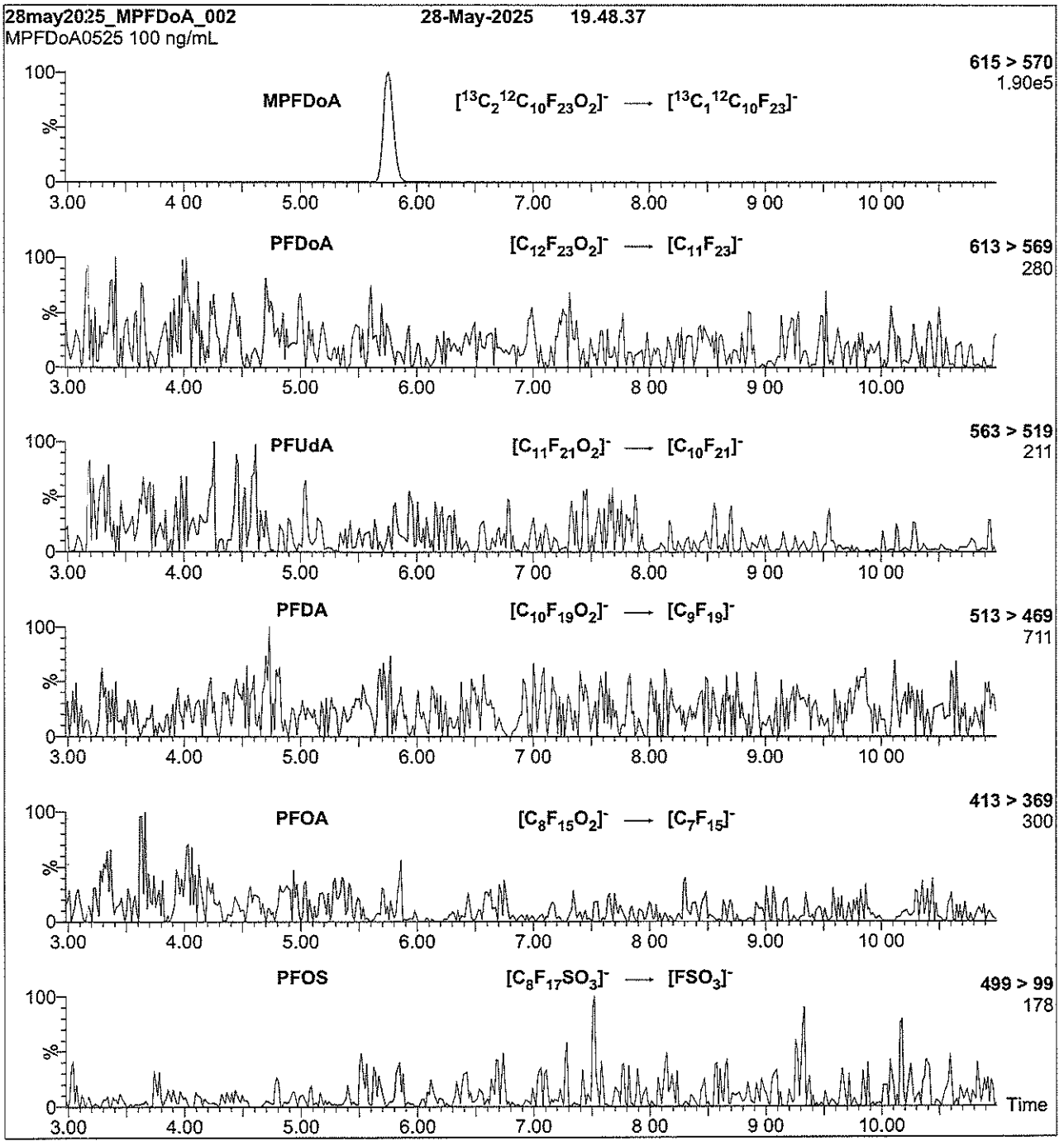
Flow· 300 µL/min

MS Parameters:

Experiment: Full Scan (315 850 amu)

Source· Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFDoA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (MPFDoA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.46e-3
Collision Energy (eV) = 12

Reagent

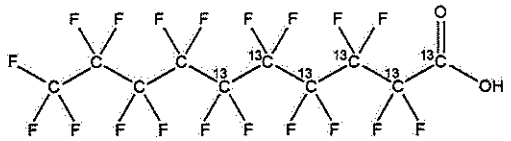
PFC_ST_05189

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ 5192, 5191, 5190, 5189

PRODUCT CODE.	M6PFDA	**LOT NUMBER.**	M6PFDA0925
COMPOUND.	Perfluoro-n-(1,2 3,4,5 6-$^{13}C_5$)decanoic acid		
STRUCTURE.		**CAS #:**	2328024-56-0



410-866074?

MOLECULAR FORMULA:	$^{13}C_6{}^{12}C_4HF_{19}O_2$	**MOLECULAR WEIGHT:**	520 04
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	09/23/2025		
EXPIRY DATE. (mm/dd/yyyy)	09/23/2030		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains 0.2% of perfluoro-n-(1,2,3,4,5-$^{13}C_5$)nonanoic acid (MPFNA).

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Certified By· _____ **Date** 09/24/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

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HOMOGENEITY:

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where x is expressed as a relative standard uncertainty of the individual parameter

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

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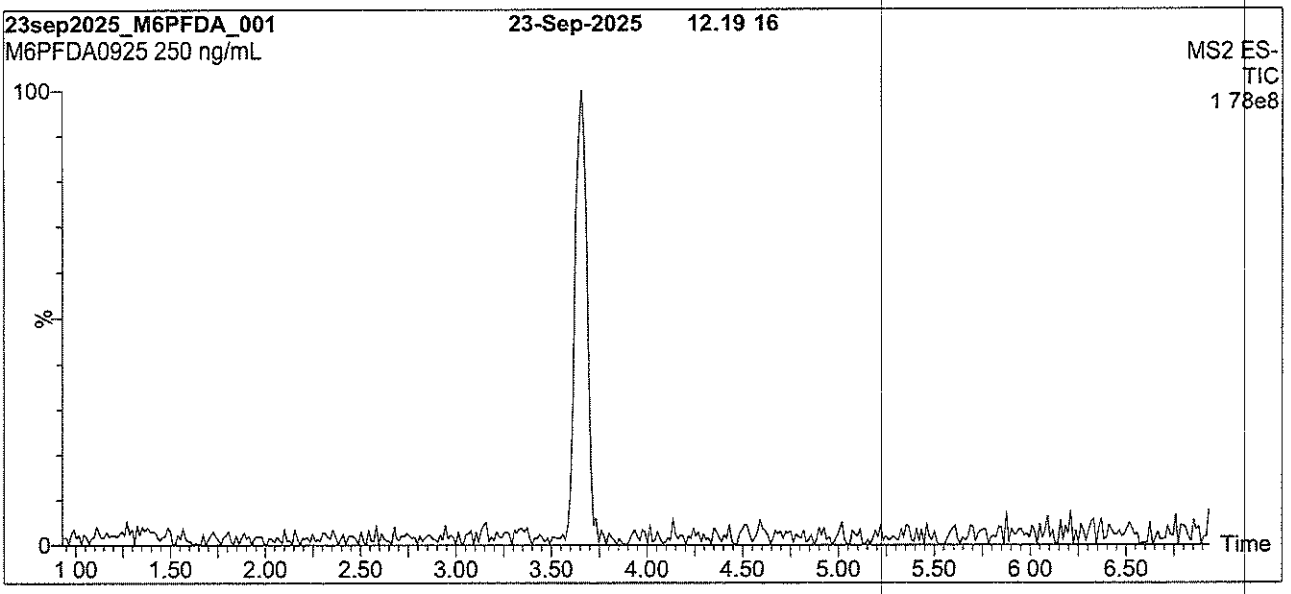
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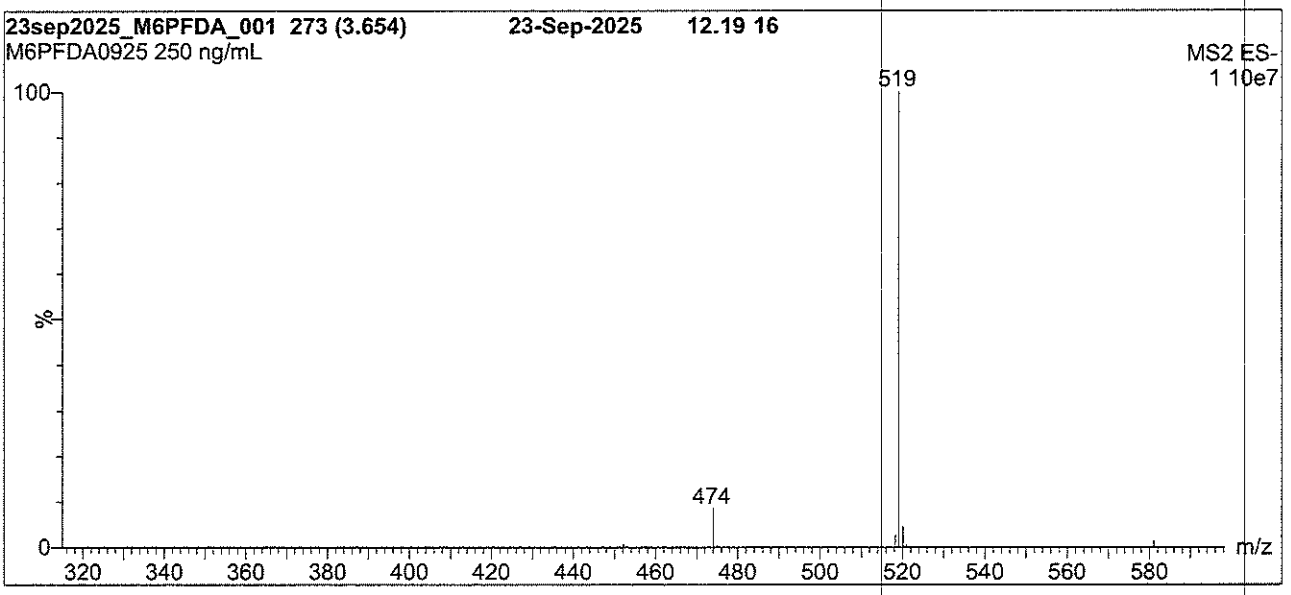
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M6PFDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

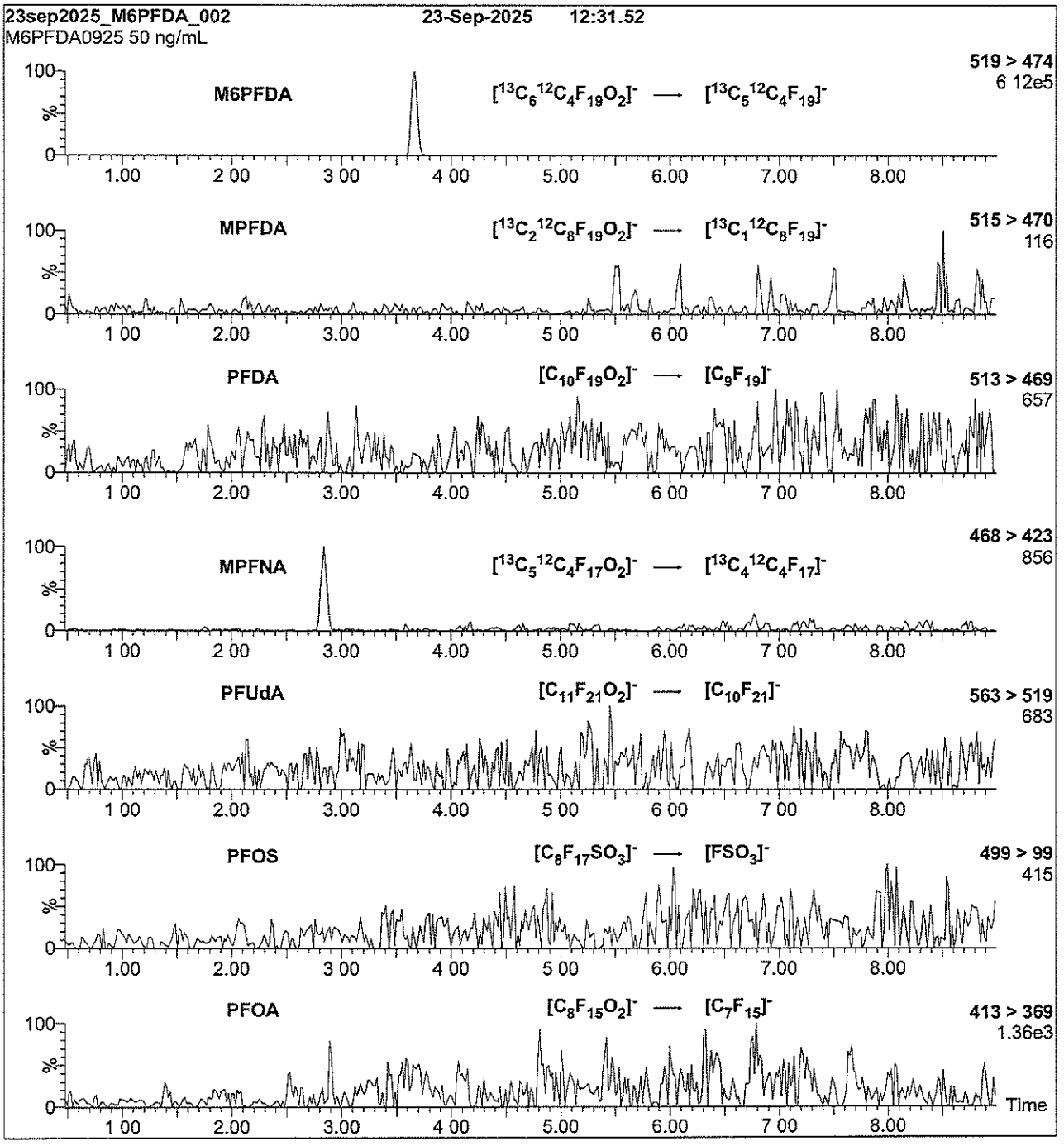
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M6PFDA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M6PFDA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters.

Collision Gas (mbar) = 3 71e-3
Collision Energy (eV) = 10 (519 > 474)

Reagent

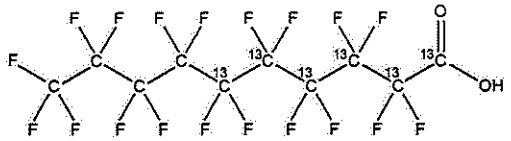
PFC_ST_05191

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ 5192, 5191, 5190, 5189

PRODUCT CODE.	M6PFDA	**LOT NUMBER.**	M6PFDA0925
COMPOUND.	Perfluoro-n-(1 2,3,4,5 6-$^{13}C_5$)decanoic acid		
STRUCTURE.		**CAS #:**	2328024-56-0



410-8660/44

MOLECULAR FORMULA:	$^{13}C_6{}^{12}C_4HF_{19}O_2$	**MOLECULAR WEIGHT:**	520.04
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	09/23/2025		
EXPIRY DATE. (mm/dd/yyyy)	09/23/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
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Certified By: _____ **Date·** 09/24/2025 (mm/dd/yyyy)
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HOMOGENEITY:

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation.

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1 x_2 $..x_n$ on which it depends is.

$$u_c(y(x_1\ x_2\ ..x_n)) = \sqrt{\sum_{i=1}^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

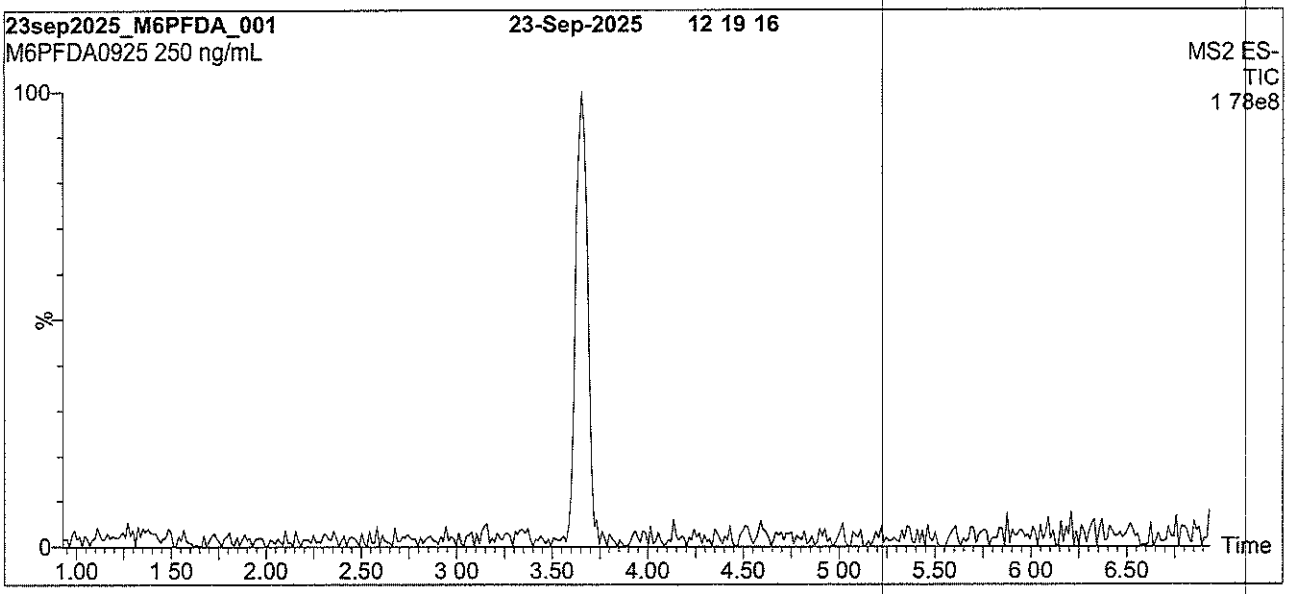
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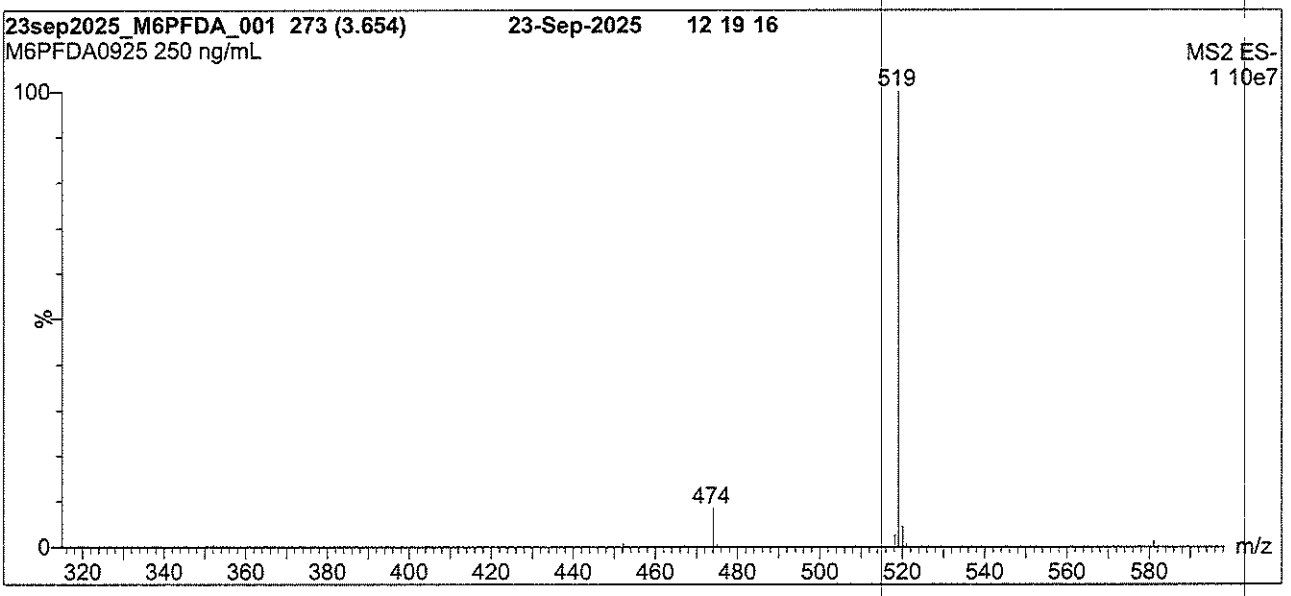
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M6PFDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

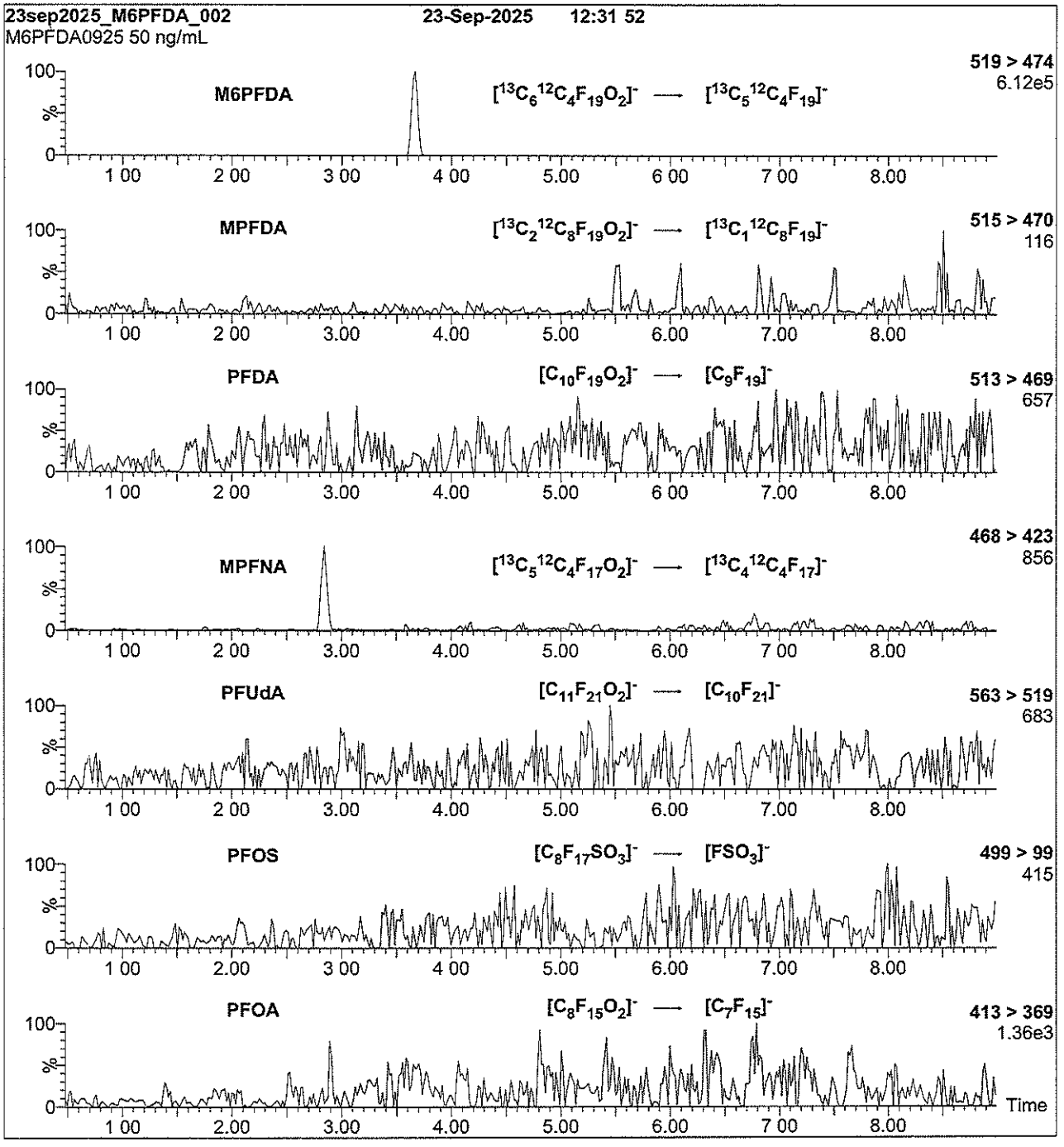
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M6PFDA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M6PFDA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.71e-3
Collision Energy (eV) = 10 (519 > 474)

Reagent

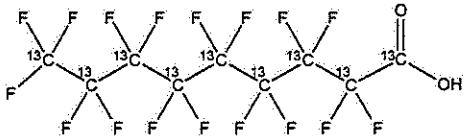
PFC_ST_05195

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ 5193, 5194, 5195, 5196

PRODUCT CODE.	M9PFNA	**LOT NUMBER.**	M9PFNA0625
COMPOUND.	Perfluoro-n-($^{13}C_9$)nonanoic acid		
STRUCTURE.		**CAS #:**	2283397-80-6



410-8660782

MOLECULAR FORMULA:	$^{13}C_9HF_{17}O_2$	**MOLECULAR WEIGHT:**	473.01
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	07/04/2025		
EXPIRY DATE. (mm/dd/yyyy)	07/04/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~1 0% of perfluoro-n-($^{13}C_5$)nonanoic acid (MPFNA).

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· _____ **Date** 07/15/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

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where x is expressed as a relative standard uncertainty of the individual parameter

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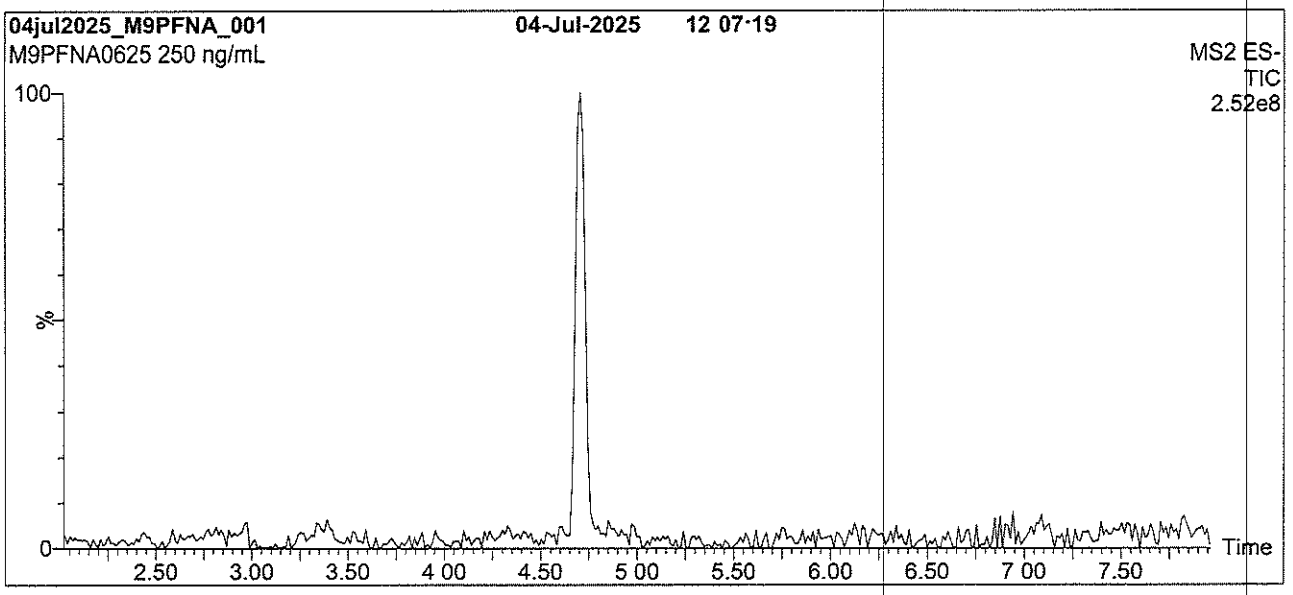
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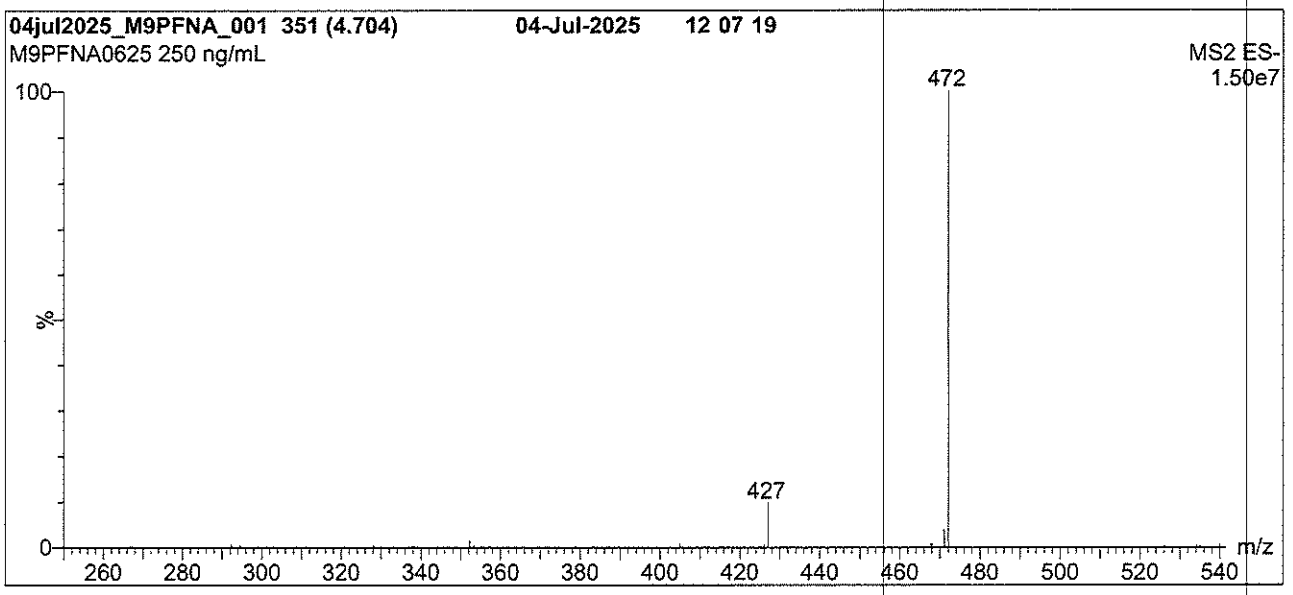
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M9PFNA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column. Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase. Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

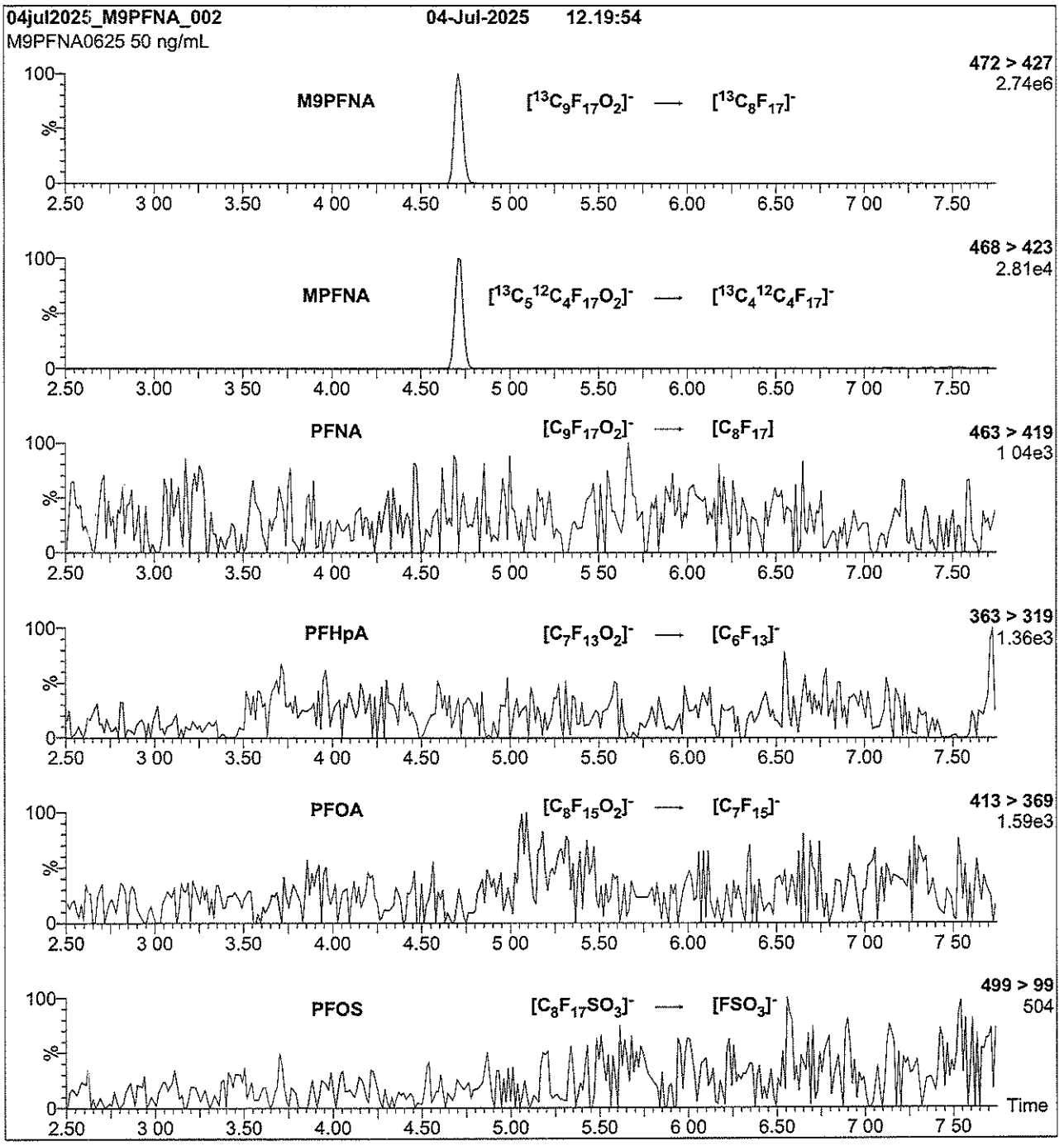
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M9PFNA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection.	On-column (M9PFNA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.09e-3
Collision Energy (eV) = 10

Reagent

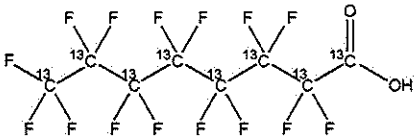
PFC_ST_05200

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST-GS197, 5198, 5199, 5200

PRODUCT CODE.	M8PFOA	**LOT NUMBER.**	M8PFOA0625
COMPOUND:	Perfluoro-n-($^{13}C_8$)octanoic acid		
STRUCTURE.		**CAS #:**	1350614-84-4



410-866078/

MOLECULAR FORMULA.	$^{13}C_8HF_{15}O_2$	**MOLECULAR WEIGHT:**	422 01
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	06/30/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/30/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~1 1% of perfluoro-n-($^{13}C_4$)octanoic acid (MPFOA).

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 07/08/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

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SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS, SFC/UV/MS x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

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UNCERTAINTY:

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where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

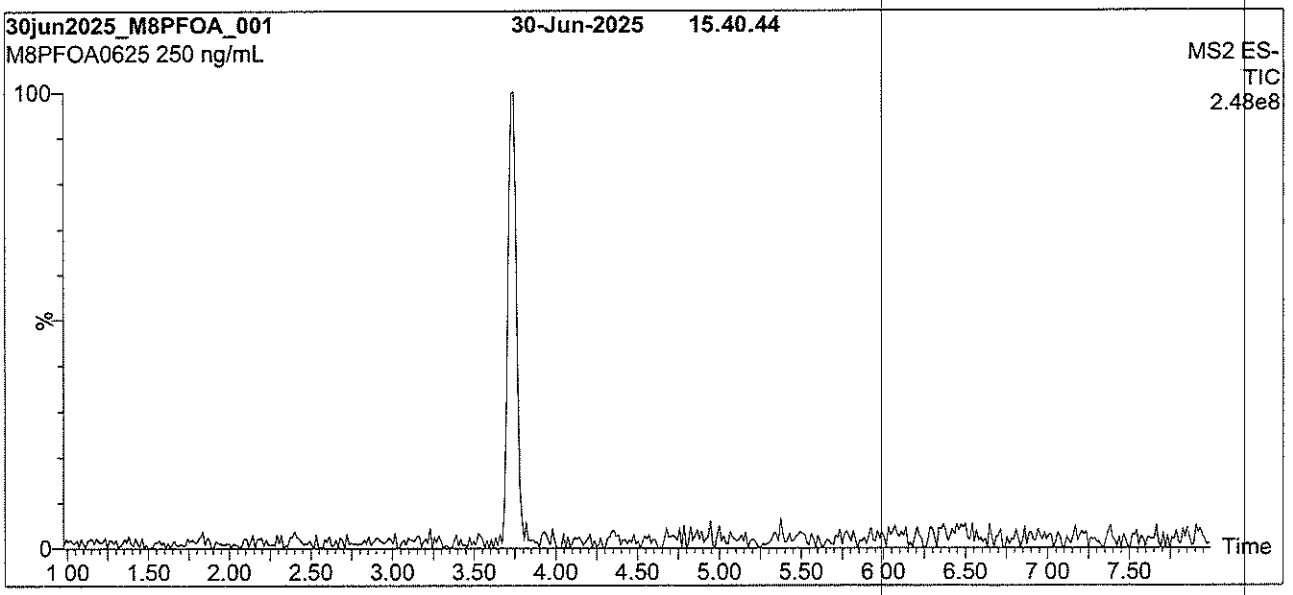
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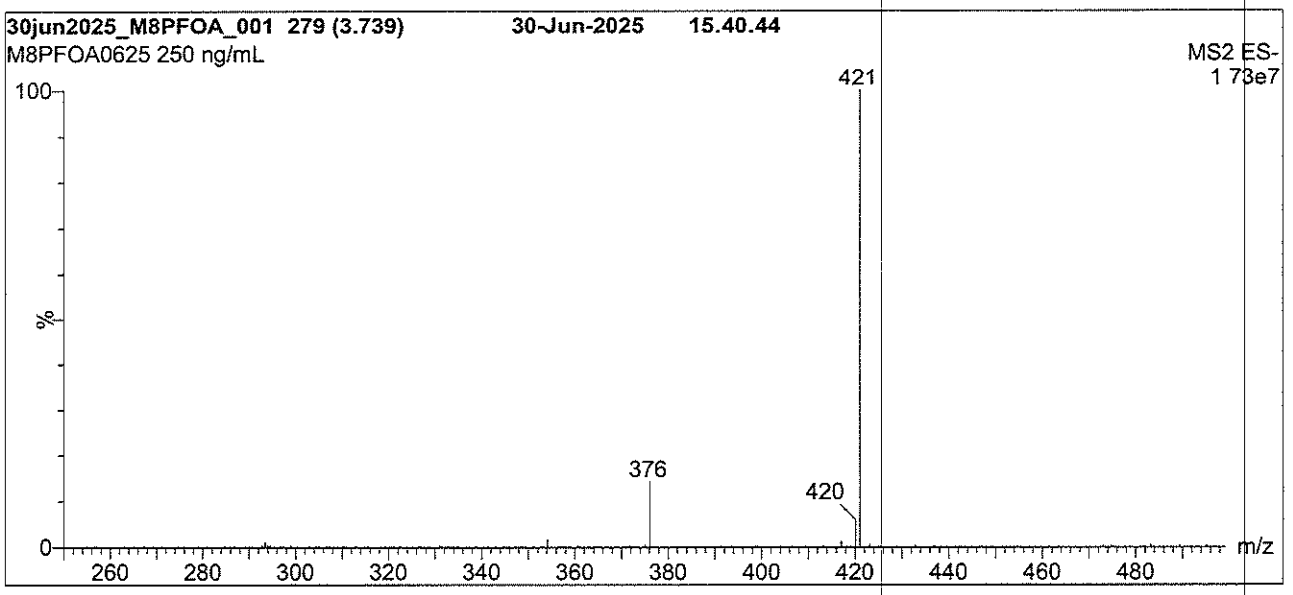
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **M8PFOA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

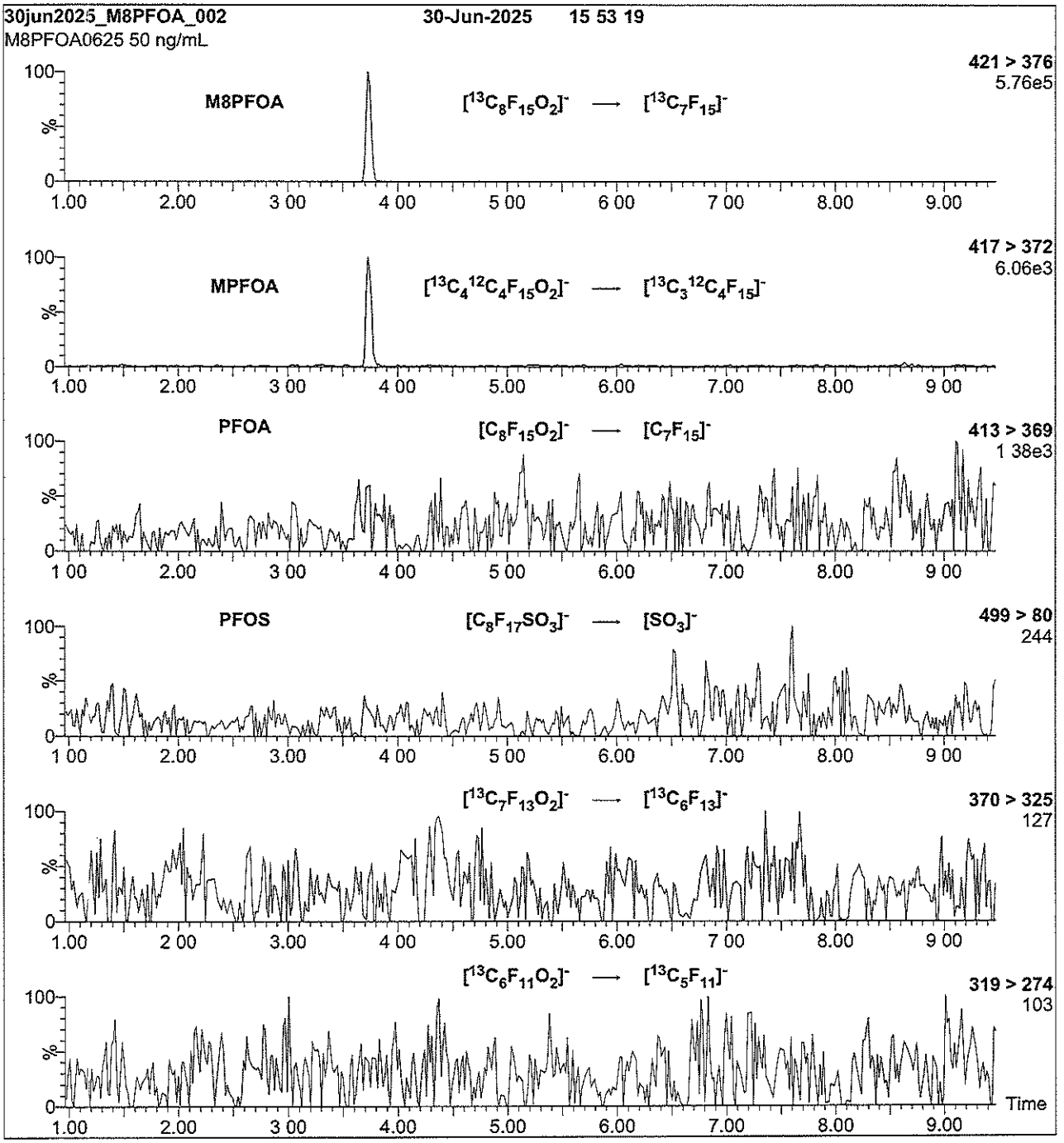
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8PFOA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection:	On-column (M8PFOA)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 8

Reagent

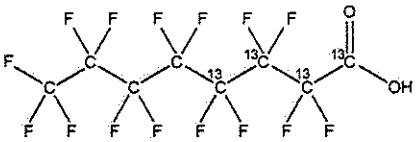
PFC_ST_05201

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_S20!

PRODUCT CODE.	MPFOA	**LOT NUMBER.**	MPFOA0525
COMPOUND.	Perfluoro-n-(1,2,3,4-$^{13}C_4$)octanoic acid		
STRUCTURE.		**CAS #:**	960315-48-4



410-8660862

MOLECULAR FORMULA.	$^{13}C_4{}^{12}C_4HF_{15}O_2$	**MOLECULAR WEIGHT:**	418.04
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	06/05/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/05/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By _____ **Date** 06/20/2025 (mm/dd/yyyy)
B G. Chittim General Manager

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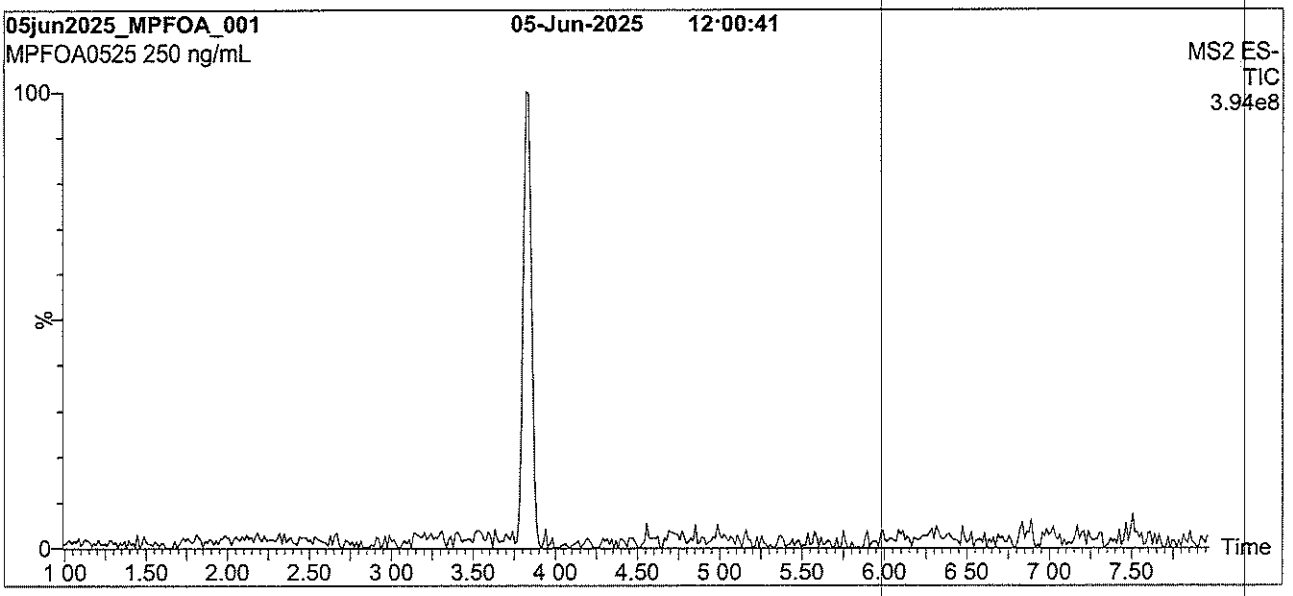
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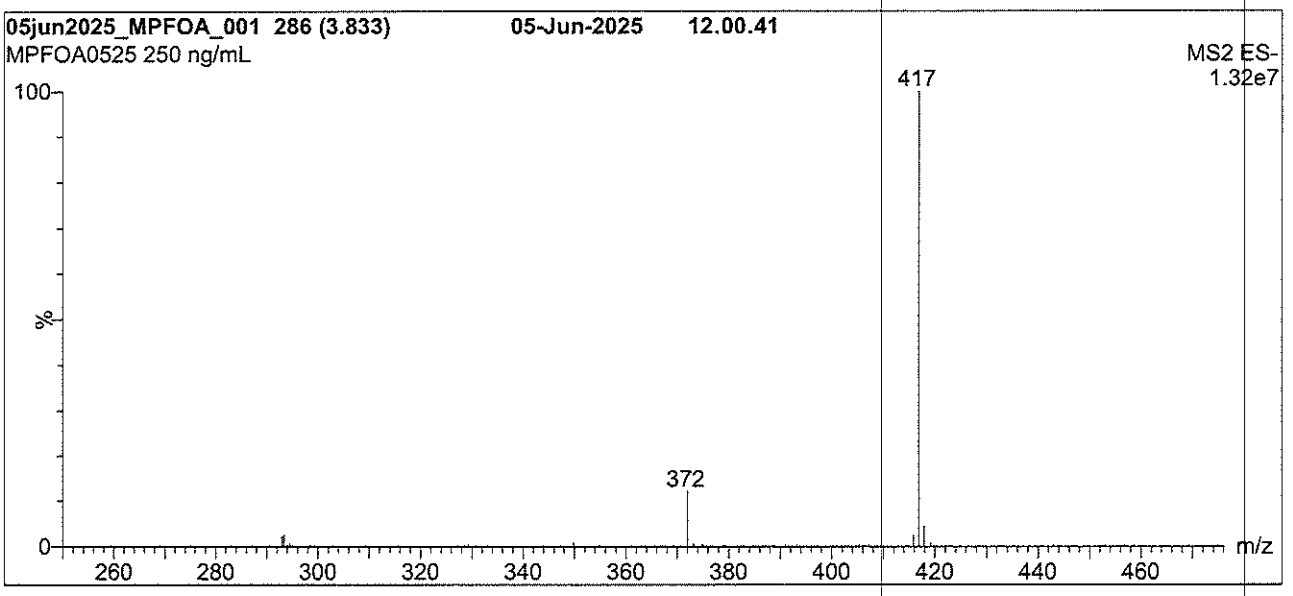
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **MPFOA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column. Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

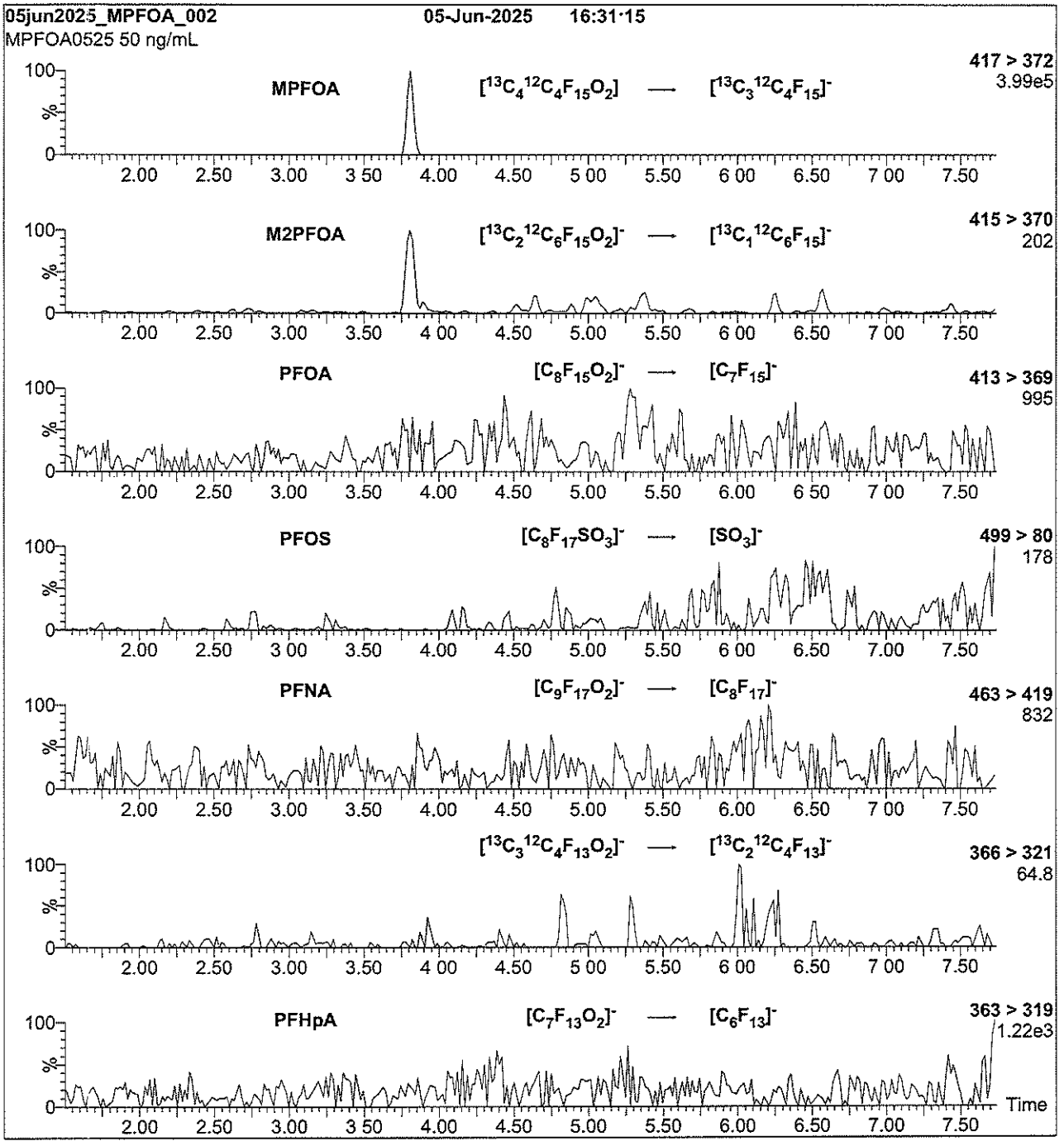
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFOA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection. On-column (MPFOA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.76e-3
Collision Energy (eV) = 8

Reagent

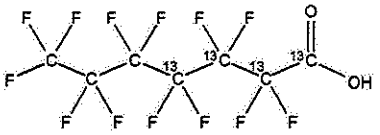
PFC_ST_05204

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST- 5207, 5206, 5205, 5204

PRODUCT CODE.	M4PFHpA	**LOT NUMBER.**	M4PFHpA0725
COMPOUND.	Perfluoro-n-(1 2 3,4-$^{13}C_4$)heptanoic acid		
STRUCTURE.		**CAS #:**	2328024-55-9



410-8660940

MOLECULAR FORMULA.	$^{13}C_4{}^{12}C_3HF_{13}O_2$	**MOLECULAR WEIGHT:**	368 03
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	07/16/2025		
EXPIRY DATE. (mm/dd/yyyy)	07/16/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date** 07/30/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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HANDLING:

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation.

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x x_2, x_n on which it depends is:

$$u_c(y(x_1\ x_2\ \ldots\ x_n)) = \sqrt{\sum_{i=1}^{n} u(y\ x_i)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

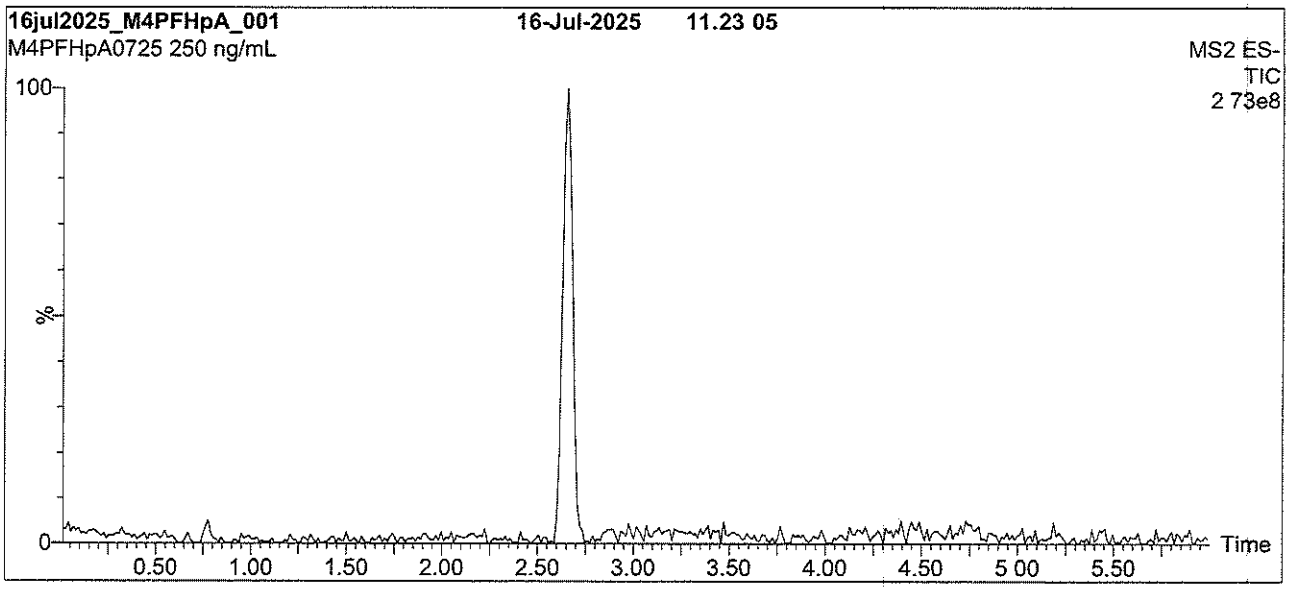
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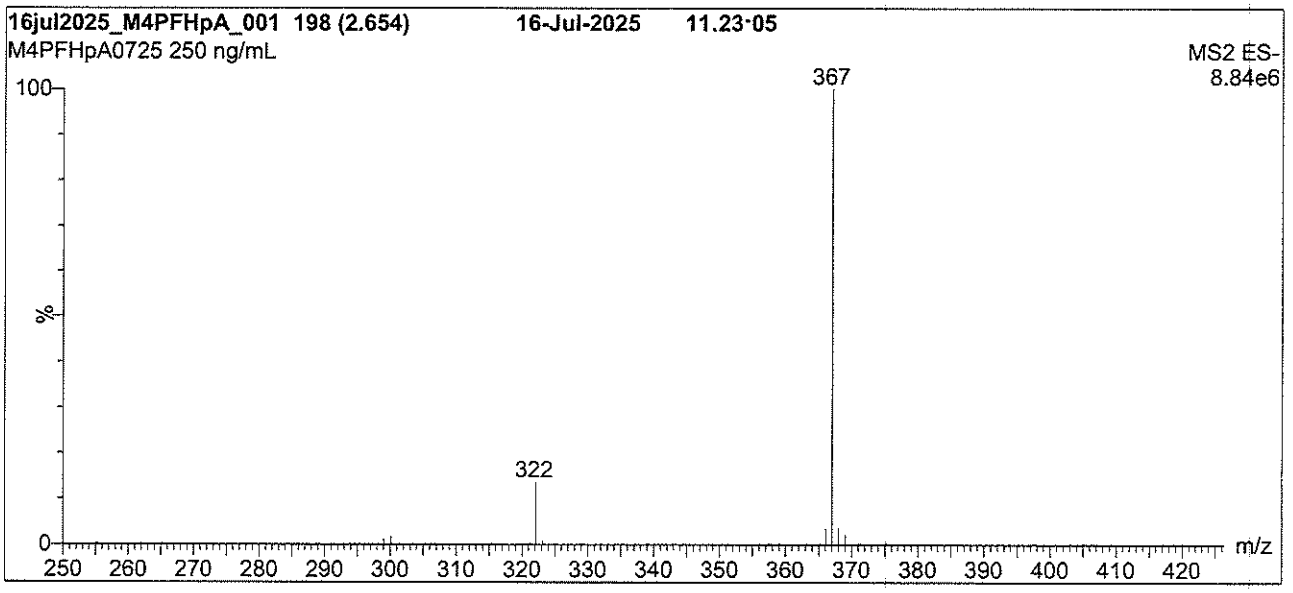
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M4PFHpA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

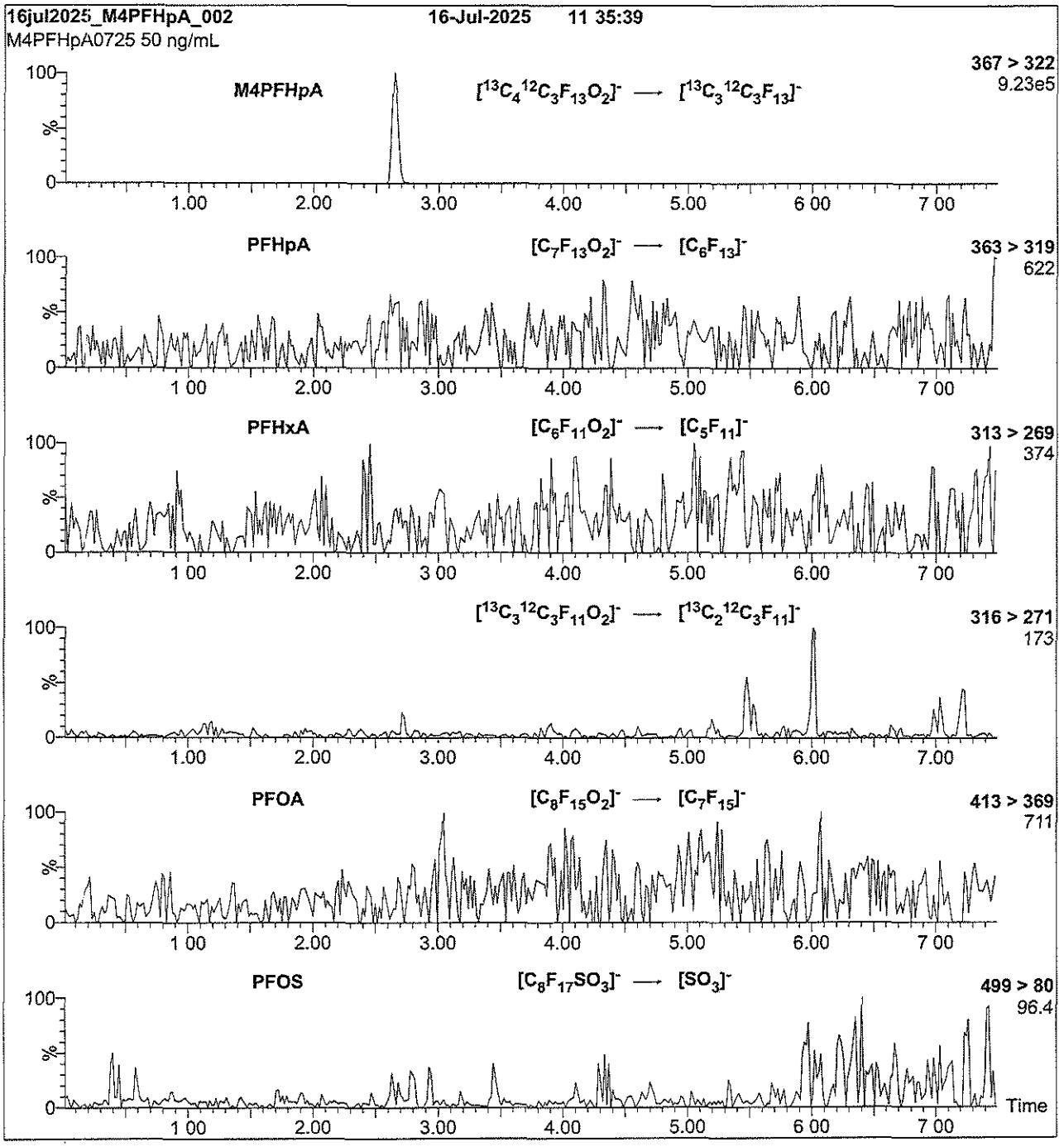
Flow- 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M4PFHpA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M4PFHpA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.49e-3
Collision Energy (eV) = 8

Reagent

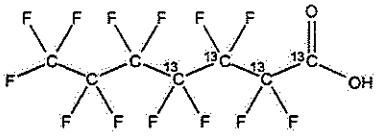
PFC_ST_05207

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST- 5207, 5206, 5205, 5204

PRODUCT CODE.	M4PFHpA	**LOT NUMBER.**	M4PFHpA0725
COMPOUND.	Perfluoro-n-(1,2,3,4-$^{13}C_4$)heptanoic acid		
STRUCTURE.		**CAS #:**	2328024-55-9



410-8660944

MOLECULAR FORMULA:	$^{13}C_4{}^{12}C_3HF_{13}O_2$	**MOLECULAR WEIGHT:**	368.03
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	07/16/2025		
EXPIRY DATE. (mm/dd/yyyy)	07/16/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· _____ **Date** 07/30/2025
(mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

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SYNTHESIS / CHARACTERIZATION.

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UNCERTAINTY:

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$$u_c(y(x_1\ x_2\ \ldots\ x_n)) = \sqrt{\sum_{i=1}^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

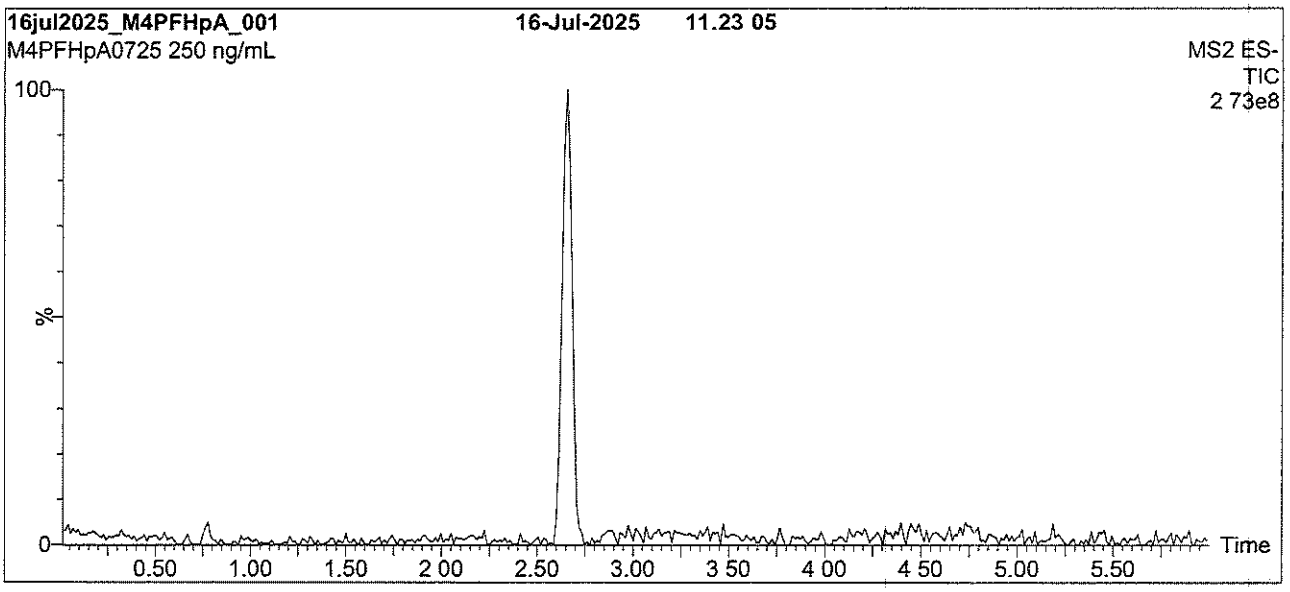
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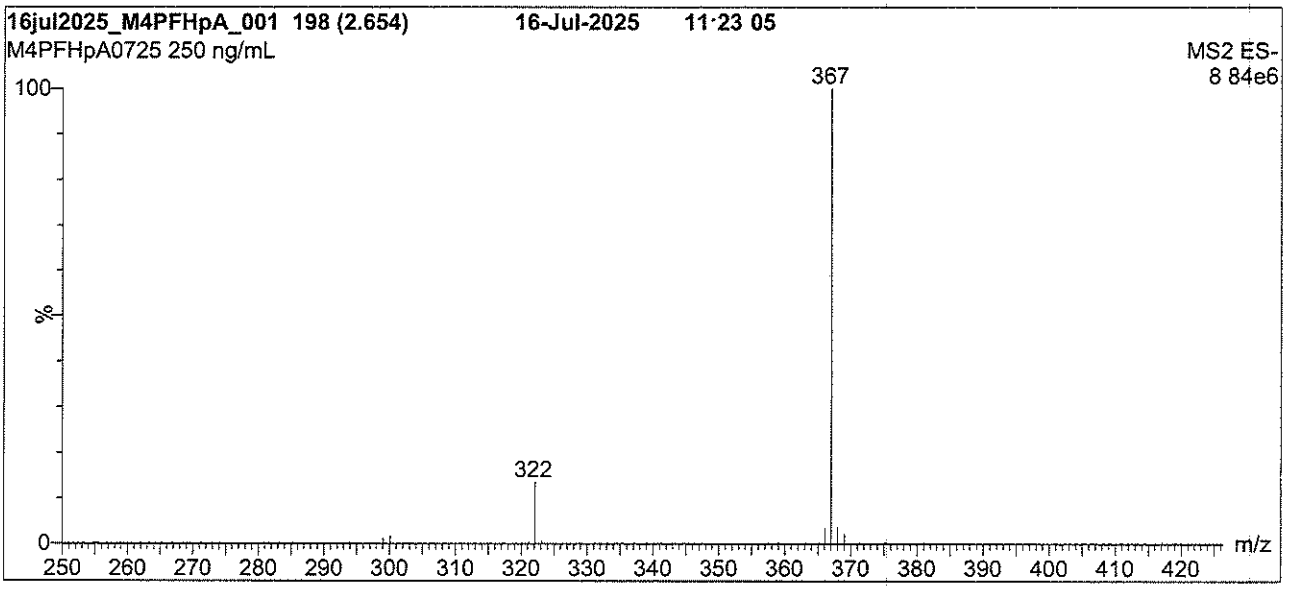
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M4PFHpA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

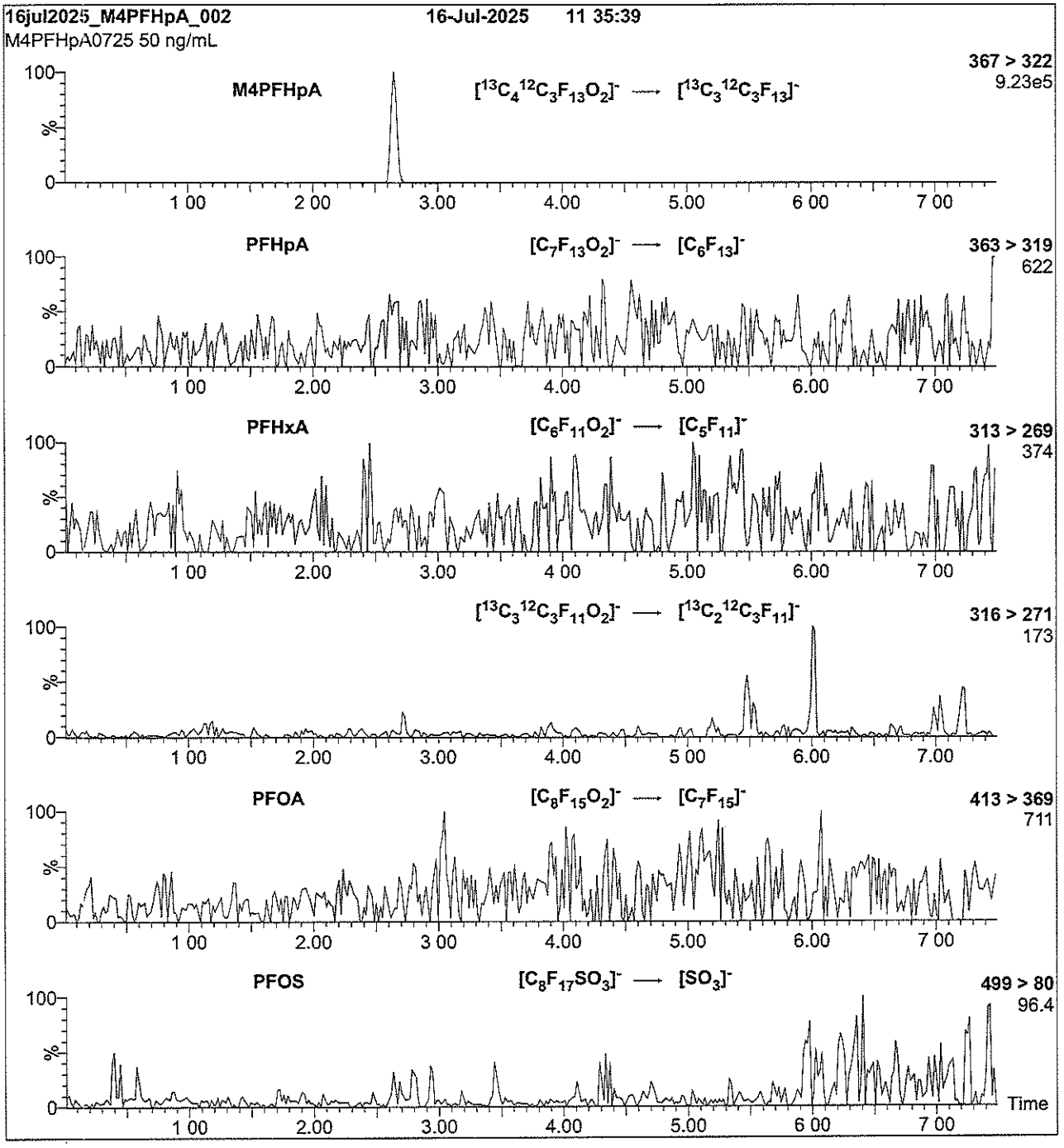
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M4PFHpA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection: On-column (M4PFHpA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.49e-3
Collision Energy (eV) = 8

Reagent

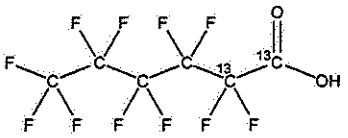
PFC_ST_05211

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST – S211, S212, S213

PRODUCT CODE.	MPFHxA	**LOT NUMBER.**	MPFHxA0825
COMPOUND.	Perfluoro-n-(1,2-$^{13}C_2$)hexanoic acid		
STRUCTURE.		**CAS #:**	960315-47-3



410-86609b8

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_4HF_{11}O_2$	**MOLECULAR WEIGHT:**	316.04
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	08/13/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/13/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· _____ **Date** 08/14/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

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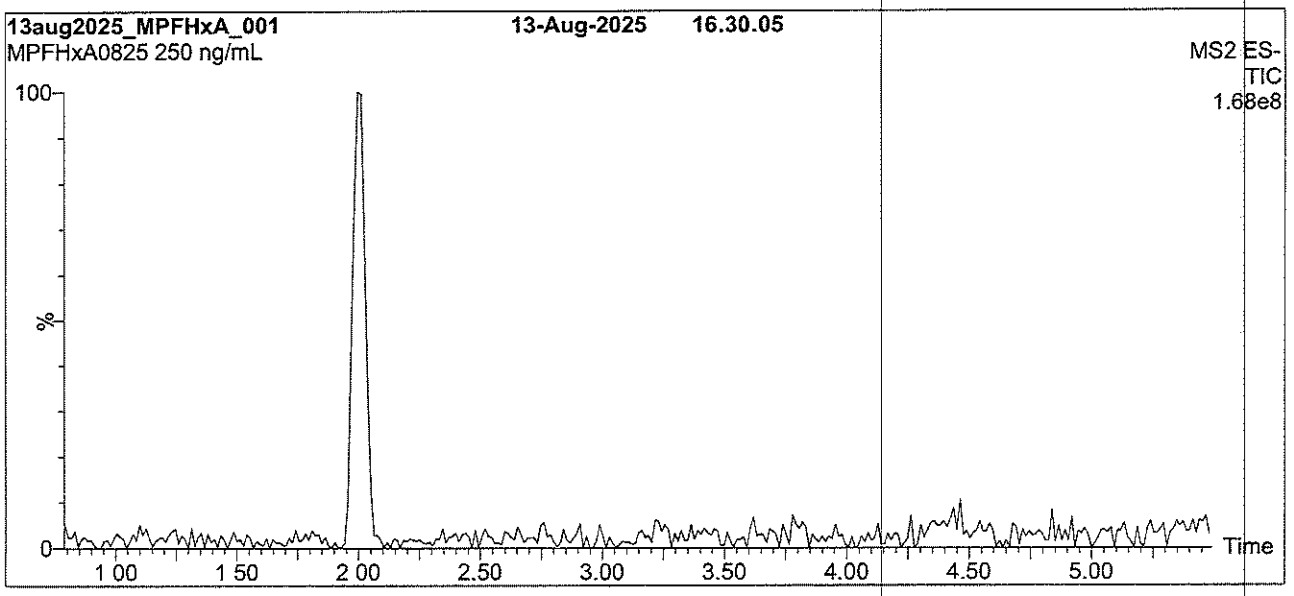
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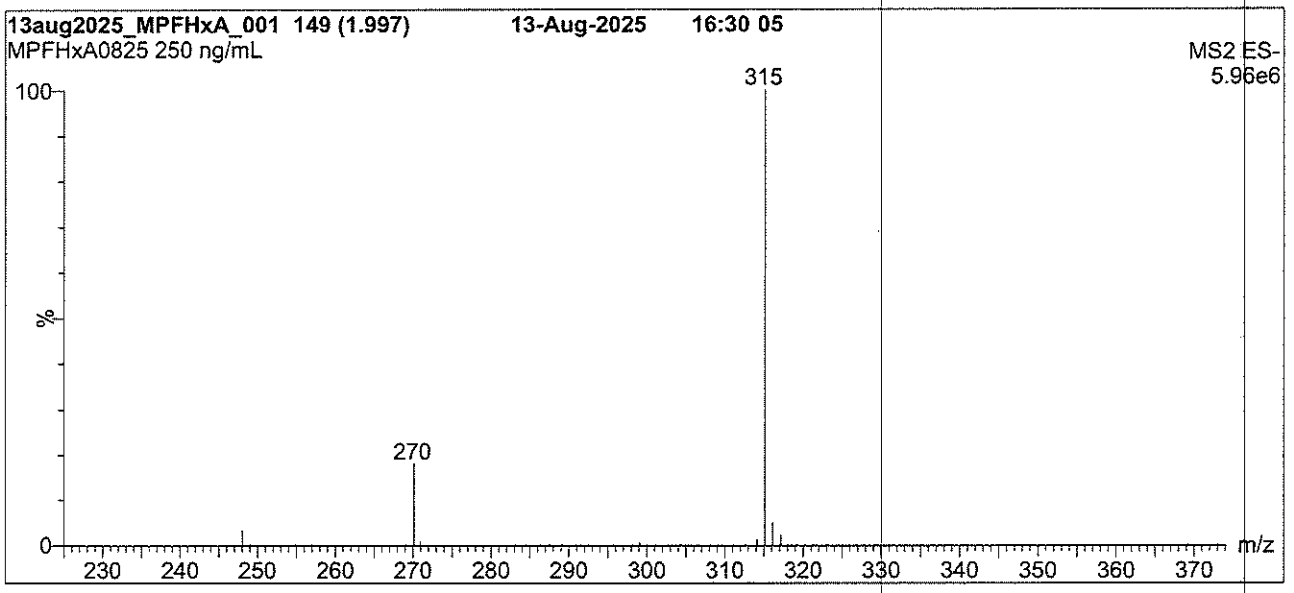
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFHxA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

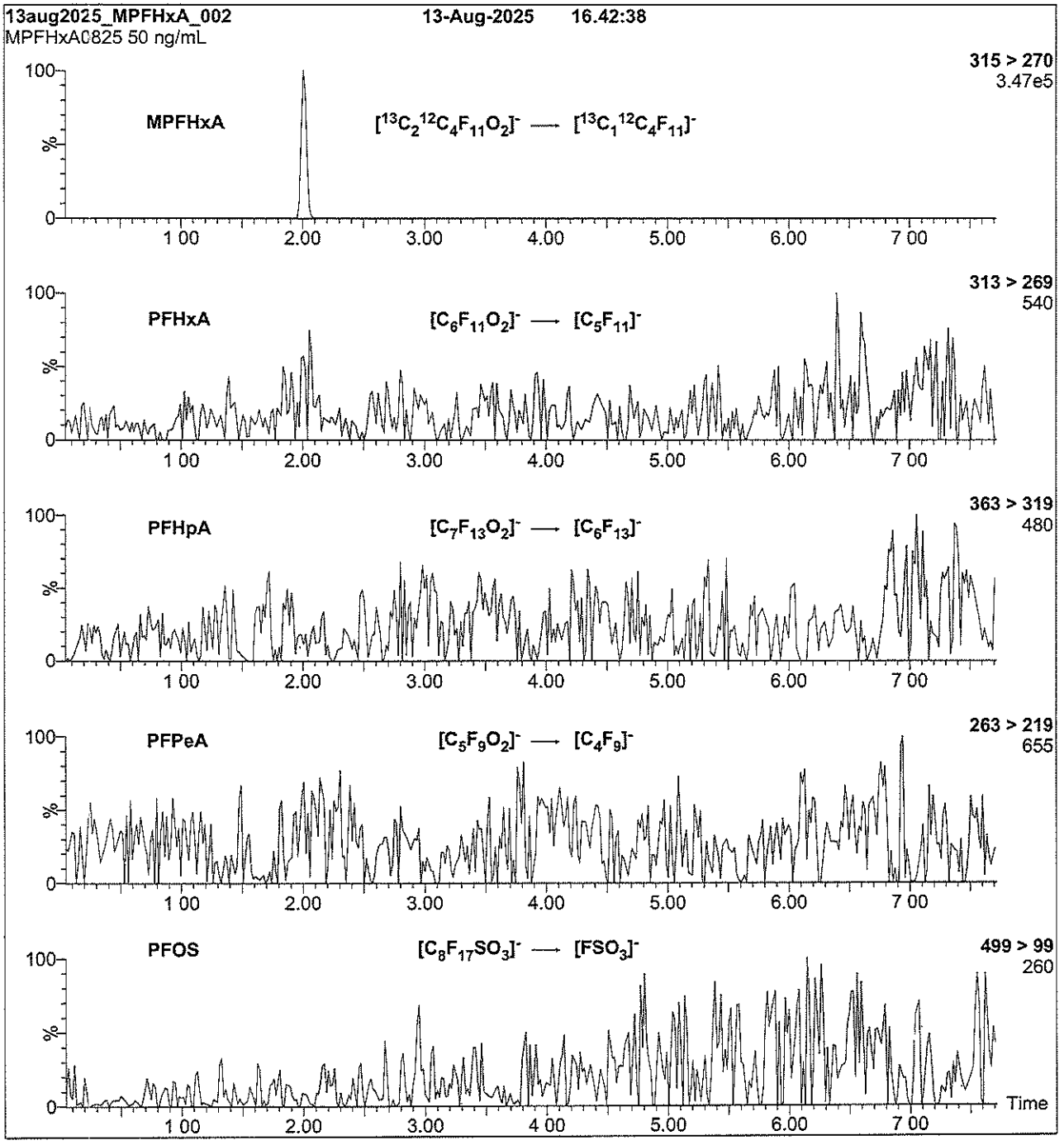
Flow· 300 µL/min

MS Parameters:

Experiment: Full Scan (225 850 amu)

Source· Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFHxA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection. On-column (MPFHxA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.67e-3
Collision Energy (eV) = 8 (315 > 270)

Reagent

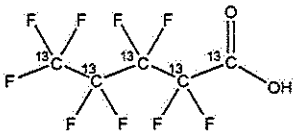
PFC_ST_05214

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ 5216, 5215, 5214

PRODUCT CODE.	M5PFPeA	**LOT NUMBER.**	M5PFPeA0825
COMPOUND.	Perfluoro-n-($^{13}C_5$)pentanoic acid		
STRUCTURE.		**CAS #:**	2283397-79-3



410-86609 74

MOLECULAR FORMULA.	$^{13}C_5HF_9O_2$	**MOLECULAR WEIGHT:**	269 01
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	08/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/28/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date** 08/29/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS LC/MS, SFC/UV/MS x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, $..x_n$ on which it depends is.

$$u_c(y(x_1\ x\ \ ..x_n)) = \sqrt{\sum_{i=1}^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

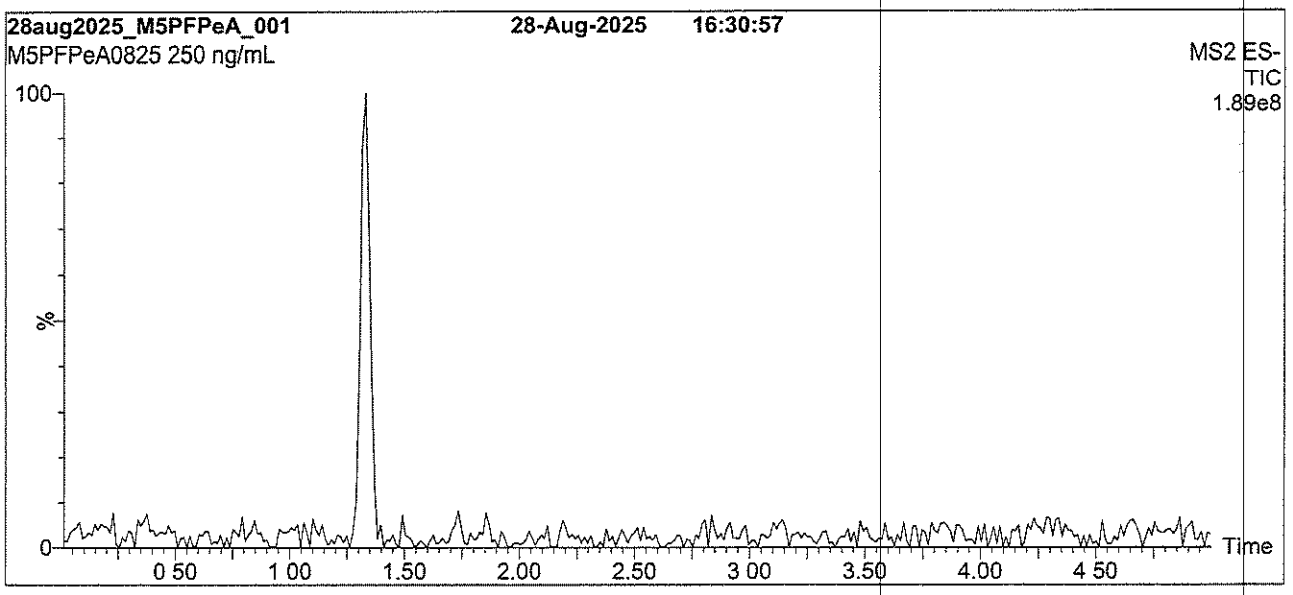
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

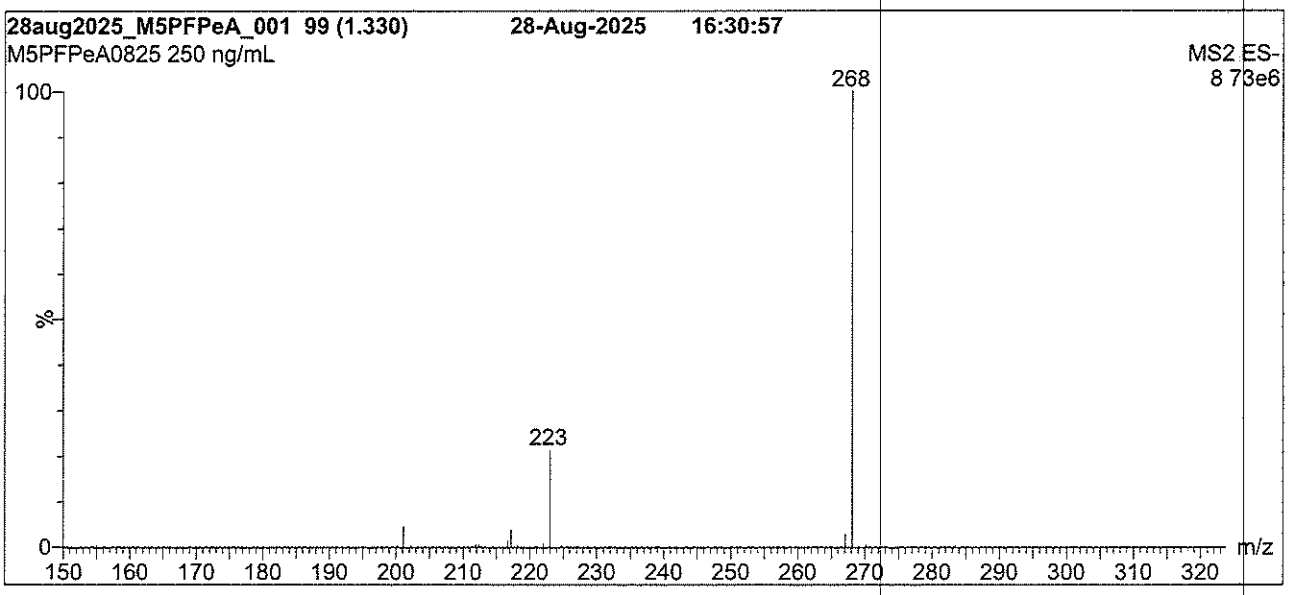
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **M5PFPeA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

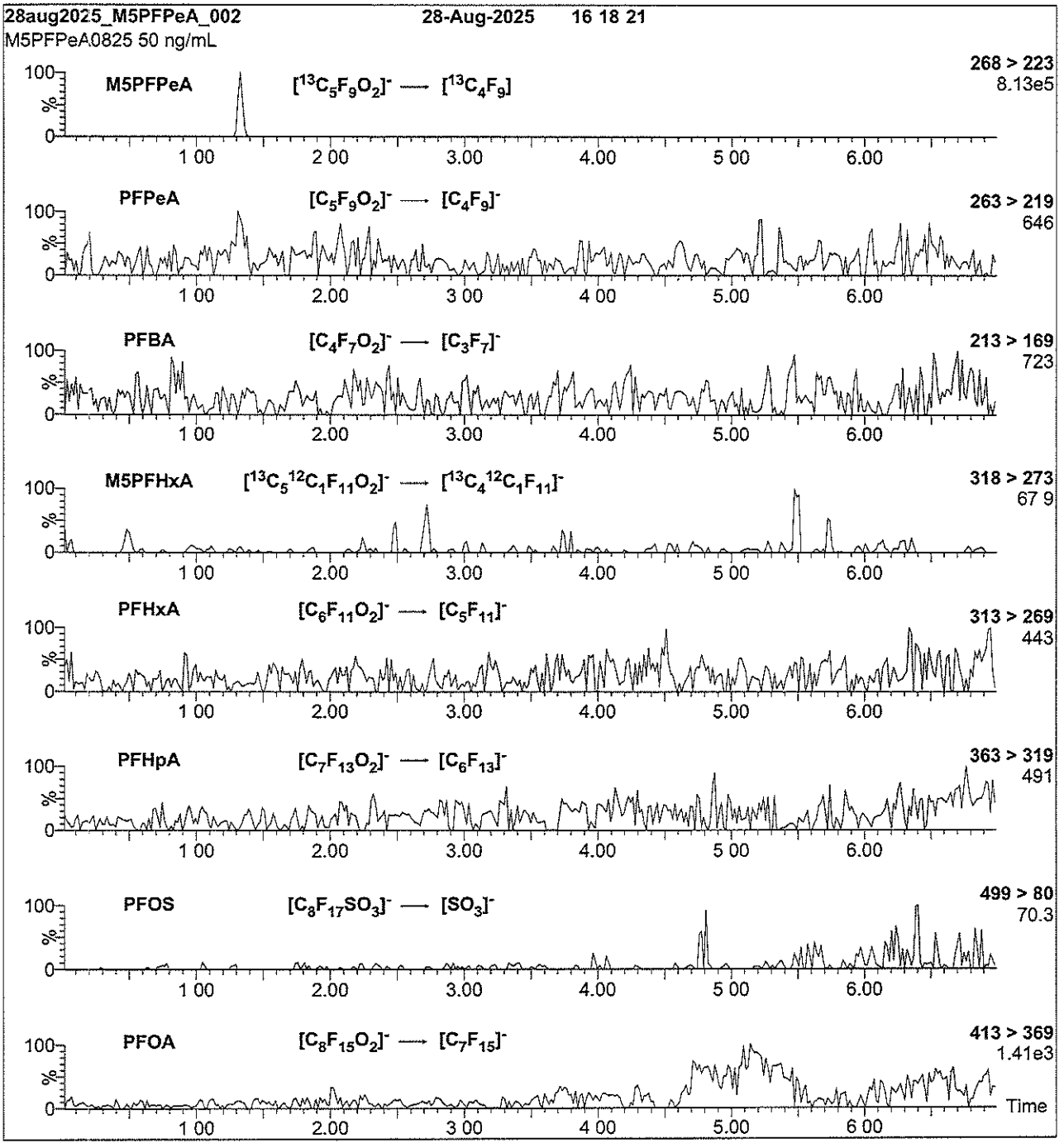
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (150 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M5PFPeA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection: On-column (M5PFPeA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.64e-3
Collision Energy (eV) = 8 (268 > 223)

Reagent

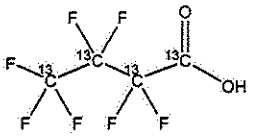
PFC_ST_05217

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST- 5219, 5218, 5217

PRODUCT CODE.	MPFBA	**LOT NUMBER.**	MPFBA0725
COMPOUND.	Perfluoro-n-($^{13}C_4$)butanoic acid		
STRUCTURE.		**CAS #:**	1017281-29-6



410-8660997

MOLECULAR FORMULA.	$^{13}C_4HF_7O_2$	**MOLECULAR WEIGHT:**	218.01
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	07/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	07/28/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· _____ **Date** 07/28/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

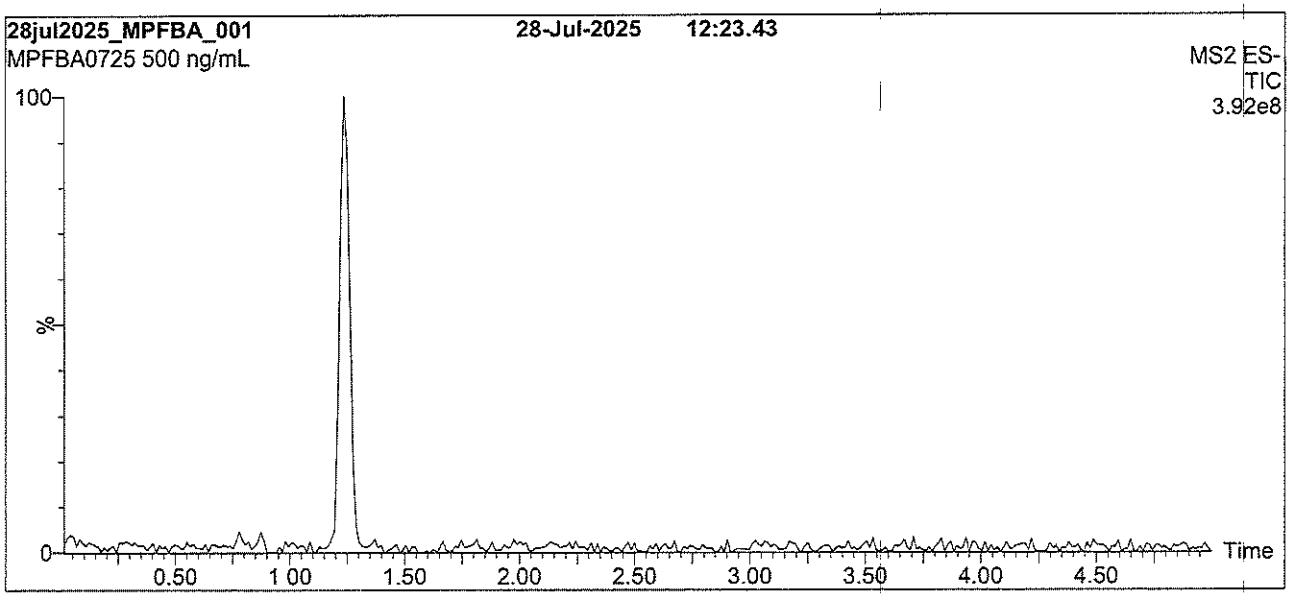
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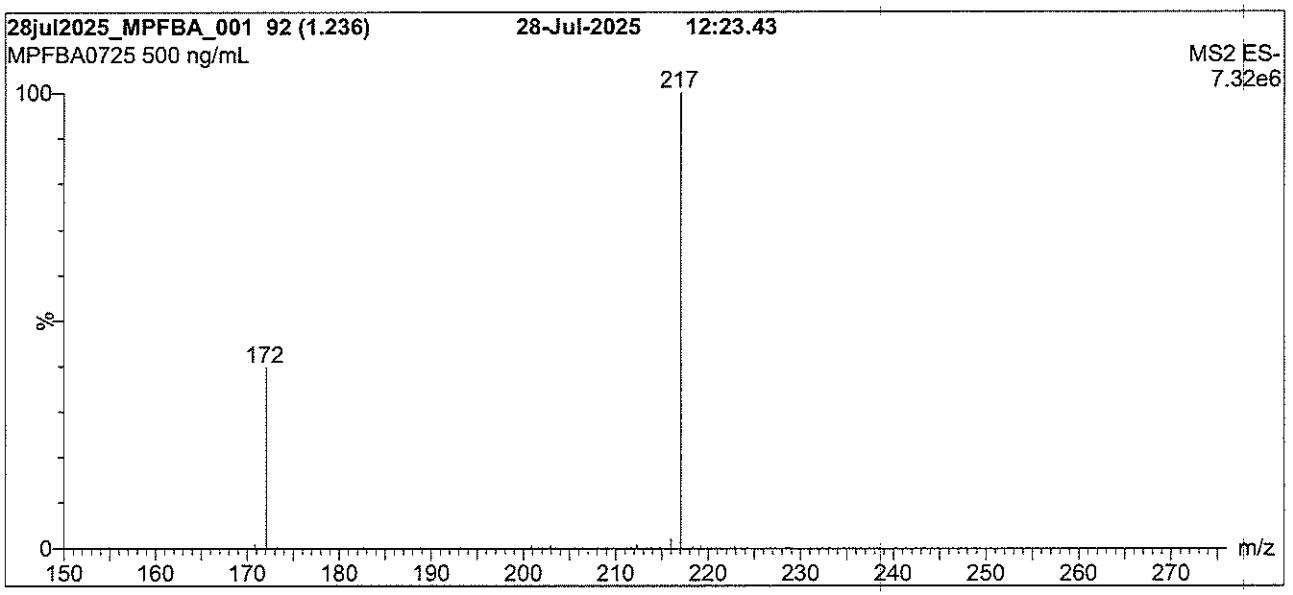
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **MPFBA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column. Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase. Gradient
Start: 60% H_2O / 40% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Hold for 1 min, then ramp to 80% organic over 8 min and hold for 2 min before returning to initial conditions in 0.5 min
Time: 12 min

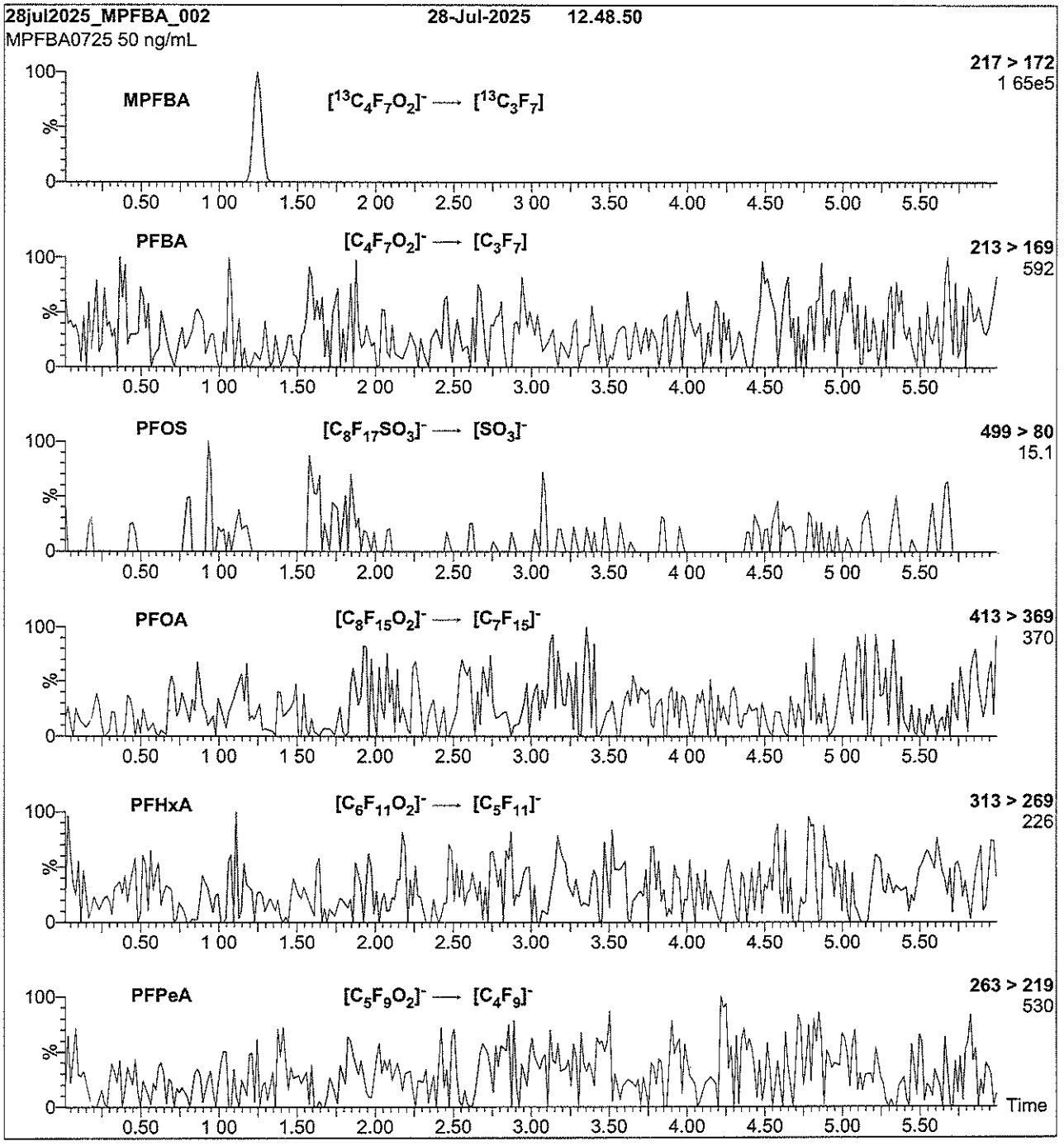
Flow 300 µL/min

MS Parameters:

Experiment: Full Scan (150 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFBA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (MPFBA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.71e-3
Collision Energy (eV) = 8

Reagent

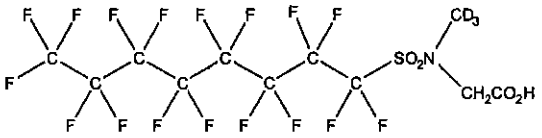
PFC_ST_05236

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. d3-N-MeFOSAA **LOT NUMBER.** d3NMeFOSAA0925
COMPOUND. N-Methyl-d_3-perfluoro-1-octanesulfonamidoacetic acid

STRUCTURE. **CAS #.** 1400690-70-1



+10-87 10489

MOLECULAR FORMULA.	$C_{11}D_3H_3F_{17}NO_4S$	**MOLECULAR WEIGHT:**	574.23
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S):**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	09/08/2025		
EXPIRY DATE. (mm/dd/yyyy)	09/08/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester
- Contains ~0 2% of a branched isomer of d3-N-MeFOSAA.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date** 10/08/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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where x is expressed as a relative standard uncertainty of the individual parameter

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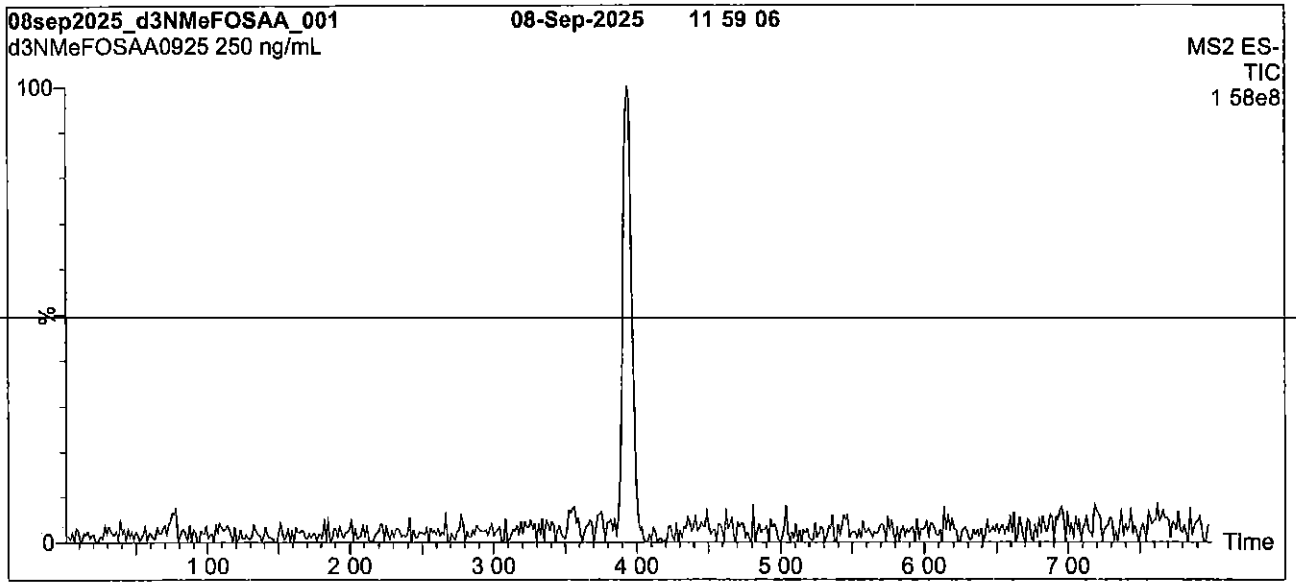
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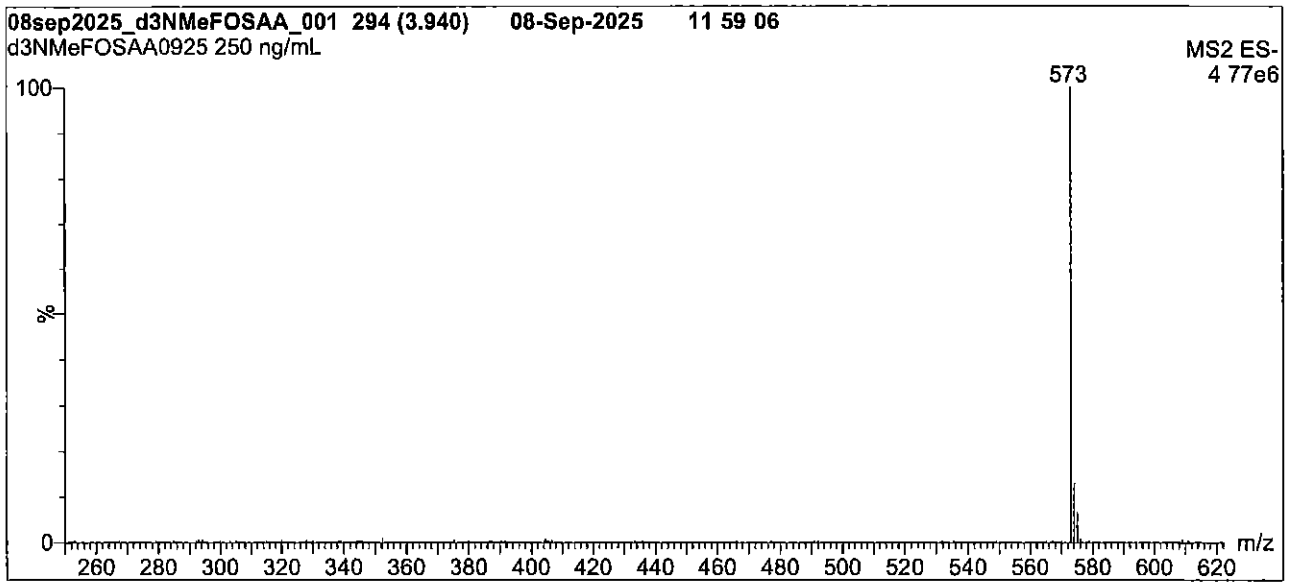
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **d3-N-MeFOSAA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start, 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

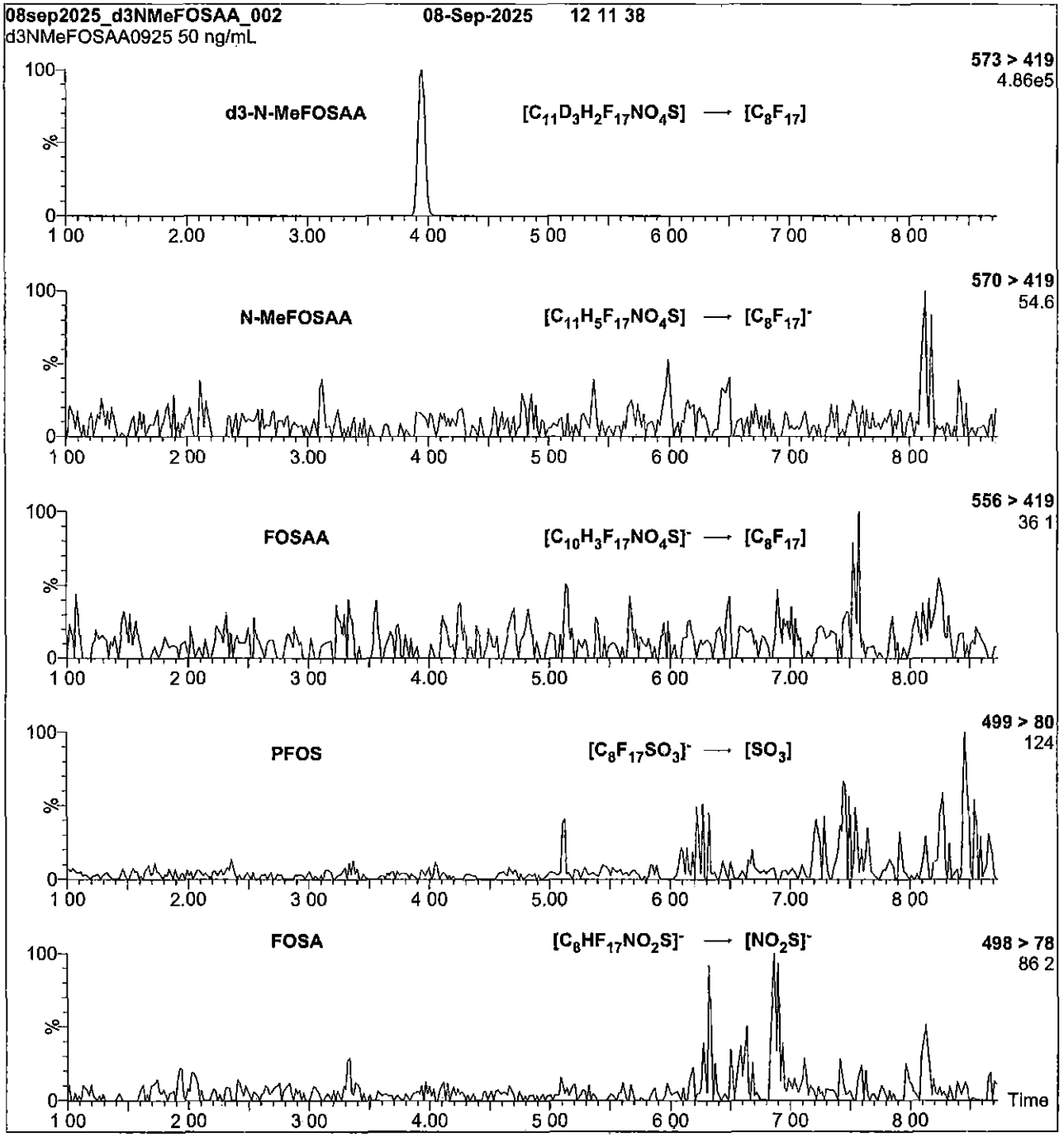
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **d3-N-MeFOSAA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection.	On-column (d3-N-MeFOSAA)
Mobile phase·	Same as Figure 1
Flow·	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.47e-3
Collision Energy (eV) = 18 (573 > 419)

Reagent

PFC_ST_05242

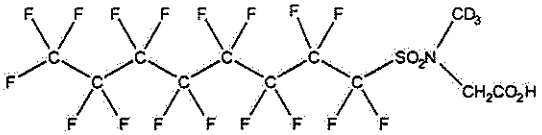
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. d3-N-MeFOSAA **LOT NUMBER.** d3NMeFOSAA0925

COMPOUND. N-Methyl-d_3-perfluoro-1-octanesulfonamidoacetic acid

STRUCTURE. **CAS #:** 1400690-70-1



410-8763212

MOLECULAR FORMULA.	$C_{11}D_3H_3F_{17}NO_4S$	**MOLECULAR WEIGHT:**	574.23
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	09/08/2025		
EXPIRY DATE. (mm/dd/yyyy)	09/08/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester
- Contains ~0.2% of a branched isomer of d3-N-MeFOSAA.

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· _____ **Date** 10/08/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

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SYNTHESIS / CHARACTERIZATION.

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation.

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is:

$$u_c(y(x \quad x, \quad x_n)) = \sqrt{\sum_{i=1}^{n} u(y \; x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

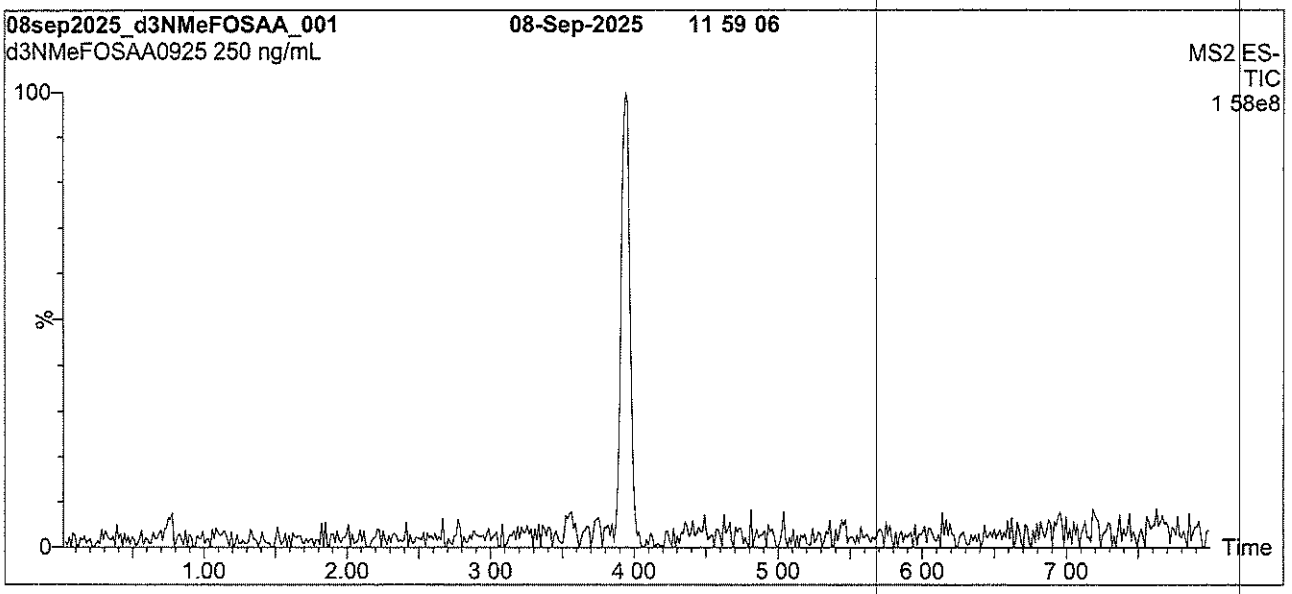
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB, AR-1523).

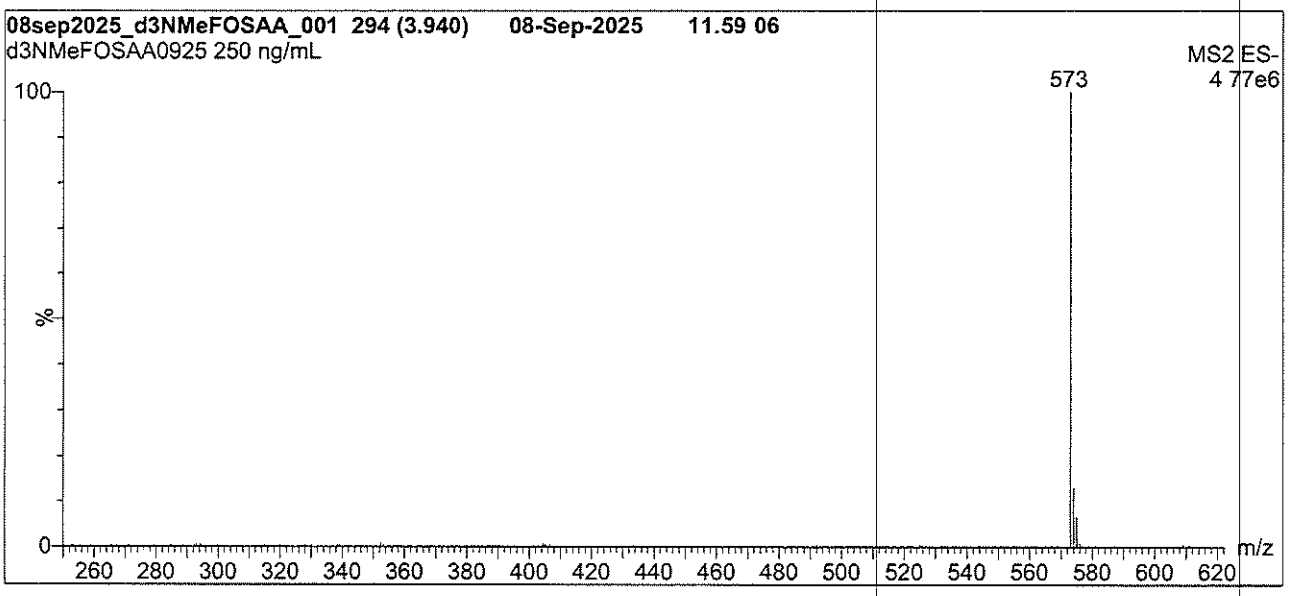
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **d3-N-MeFOSAA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

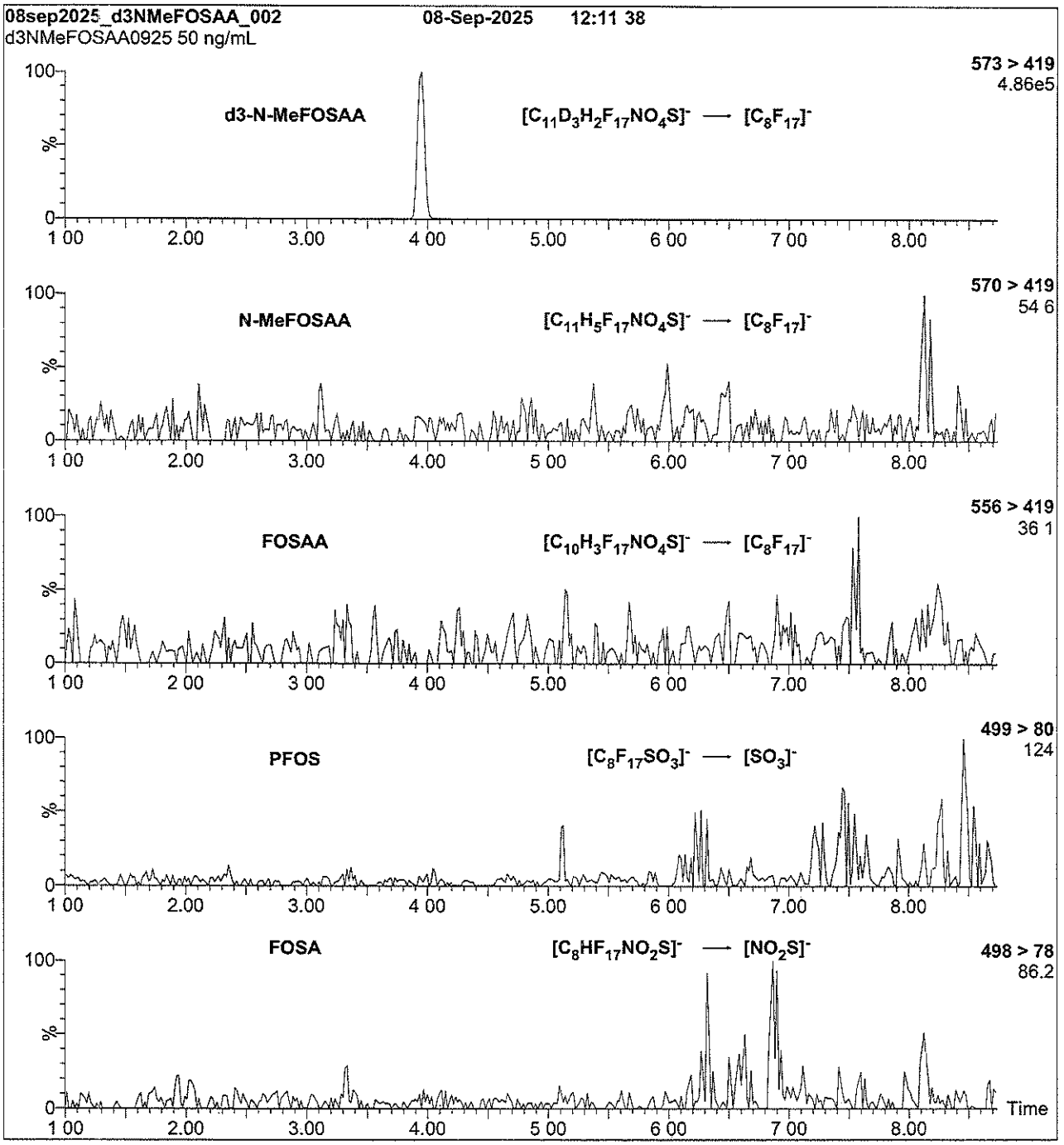
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **d3-N-MeFOSAA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (d3-N-MeFOSAA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.47e-3
Collision Energy (eV) = 18 (573 > 419)

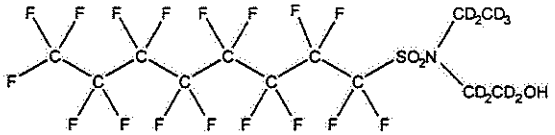
Reagent

PFC_ST_05251

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	d9-N-EtFOSE-M	**LOT NUMBER.**	d9NEtFOSE0425M
COMPOUND.	2-(N-Ethyl-d5-perfluoro-1-octanesulfonamido)ethan-d4-ol		
STRUCTURE.		**CAS #:**	1265205-96-6



410-8763249

MOLECULAR FORMULA.	$C_{12}D_9HF_{17}NO_3S$	**MOLECULAR WEIGHT:**	580.31
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	04/17/2025 (HRGC/LRMS) 04/09/2025 (LC/MS)		
EXPIRY DATE. (mm/dd/yyyy)	04/17/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 HRGC/LRMS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (Full Scan and Mass Spectrum)
Figure 3. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- In order to see the molecular ion (adduct free), the LC mobile phase should be free of ammonium acetate buffer
- Contains ~0 7% of branched 2-(N-ethyl-d5-perfluorooctanesulfonamido)ethan-d4-ol by ^{19}F NMR.

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 04/23/2025 (mm/dd/yyyy)

B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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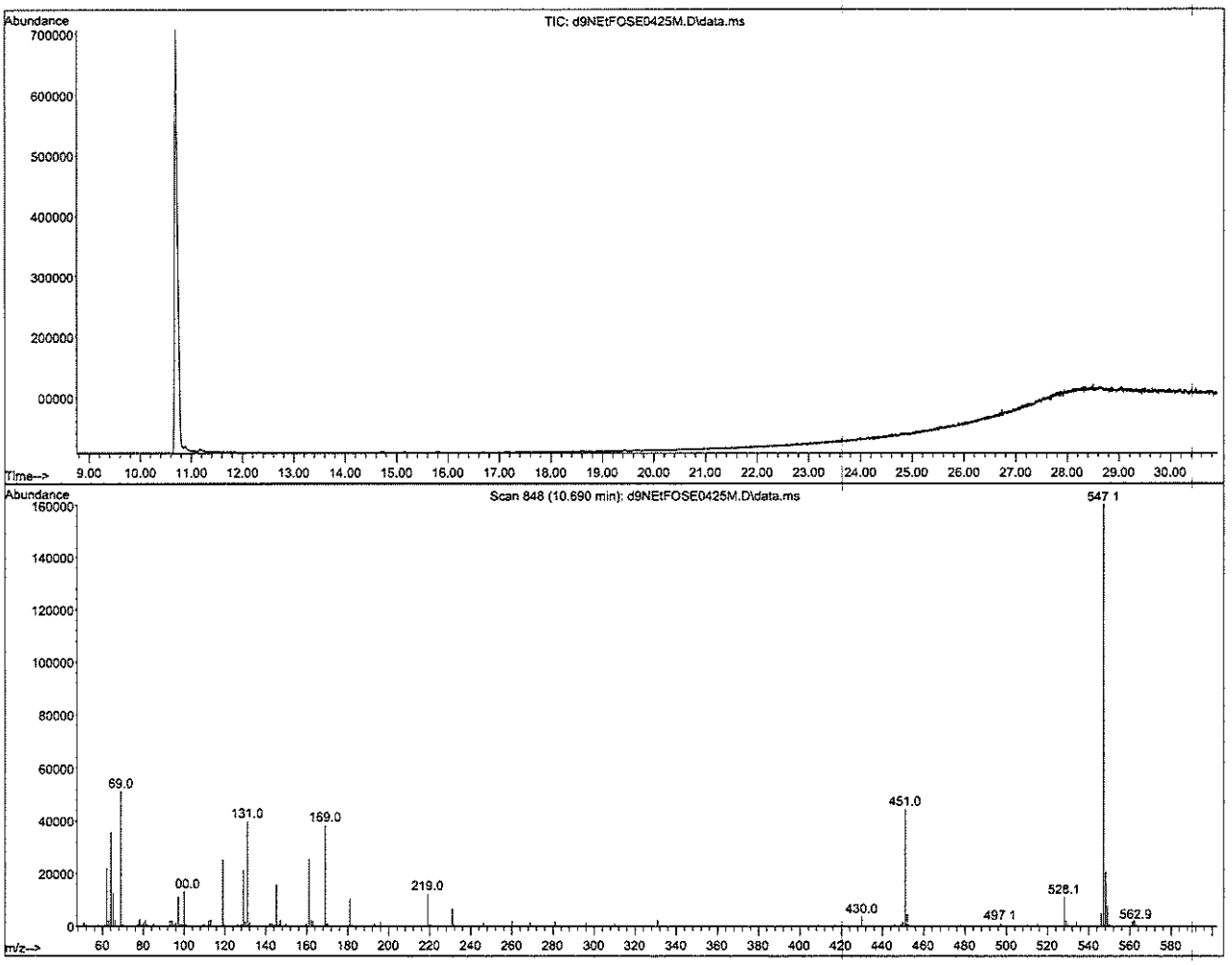
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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **d9-N-EtFOSE-M, HRGC/LRMS Data (Full Scan and Mass Spectrum)**



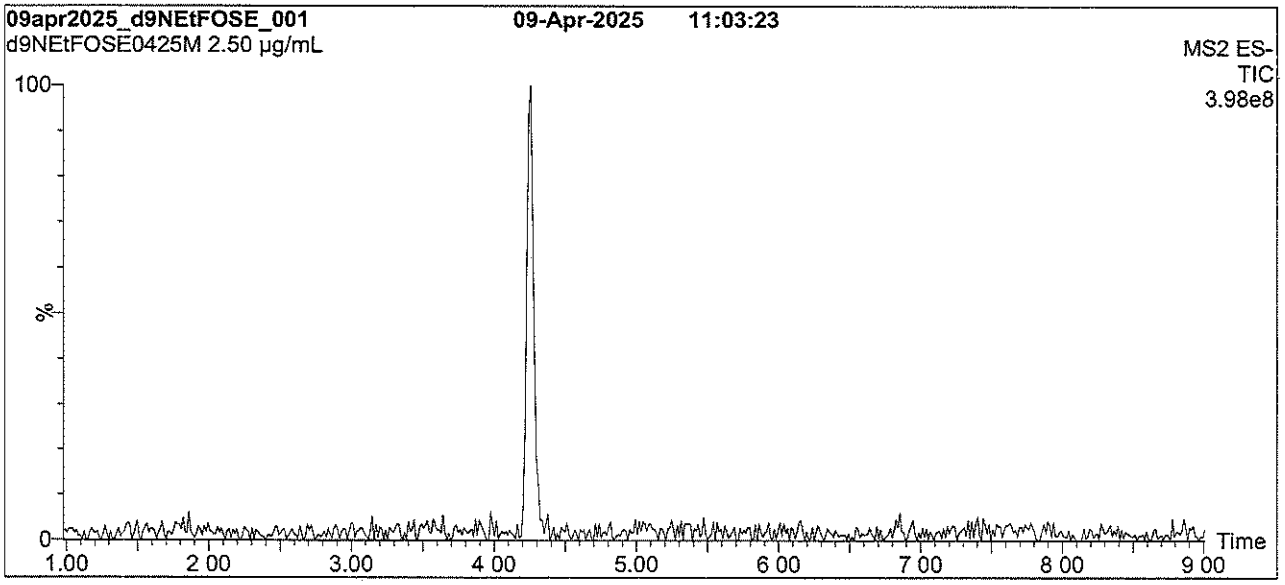
Conditions for Figure 1.

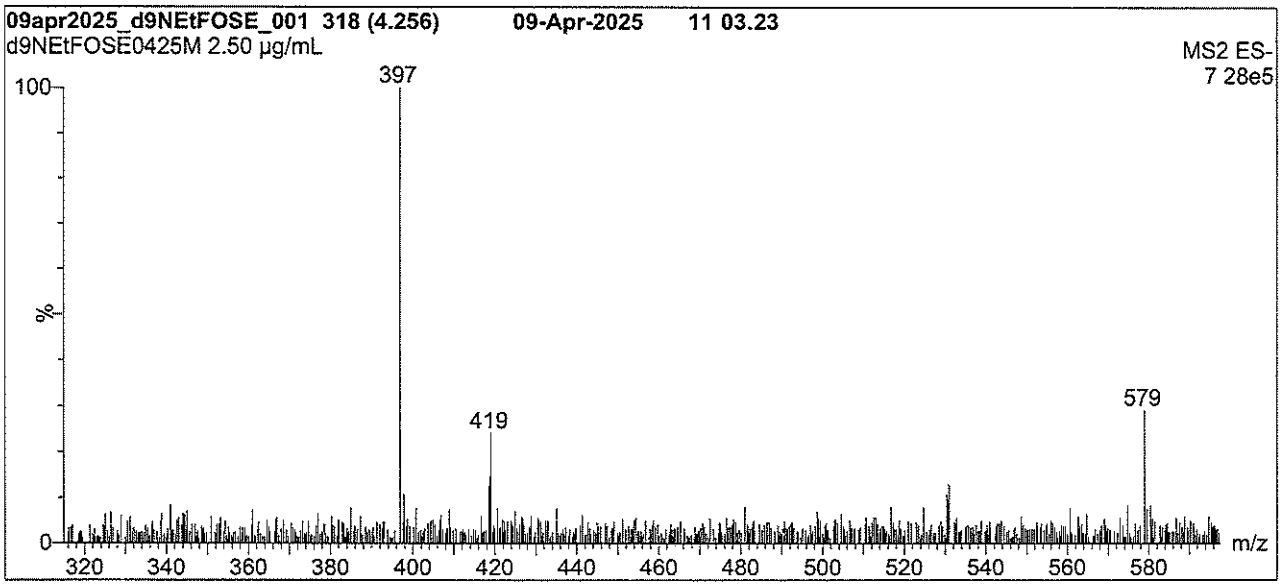
Agilent 7890A HRGC
Agilent 5975C MSD

Chromatographic Conditions.

Column	30 m HP-5MS UI (0.25 mm id 0.25 µm film thickness) Agilent J&W
Flow	Constant at 1.0 mL/min
Injector	250°C (Splitless Injection)
Oven	100°C (5 min) 10°C/min to 325°C 325°C (10 min)
Ionization	EI+
Detector	230°C Full Scan (50-1000 amu)

Figure 2. **d9-N-EtFOSE-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% MeOH
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

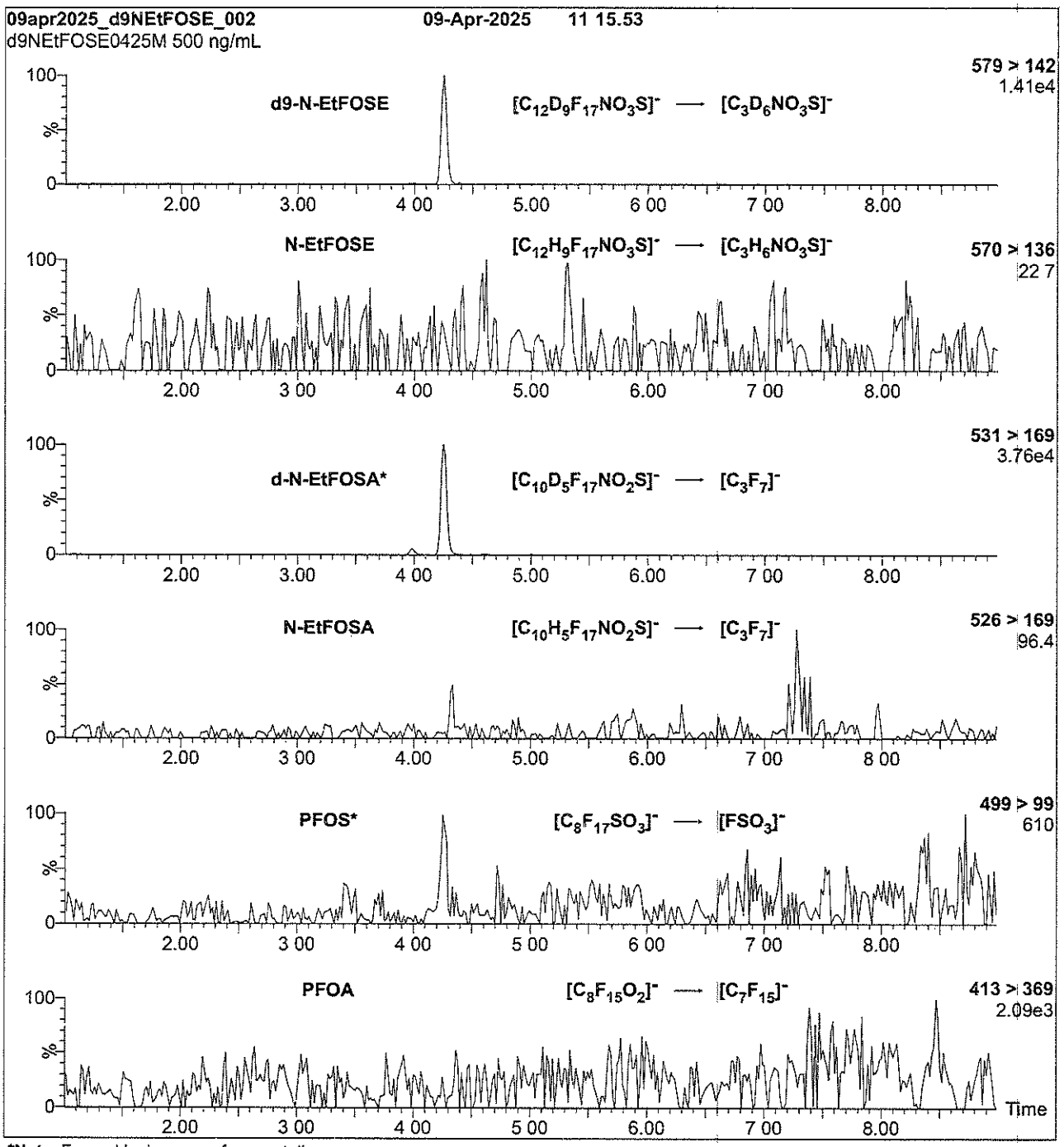
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **d9-N-EtFOSE-M, LC/MS/MS Data (Selected MRM Transitions)**



*Note: Formed by in-source fragmentation.

Conditions for Figure 3:

Injection:	On-column (d9-N-EtFOSE-M)
Mobile phase	Same as Figure 2
Flow	300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.98e-3
Collision Energy (eV) = 32

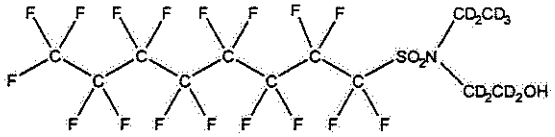
Reagent

PFC_ST_05253

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	d9-N-EtFOSE-M	**LOT NUMBER.**	d9NEtFOSE0425M
COMPOUND.	2-(N-Ethyl-d5-perfluoro-1-octanesulfonamido)ethan-d4-ol		
STRUCTURE.		**CAS #:**	1265205-96-6



410-8763251

MOLECULAR FORMULA.	$C_{12}D_9HF_{17}NO_3S$	**MOLECULAR WEIGHT:**	580.31
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	04/17/2025 (HRGC/LRMS) 04/09/2025 (LC/MS)		
EXPIRY DATE. (mm/dd/yyyy)	04/17/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 HRGC/LRMS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS Data (Full Scan and Mass Spectrum)
Figure 3. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- In order to see the molecular ion (adduct free), the LC mobile phase should be free of ammonium acetate buffer
- Contains ~0 7% of branched 2-(N-ethyl-d5-perfluorooctanesulfonamido)ethan-d4-ol by ^{19}F NMR.

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Certified By: _____ **Date:** 04/23/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

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where x is expressed as a relative standard uncertainty of the individual parameter

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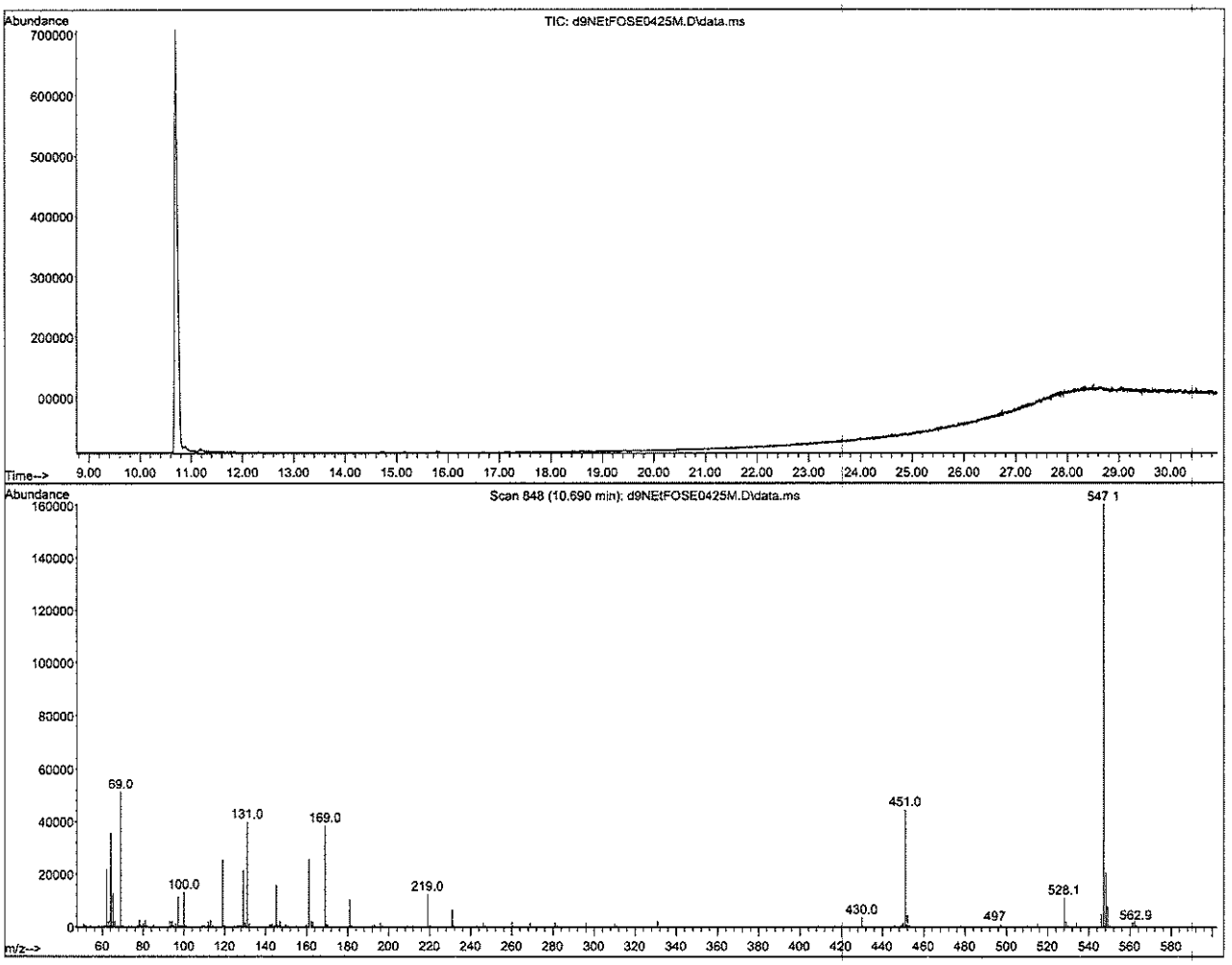
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB, AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **d9-N-EtFOSE-M, HRGC/LRMS Data (Full Scan and Mass Spectrum)**



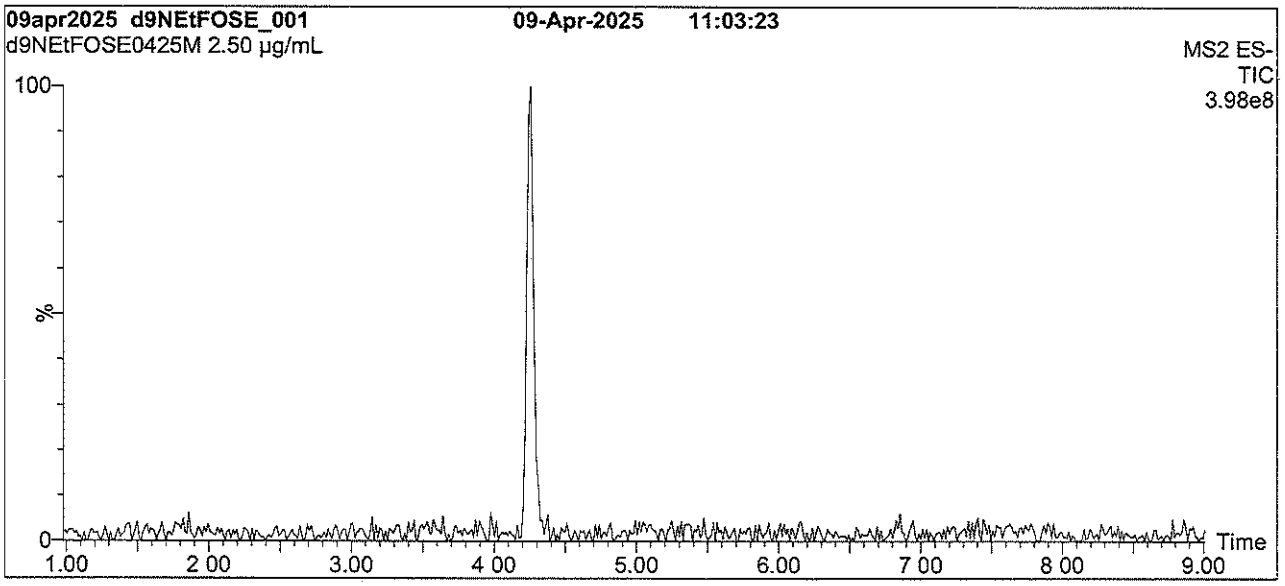
Conditions for Figure 1.

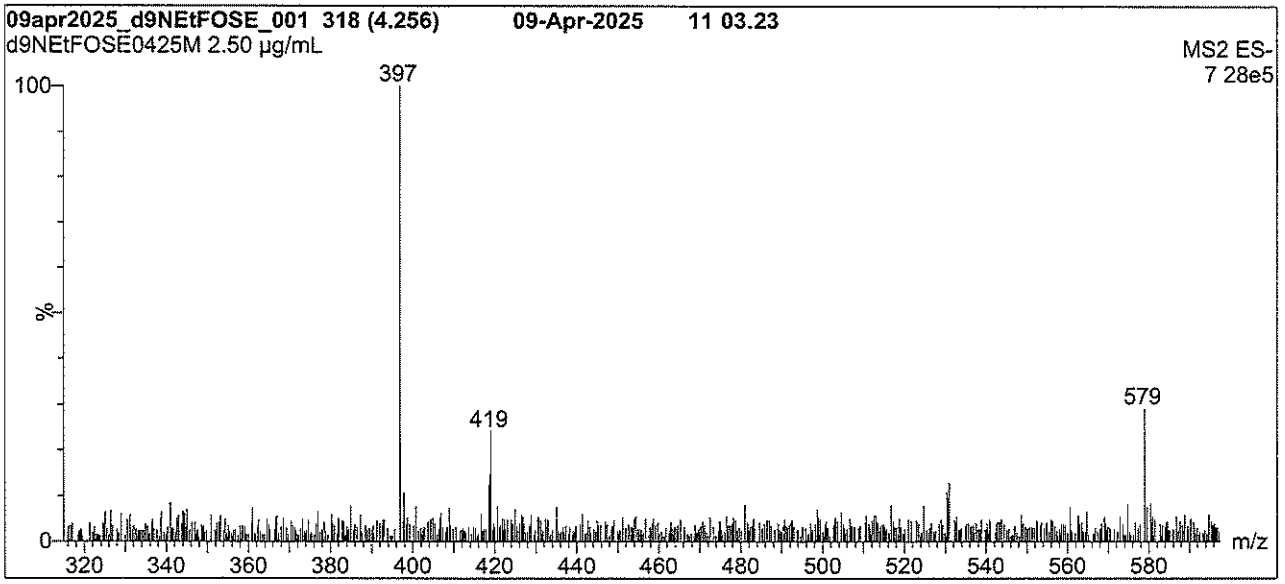
Agilent 7890A HRGC
Agilent 5975C MSD

Chromatographic Conditions.

Column	30 m HP-5MS UI (0.25 mm id 0.25 µm film thickness) Agilent J&W
Flow	Constant at 1 0 mL/min
Injector	250°C (Splitless Injection)
Oven	100°C (5 min) 10°C/min to 325°C 325°C (10 min)
Ionization	EI+
Detector	230°C Full Scan (50-1000 amu)

Figure 2. **d9-N-EtFOSE-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% MeOH
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

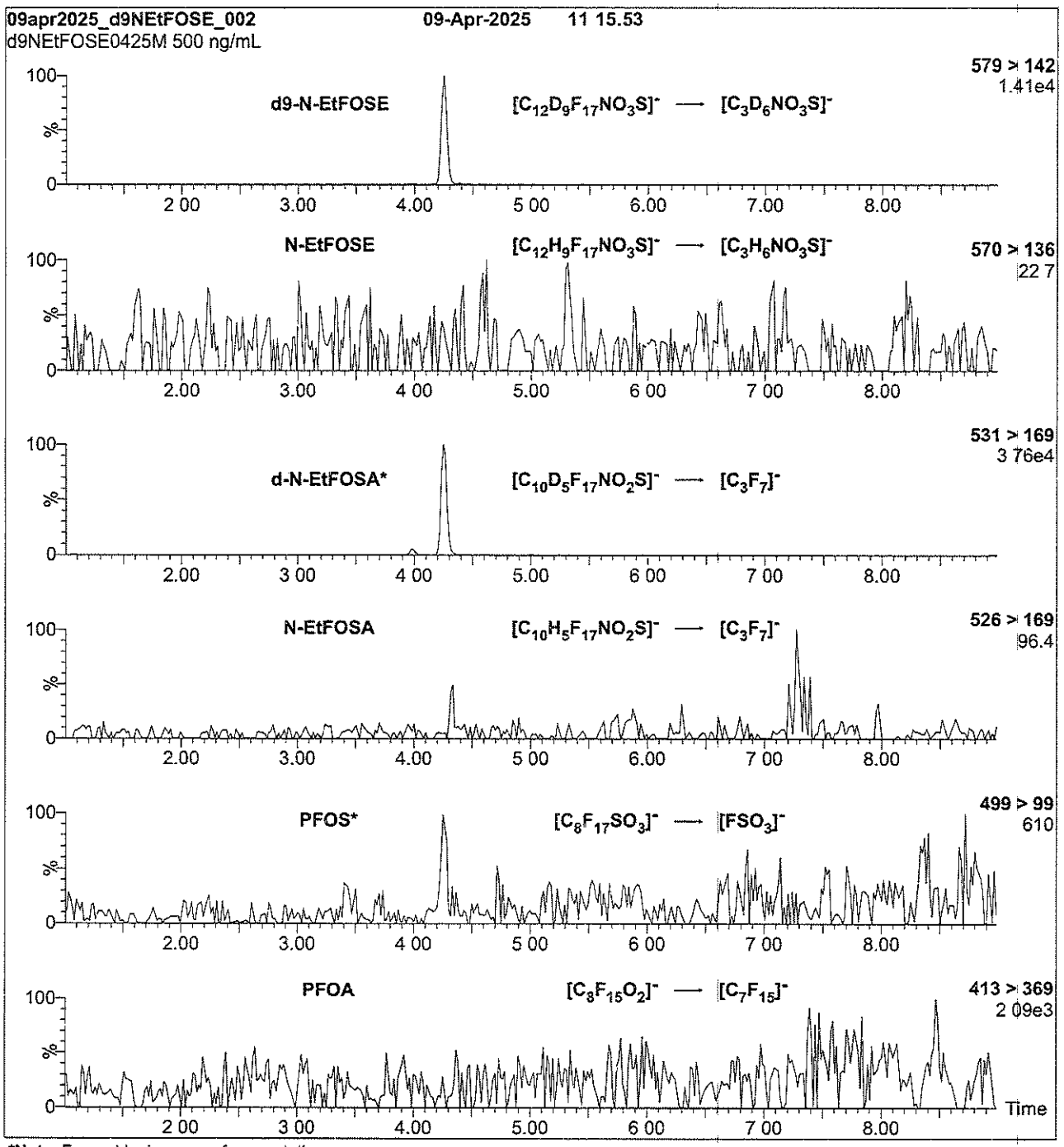
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
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Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **d9-N-EtFOSE-M, LC/MS/MS Data (Selected MRM Transitions)**



*Note: Formed by in-source fragmentation.

Conditions for Figure 3.

Injection:	On-column (d9-N-EtFOSE-M)
Mobile phase:	Same as Figure 2
Flow:	300 µL/min

MS Parameters.

Collision Gas (mbar) = 5.98e-3
Collision Energy (eV) = 32

Reagent

PFC_ST_05259

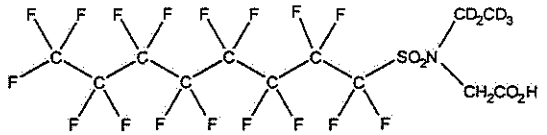
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE. d5-N-EtFOSAA **LOT NUMBER:** d5NEtFOSAA0525

COMPOUND. N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid

STRUCTURE. **CAS #:** 1265205-97-7



410-8763258

MOLECULAR FORMULA.	$C_{12}D_5H_3F_{17}NO_4S$	**MOLECULAR WEIGHT:**	590.26
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	06/05/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/05/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester

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Certified By _____ **Date** 06/09/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

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SYNTHESIS / CHARACTERIZATION.

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UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, $..x_n$ on which it depends is:

$$u_c(y(x_1\ x_2\ ..x_n)) = \sqrt{\sum_{i=1}^{n} u(y,x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

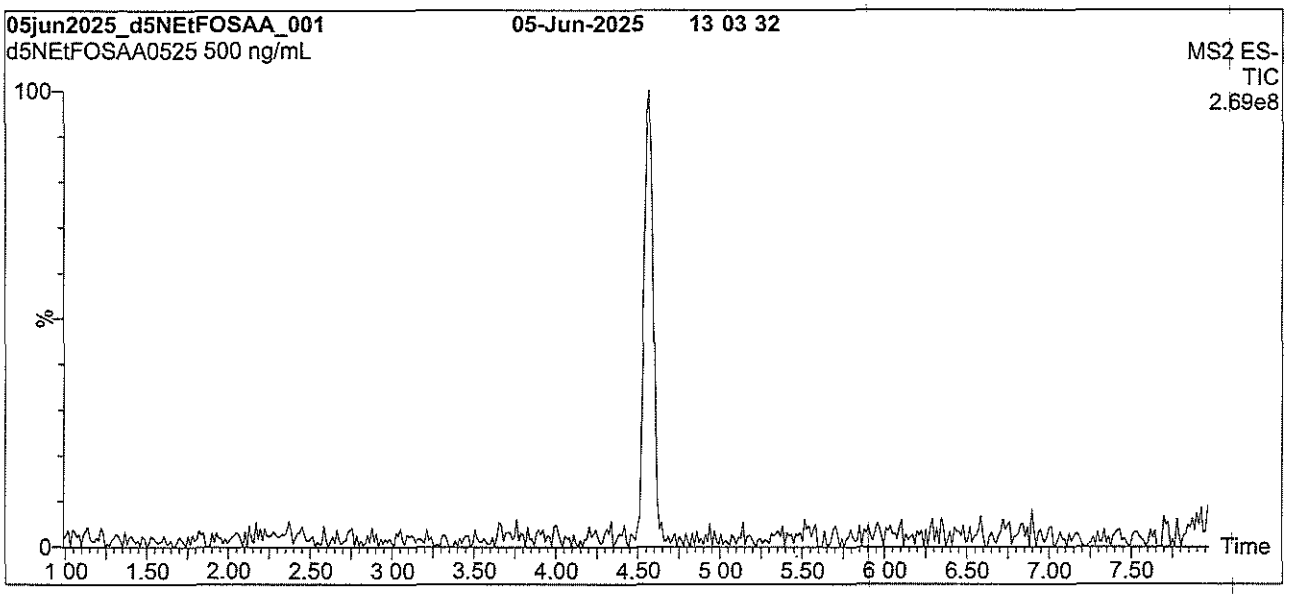
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB, AR-1523).

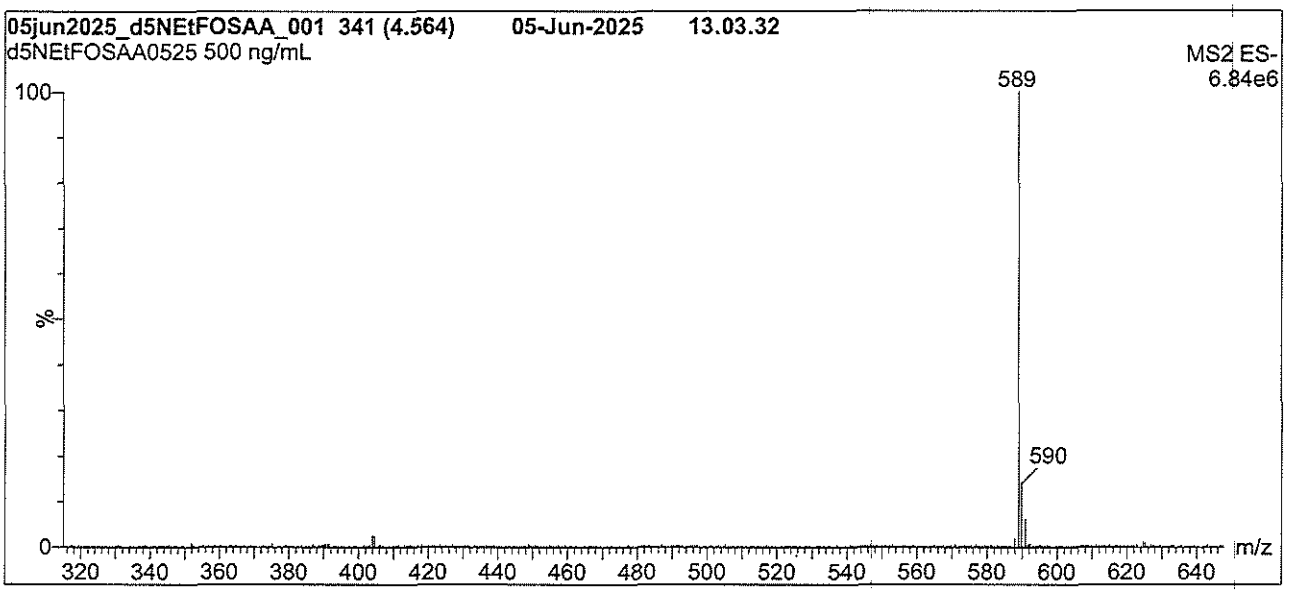
CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **d5-N-EtFOSAA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

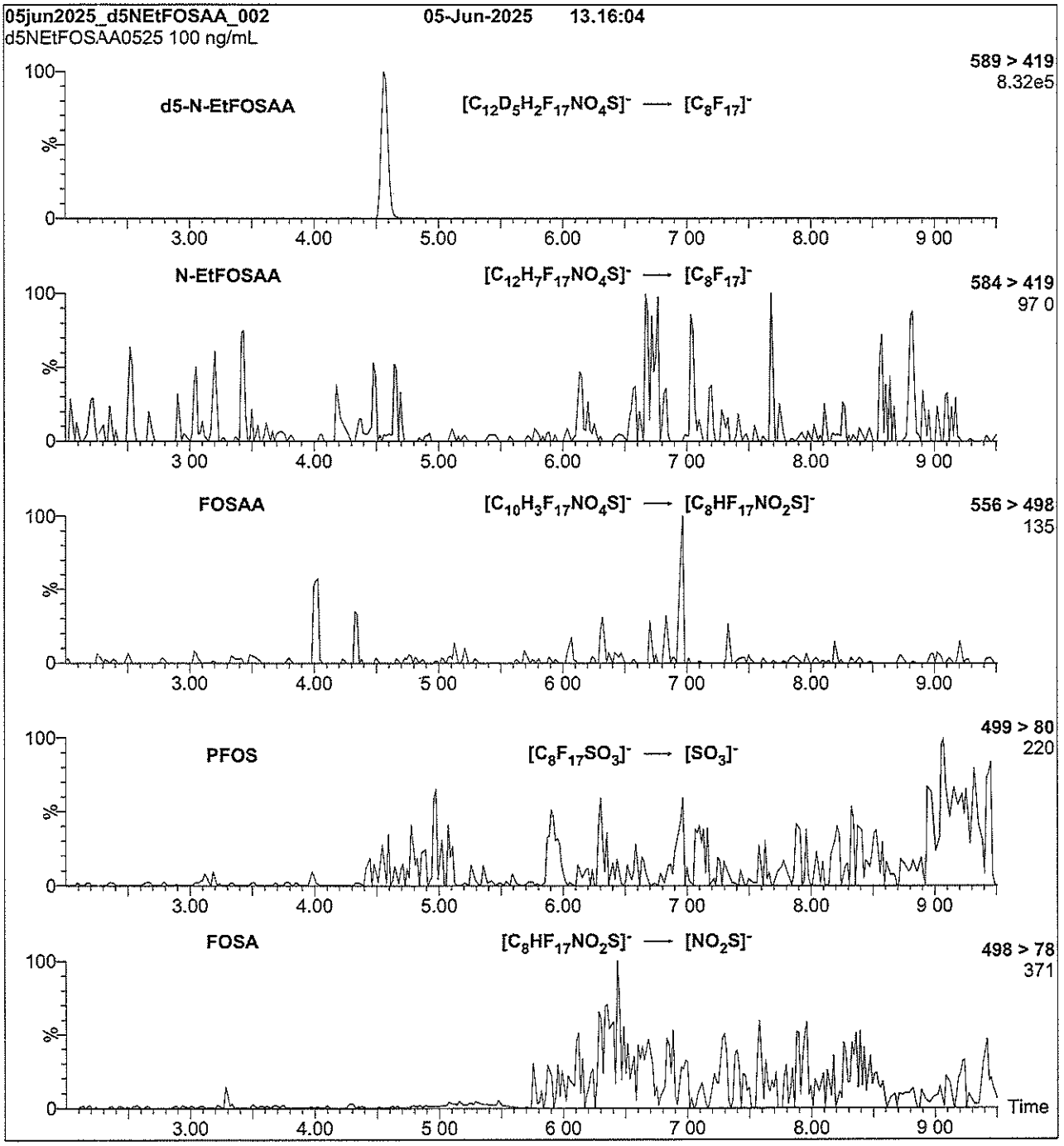
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **d5-N-EtFOSAA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (d5-N-EtFOSAA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.76e-3
Collision Energy (eV) = 18

Reagent

PFC_ST_05275

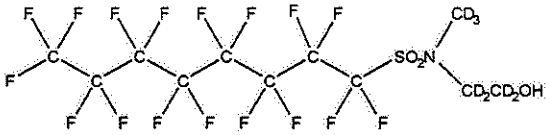
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE. d7-N-MeFOSE-M **LOT NUMBER.** d7NMeFOSE0925M

COMPOUND. 2-(N-Methyl-d3-perfluoro-1-octanesulfonamido)ethan-d4-ol

STRUCTURE. **CAS #:** 1265205-95-5



410-8763276

MOLECULAR FORMULA.	$C_{11}D_7HF_{17}NO_3S$	**MOLECULAR WEIGHT:**	564.27
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	09/30/2025 (HRGC/LRMS) 10/09/2025 (LC/MS)		
EXPIRY DATE. (mm/dd/yyyy)	10/09/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 HRGC/LRMS Data (Full Scan and Mass Spectrum)
Figure 2. LC/MS Data (Full Scan and Mass Spectrum)
Figure 3. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- In order to see the molecular ion (adduct free) the LC mobile phase should be free of ammonium acetate buffer
- Contains ~0.8% of a branched isomer of d7-N-MeFOSE by ^{19}F NMR.

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Certified By· _____ **Date** 10/16/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

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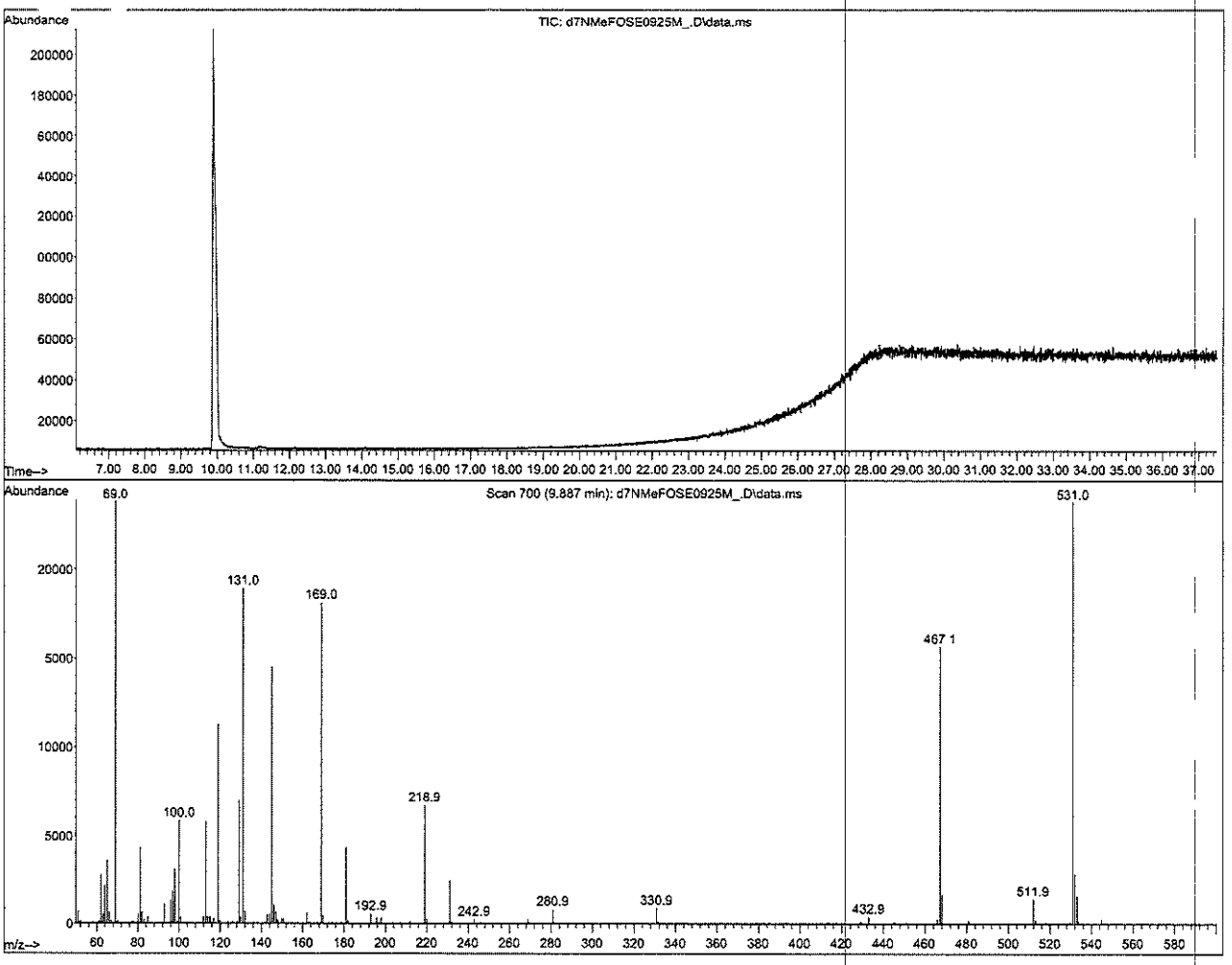
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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **d7-N-MeFOSE-M, HRGC/LRMS Data (Full Scan and Mass Spectrum)**



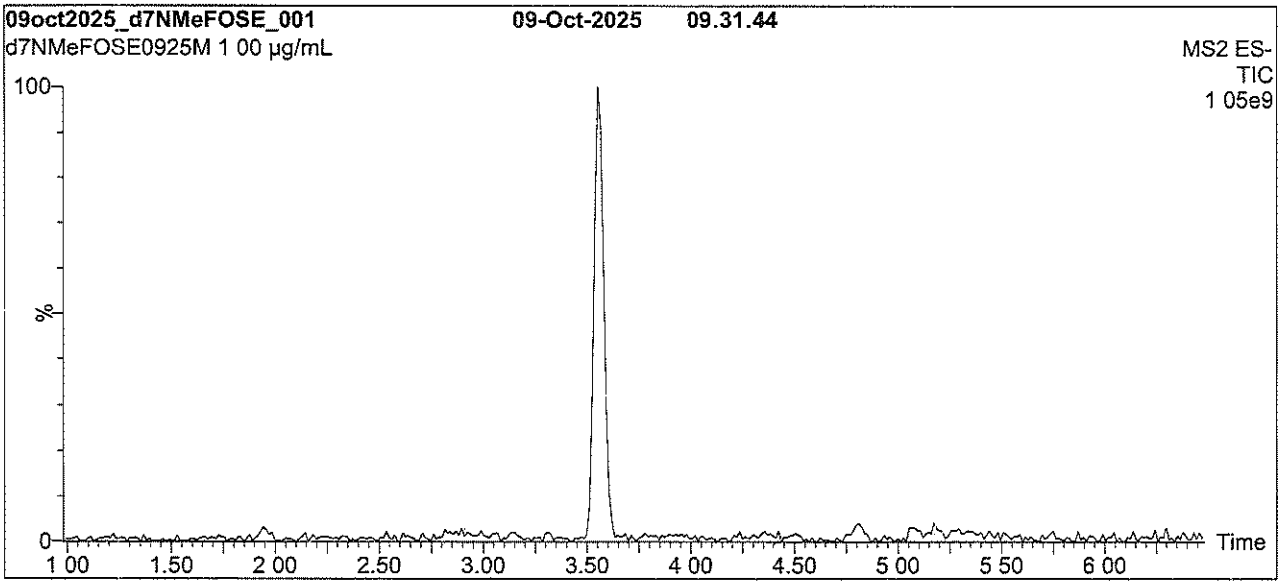
Conditions for Figure 1.

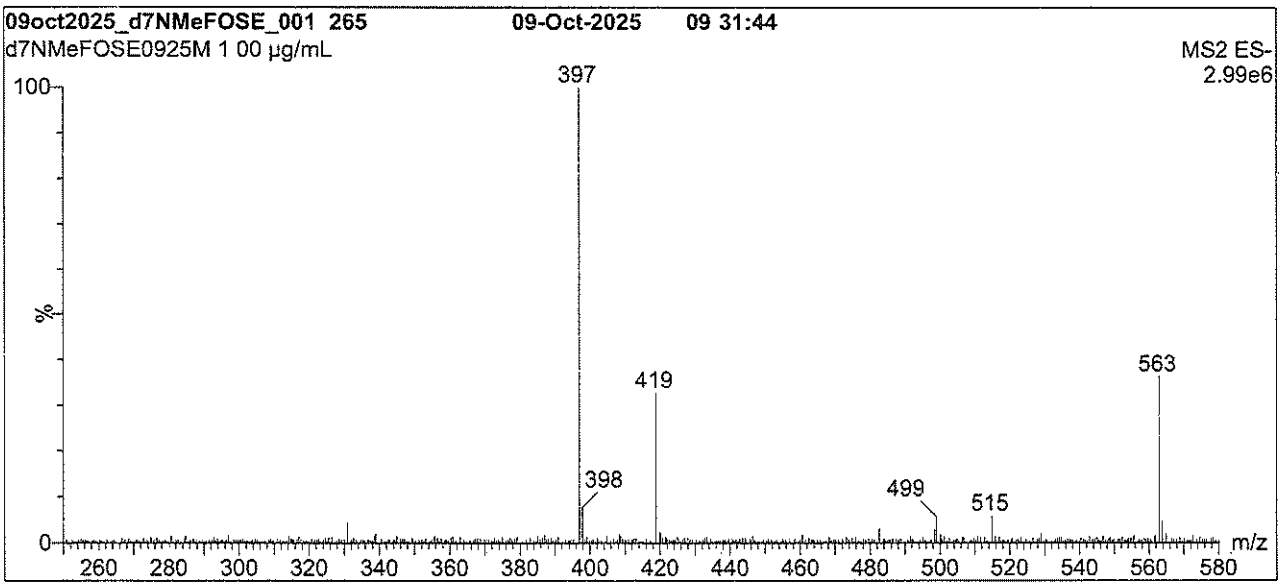
Agilent 7890A HRGC
Agilent 5975C MSD

Chromatographic Conditions.

Column	30 m HP-5MS UI (0.25 mm id 0.25 µm film thickness) Agilent J&W
Flow	Constant at 1 0 mL/min
Injector	250°C (Splitless Injection)
Oven	100°C (5 min)
	10°C/min to 325°C
	325°C (10 min)
Ionization.	EI+
Detector	230°C
	Full Scan (50-1000 amu)

Figure 2. **d7-N-MeFOSE-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 2.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase. Gradient
Start: 30% H_2O / 70% (80:20 MeOH.ACN)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

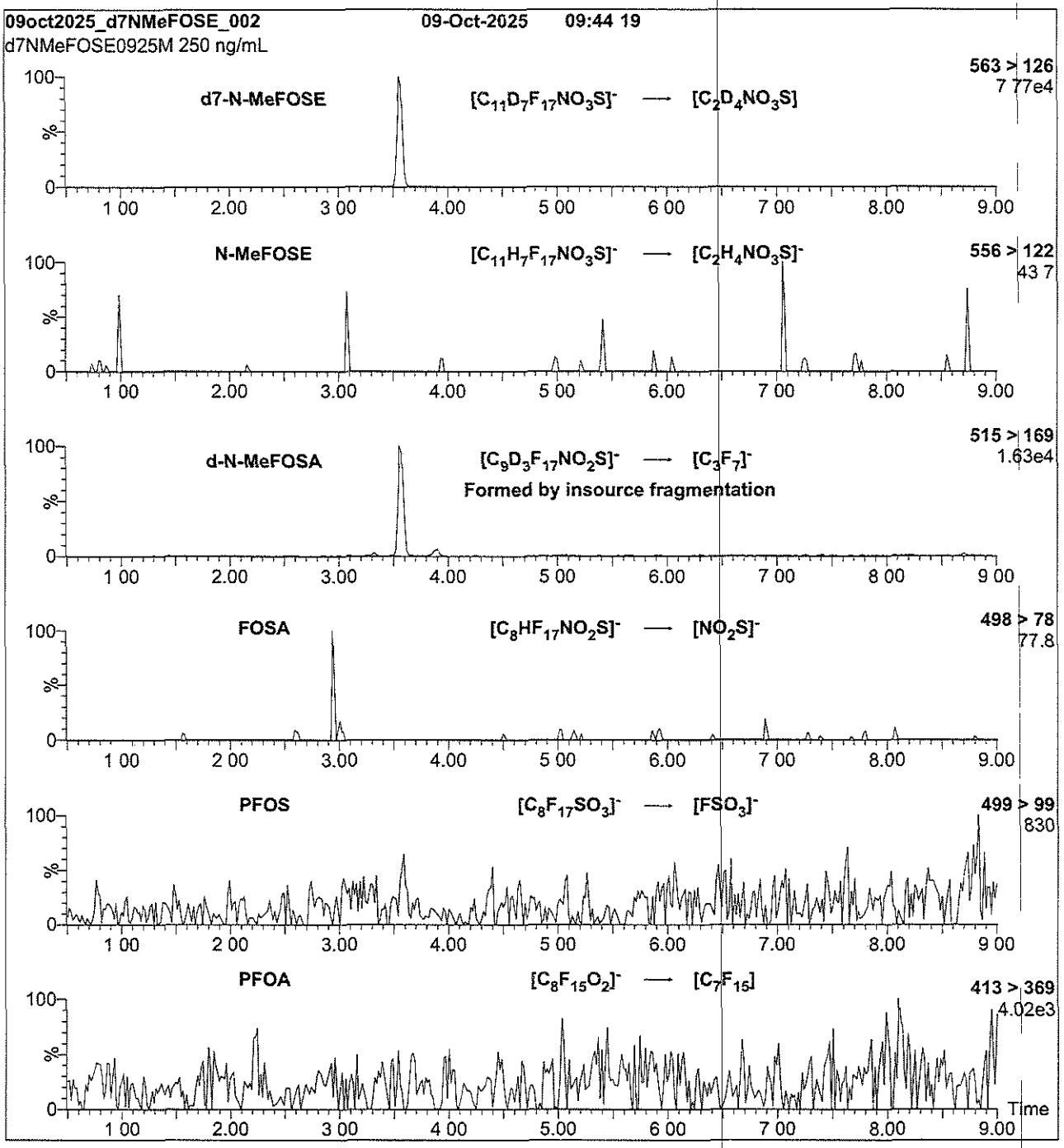
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20 00
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **d7-N-MeFOSE-M, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3.

Injection	On-column (d7-N-MeFOSE-M)	**MS Parameters:**	
Mobile phase:	Same as Figure 2	Collision Gas (mbar) = 3.89e-3 Collision Energy (eV) = 36 (563 > 126)	
Flow:	300 µL/min		

Reagent

PFC_ST_05282

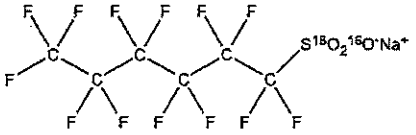
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE. MPFHxS **LOT NUMBER.** MPFHxS0924

COMPOUND. Sodium perfluoro-1 hexane($^{18}O_2$)sulfonate

STRUCTURE.



CAS #. 1585941-14-5

7639630
ID: PFC_ST_04194
Exp:09/11/29 Prpd:PTEB Opn:
Labeled 18O2 PFHxS Stock

7639631
ID: PFC_ST_04195
Exp:09/11/29 Prpd:PTEB Opn:
Labeled 18O2 PFHxS Stock

MOLECULAR FORMULA.	$C_6F_{13}S^{18}O_2{}^{18}ONa$	**MOLECULAR WEIGHT:**	426 10
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt)	**SOLVENT(S).**	Methanol
	47.4 ± 2 4 µg/mL (MPFHxS acid)		
	47 3 ± 2 4 µg/mL (MPFHxS anion)		
CHEMICAL PURITY.	>98%	**ISOTOPIC PURITY:**	>94% ^{18}O
LAST TESTED. (mm/dd/yyyy)	09/11/2024		
EXPIRY DATE. (mm/dd/yyyy)	09/11/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

410-8785873

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- The response factor for MPFHxS ($C_6F_{13}S^{18}O_2{}^{18}O^-$) has been observed to be up to 10% lower than for PFHxS ($C_6F_{13}S^{18}O_3^-$) when both compounds are injected together This difference may vary between instruments
- Contains ~0 6% of sodium perfluoro-1-octane($^{18}O_2$)sulfonate ($^{18}O_2$-PFOS) and ~0 3% of sodium perfluoro-1-heptane($^{18}O_2$)sulfonate ($^{18}O_2$ PFHpS)
- Due to the isotopic purity of the starting material (^{18}O >94%) MPFHxS contains ~0 3% of PFHxS This value agrees with the theoretical percent relative abundance that is expected based on the stated isotopic purity

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Certified By B.G. Chittim General Manager **Date** 09/12/2024 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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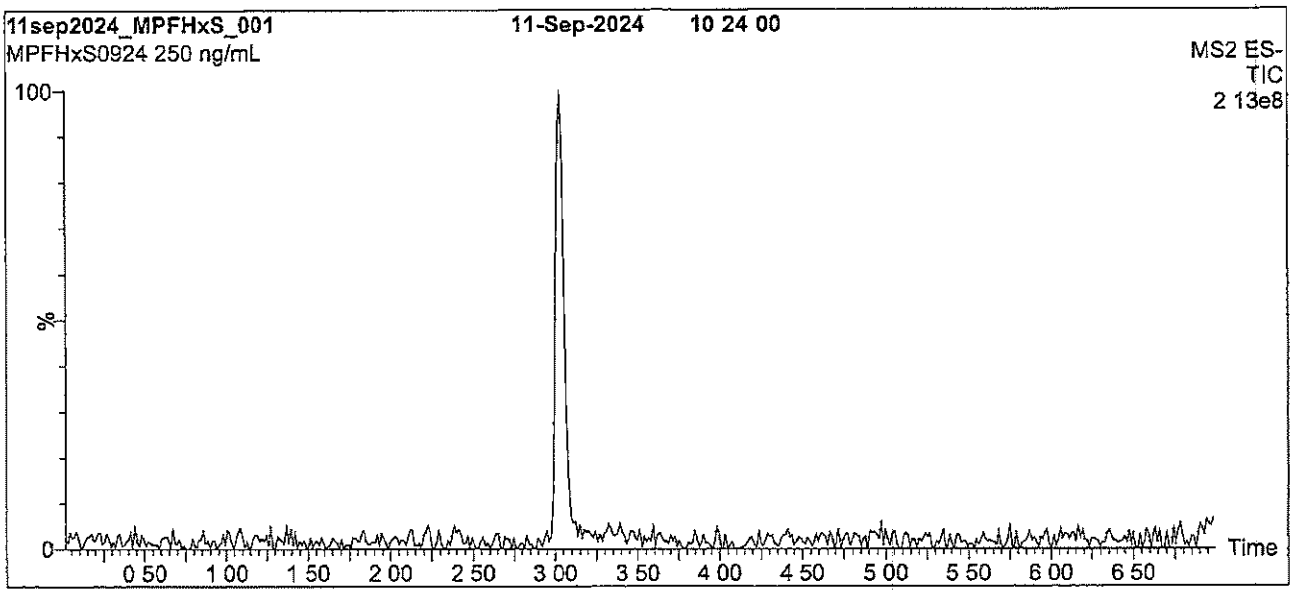
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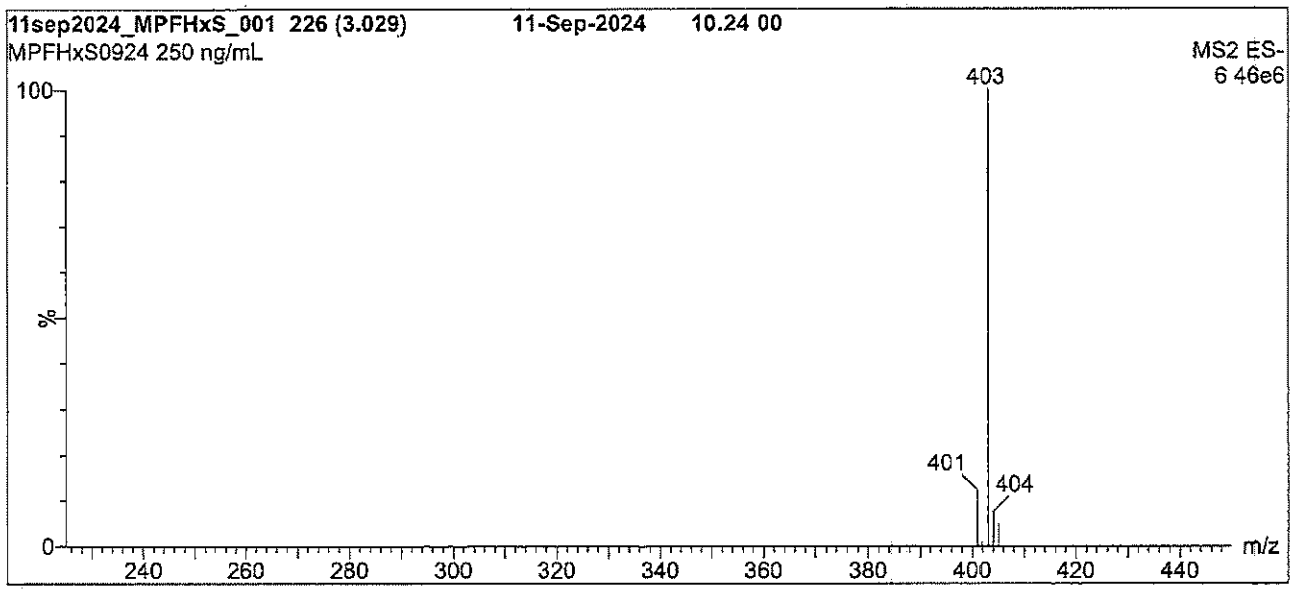
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFHxS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

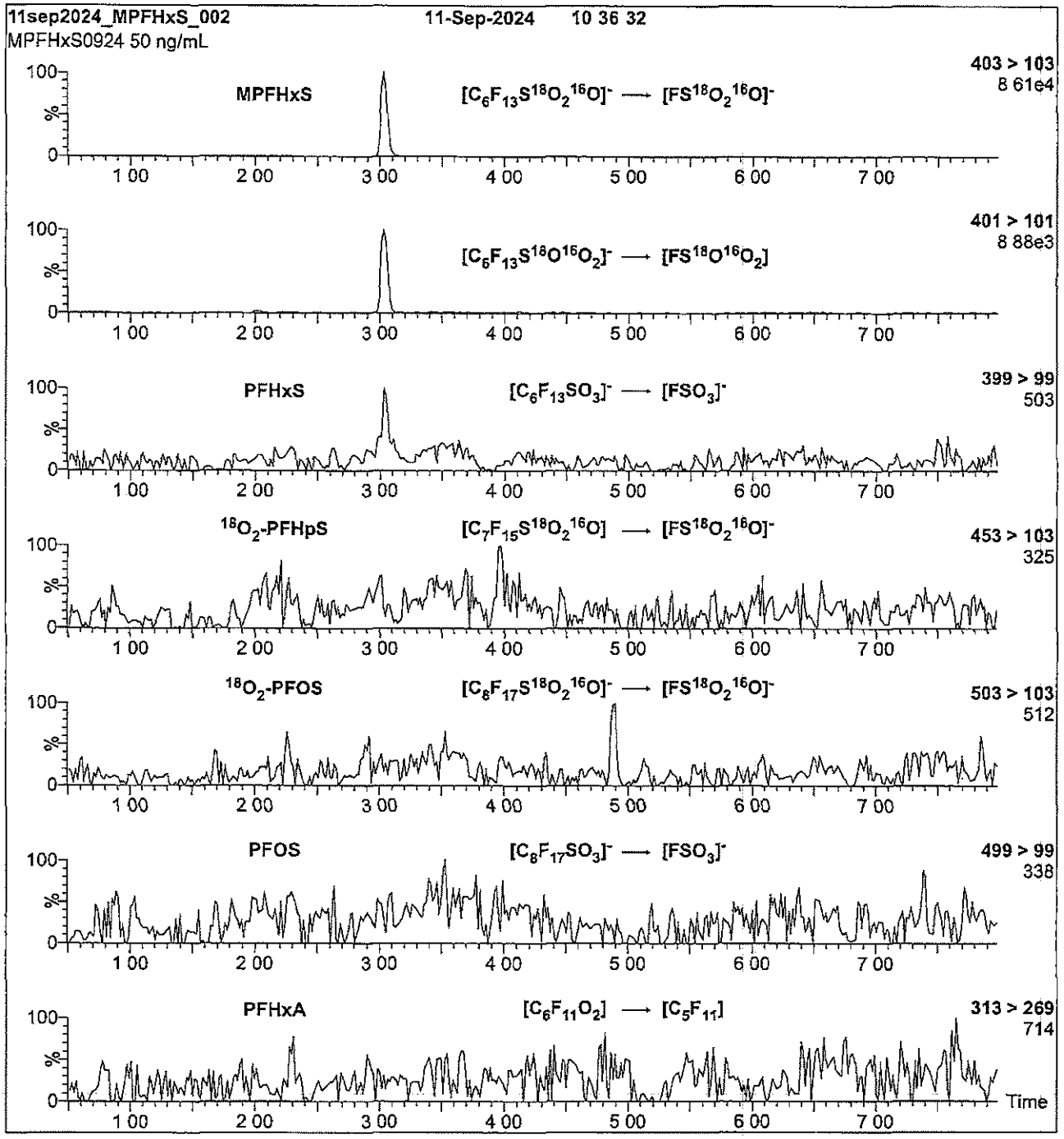
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm 2 1 x 100 mm
Mobile phase	Gradient Start. 50% H_2O / 50% (80:20 MeOH:ACN) (both with 10 mM NH_4OAc buffer) Ramp to 90% organic over 9 min and hold for 1 min before returning to initial conditions in 0.5 min Time 12 min
Flow	300 µL/min

MS Parameters:

Experiment: Full Scan (225 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2 00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFHxS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.			
Injection	On-column (MPFHxS)	MS Parameters.	
Mobile phase	Same as Figure 1	Collision Gas (mbar) = 4.29e-3 Collision Energy (eV) = 32	
Flow	300 µL/min		

Reagent

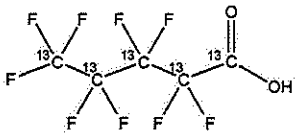
PFC_ST_05292

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ S292, S293, S294, S295

PRODUCT CODE.	M5PFPeA	**LOT NUMBER.**	M5PFPeA0825
COMPOUND.	Perfluoro-n-($^{13}C_5$)pentanoic acid		
STRUCTURE.		**CAS #:**	2283397-79-3



4 0-879/992

MOLECULAR FORMULA:	$^{13}C_5HF_9O_2$	**MOLECULAR WEIGHT:**	269.01
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	08/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/28/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By: _____ **Date** 08/29/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is:

$$u_c(y(x_1\ x_2\ \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

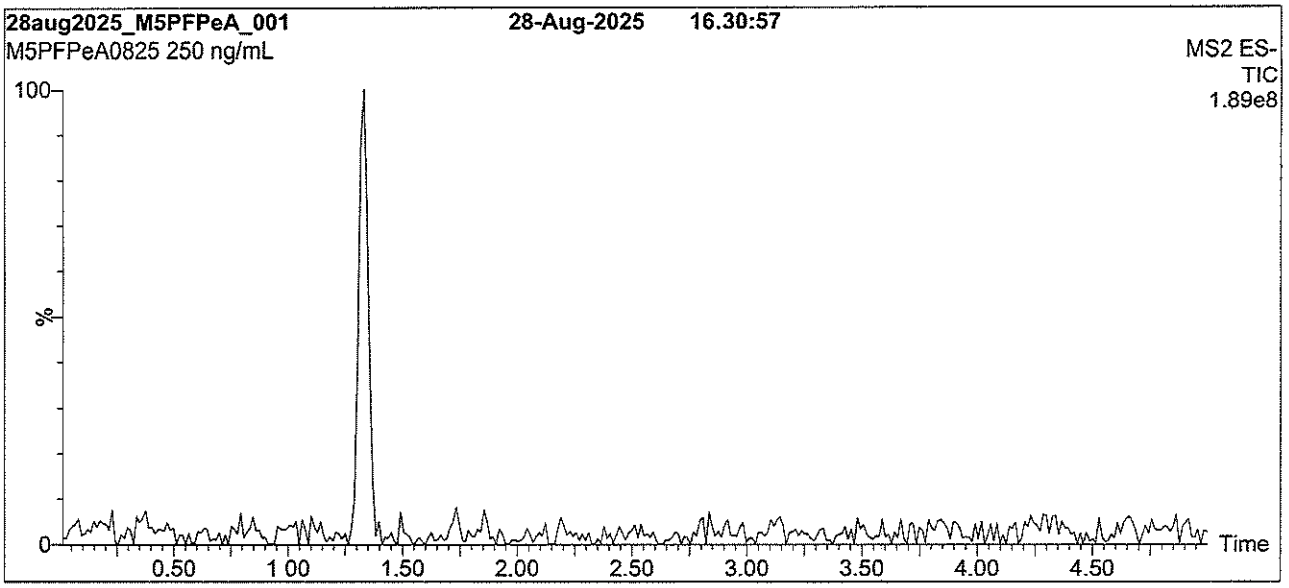
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB· AR-1523).

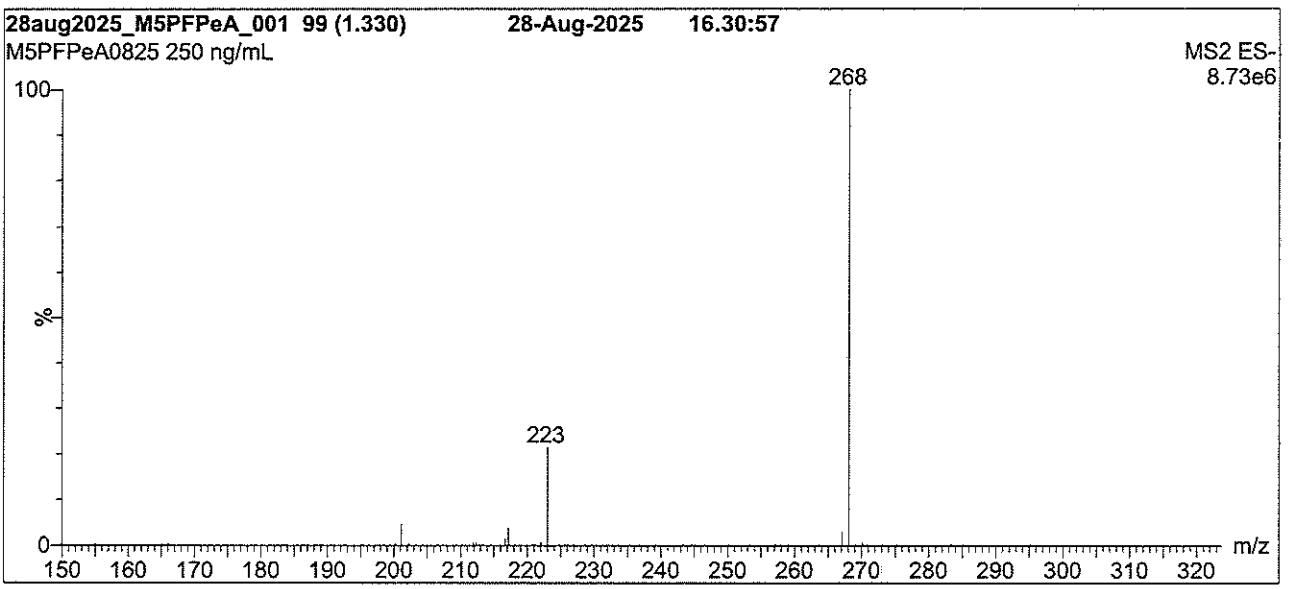
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **M5PFPeA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

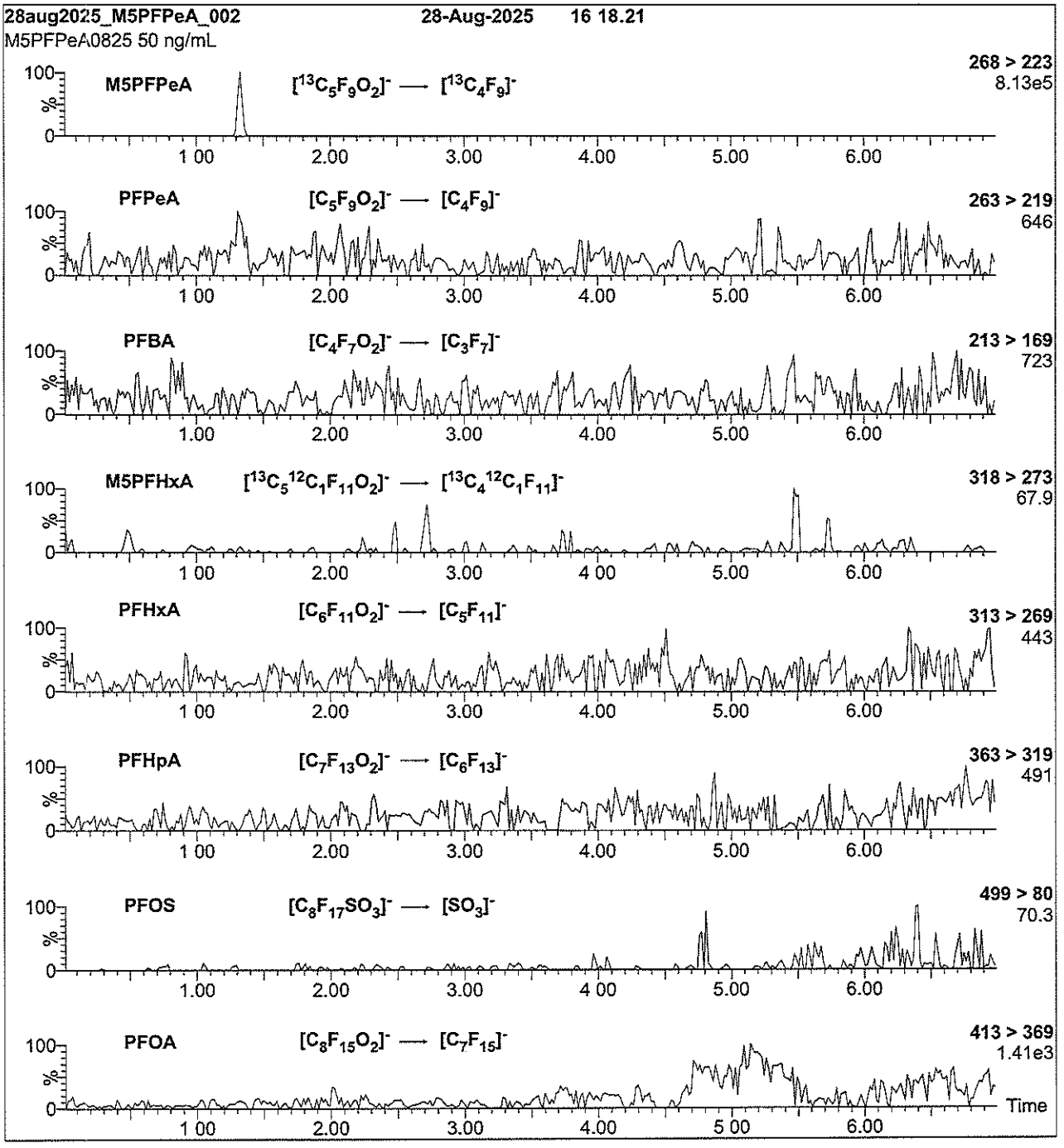
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M5PFPeA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection:	On-column (M5PFPeA)	**MS Parameters:**	
Mobile phase:	Same as Figure 1	Collision Gas (mbar) = 4.64e-3 Collision Energy (eV) = 8 (268 > 223)	
Flow:	300 µL/min		

Reagent

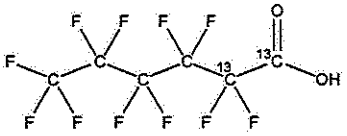
PFC_ST_05297

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_5296, 5297, 5298

PRODUCT CODE.	MPFHxA	**LOT NUMBER.**	MPFHxA0825
COMPOUND.	Perfluoro-n-(1,2-$^{13}C_2$)hexanoic acid		
STRUCTURE.		**CAS #:**	960315-47-3



4 0-8/98002

MOLECULAR FORMULA:	$^{13}C_2{}^{12}C_4HF_{11}O_2$	**MOLECULAR WEIGHT:**	316.04
CONCENTRATION:	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	08/13/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/13/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 08/14/2025 (mm/dd/yyyy)
B G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

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EXPIRY DATE / PERIOD OF VALIDITY:

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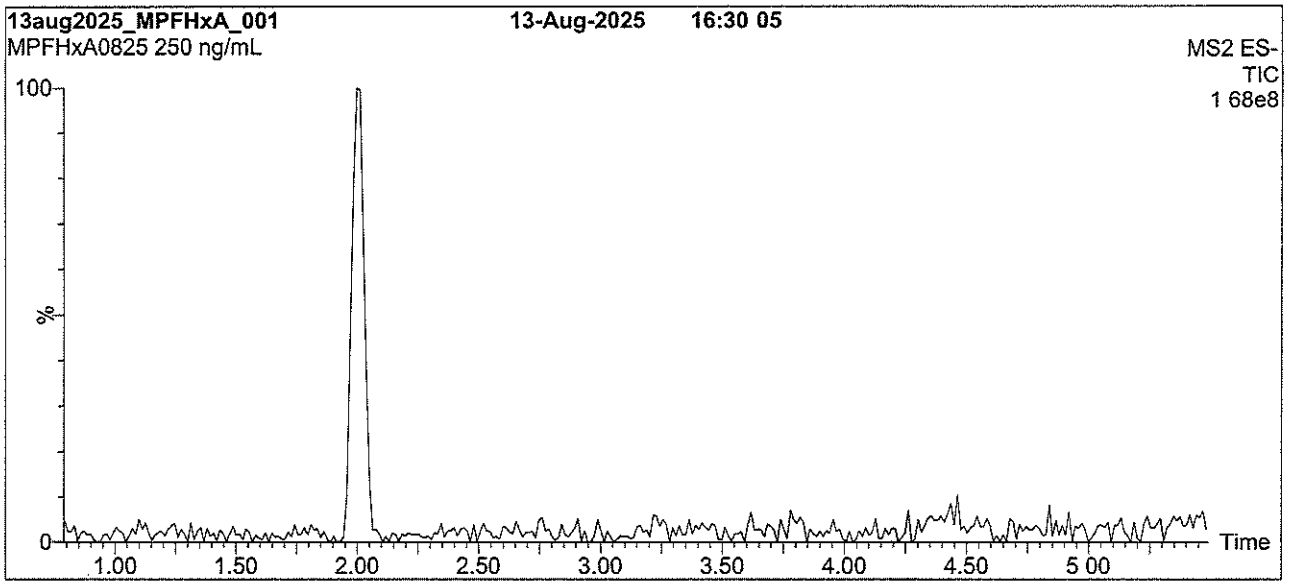
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

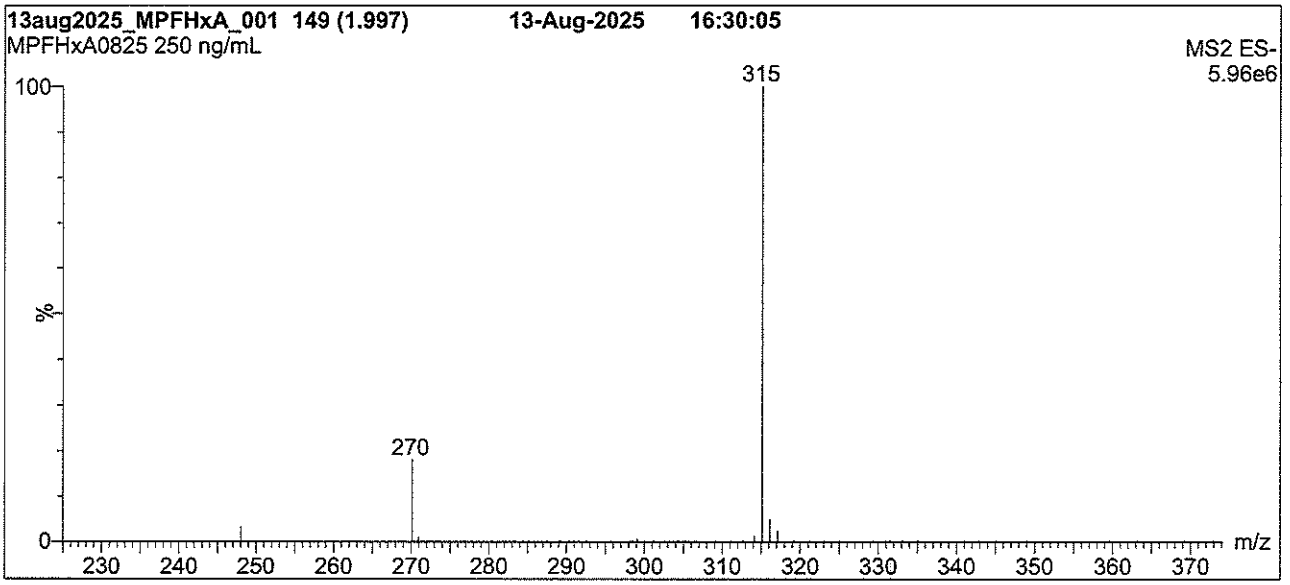
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFHxA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

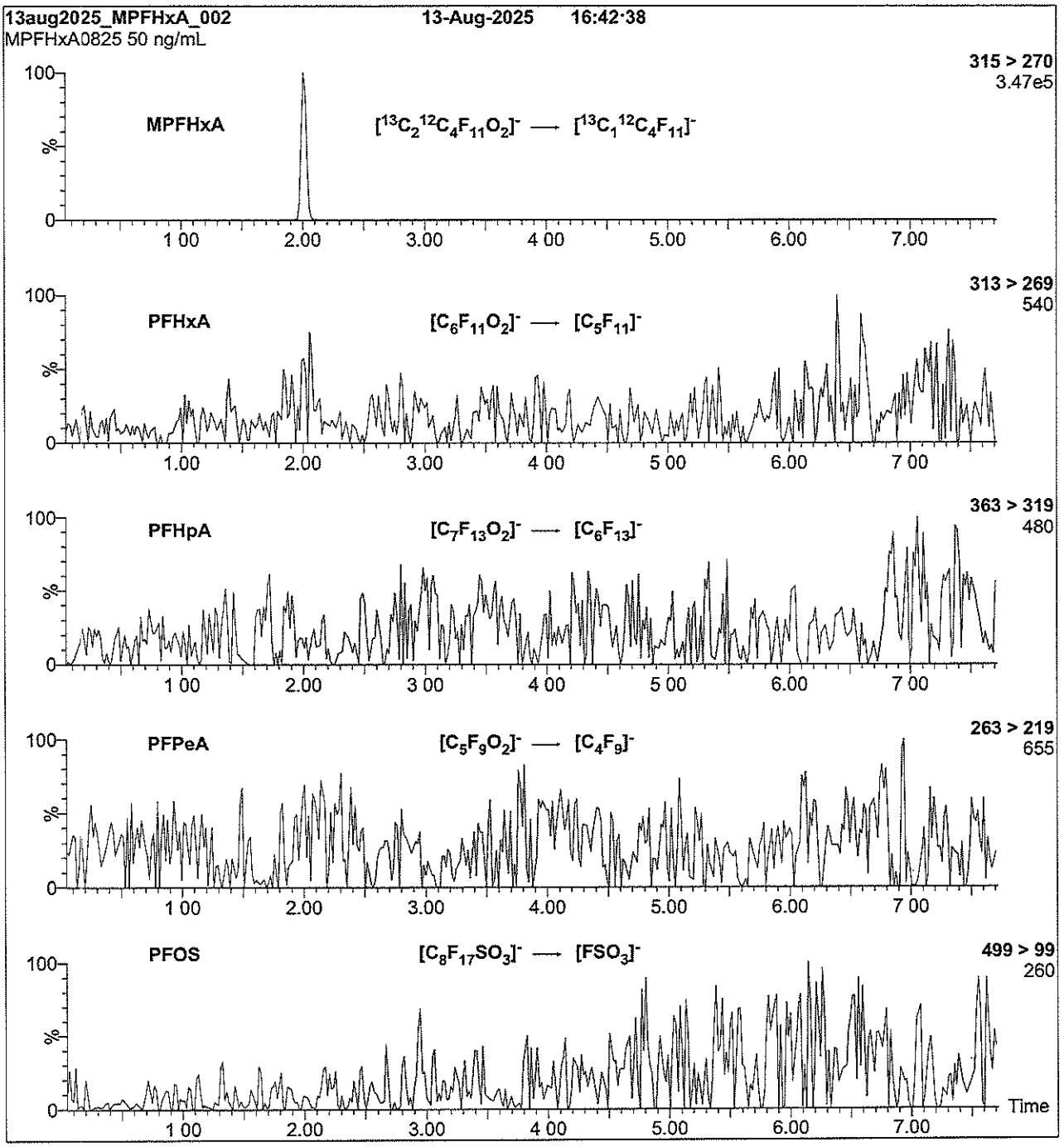
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFHxA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (MPFHxA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.67e-3
Collision Energy (eV) = 8 (315 > 270)

Reagent

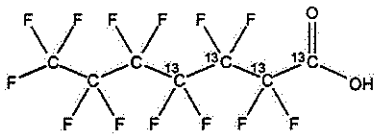
PFC_ST_05300

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST- 5299, 5300, 5301, 5302

PRODUCT CODE.	M4PFHpA	**LOT NUMBER.**	M4PFHpA0725
COMPOUND.	Perfluoro-n-(1,2,3,4-$^{13}C_4$)heptanoic acid		
STRUCTURE.		**CAS #:**	2328024-55-9



410-8798006

MOLECULAR FORMULA:	$^{13}C_4{}^{12}C_3HF_{13}O_2$	**MOLECULAR WEIGHT:**	368 03
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	07/16/2025		
EXPIRY DATE. (mm/dd/yyyy)	07/16/2030		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· _____ **Date** 07/30/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

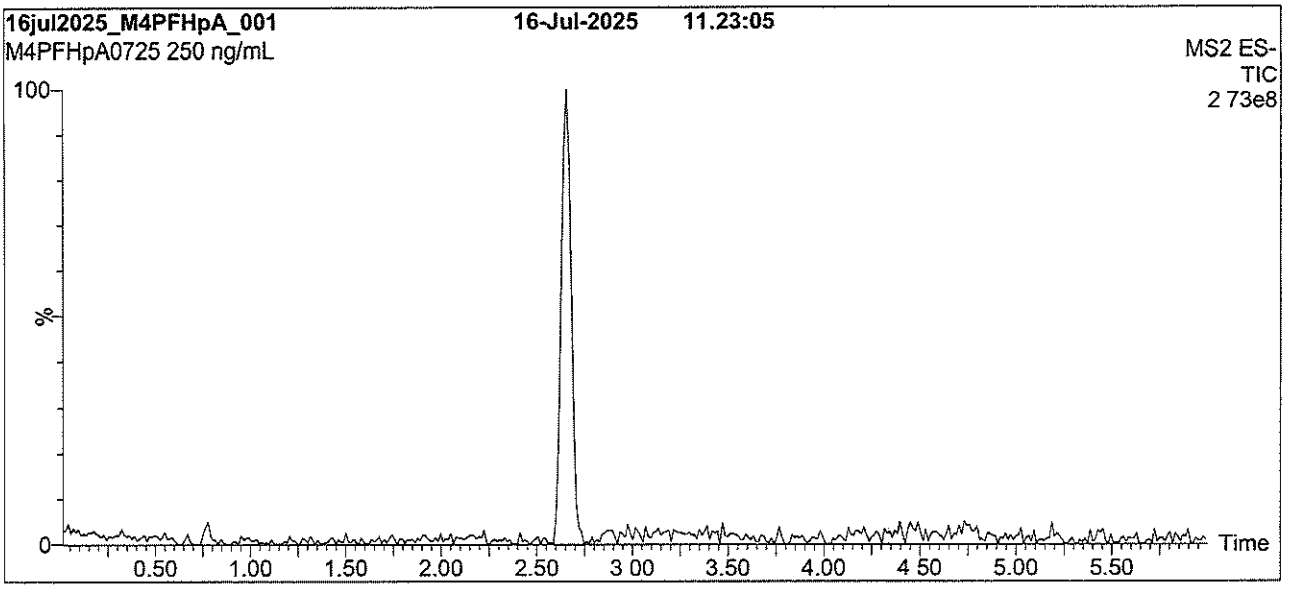
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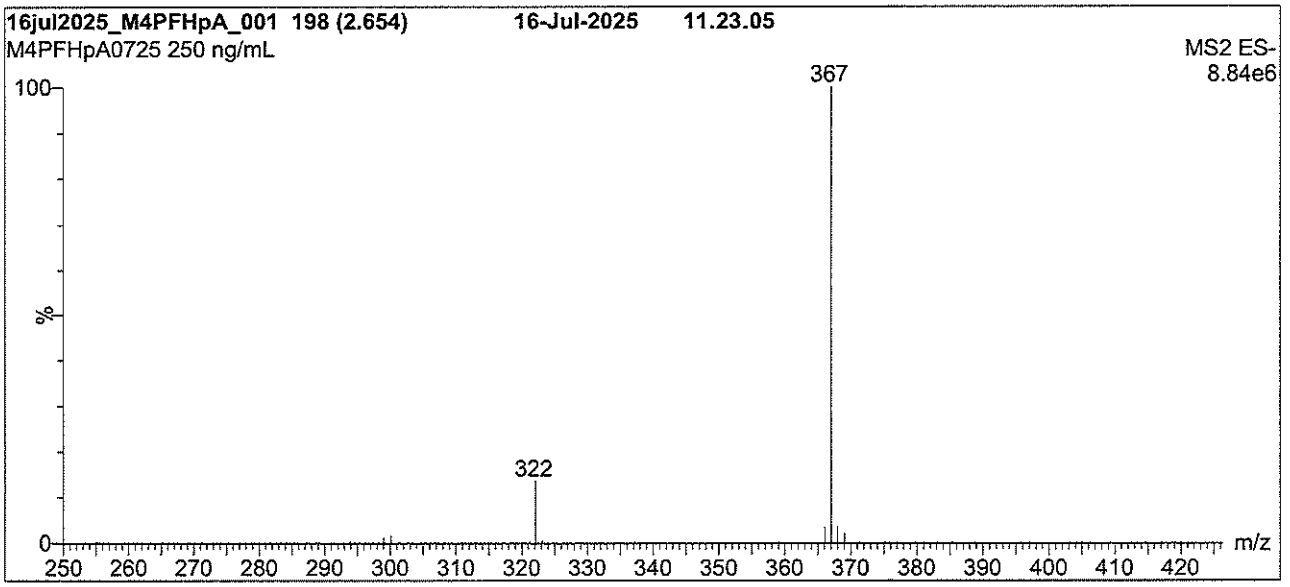
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **M4PFHpA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

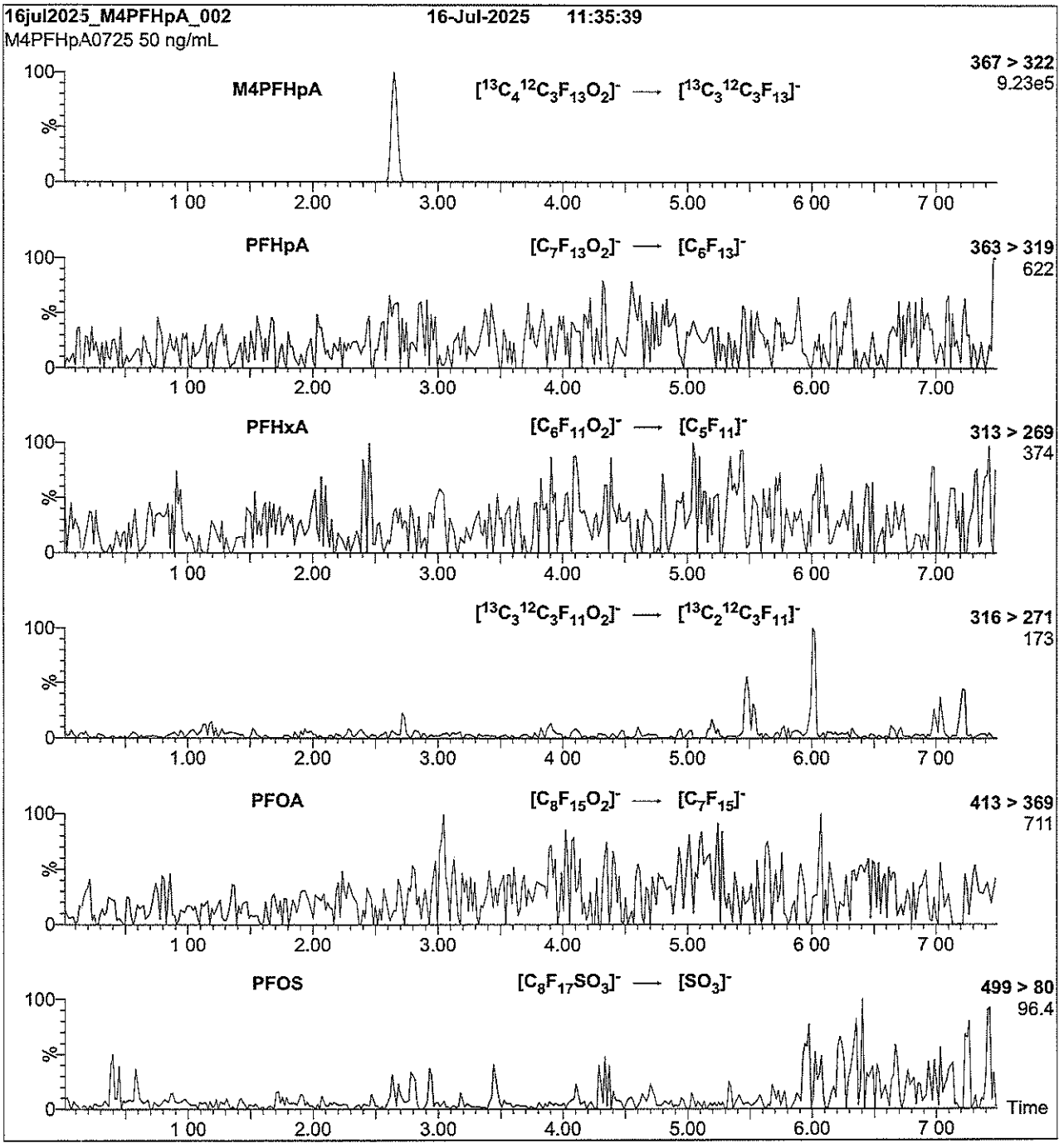
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M4PFHpA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection:	On-column (M4PFHpA)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.49e-3
Collision Energy (eV) = 8

Reagent

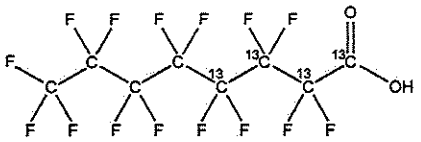
PFC_ST_05307

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST_5307, 5306

PRODUCT CODE.	MPFOA	**LOT NUMBER.**	MPFOA0525
COMPOUND.	Perfluoro-n-(1,2,3,4-$^{13}C_4$)octanoic acid		
STRUCTURE.		**CAS #:**	960315-48-4



410-87980

MOLECULAR FORMULA:	$^{13}C_4{}^{12}C_4HF_{15}O_2$	**MOLECULAR WEIGHT:**	418 04
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	06/05/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/05/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· _____ **Date** 06/20/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
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QUALITY MANAGEMENT:

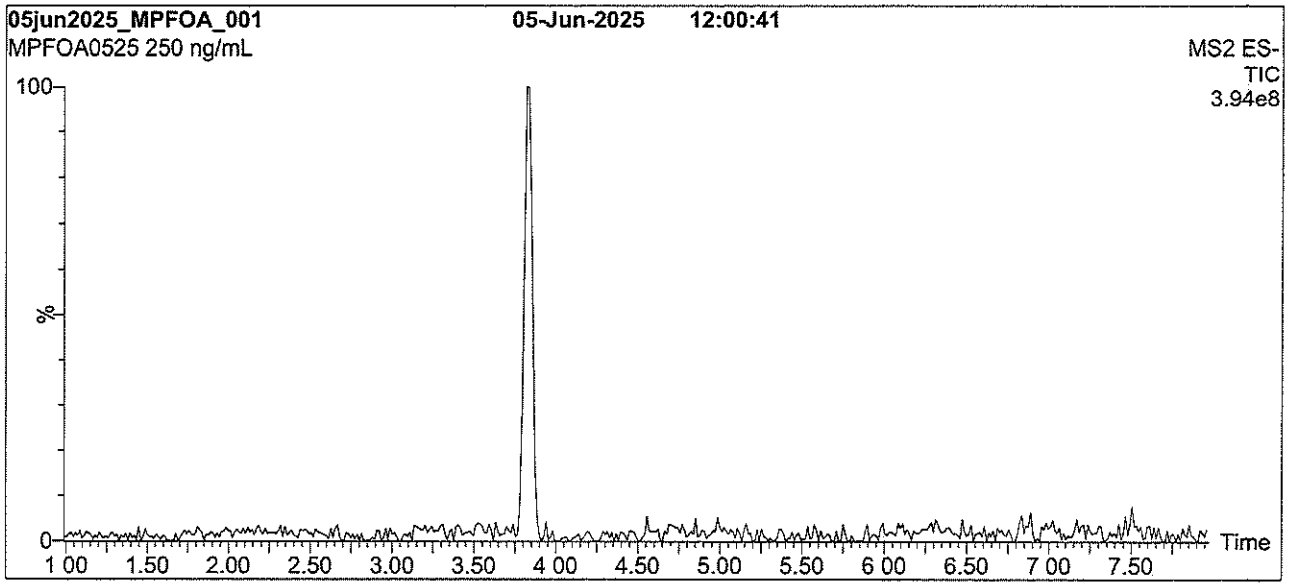
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB, AR-1523).

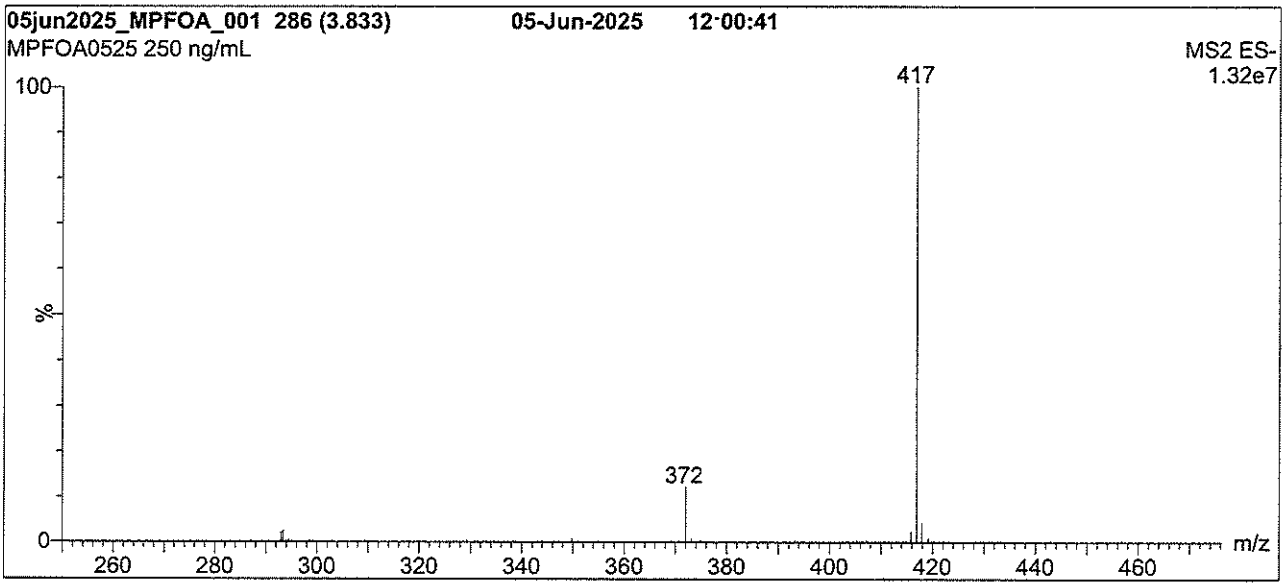
CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFOA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase. Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

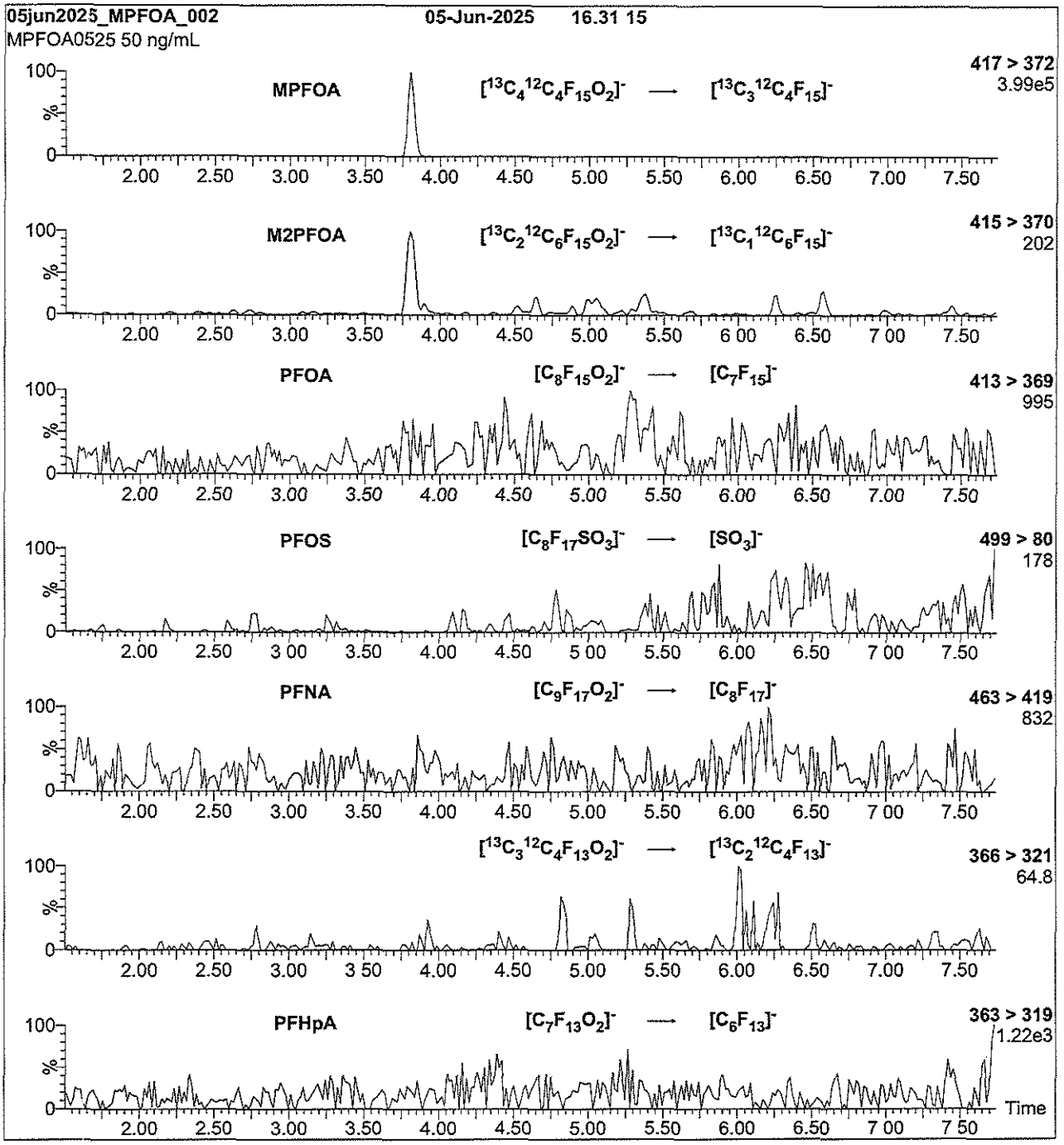
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFOA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection.	*On-column (MPFOA)*
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.76e-3
Collision Energy (eV) = 8

Reagent

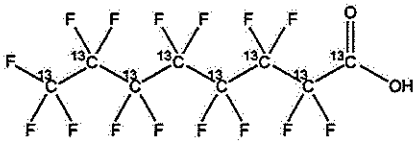
PFC_ST_05308

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ 5308, 5309, 536, 5311

PRODUCT CODE.	M8PFOA	**LOT NUMBER.**	M8PFOA0625
COMPOUND.	Perfluoro-n-($^{13}C_8$)octanoic acid		
STRUCTURE.		**CAS #:**	1350614-84-4



410-87980/3

MOLECULAR FORMULA.	$^{13}C_8HF_{15}O_2$	**MOLECULAR WEIGHT:**	422.01
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	06/30/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/30/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~1 1% of perfluoro-n-($^{13}C_4$)octanoic acid (MPFOA)

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date·** 07/08/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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HOMOGENEITY:

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, ..x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

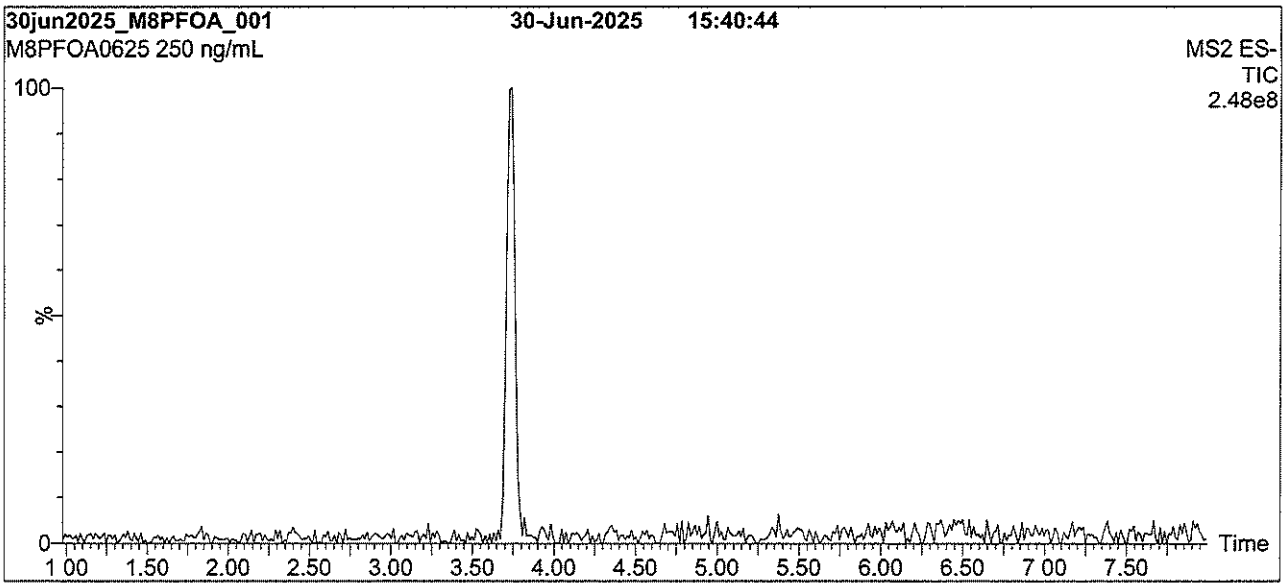
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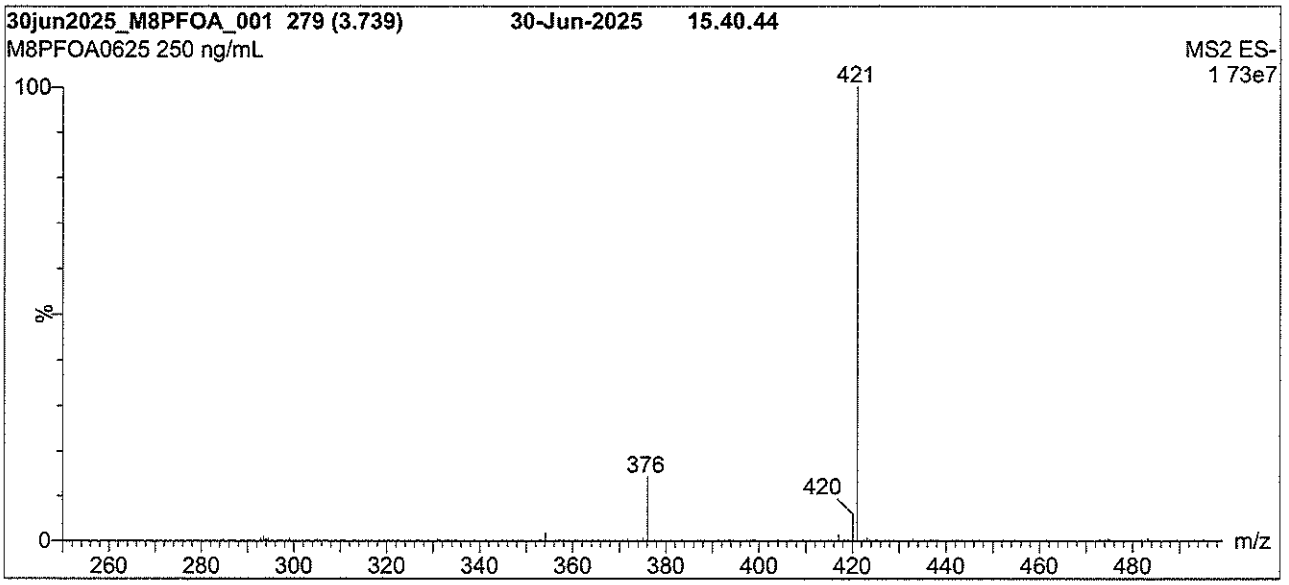
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **M8PFOA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

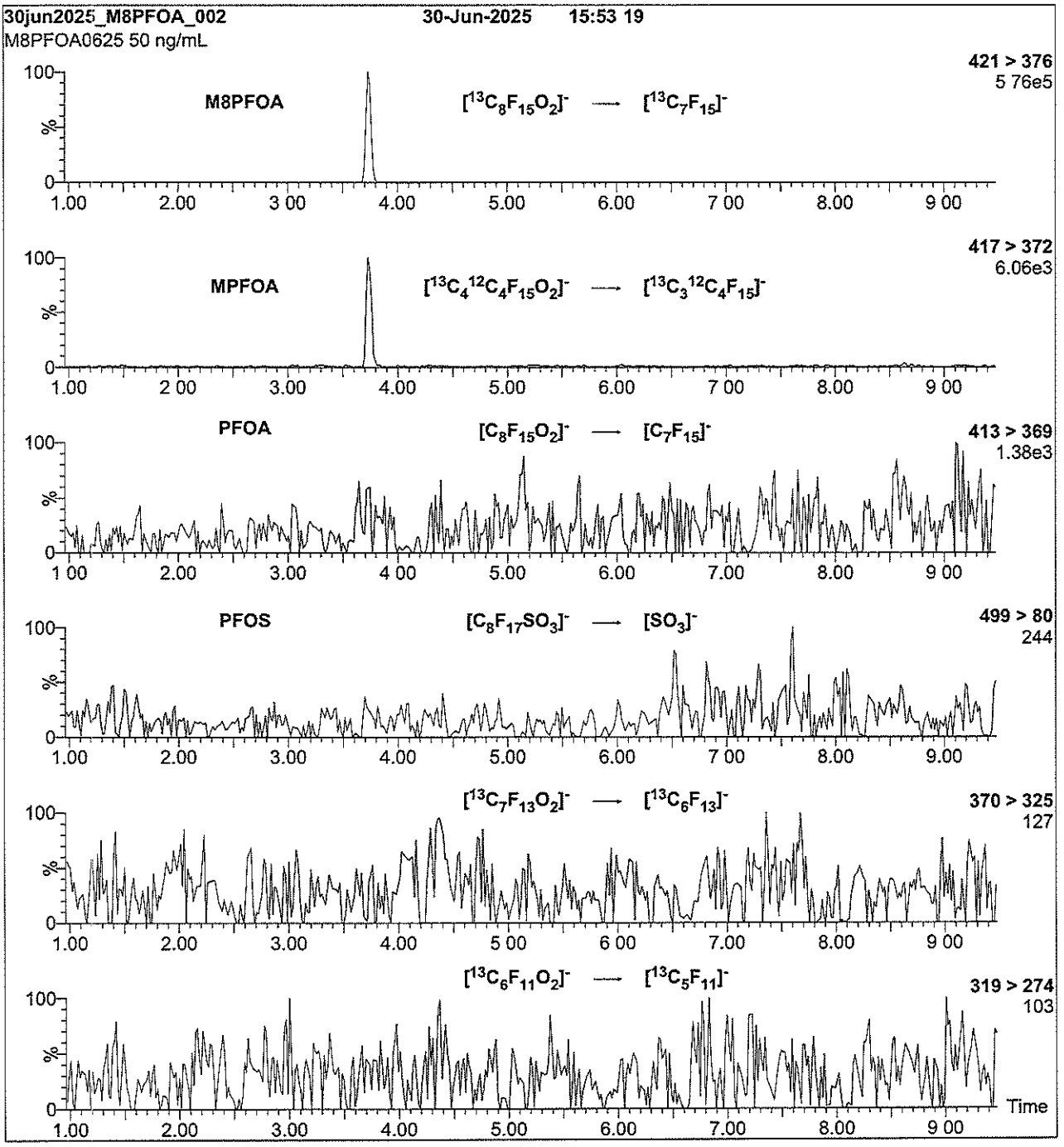
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8PFOA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M8PFOA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 8

Reagent

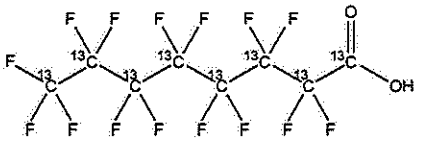
PFC_ST_05310

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST-GS197, 5198, 5199, 5200

PRODUCT CODE.	M8PFOA	**LOT NUMBER.**	M8PFOA0625
COMPOUND:	Perfluoro-n-($^{13}C_8$)octanoic acid		
STRUCTURE.		**CAS #:**	1350614-84-4



410-8798075

MOLECULAR FORMULA.	$^{13}C_8HF_{15}O_2$	**MOLECULAR WEIGHT:**	422.01
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	06/30/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/30/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~1 1% of perfluoro-n-($^{13}C_4$)octanoic acid (MPFOA).

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Certified By: _____ **Date.** 07/08/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

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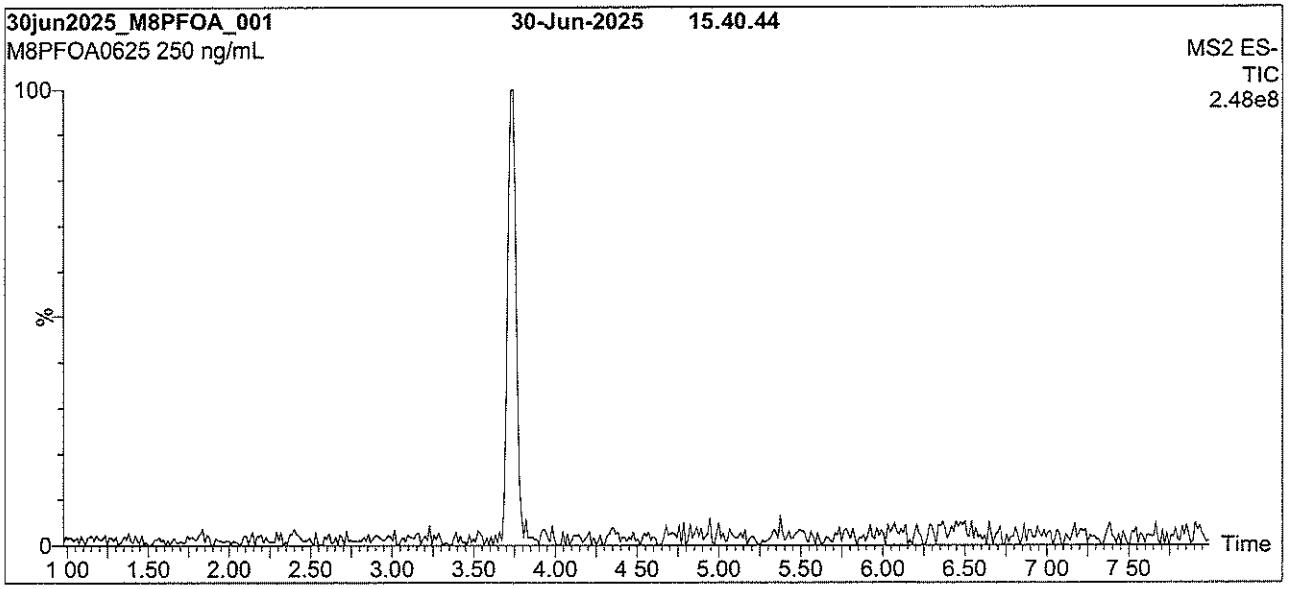
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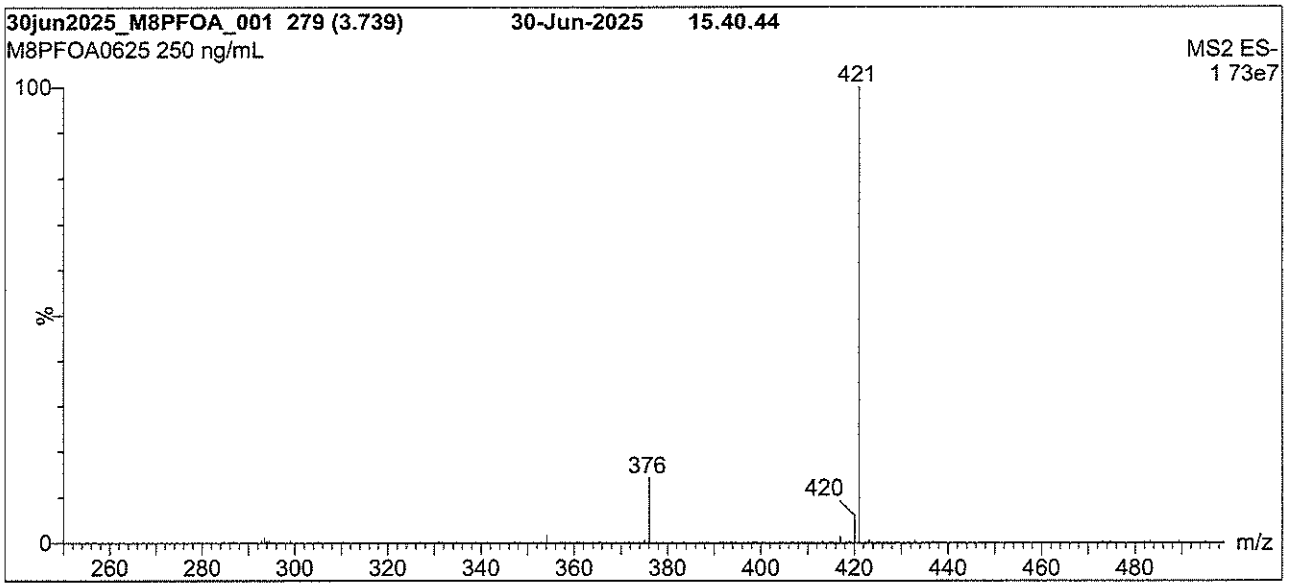
CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **M8PFOA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

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(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

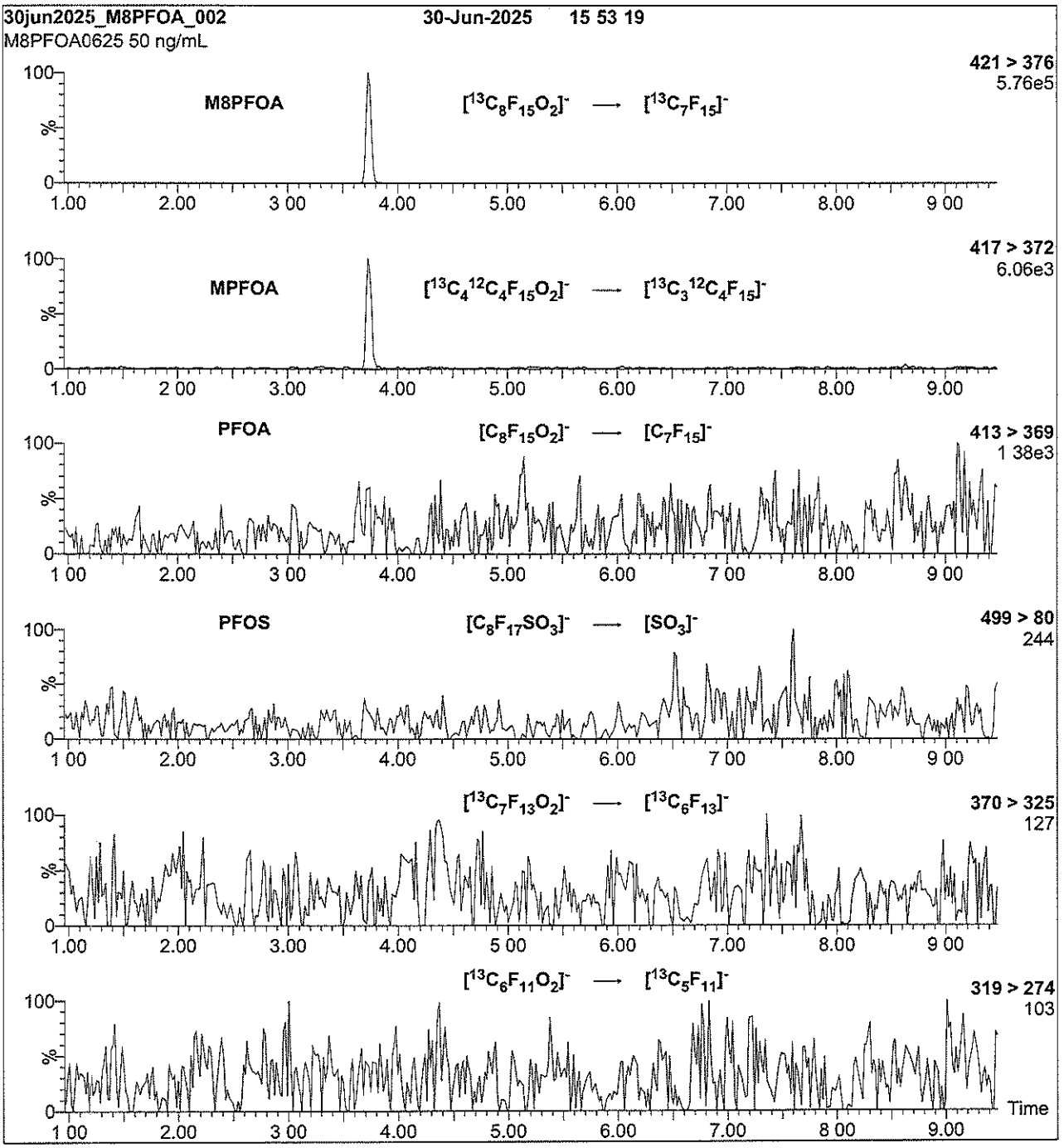
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8PFOA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M8PFOA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_05318

WELLINGTON LABORATORIES

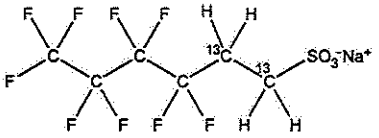
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_053 17, 5318, 5319, 5320, 5321

PRODUCT CODE. M2-4:2FTS **LOT NUMBER:** M242FTS0725

COMPOUND: Sodium 1H 1H,2H,2H-perfluoro(1,2-$^{13}C_2$)hexanesulfonate ($^{13}C_2$-4.2 FTS)

STRUCTURE:



CAS #: 2708218-88-4



MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_4H_4F_9SO_3Na$	**MOLECULAR WEIGHT:**	352.12
CONCENTRATION:	50 0 ± 2.5 µg/mL (Na salt) 46.9 ± 2.3 µg/mL (M2-4:2FTS acid) 46 7 ± 2.3 µg/mL (M2-4:2FTS anion)	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	07/23/2025		
EXPIRY DATE: (mm/dd/yyyy)	07/23/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- It is known that elevated concentrations of 4:2FTS will contribute to the response of the m/z 329 > 309 MRM transition of M2-4.2FTS due to the natural abundance of ^{34}S (~4.2% relative to ^{32}S) in the native compound Therefore, use of the alternative product ion (m/z 81 [$^{32}SO_3H]^-$) is recommended. The analogous transition for the ^{34}S native analyte would produce m/z 83 [$^{34}SO_3H]^-$ from the same nominal mass precursor ion thereby eliminating the potential interference.
- Contains ≤0.5% of sodium 1H,2H-perfluoro-1-(1,2-$^{13}C_2$)hexenesulfonate by ^{19}F NMR

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Certified By· _____ **Date** 08/12/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
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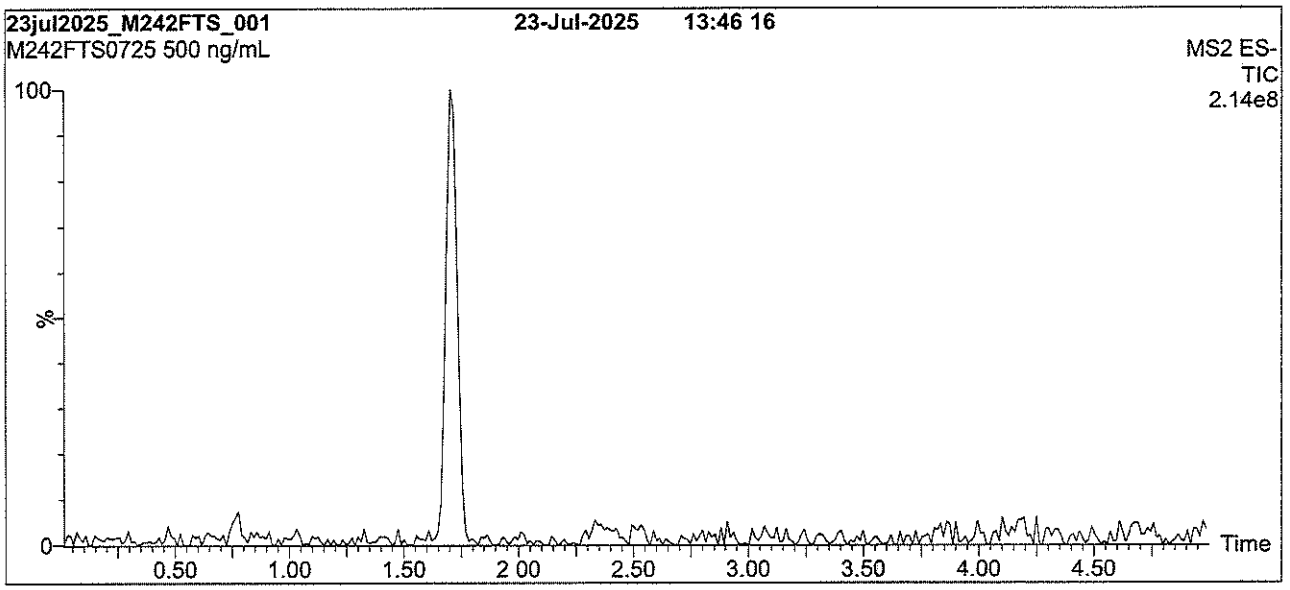
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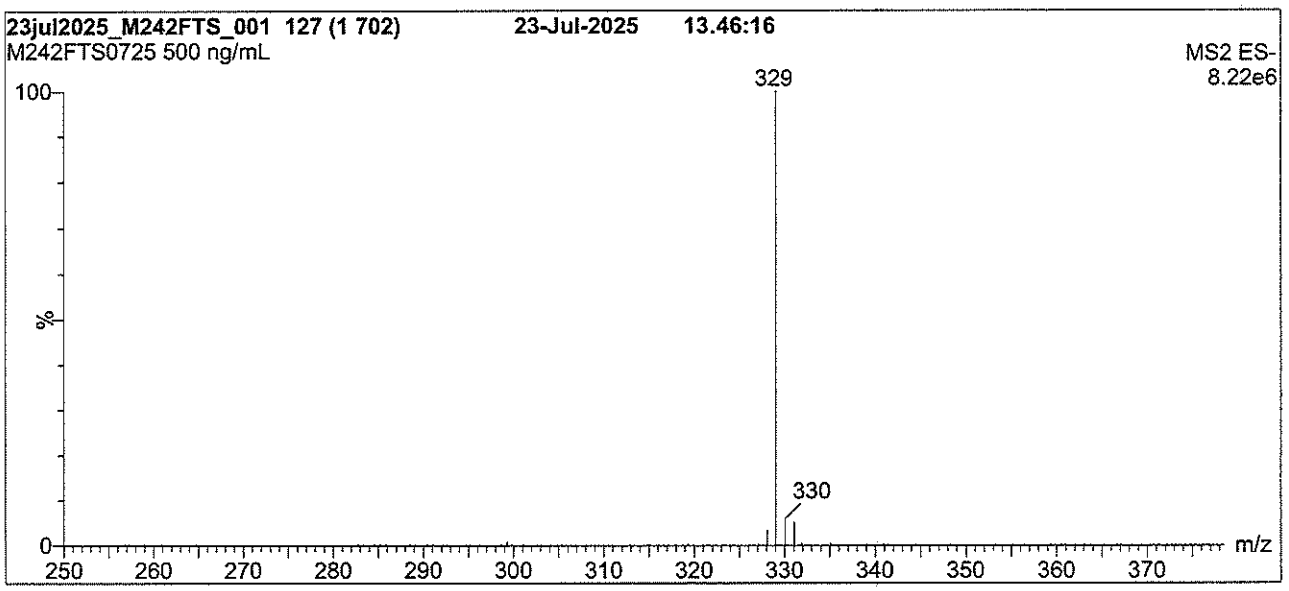
CALA Testing Accreditation No. A1226

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Figure 1. **M2-4 2FTS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

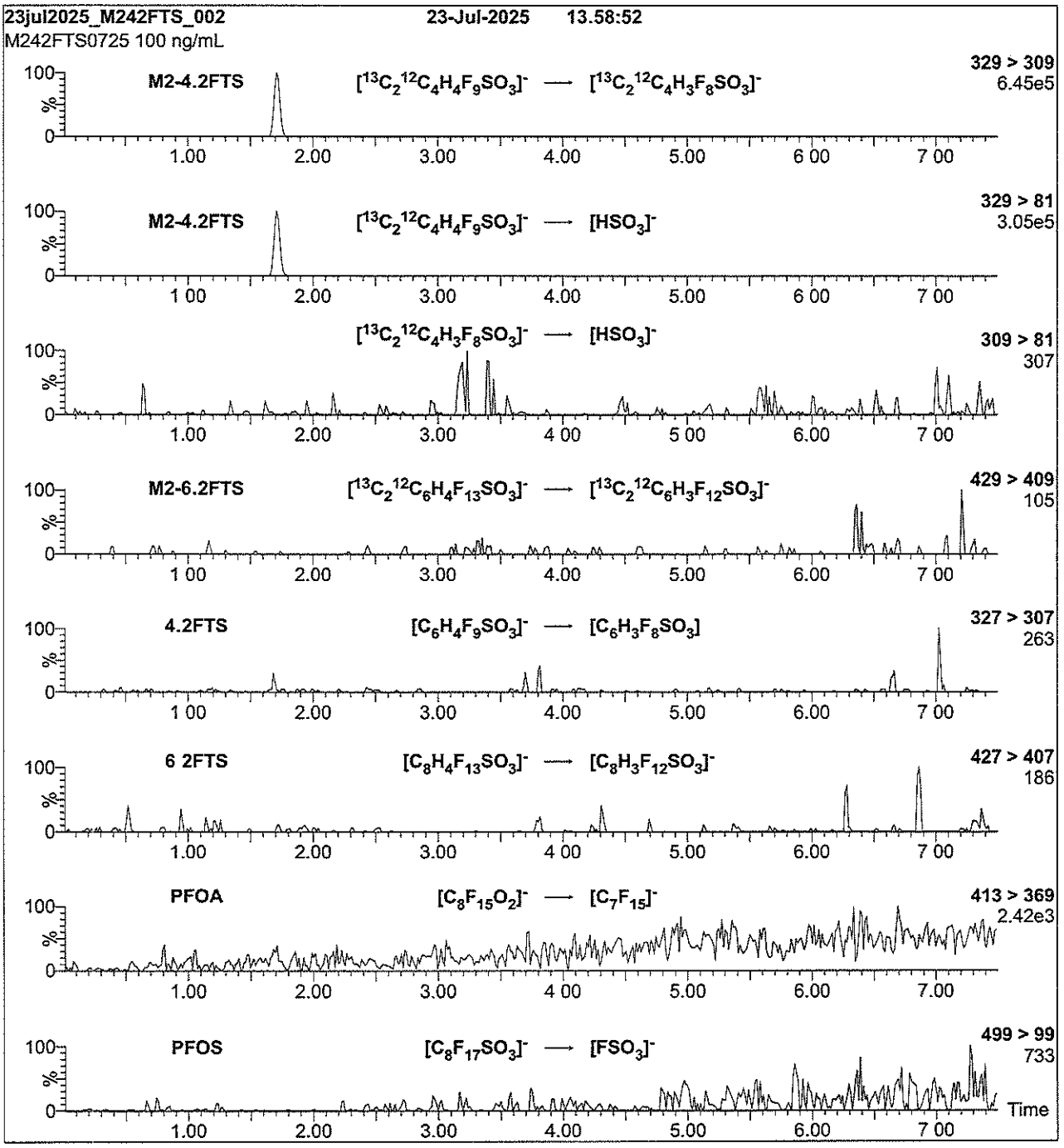
Flow 300 µL/min

MS Parameters:

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2-4:2FTS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection:	On-column (M2-4:2FTS)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.65e-3
Collision Energy (eV) = 18

Reagent

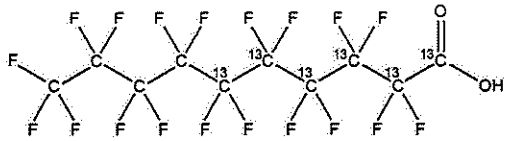
PFC_ST_05325

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ 5192, 5191, 5190, 5189

PRODUCT CODE.	M6PFDA	**LOT NUMBER.**	M6PFDA0925
COMPOUND.	Perfluoro-n-(1 2,3,4,5 6-$^{13}C_5$)decanoic acid		
STRUCTURE.		**CAS #:**	2328024-56-0



410-8660/44

MOLECULAR FORMULA:	$^{13}C_6{}^{12}C_4HF_{19}O_2$	**MOLECULAR WEIGHT:**	520.04
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	09/23/2025		
EXPIRY DATE. (mm/dd/yyyy)	09/23/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains 0.2% of perfluoro-n-(1,2,3,4,5-$^{13}C_5$)nonanoic acid (MPFNA).

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date·** 09/24/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING:

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard they are compared by GC/MS, LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation.

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1 x_2 $..x_n$ on which it depends is.

$$u_c(y(x_1\ x_2\ ..x_n)) = \sqrt{\sum_{i=1}^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

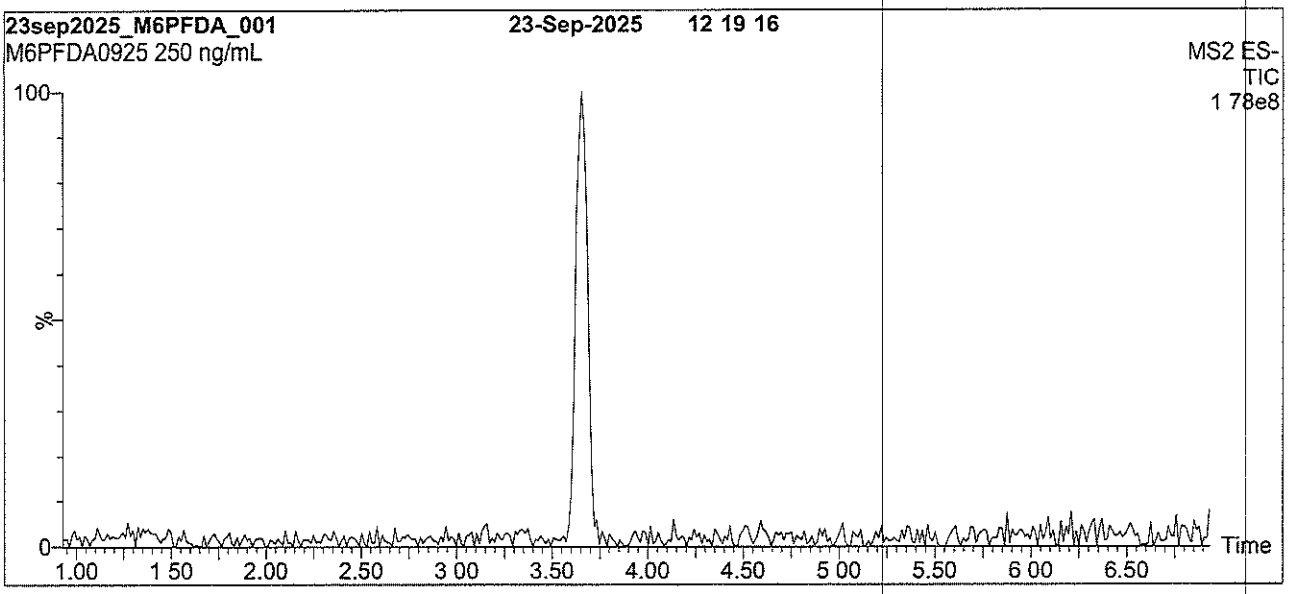
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523).

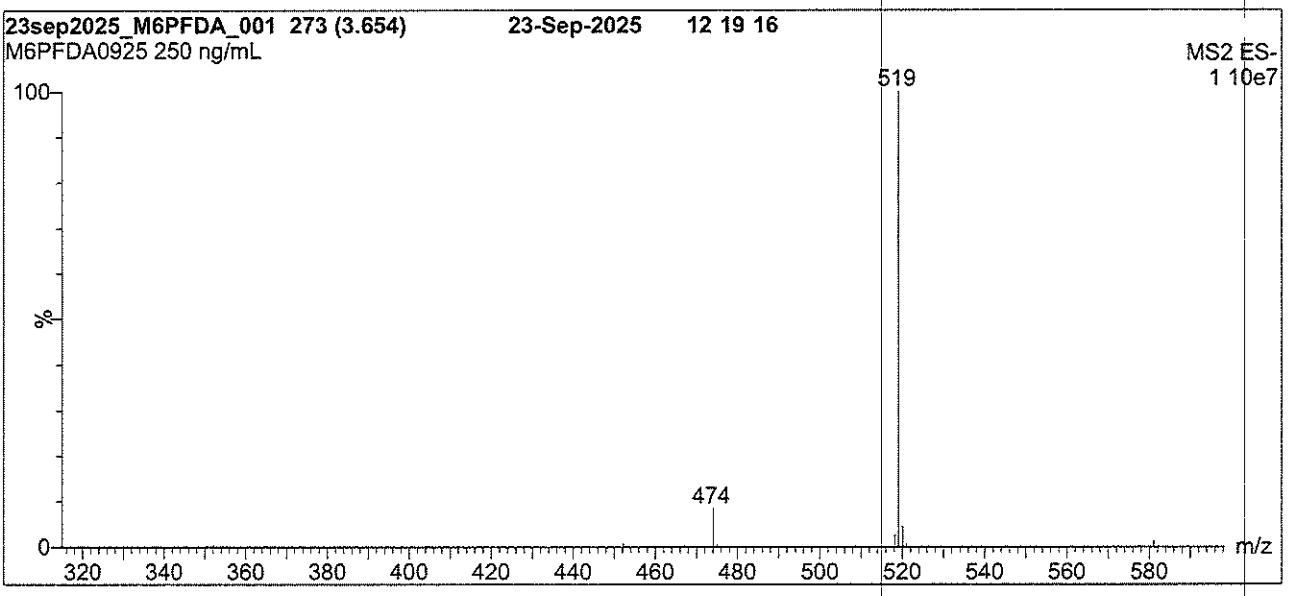
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **M6PFDA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

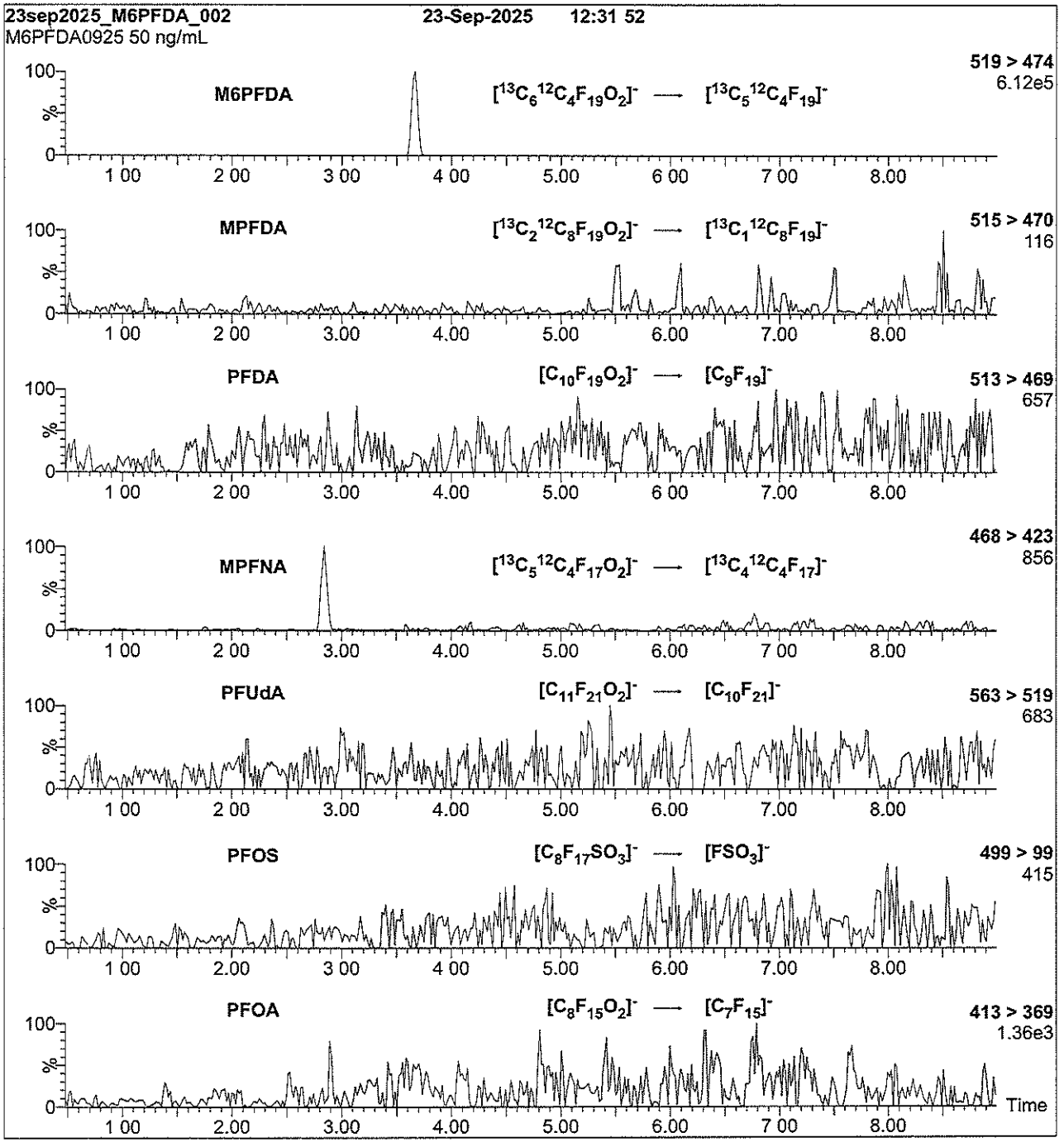
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M6PFDA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M6PFDA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.71e-3
Collision Energy (eV) = 10 (519 > 474)

Reagent

PFC_ST_05330

WELLINGTON LABORATORIES

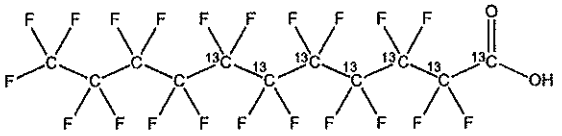
CERTIFICATE OF ANALYSIS
DOCUMENTATION

5329, 5330, 5331, 5332

PRODUCT CODE. M7PFUdA **LOT NUMBER.** M7PFUdA0925

COMPOUND. Perfluoro-n-(1,2,3,4,5 6 7-$^{13}C_7$)undecanoic acid

STRUCTURE.



CAS #: Not available

410-87985

MOLECULAR FORMULA.	$^{13}C_7{}^{12}C_4HF_{21}O_2$	**MOLECULAR WEIGHT:**	571 04
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	09/17/2025		
EXPIRY DATE. (mm/dd/yyyy)	09/17/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By: _____ **Date** 09/22/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is:

$$u_c(y(x_1, x_2 \quad x)) = \sqrt{\sum_{i=1} u(y\ x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications

QUALITY MANAGEMENT:

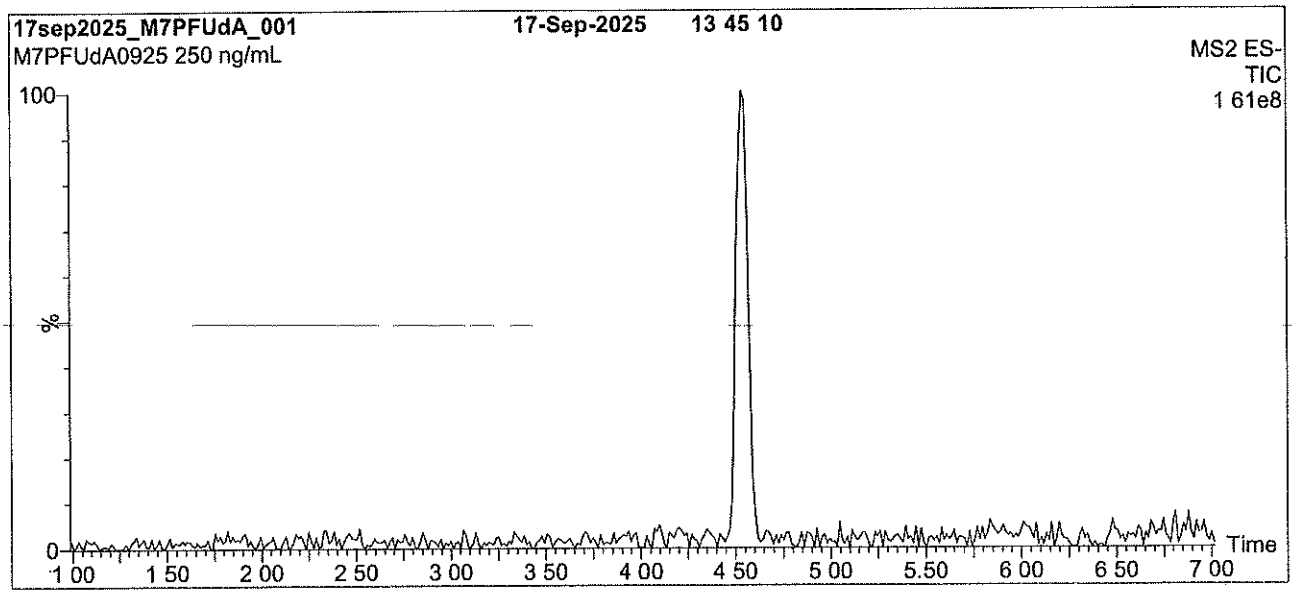
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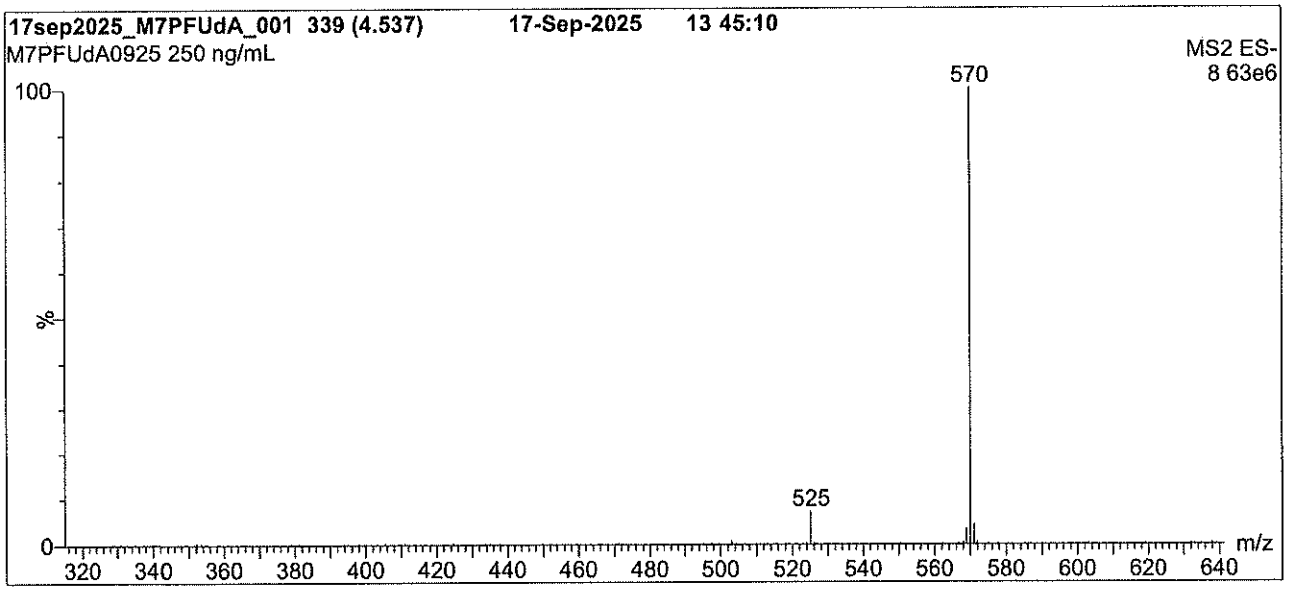
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M7PFUdA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2 1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

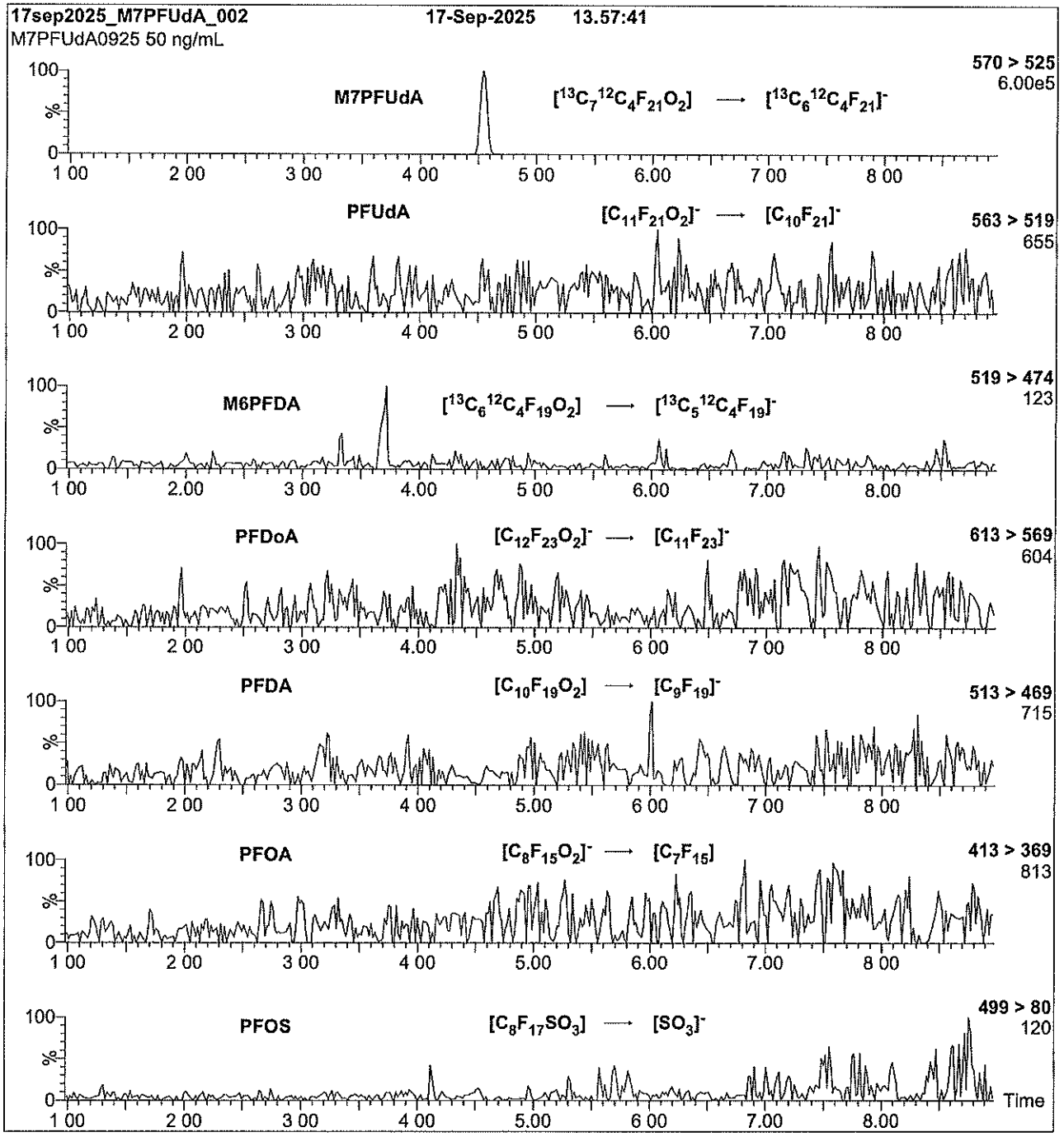
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M7PFUdA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection:	On-column (M7PFUdA)
Mobile phase	Same as Figure 1
Flow:	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 12 (570 > 525)

Reagent

PFC_ST_05332

WELLINGTON LABORATORIES

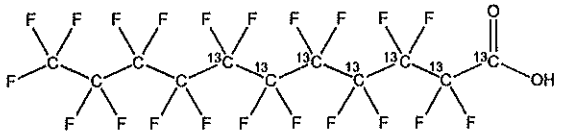
CERTIFICATE OF ANALYSIS
DOCUMENTATION

5329, 5330, 5331, 5332

PRODUCT CODE. M7PFUdA **LOT NUMBER.** M7PFUdA0925

COMPOUND. Perfluoro-n-(1 2 3,4,5 6 7-$^{13}C_7$)undecanoic acid

STRUCTURE. **CAS #.** Not available



410-8798611

MOLECULAR FORMULA.	$^{13}C_7{}^{12}C_4HF_{21}O_2$	**MOLECULAR WEIGHT:**	571 04
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	09/17/2025		
EXPIRY DATE. (mm/dd/yyyy)	09/17/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By· _____ **Date** 09/22/2025 (mm/dd/yyyy)
B G. Chittim General Manager

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EXPIRY DATE / PERIOD OF VALIDITY:

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QUALITY MANAGEMENT:

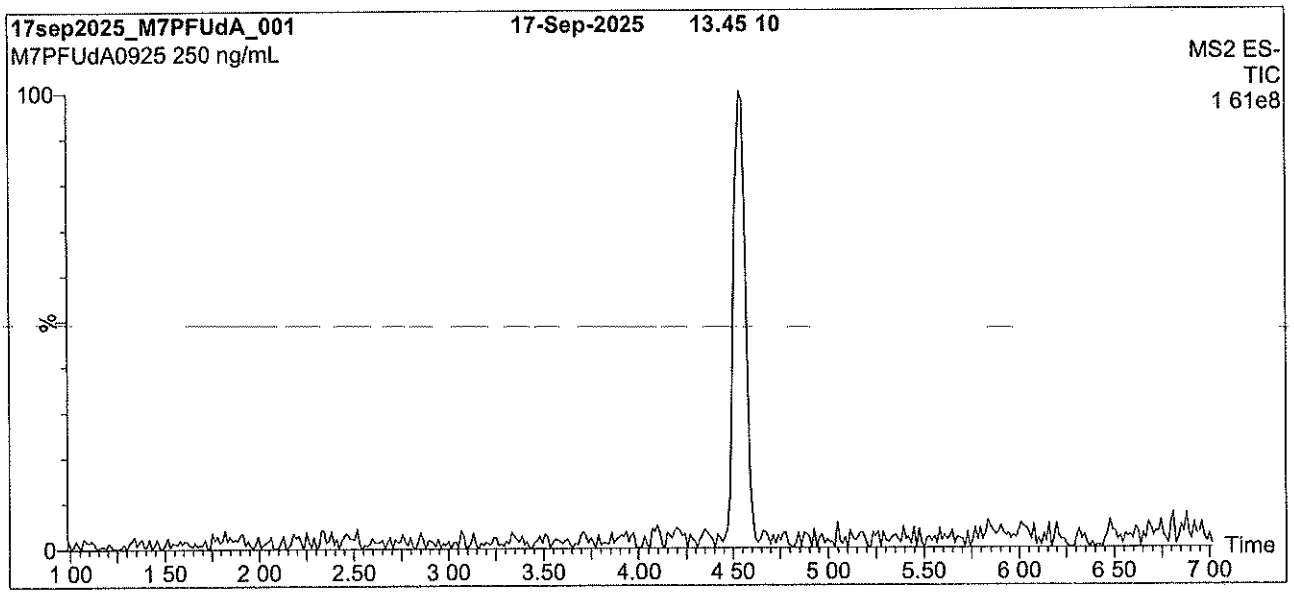
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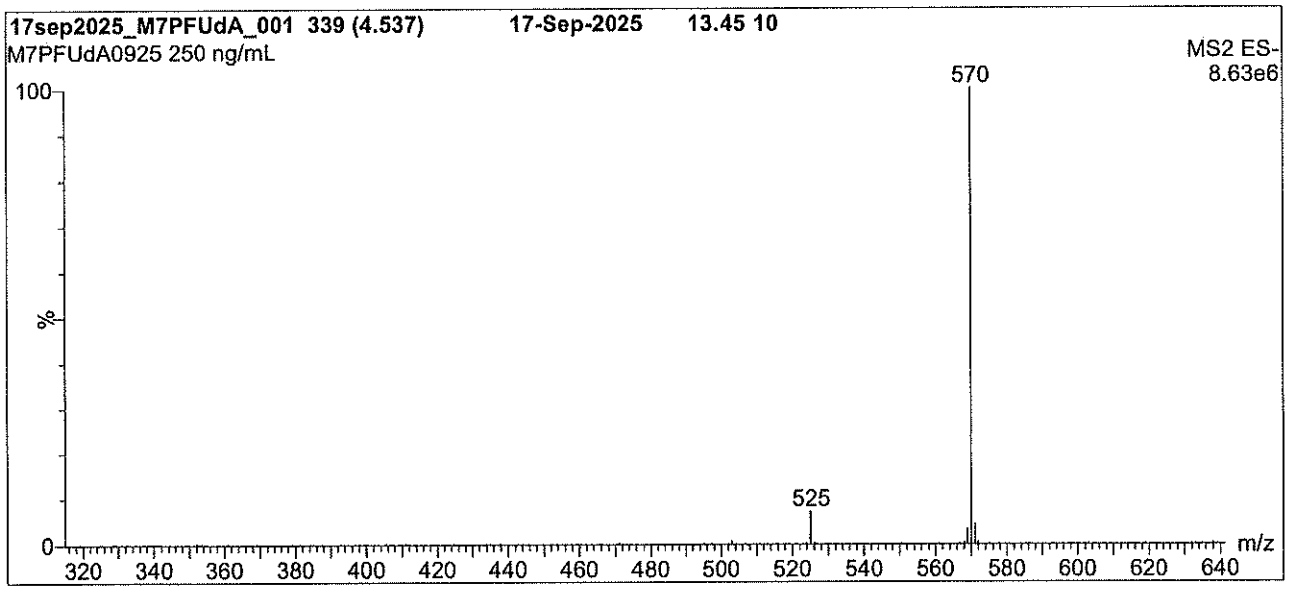
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M7PFUdA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18} 1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

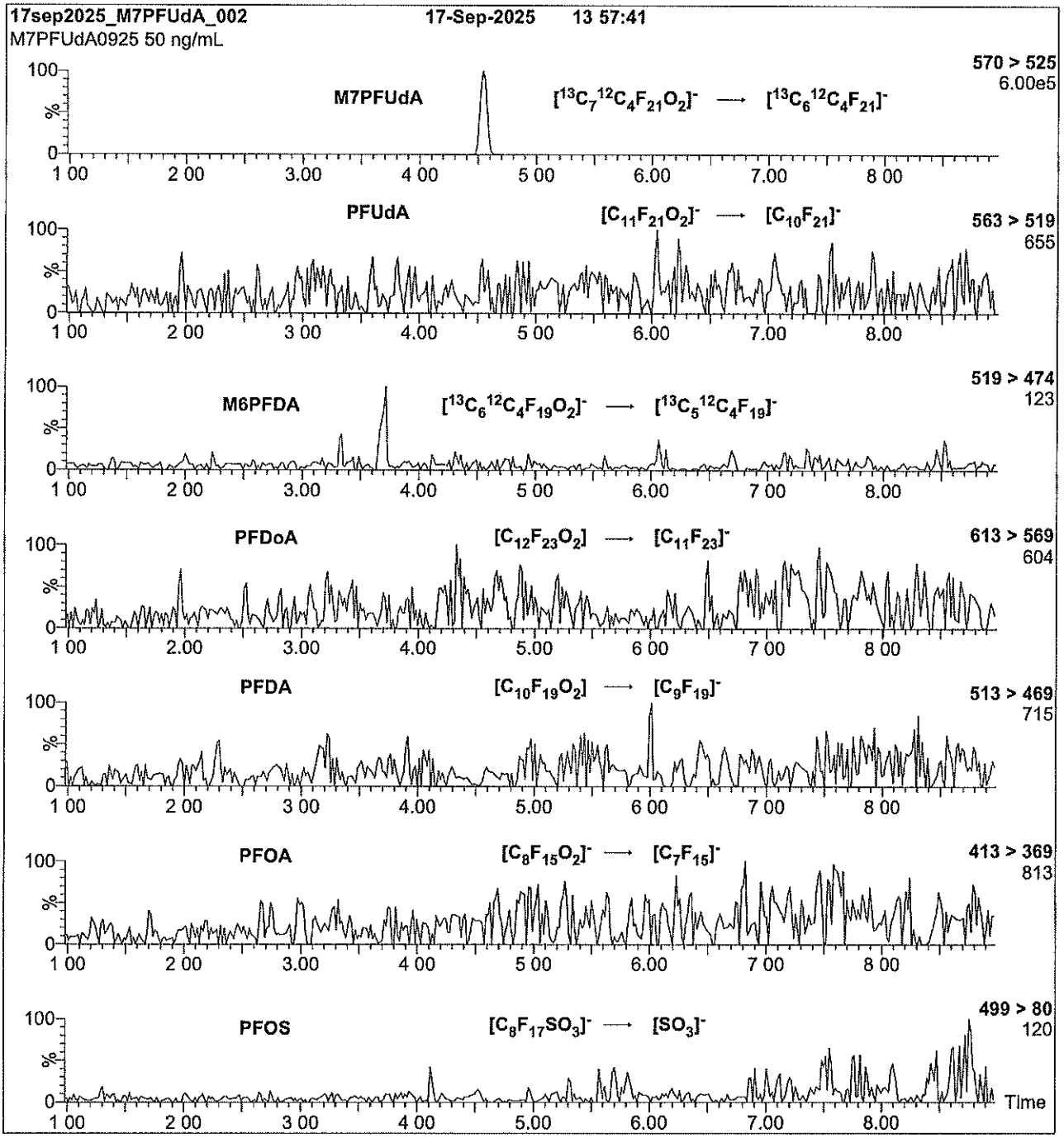
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M7PFUdA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection:	On-column (M7PFUdA)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 12 (570 > 525)

Reagent

PFC_ST_05335

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

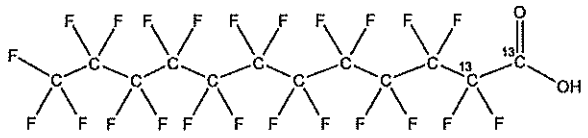
5333, 5334, 5335, 5336

PRODUCT CODE. MPFDoA
COMPOUND. Perfluoro-n-(1,2-$^{13}C_2$)dodecanoic acid

LOT NUMBER. MPFDoA0525

STRUCTURE.

CAS #: 960315-52-0



410-87988-35

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_{10}HF_{23}O_2$	**MOLECULAR WEIGHT:**	616 08
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	05/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	05/28/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By B.G. Chittim General Manager **Date** 05/30/2025 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc are for laboratory use only This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible They are then characterized and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation.

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is.

$$u_c(y(x_1, x_2 \quad x\ )) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

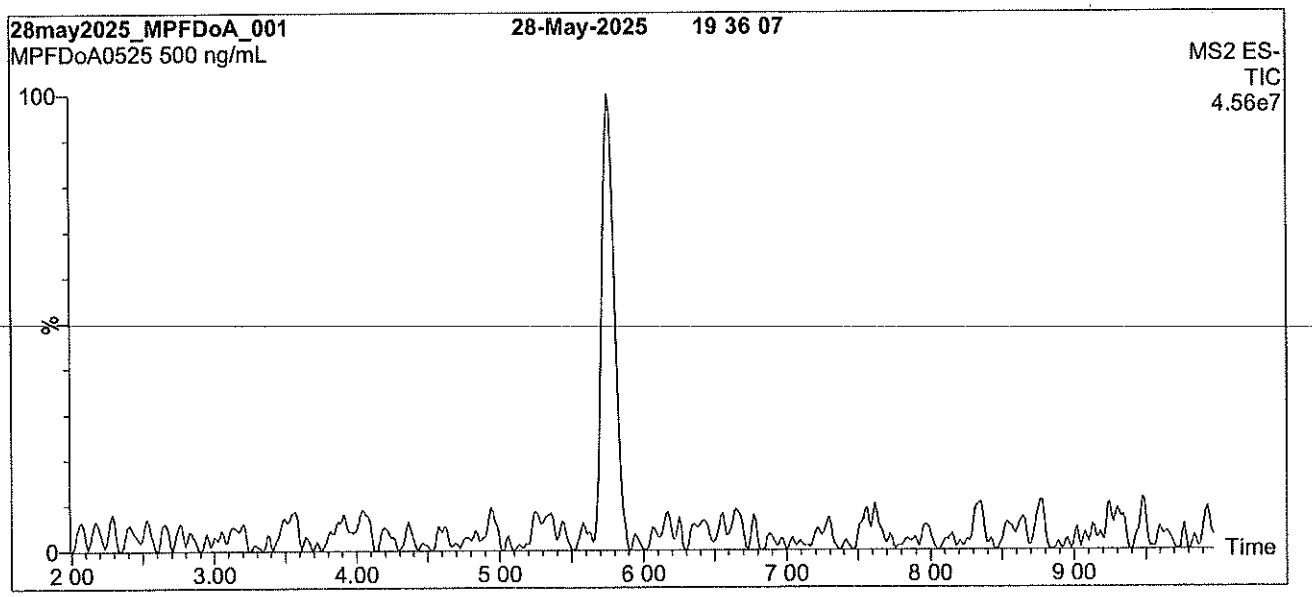
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB, AR-1523).

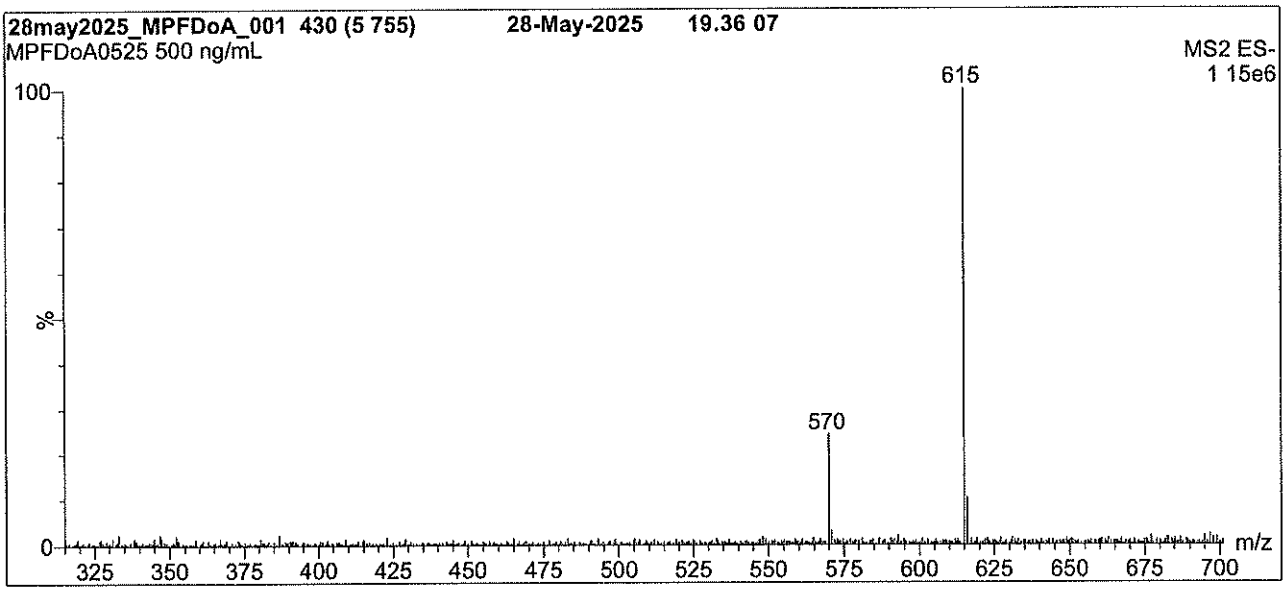
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFDoA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2 1 x 100 mm

Mobile phase. Gradient
Start: 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time. 12 min

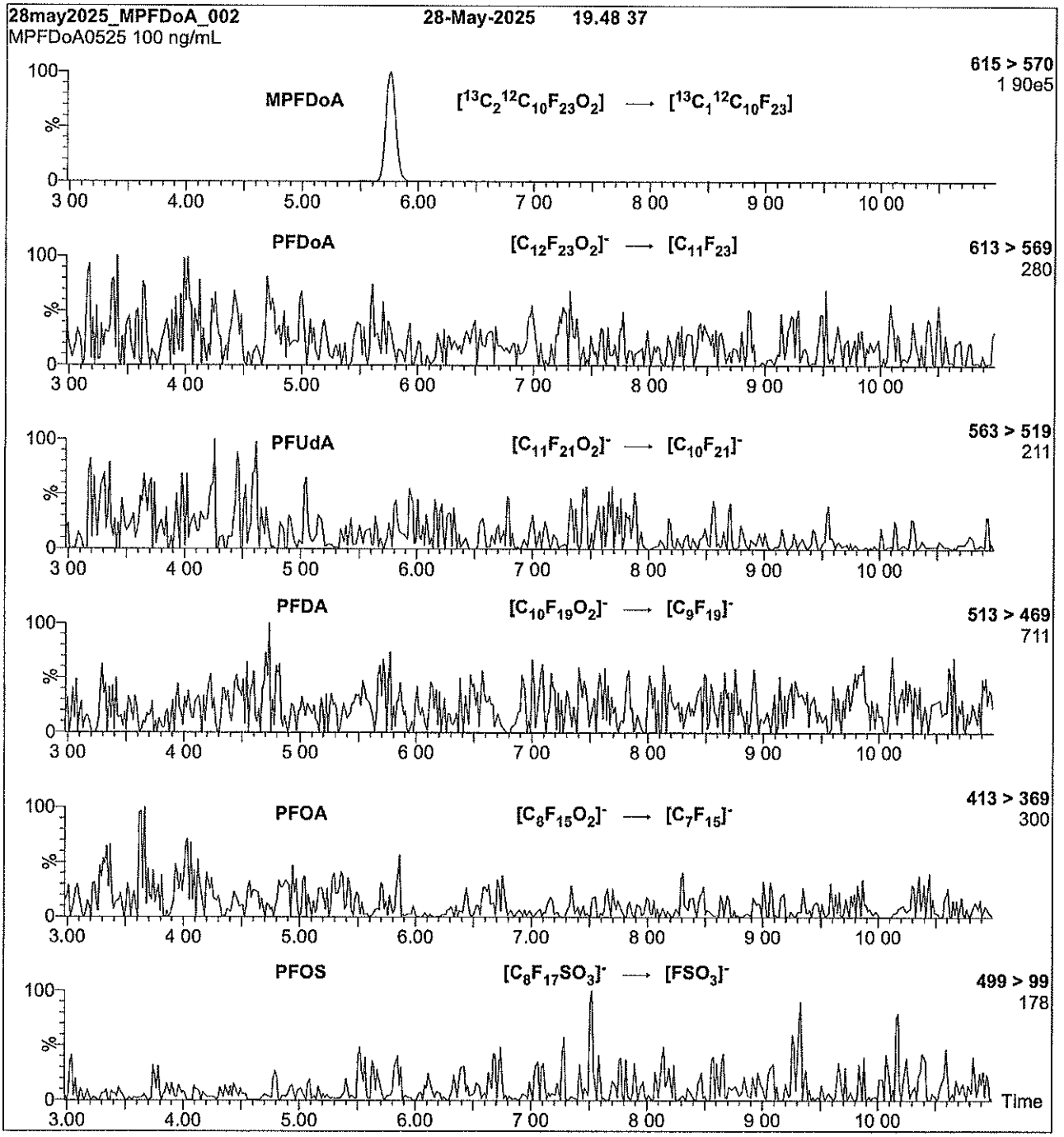
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFDoA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (MPFDoA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.46e-3
Collision Energy (eV) = 12

Reagent

PFC_ST_05339

WELLINGTON LABORATORIES

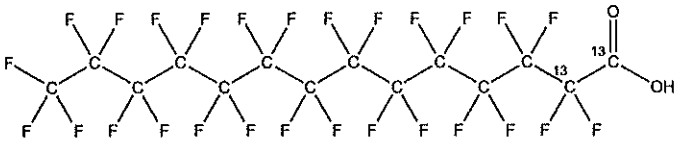
CERTIFICATE OF ANALYSIS
DOCUMENTATION

5337, 5338, 5339, 5340

PRODUCT CODE.	M2PFTeDA	**LOT NUMBER.**	M2PFTeDA0525
COMPOUND.	Perfluoro-n-(1,2-$^{13}C_2$)tetradecanoic acid		

STRUCTURE.

CAS #: 2708218-82-8





410-879934

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_{12}HF_{27}O_2$	**MOLECULAR WEIGHT:**	716 10
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	06/05/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/05/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By· _____ **Date** 06/06/2025 (mm/dd/yyyy)

B G. Chittim General Manager

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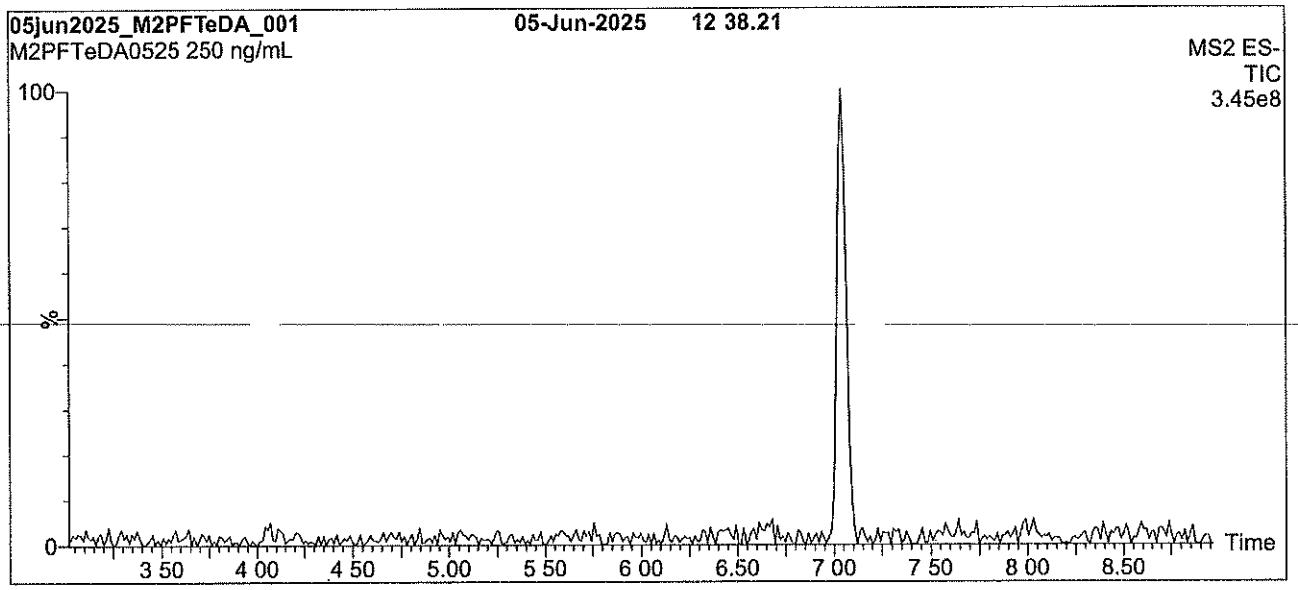
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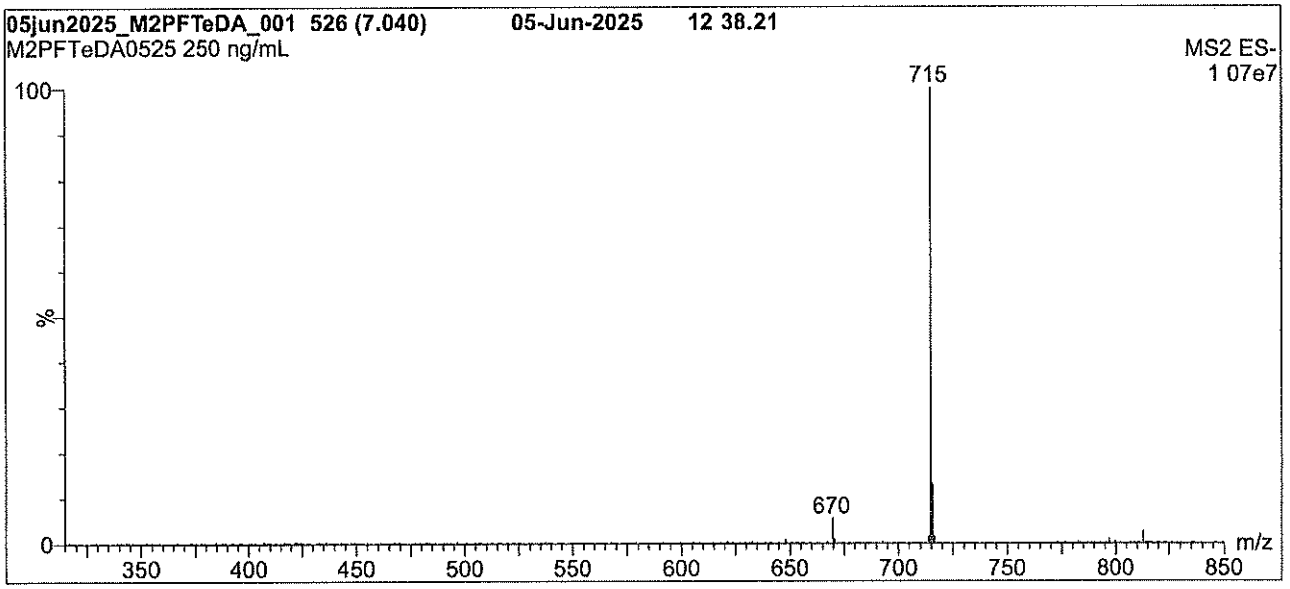
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **M2PFTeDA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

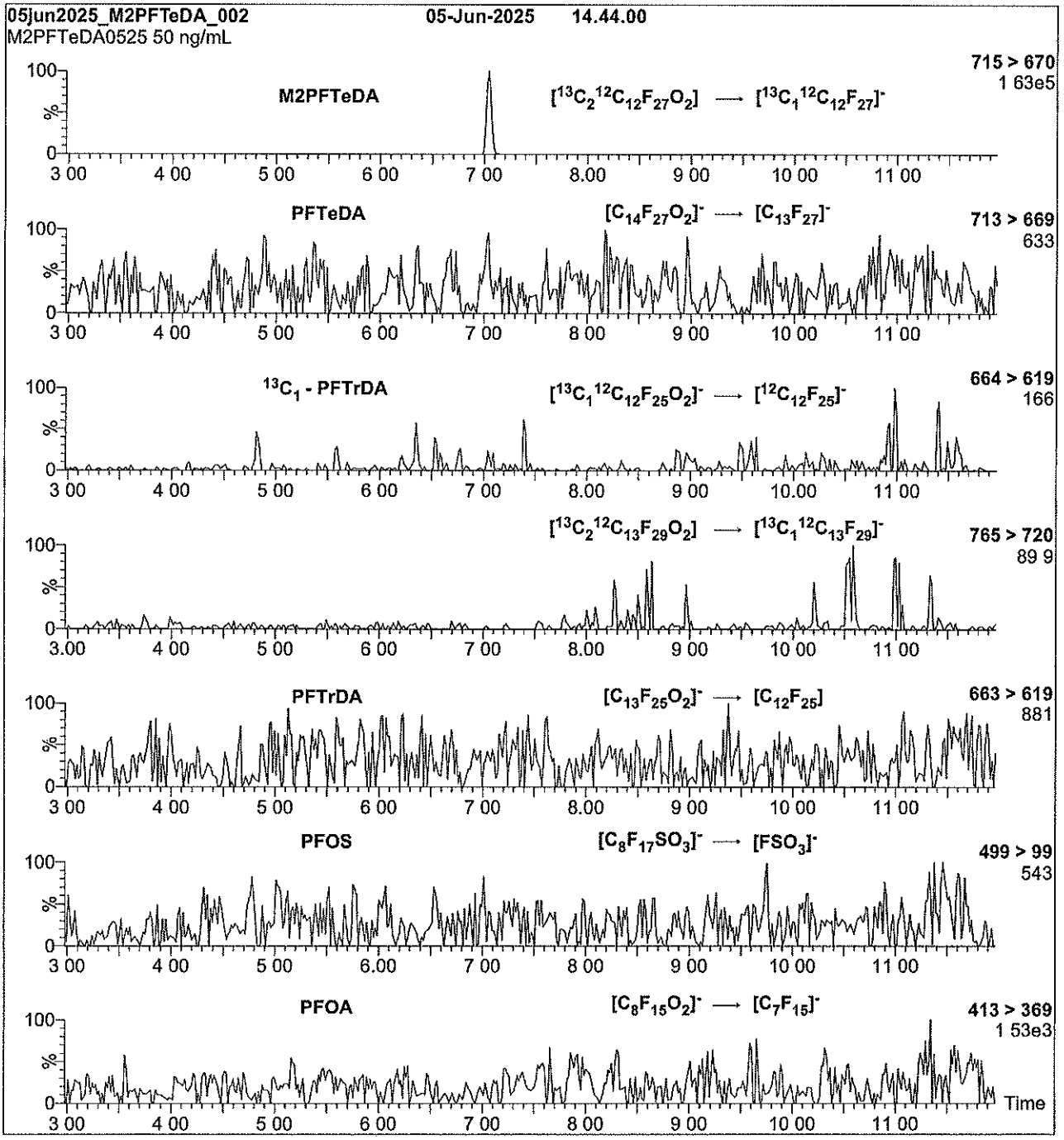
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (315 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2PFTeDA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M2PFTeDA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.76e-3
Collision Energy (eV) = 14

Reagent

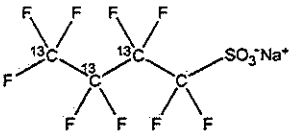
PFC_ST_05349

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ 5349, 5350, 5351

PRODUCT CODE.	M3PFBS	**LOT NUMBER.**	M3PFBS0825
COMPOUND:	Sodium perfluoro-1-(2,3,4-$^{13}C_3$)butanesulfonate		
STRUCTURE.		**CAS #:**	2708218-84-0



410-88004

MOLECULAR FORMULA:	$^{13}C_3{}^{12}CF_8SO_3Na$	**MOLECULAR WEIGHT:**	325 06
CONCENTRATION.	50 0 ± 2.5 µg/mL (Na salt)	**SOLVENT(S):**	Methanol
	46.6 ± 2.3 µg/mL (M3PFBS acid)		
	46.5 ± 2.3 µg/mL (M3PFBS anion)		
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	08/21/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/21/2030		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· _____ **Date.** 09/03/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

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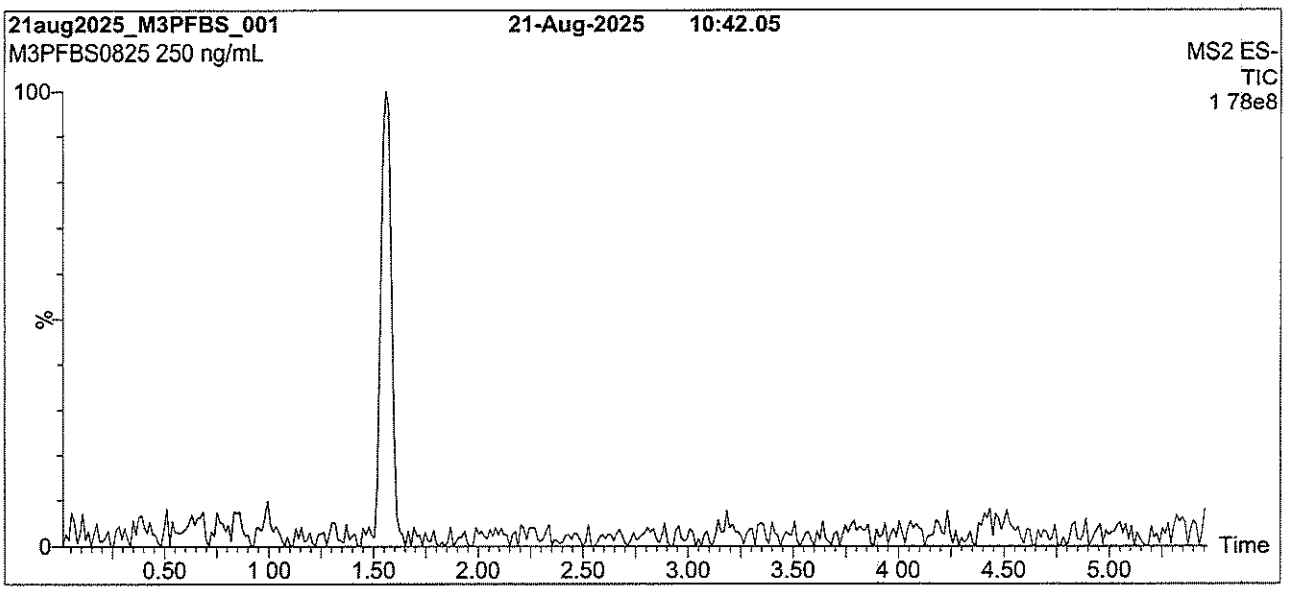
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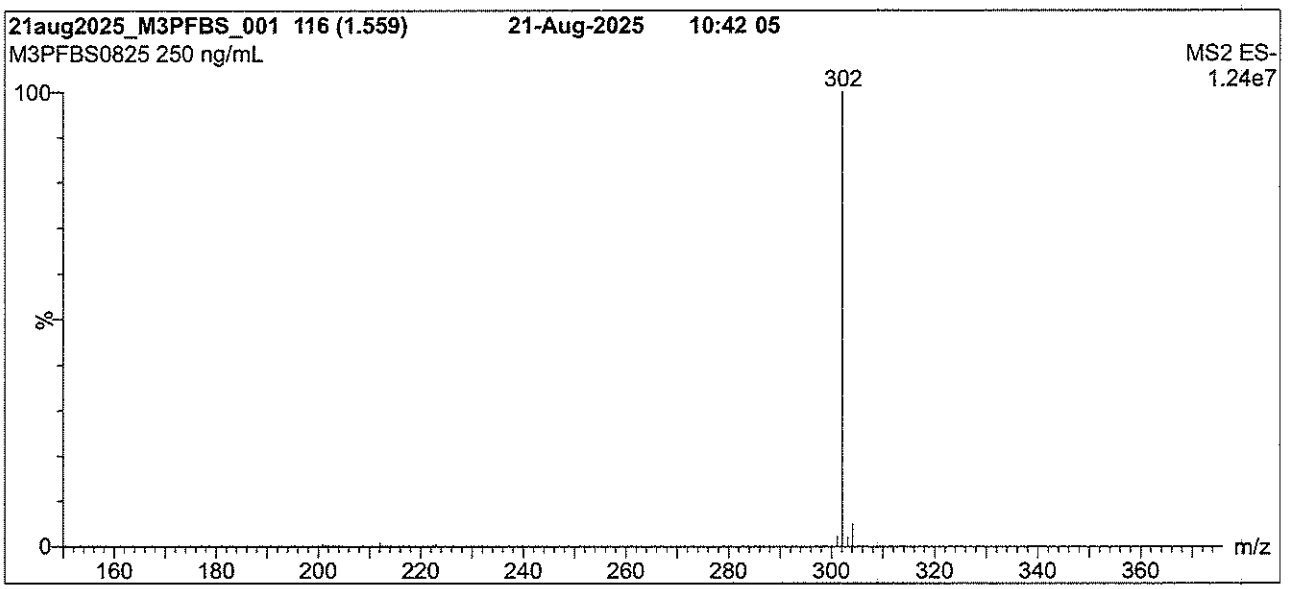
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Figure 1. **M3PFBS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0.5 min.
Time: 12 min

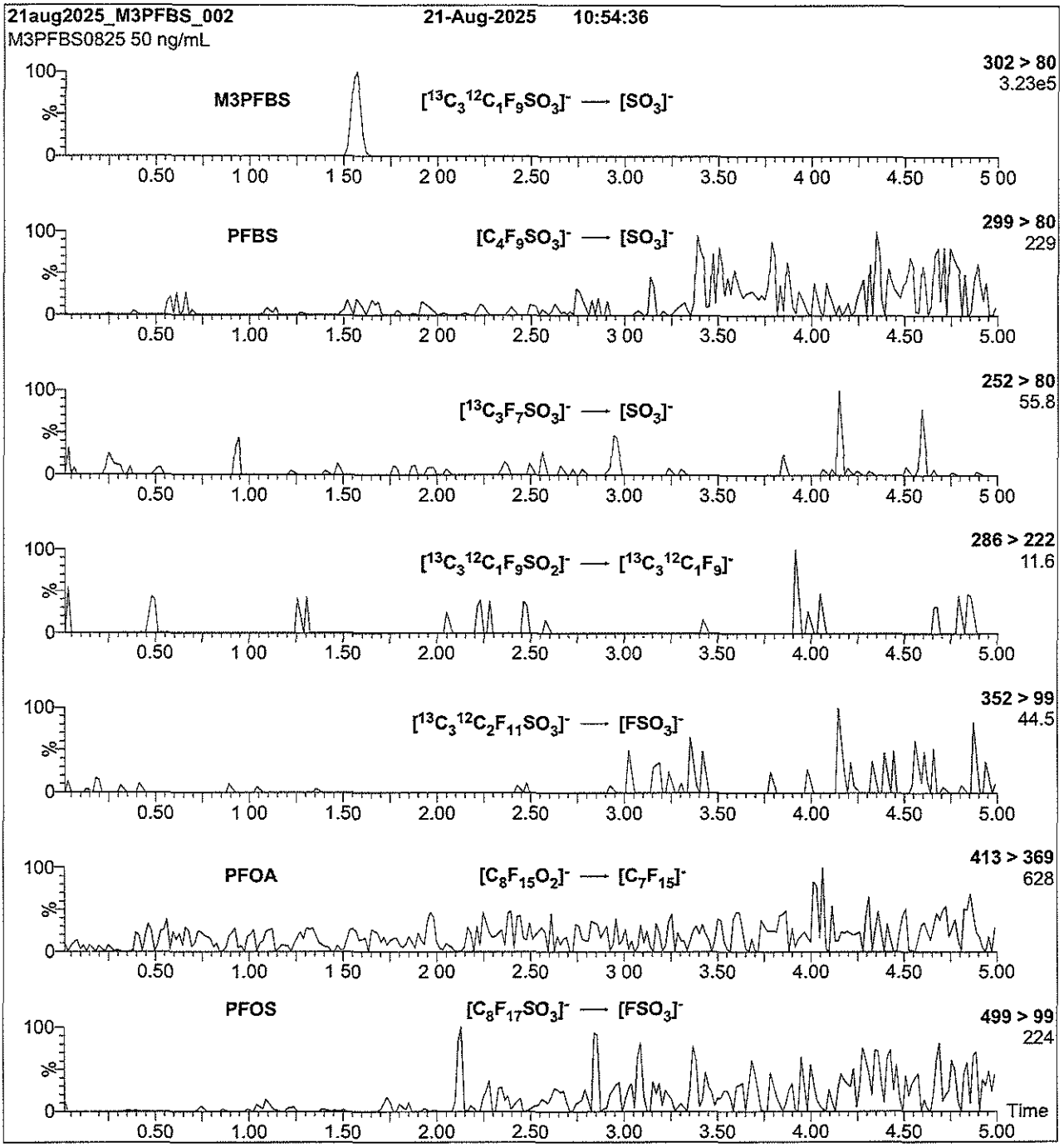
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (150 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3PFBS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection: On-column (M3PFBS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 30 (302 > 80)

Reagent

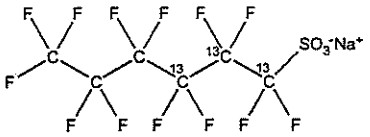
PFC_ST_05354

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST– 5354, 5355, 5356, 5357

PRODUCT CODE.	M3PFHxS	**LOT NUMBER.**	M3PFHxS1025
COMPOUND.	Sodium perfluoro-1-(1,2,3-$^{13}C_3$)hexanesulfonate		
STRUCTURE.		**CAS #:**	2708218-86-2



410-8800474

MOLECULAR FORMULA.	$^{13}C_3{}^{12}C_3F_{13}SO_3Na$	**MOLECULAR WEIGHT:**	425.07
CONCENTRATION.	50.0 ± 2.5 µg/mL (Na salt)	**SOLVENT(S).**	Methanol
	47.4 ± 2.4 µg/mL (M3PFHxS acid)		
	47.3 ± 2.4 µg/mL (M3PFHxS anion)		
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	10/16/2025		
EXPIRY DATE. (mm/dd/yyyy)	10/16/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains ~0.6% sodium perfluoro(1,2-$^{13}C_2$)pentanesulfonate ($^{13}C_2$-PFPeS) and ~0.3% perfluoro-n-(1,2,3-$^{13}C_3$)hexanoic acid ($^{13}C_3$-PFHxA)

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Certified By: B.G. Chittim General Manager **Date** 10/17/2025 (mm/dd/yyyy)

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where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

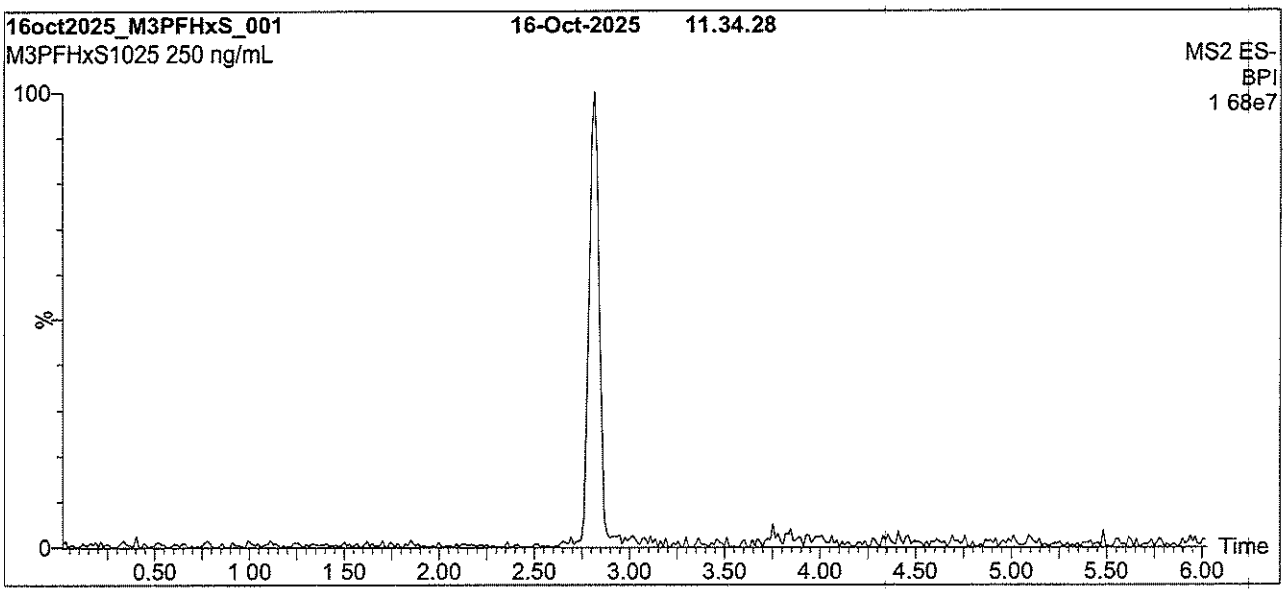
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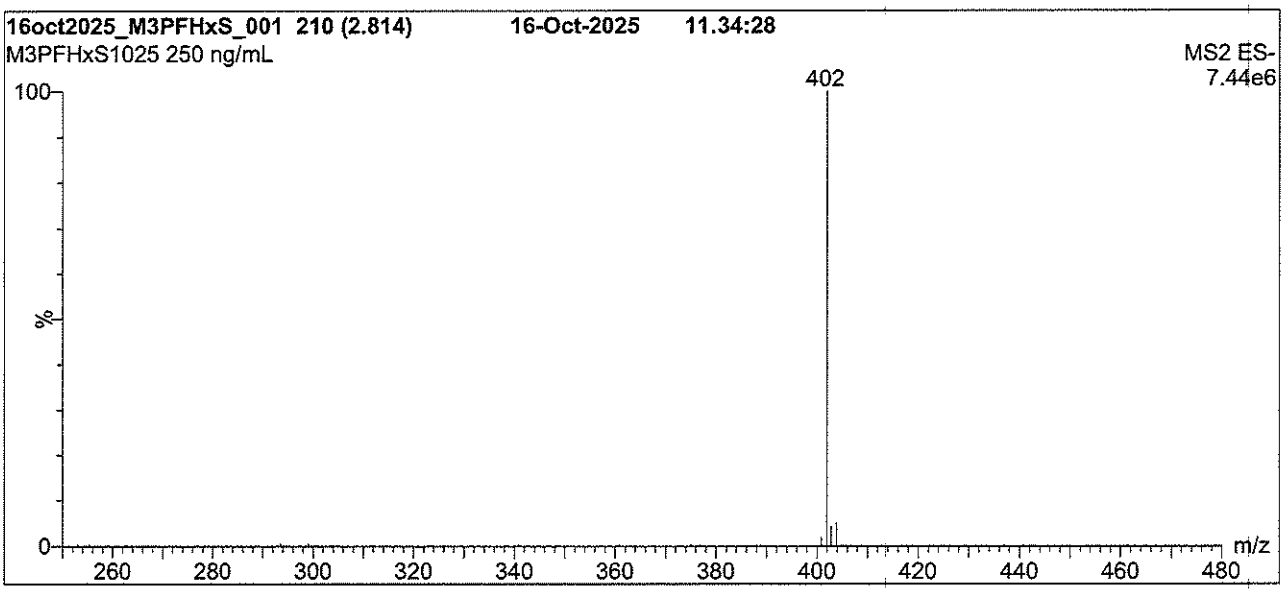
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **M3PFHxS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

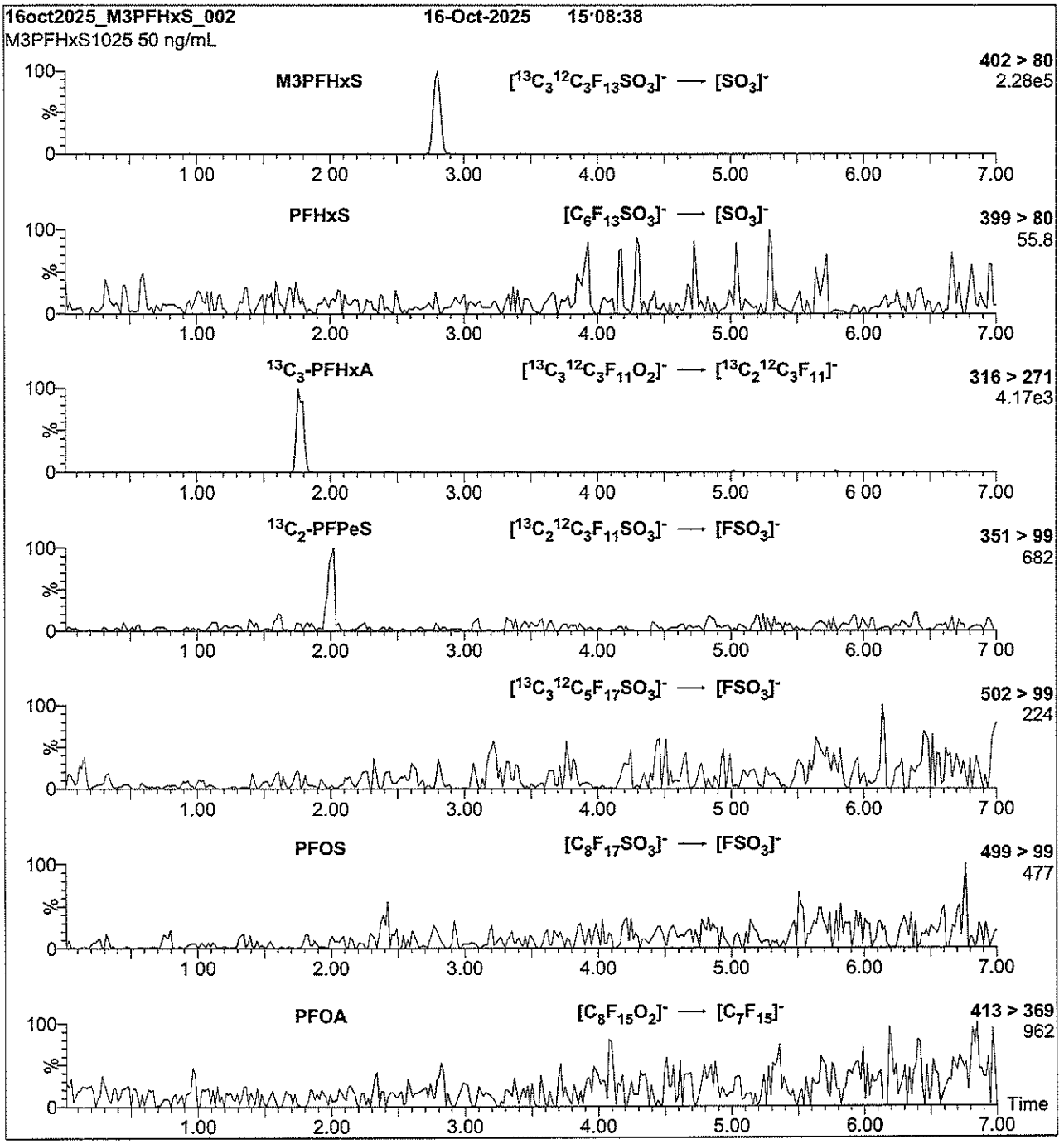
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3PFHxS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection:	On-column (M3PFHxS)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.49e-3
Collision Energy (eV) = 42 (402 > 80)

Reagent

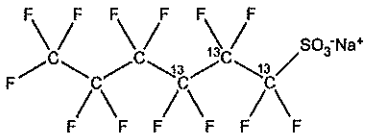
PFC_ST_05356

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST– 5354, 5355, 5356, 5357

PRODUCT CODE.	M3PFHxS	**LOT NUMBER.**	M3PFHxS1025
COMPOUND.	Sodium perfluoro-1-(1,2 3-$^{13}C_3$)hexanesulfonate		
STRUCTURE.		**CAS #.**	2708218-86-2



410-8800476

MOLECULAR FORMULA.	$^{13}C_3{}^{12}C_3F_{13}SO_3Na$	**MOLECULAR WEIGHT:**	425.07
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 47.4 ± 2.4 µg/mL (M3PFHxS acid) 47 3 ± 2.4 µg/mL (M3PFHxS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	10/16/2025		
EXPIRY DATE. (mm/dd/yyyy)	10/16/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains ~0.6% sodium perfluoro(1 2-$^{13}C_2$)pentanesulfonate ($^{13}C_2$-PFPeS) and ~0 3% perfluoro-n-(1 2 3-$^{13}C_3$)hexanoic acid ($^{13}C_3$-PFHxA)

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Certified By _____ **Date** 10/17/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs com

INTENDED USE.

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HANDLING.

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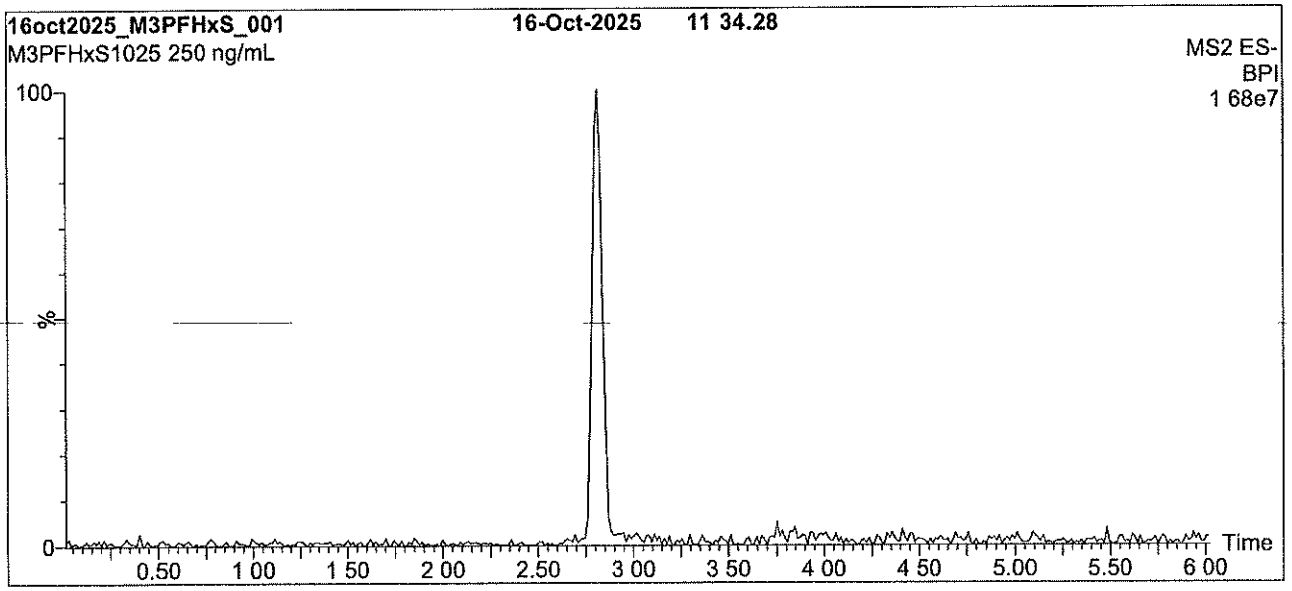
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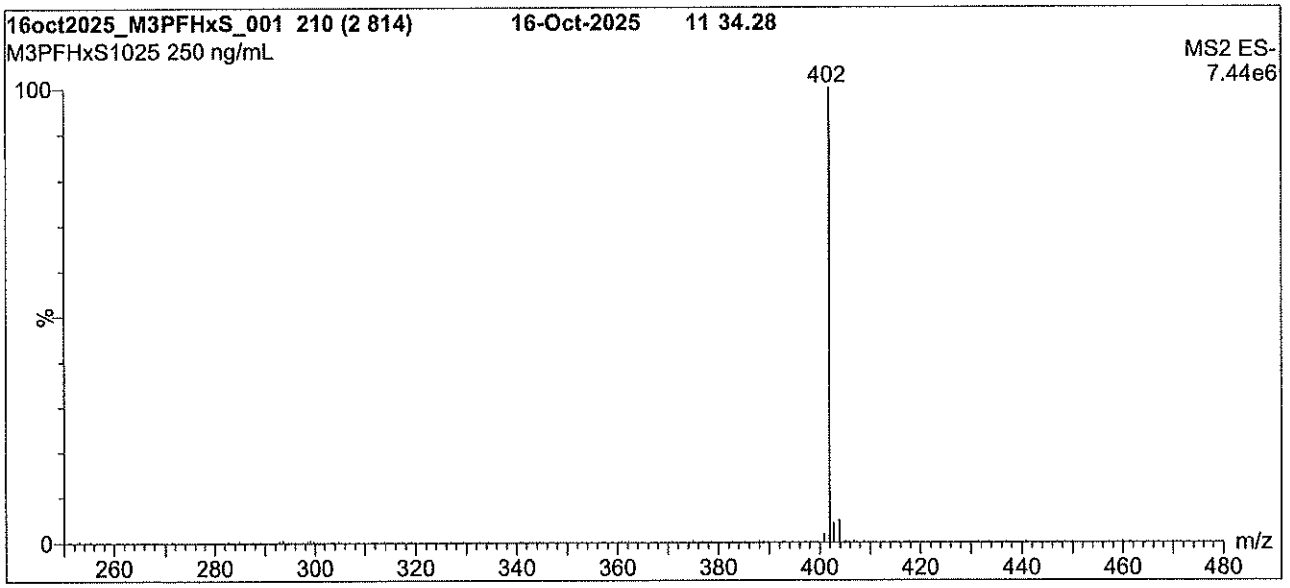
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M3PFHxS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2 1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

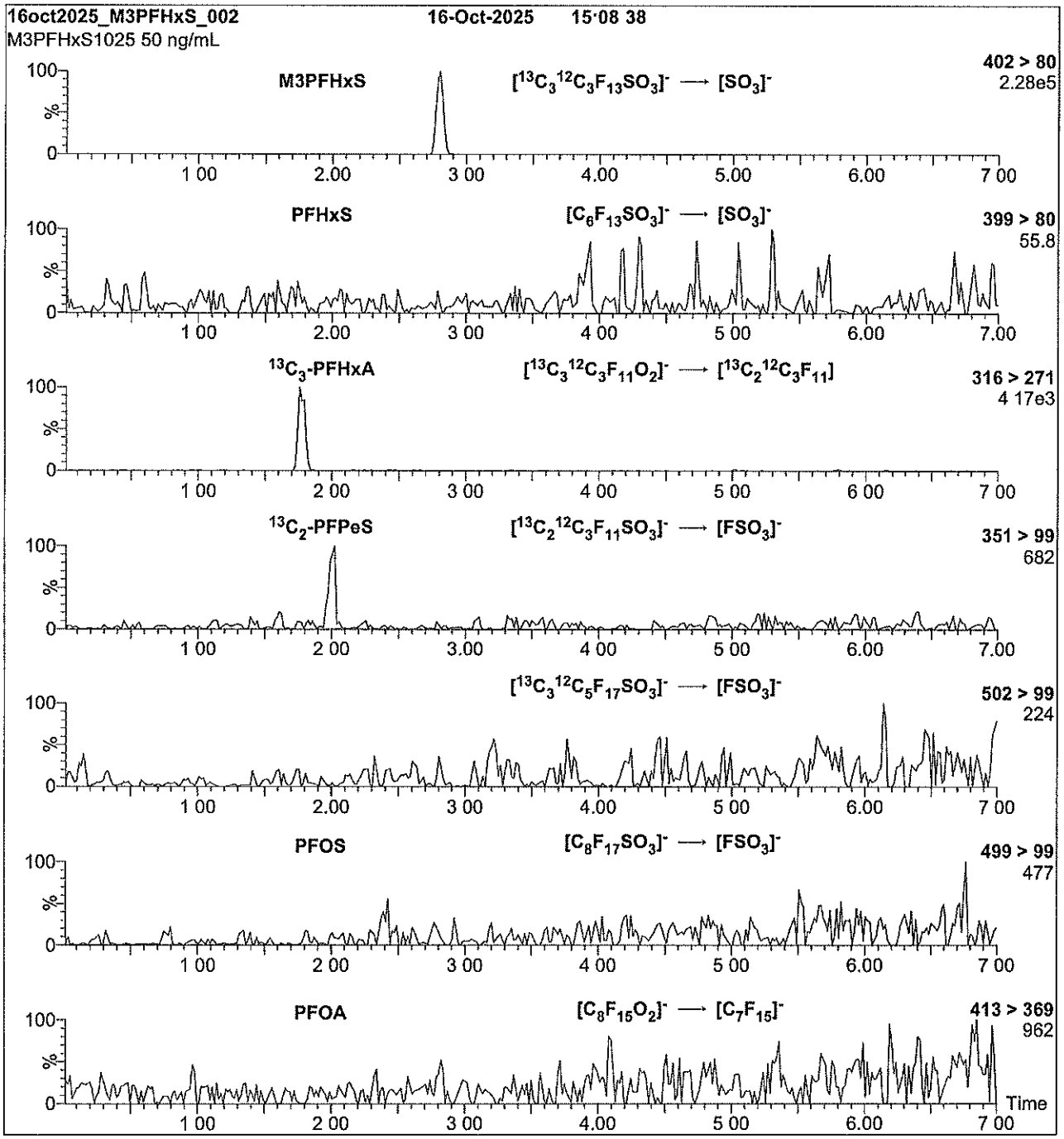
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3PFHxS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection:	On-column (M3PFHxS)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.49e-3
Collision Energy (eV) = 42 (402 > 80)

Reagent

PFC_ST_05373

WELLINGTON LABORATORIES

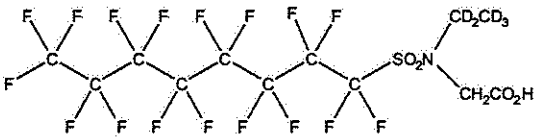
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ 5373, 5372, 5371, 5370, 5369

PRODUCT CODE. d5-N-EtFOSAA **LOT NUMBER.** d5NEtFOSAA0525

COMPOUND. N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid

STRUCTURE. **CAS #:** 1265205-97-7



410-8800609

MOLECULAR FORMULA:	$C_{12}D_5H_3F_{17}NO_4S$	**MOLECULAR WEIGHT:**	590.26
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	06/05/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/05/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester

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Certified By: _____ **Date:** 06/09/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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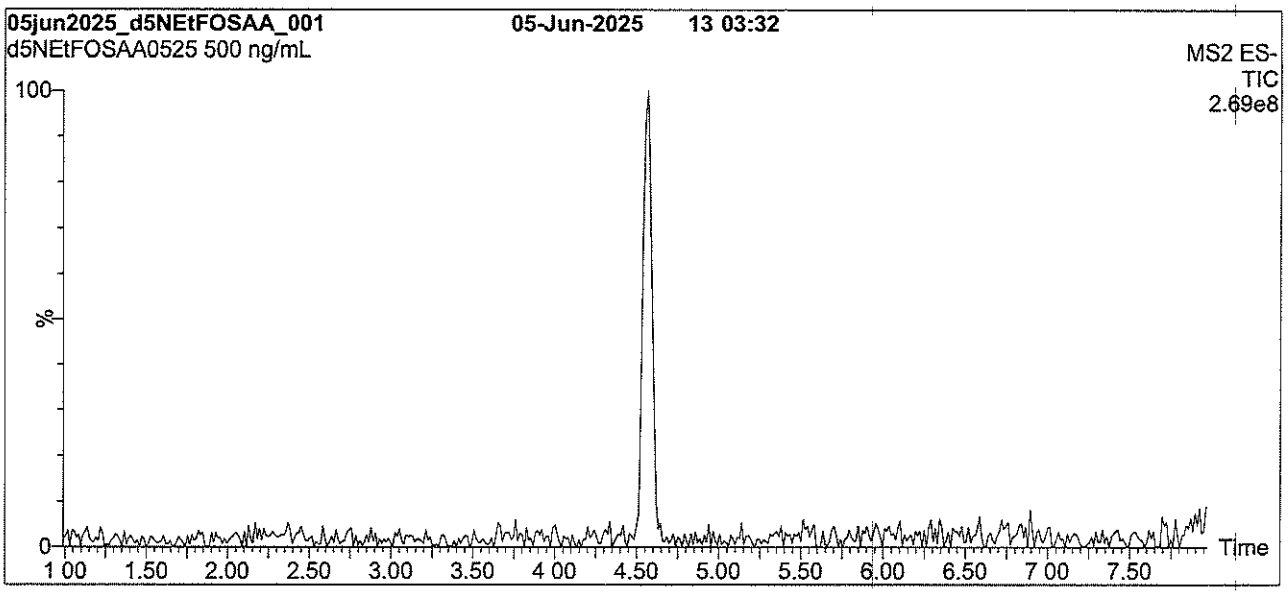
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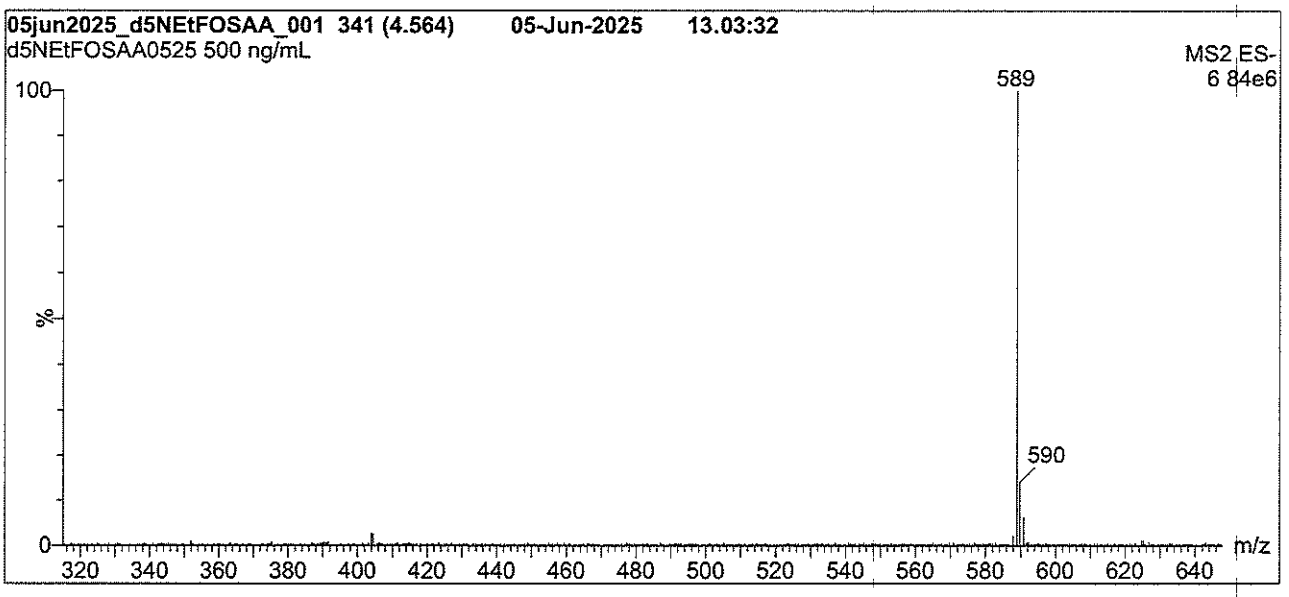
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **d5-N-EtFOSAA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

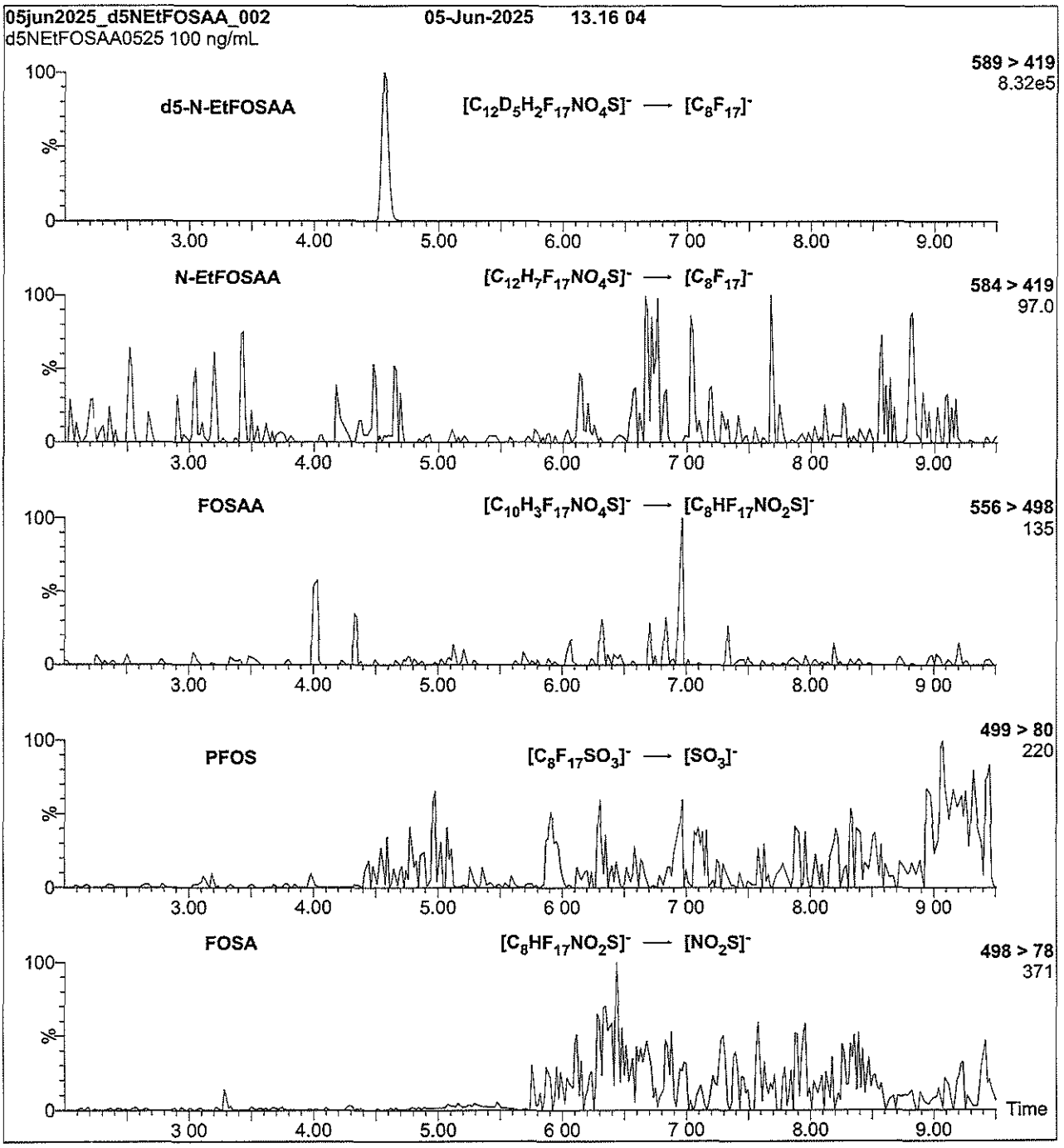
Flow· 300 µL/min

MS Parameters:

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **d5-N-EtFOSAA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection:	On-column (d5-N-EtFOSAA)	**MS Parameters:**	
Mobile phase:	Same as Figure 1	Collision Gas (mbar) = 3.76e-3	
Flow:	300 µL/min	Collision Energy (eV) = 18	

Reagent

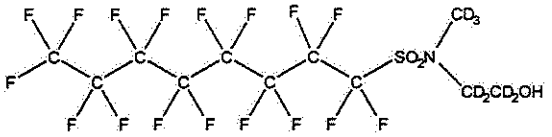
PFC_ST_05375

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ S377, S376, S375, S374

PRODUCT CODE.	d7-N-MeFOSE-M	**LOT NUMBER.**	d7NMeFOSE0925M
COMPOUND.	2-(N-Methyl-d3-perfluoro-1-octanesulfonamido)ethan-d4-ol		
STRUCTURE.		**CAS #:**	1265205-95-5





110-8800647

MOLECULAR FORMULA.	$C_{11}D_7HF_{17}NO_3S$	**MOLECULAR WEIGHT:**	564.27
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED. (mm/dd/yyyy)	09/30/2025 (HRGC/LRMS) 10/09/2025 (LC/MS)		
EXPIRY DATE. (mm/dd/yyyy)	10/09/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 HRGC/LRMS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS Data (Full Scan and Mass Spectrum)
Figure 3 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- In order to see the molecular ion (adduct free), the LC mobile phase should be free of ammonium acetate buffer
- Contains ~0.8% of a branched isomer of d7-N-MeFOSE by ^{19}F NMR.

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Certified By· _____ **Date** 10/16/2025
(mm/dd/yyyy)
B.G. Chittim, General Manager

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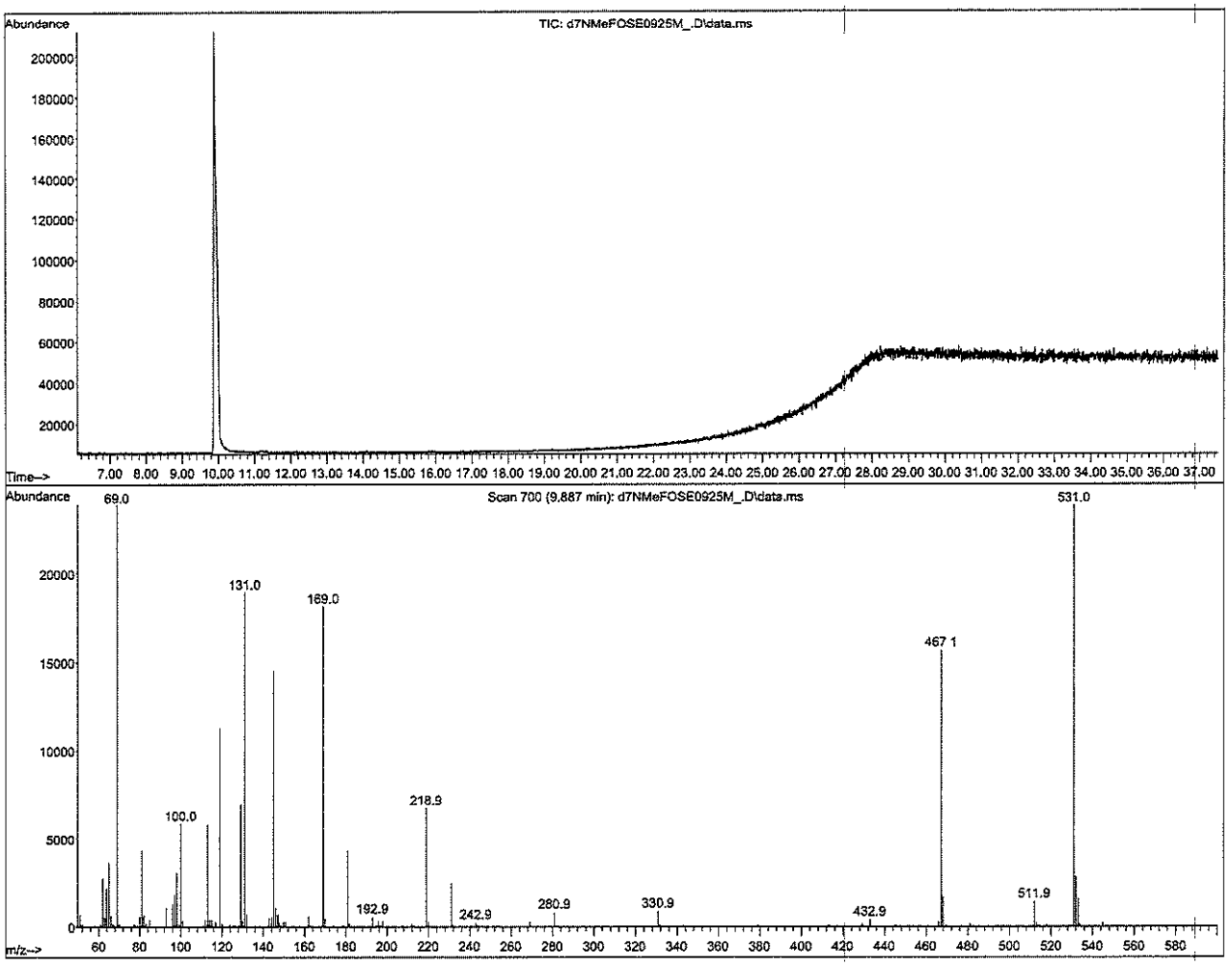
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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **d7-N-MeFOSE-M, HRGC/LRMS Data (Full Scan and Mass Spectrum)**



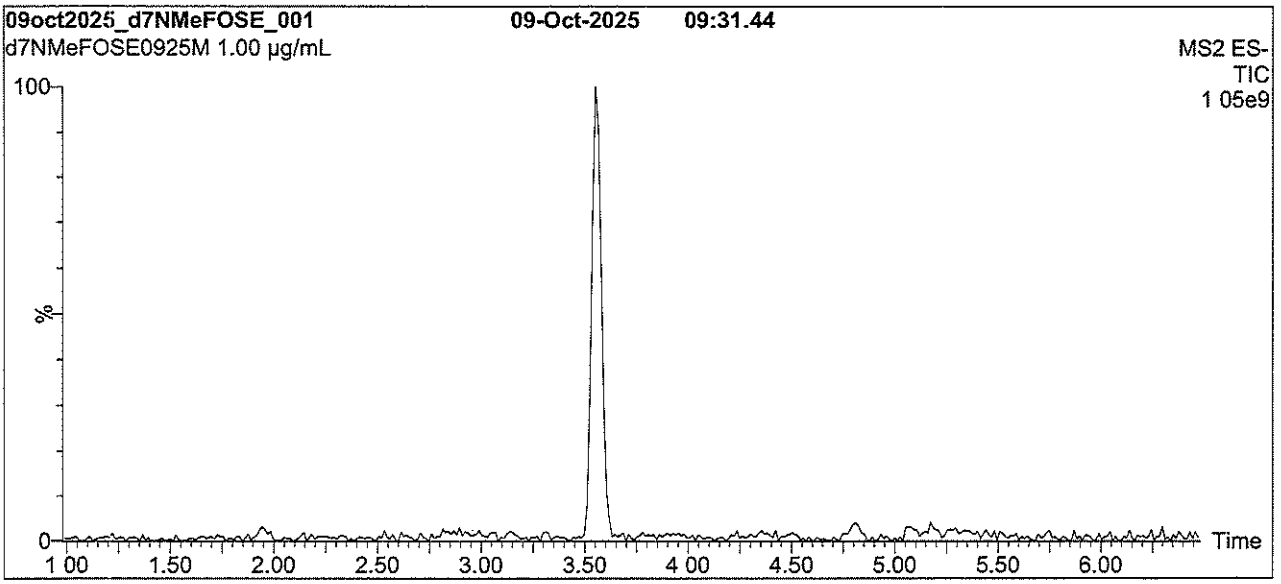
Conditions for Figure 1.

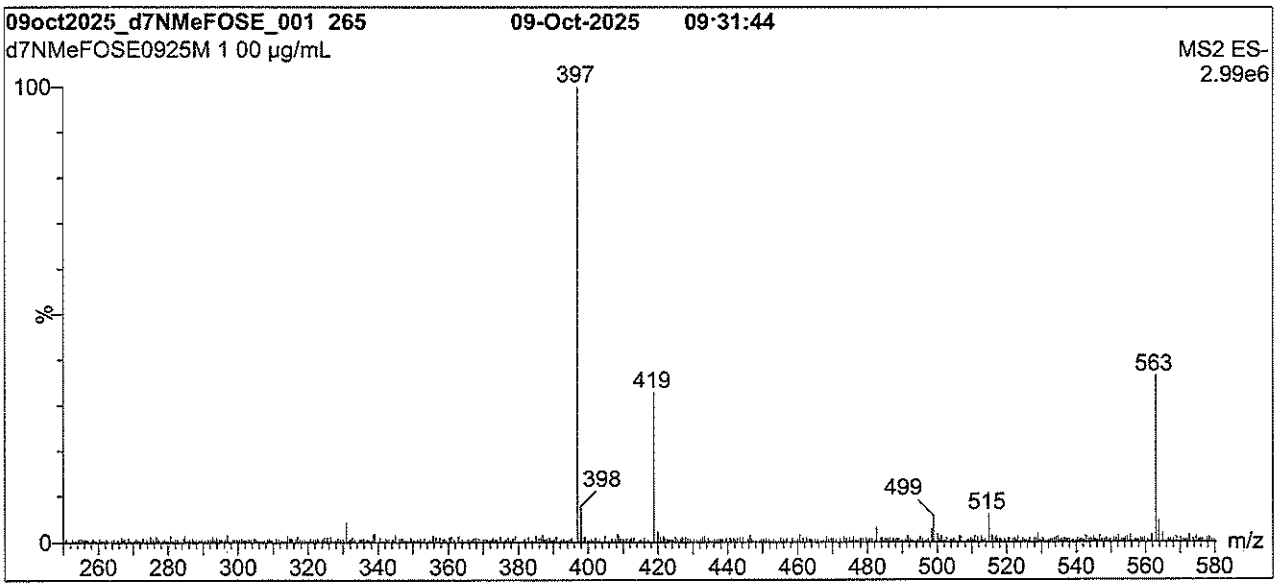
Agilent 7890A HRGC
Agilent 5975C MSD

Chromatographic Conditions.

Column:	30 m HP-5MS UI (0.25 mm id 0.25 µm film thickness) Agilent J&W
Flow:	Constant at 1 0 mL/min
Injector:	250°C (Splitless Injection)
Oven.	100°C (5 min)
	10°C/min to 325°C
	325°C (10 min)
Ionization.	EI+
Detector:	230°C
	Full Scan (50-1000 amu)

Figure 2. **d7-N-MeFOSE-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 2:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% (80:20 MeOH:ACN)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

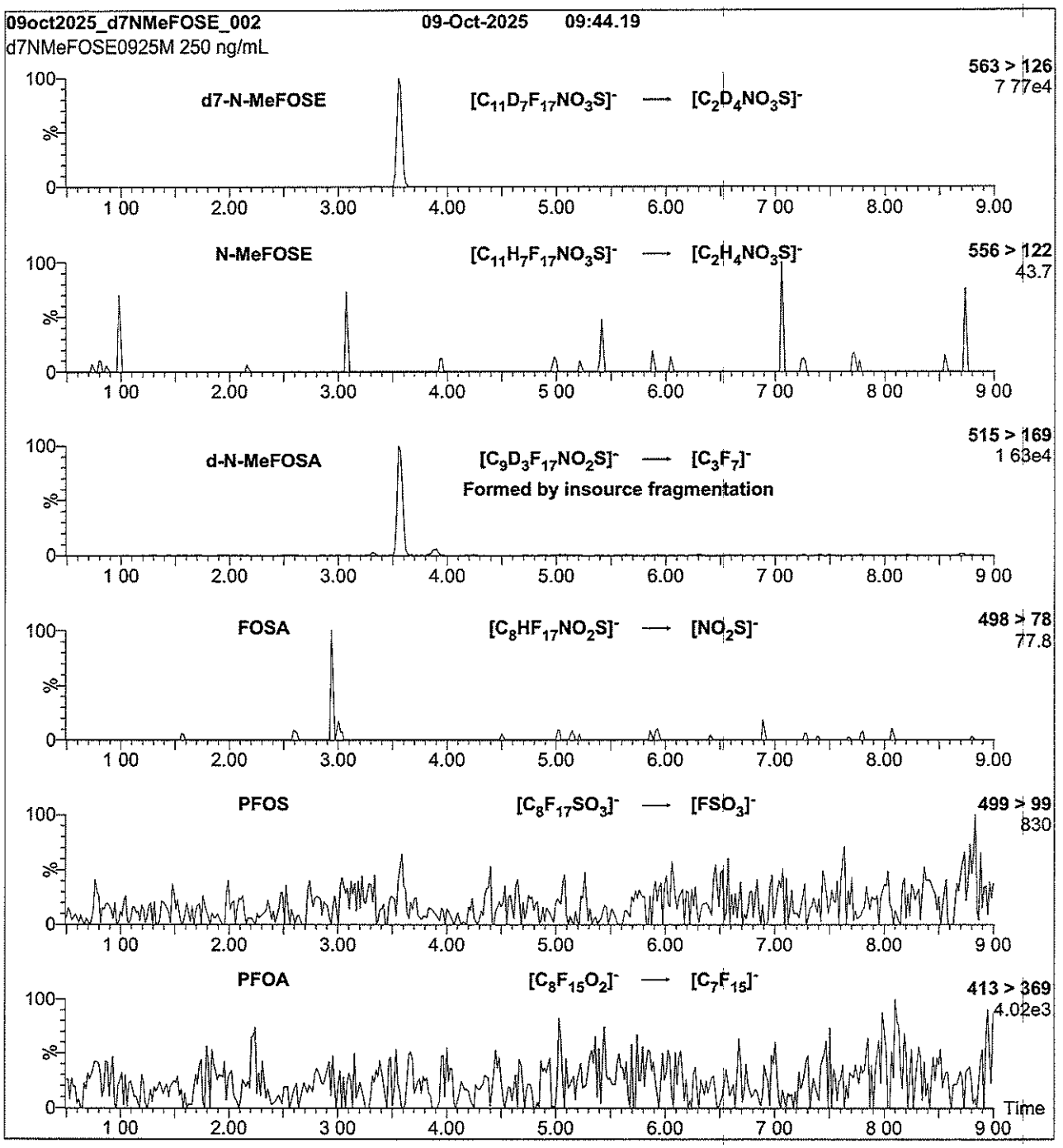
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 3. **d7-N-MeFOSE-M, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 3:

Injection: On-column (d7-N-MeFOSE-M)

Mobile phase: Same as Figure 2

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.89e-3
Collision Energy (eV) = 36 (563 > 126)

Reagent

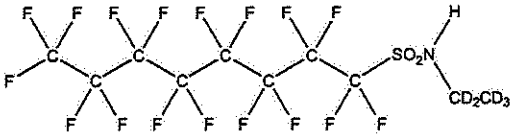
PFC_ST_05382

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_5382, 5383, 5384, 5385

PRODUCT CODE.	d-N-EtFOSA-M	**LOT NUMBER:**	dNEtFOSA1124M
COMPOUND:	N-Ethyl-d_5-perfluoro-1-octanesulfonamide		
STRUCTURE.		**CAS #:**	936109-40-9



410-8800660

MOLECULAR FORMULA:	$C_{10}D_5HF_{17}NO_2S$	**MOLECULAR WEIGHT:**	532.23
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED: (mm/dd/yyyy)	10/15/2024		
EXPIRY DATE: (mm/dd/yyyy)	10/15/2029		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date** 10/18/2024 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax. 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

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SYNTHESIS / CHARACTERIZATION.

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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s) and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation.

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

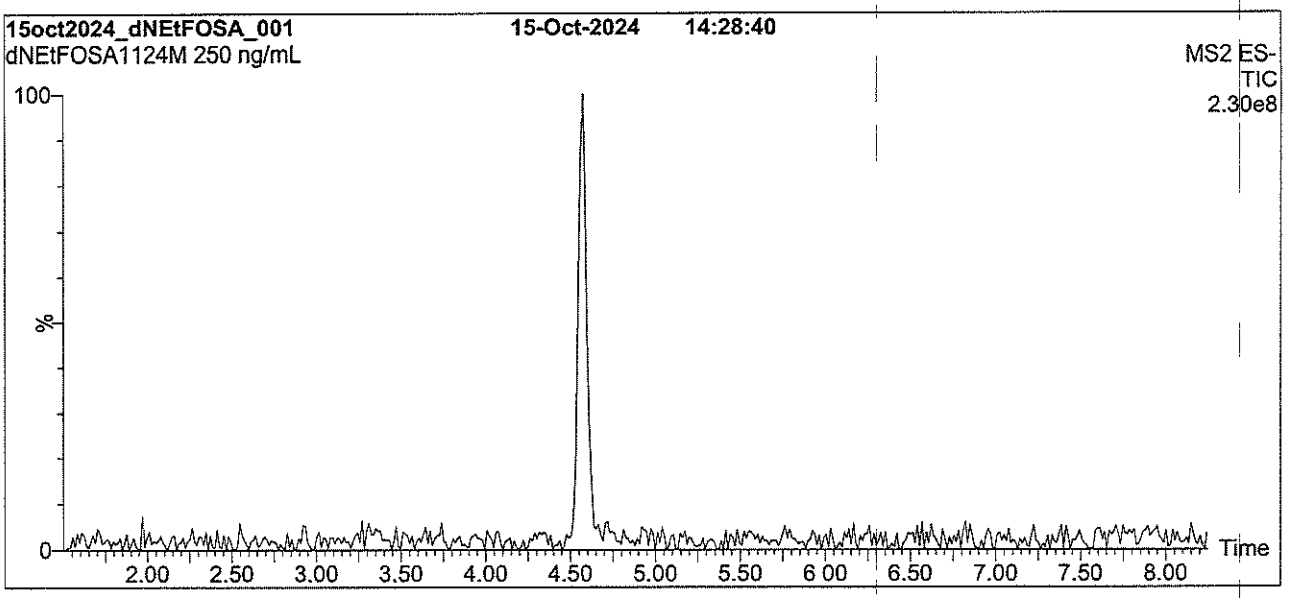
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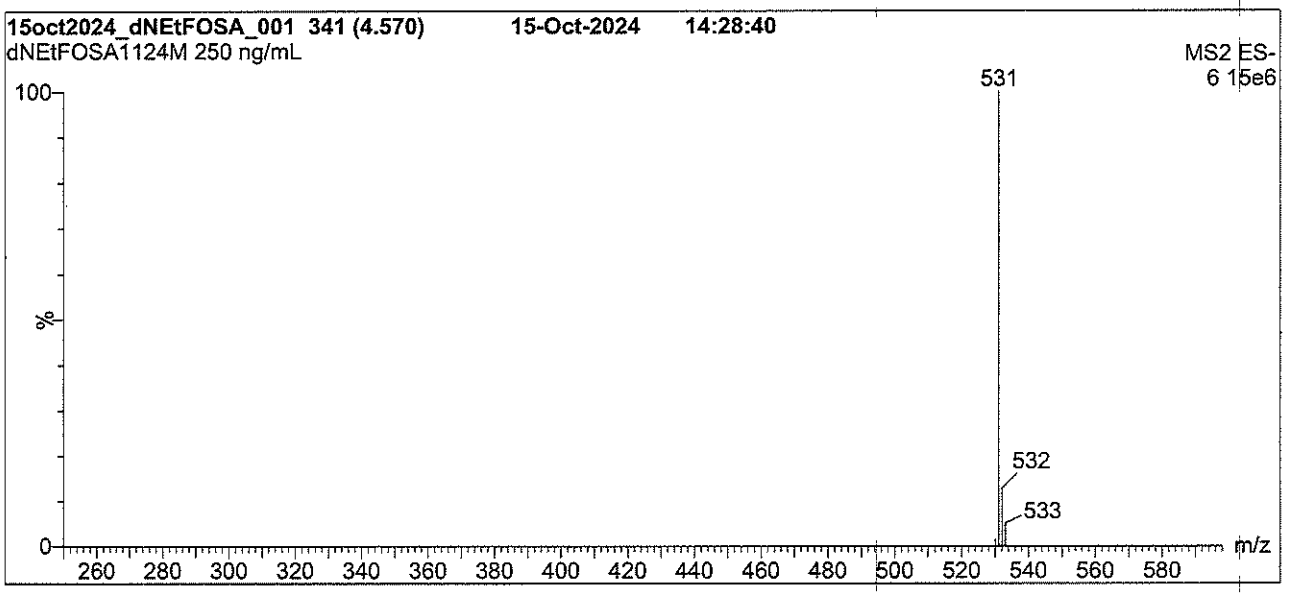
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **d-N-EtFOSA-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

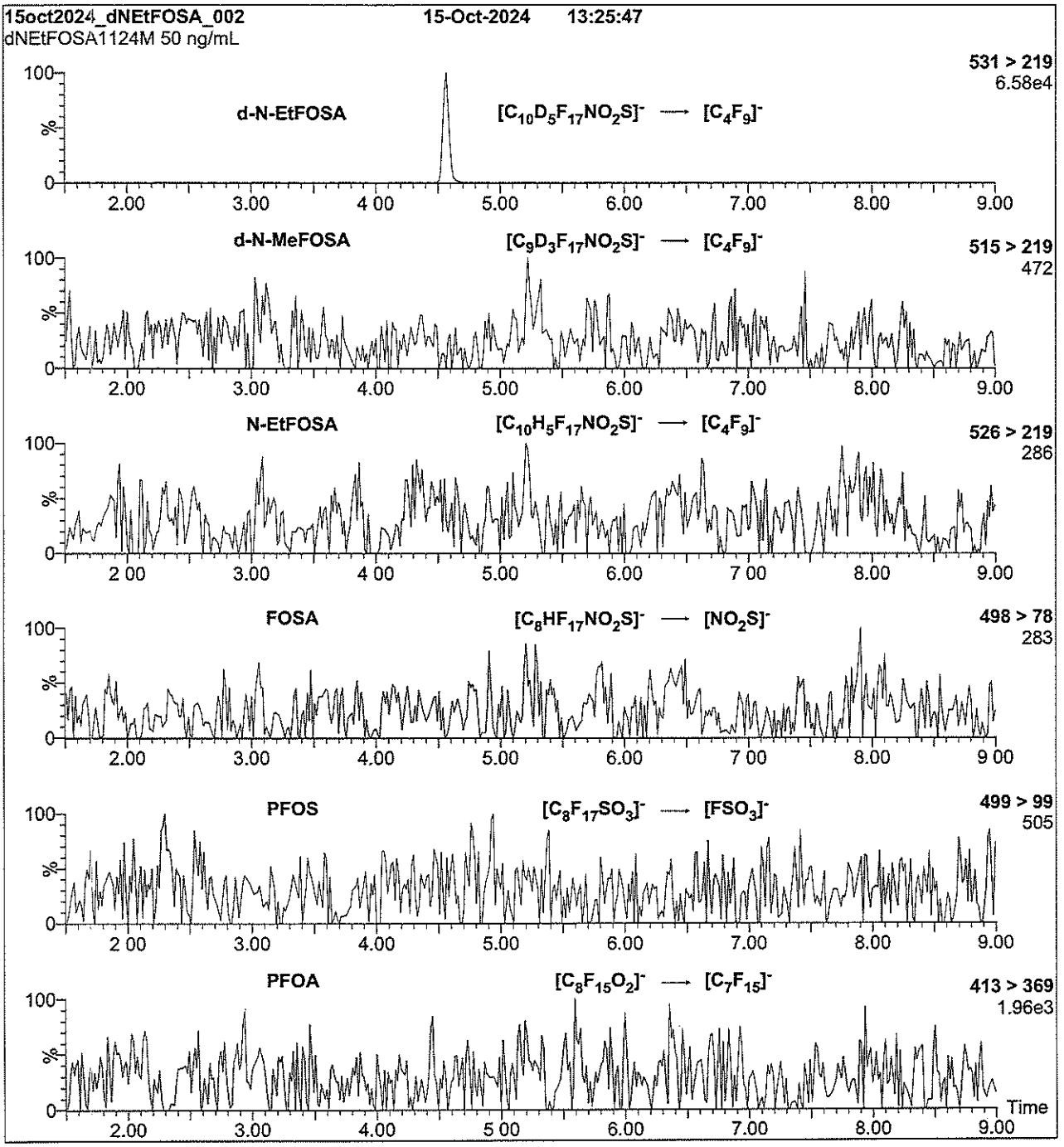
Flow· 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 1 00
Cone Voltage (V) = 44.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **d-N-EtFOSA-M, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (d-N-EtFOSA-M)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.24e-3
Collision Energy (eV) = 24

Reagent

PFC_ST_05386

WELLINGTON LABORATORIES

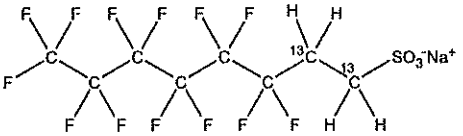
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ 5386, 5387, 5388, 5389, 5390

PRODUCT CODE. M2-6 2FTS **LOT NUMBER.** M262FTS0625

COMPOUND. Sodium 1H 1H 2H 2H-perfluoro(1,2-$^{13}C_2$)octanesulfonate

STRUCTURE. **CAS #:** 2708218-89-5



410-8800664

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_6H_4F_{13}SO_3Na$	**MOLECULAR WEIGHT:**	452 13
CONCENTRATION.	50 0 ± 2 5 µg/mL (Na salt) 47 6 ± 2.4 µg/mL (M2-6 2FTS acid) 47 5 ± 2.4 µg/mL (M2-6 2FTS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	06/26/2025		
EXPIRY DATE. (mm/dd/yyyy)	06/26/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- The native 6.2FTS contains 4 22% of ^{34}S (due to natural isotopic abundance) therefore both native 6.2FTS and M2-6 2FTS will produce signals in the m/z 429 to m/z 409 channel during MRM analysis We recommend using the m/z 429 to m/z 81 transition to monitor for M2-6.2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2)

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 07/15/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is

$$u_c(y(x_1\ x_2\ \ldots x_n)) = \sqrt{\sum_{i=1}^{I} u(y\ x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

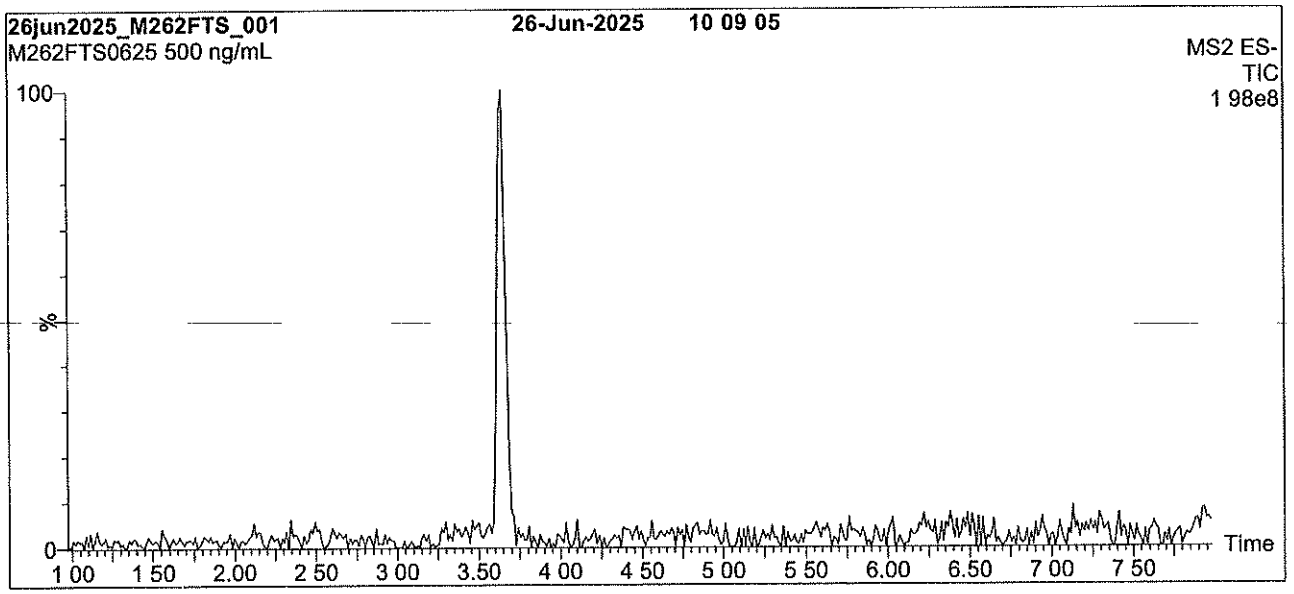
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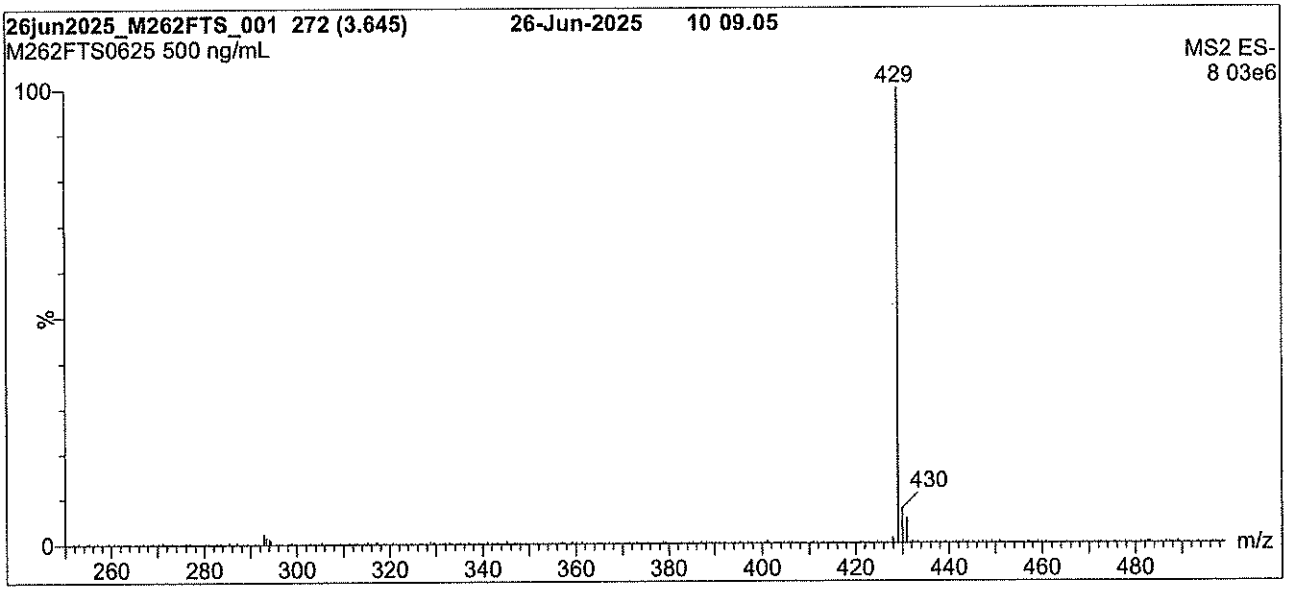
CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M2-6 2FTS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2 1 x 100 mm

Mobile phase: Gradient
Start. 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

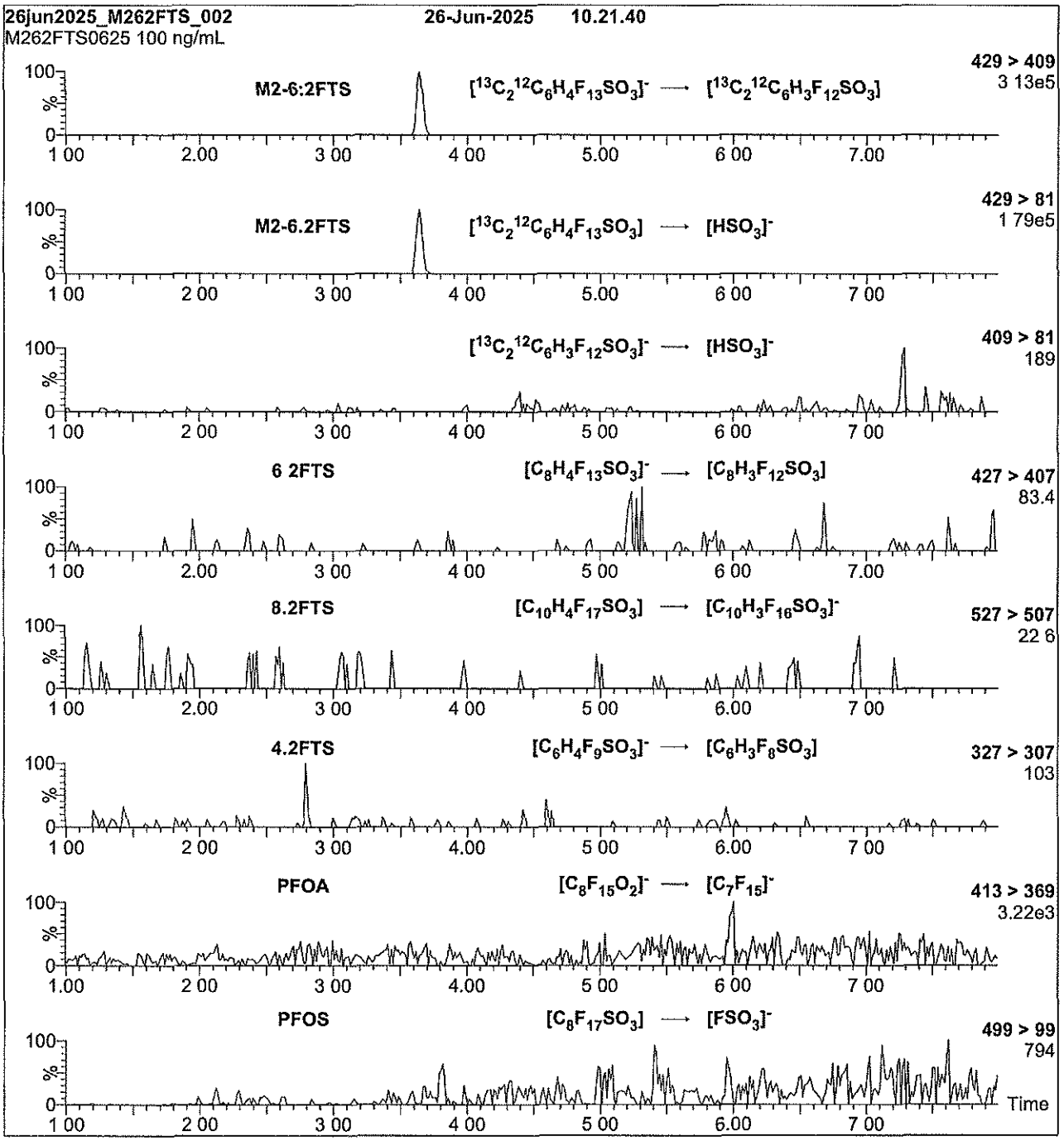
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **M2-6.2FTS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection	On-column (M2-6:2FTS)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.73e-3
Collision Energy (eV) = 20

Reagent

PFC_ST_05396

WELLINGTON LABORATORIES

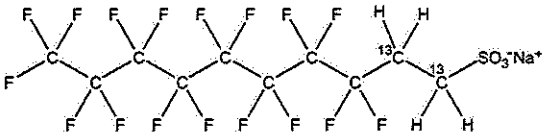
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST_ 5391, 5392, 5393, 5394, 5395, 5396, 5397, 5398

PRODUCT CODE. M2-8:2FTS **LOT NUMBER:** M282FTS0425

COMPOUND: Sodium 1H 1H,2H,2H-perfluoro(1,2-$^{13}C_2$)decanesulfonate

STRUCTURE. **CAS #:** 2708218-90-8



410-8800683

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_8H_4F_{17}SO_3Na$	**MOLECULAR WEIGHT:**	552.15
CONCENTRATION.	50.0 ± 2.5 µg/mL (Na salt)	**SOLVENT(S).**	Methanol
	48.0 ± 2.4 µg/mL (M2-8:2FTS acid)		
	47.9 ± 2.4 µg/mL (M2-8:2FTS anion)		
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	04/09/2025		
EXPIRY DATE. (mm/dd/yyyy)	04/09/2030		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- The native 8:2FTS contains 4.22% of ^{34}S (due to natural isotopic abundance) therefore both native 8:2FTS and M2-8:2FTS will produce signals in the m/z 529 to m/z 509 channel during SRM analysis. We recommend using the m/z 529 to m/z 81 transition to monitor for M2-8.2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2).

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Certified By _____ **Date** 04/23/2025 (mm/dd/yyyy)
B G. Chittim, General Manager

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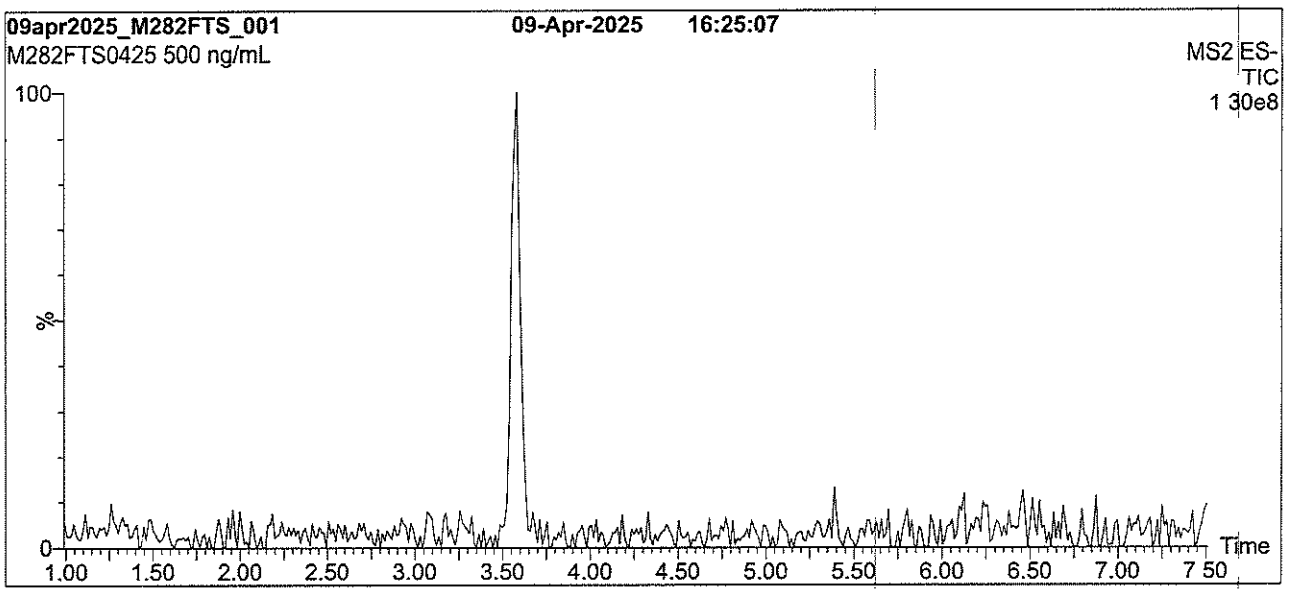
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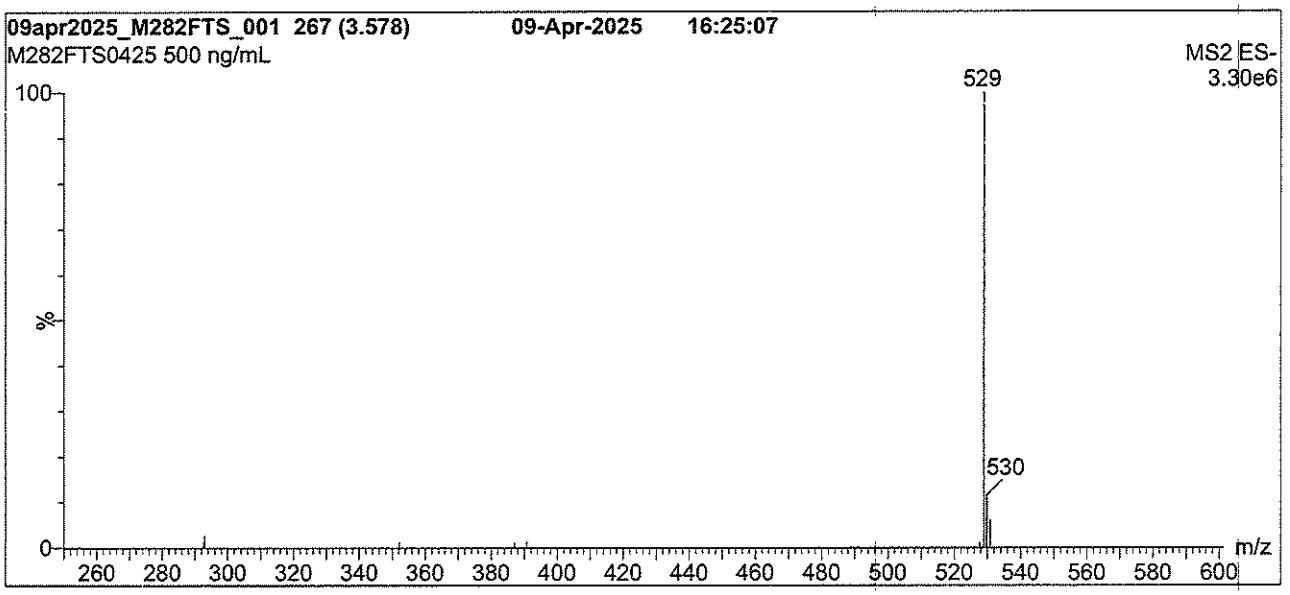
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO/IEC 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **M2-8.2FTS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase. Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

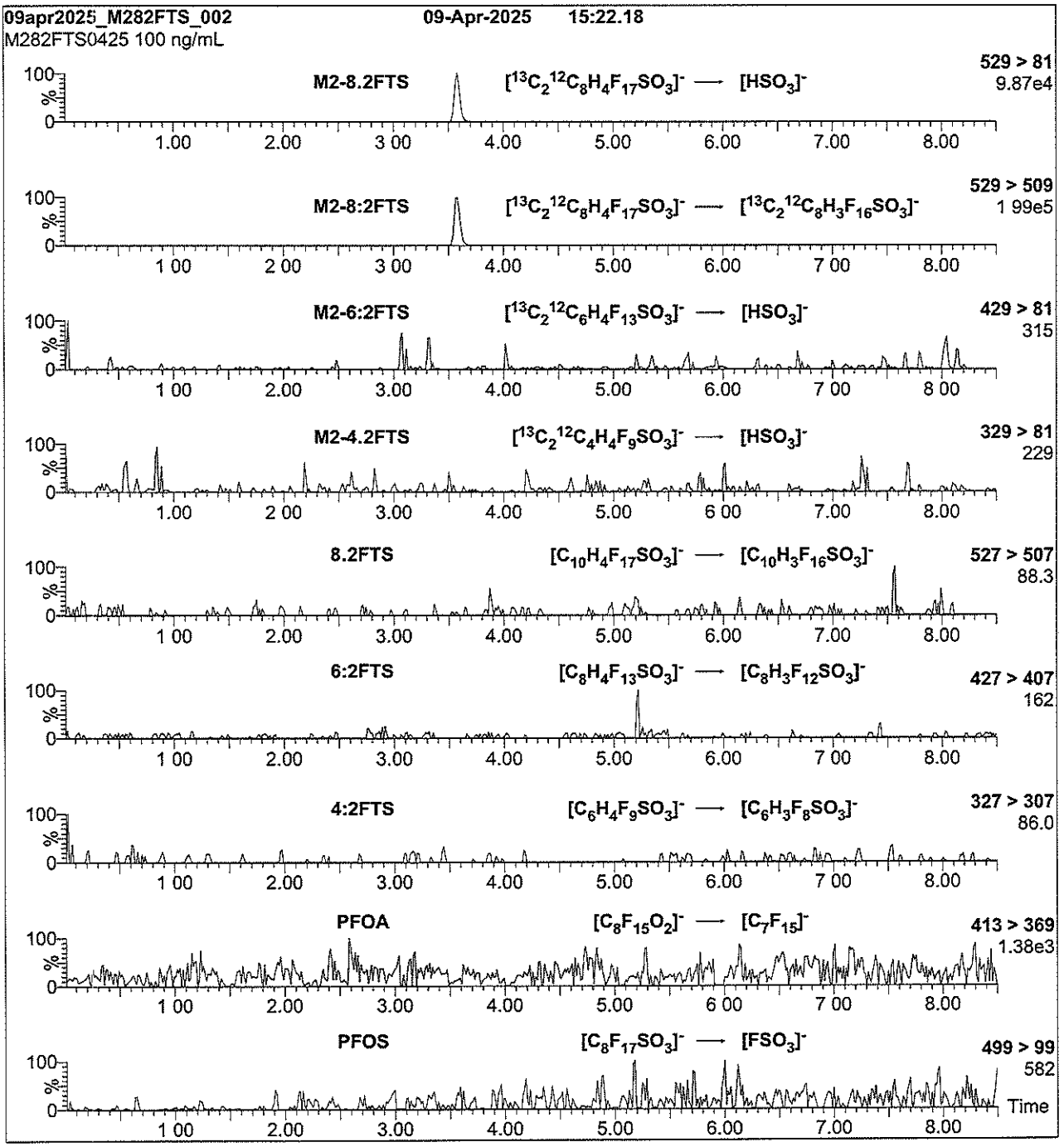
Flow· 300 µL/min

MS Parameters:

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2-8 2FTS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M2-8:2FTS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.91e-3
Collision Energy (eV) = 26

Reagent

PFC_ST_05446

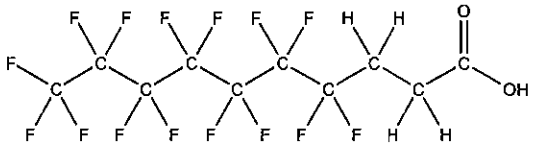
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PFC_ST-03994
PFC_ST-03995

PRODUCT CODE. FHpPA **LOT NUMBER.** FHpPA1224
COMPOUND. 3-Perfluoroheptyl propanoic acid (7 3 FTCA)

STRUCTURE. **CAS #:** 812-70-4



7626701
ID: PFC_ST_03994
Exp:12/16/29 Prpd:JVK6 Opn:
Native FHpPA Stock (7:3 FTCA)

7626702
ID: PFC_ST_03995
Exp:12/16/29 Prpd:JVK6 Opn:
Native FHpPA Stock (7:3 FTCA)

MOLECULAR FORMULA.	$C_{10}H_5F_{15}O_2$	**MOLECULAR WEIGHT:**	442 12
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY.	>98%		
LAST TESTED. (mm/dd/yyyy)	12/16/2024		
EXPIRY DATE. (mm/dd/yyyy)	12/16/2029		
RECOMMENDED STORAGE.	Refrigerate ampoule		

410-7626702

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

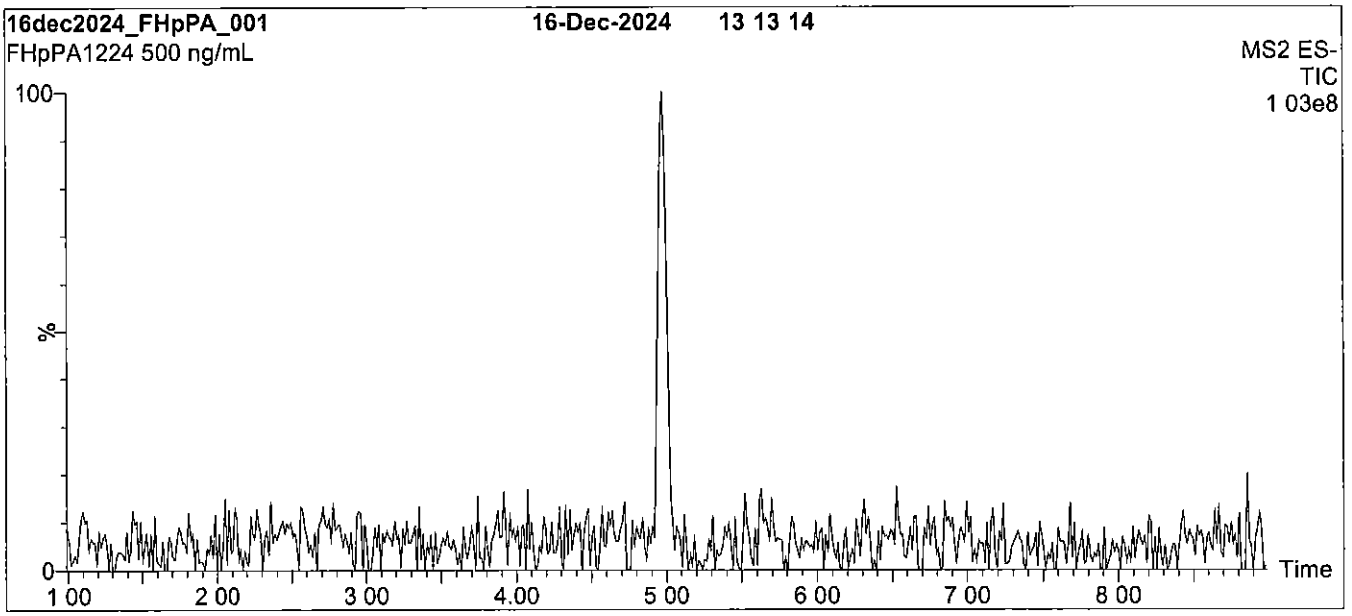
- See page 2 for further details
- Contains ~0 2% of 3-perfluorohexyl propanoic acid (6 3 FTCA)

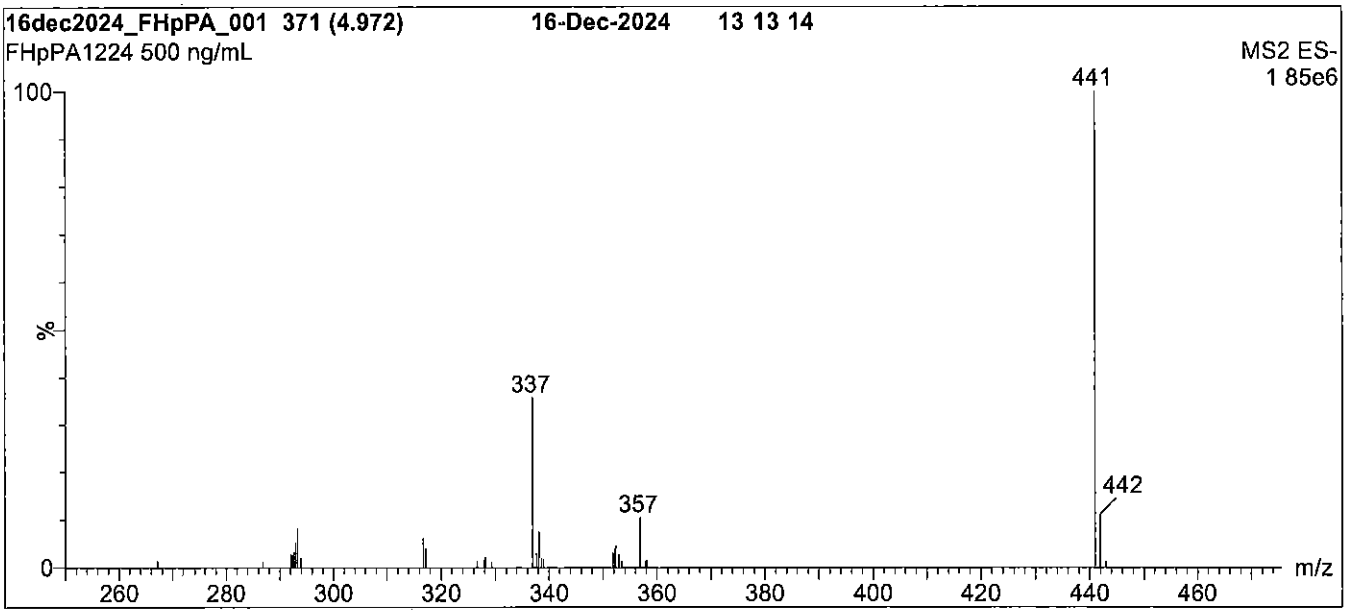
FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 02/18/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

Figure 1. **FHpPA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP$_8$ 1 7 µm 2 1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to Initial conditions in 0 5 min
Time 12 mln

Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 - 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 0.50
Cone Voltage (V) = 28 50
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

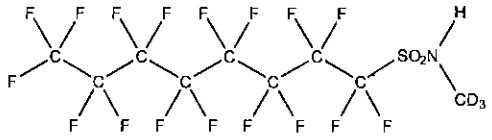
Reagent

PFC_ST_05455

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:	d-N-MeFOSA-M	**LOT NUMBER:**	dNMeFOSA1024M
COMPOUND:	N-Methyl-d_3-perfluoro-1-octanesulfonamide		
STRUCTURE:		**CAS #:**	936109-37-4



MOLECULAR FORMULA:	$C_9D_3HF_{17}NO_2S$	**MOLECULAR WEIGHT:**	516.19
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED: (mm/dd/yyyy)	10/15/2024		
EXPIRY DATE: (mm/dd/yyyy)	10/15/2029		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

7760675
ID: PFC_ST_04344
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d3-NMePFOSA Stock

7760676
ID: PFC_ST_04345
Exp:10/15/29 Prpd:WTU3 Opn:
Labeled d3-NMePFOSA Stock

ADDITIONAL INFORMATION:

- See page 2 for further details.

410-7760675

410-7760676

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 10/18/2024
(mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

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HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

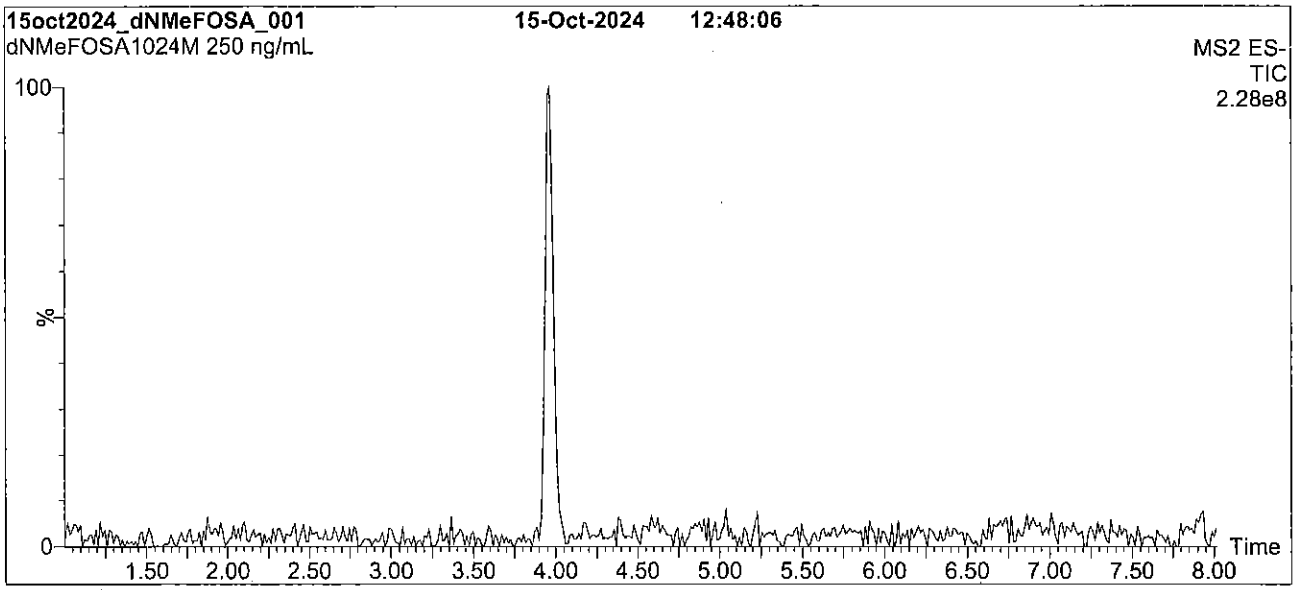
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

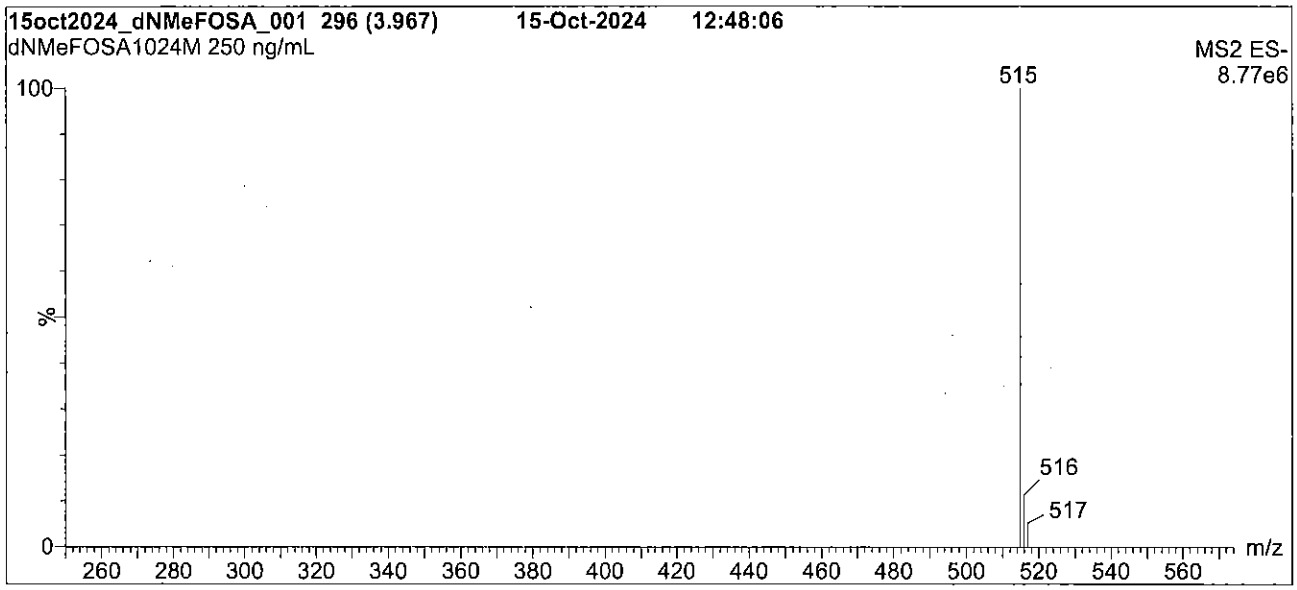
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

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Figure 1: **d-N-MeFOSA-M; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

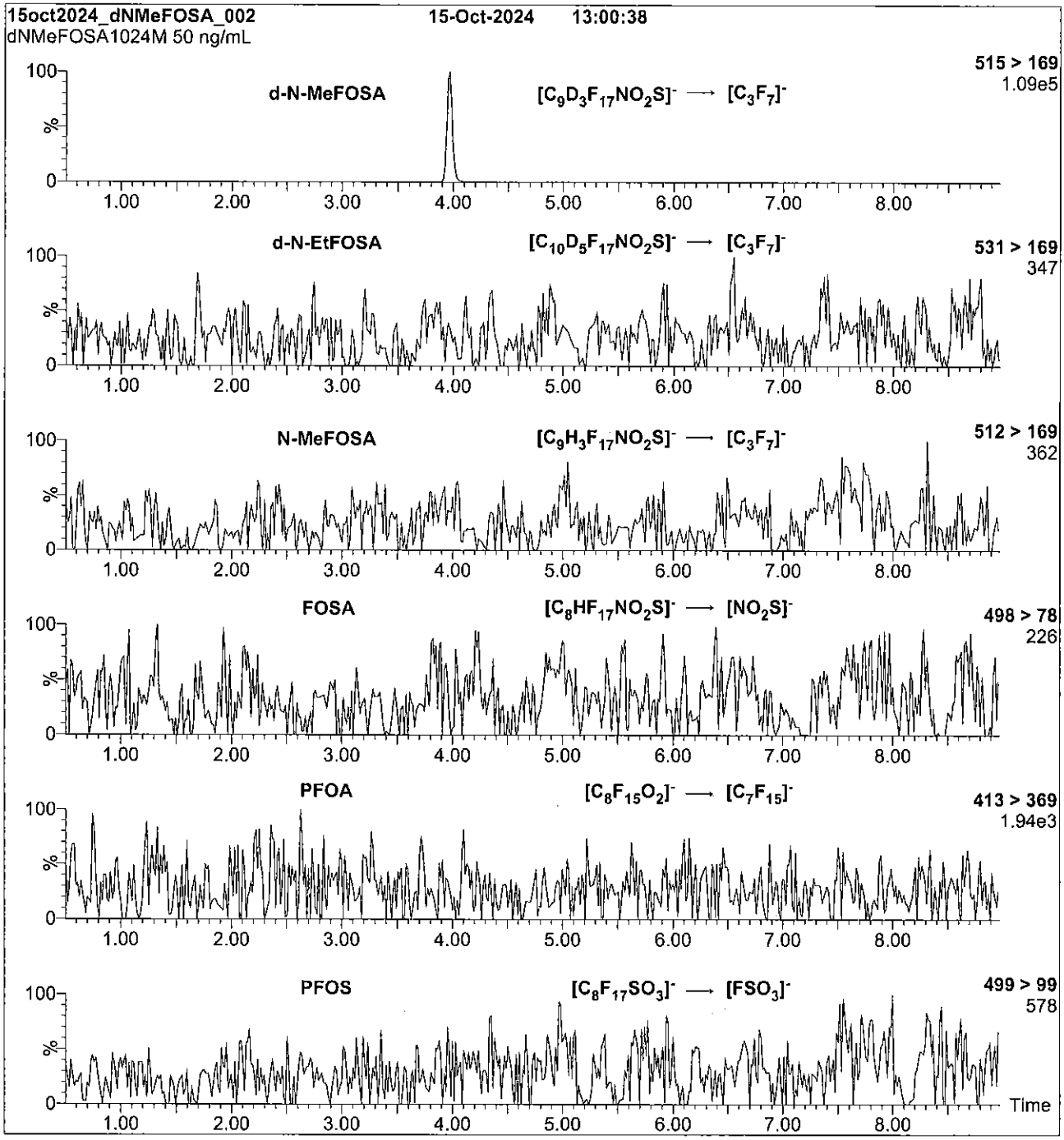
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 1.00
Cone Voltage (V) = 44.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **d-N-MeFOSA-M; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (d-N-MeFOSA-M)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.24e-3
Collision Energy (eV) = 24

Reagent

PFC_ST_05463

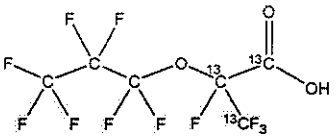
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST_ 5174, 5175, 5176, 5177, 5178

PRODUCT CODE.	M3HFPO-DA	**LOT NUMBER.**	M3HFPODA0825
COMPOUND.	$^{13}C_3$-Hexafluoropropylene oxide dimer acid ($^{13}C_3$-GenX)		
IUPAC NAME.	*rac*-2,3 3 3-Tetrafluoro-2-(1 1,2,2 3 3,3-heptafluoropropoxy)($^{13}C_3$)propanoic acid		

STRUCTURE.



CAS #: 3030247-97-0

410-8827051

MOLECULAR FORMULA.	$^{13}C_3{}^{12}C_3HF_{11}O_3$	**MOLECULAR WEIGHT:**	333.03
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	08/19/2025		
EXPIRY DATE. (mm/dd/yyyy)	08/19/2029		
RECOMMENDED STORAGE.	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- This compound is the $^{13}C_3$-labelled analogue of the major component of the commercial formulation known as GenX.
- M3HFPO-DA is a mixture of two stereoisomers (a pair of enantiomers) that coelute using the provided conditions.

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Certified By· _____ **Date** 08/28/2025 (mm/dd/yyyy)
B G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

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SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is:

$$u_c(y(x_1\ x,\ ..x_n)) = \sqrt{\sum_{i=1}^{n} u(y\ x)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

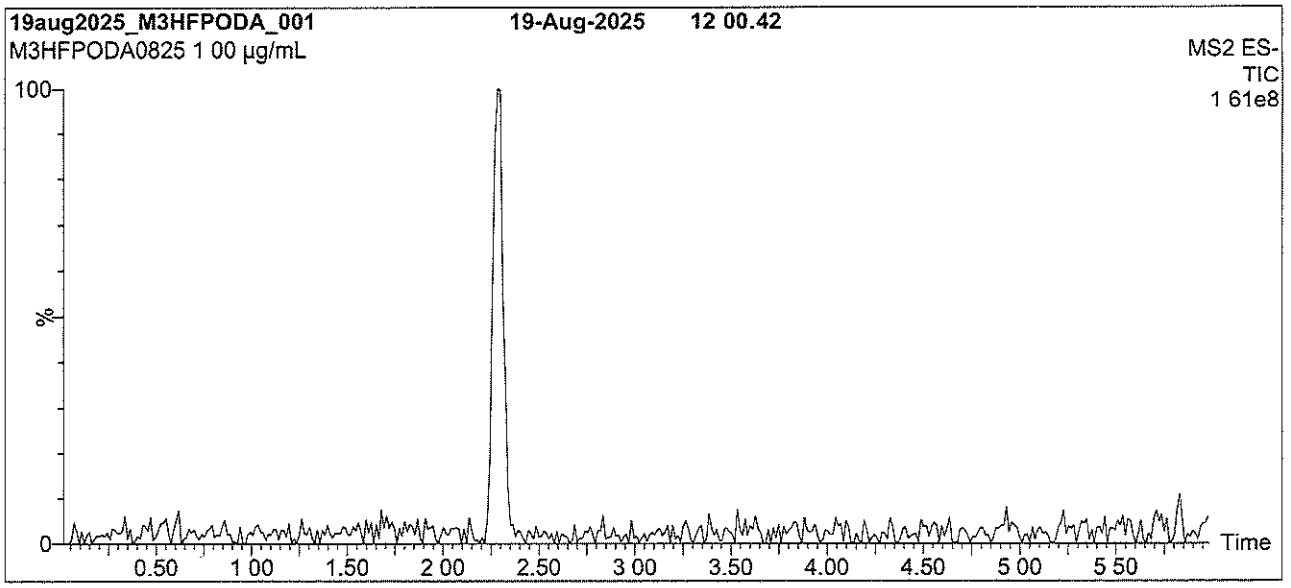
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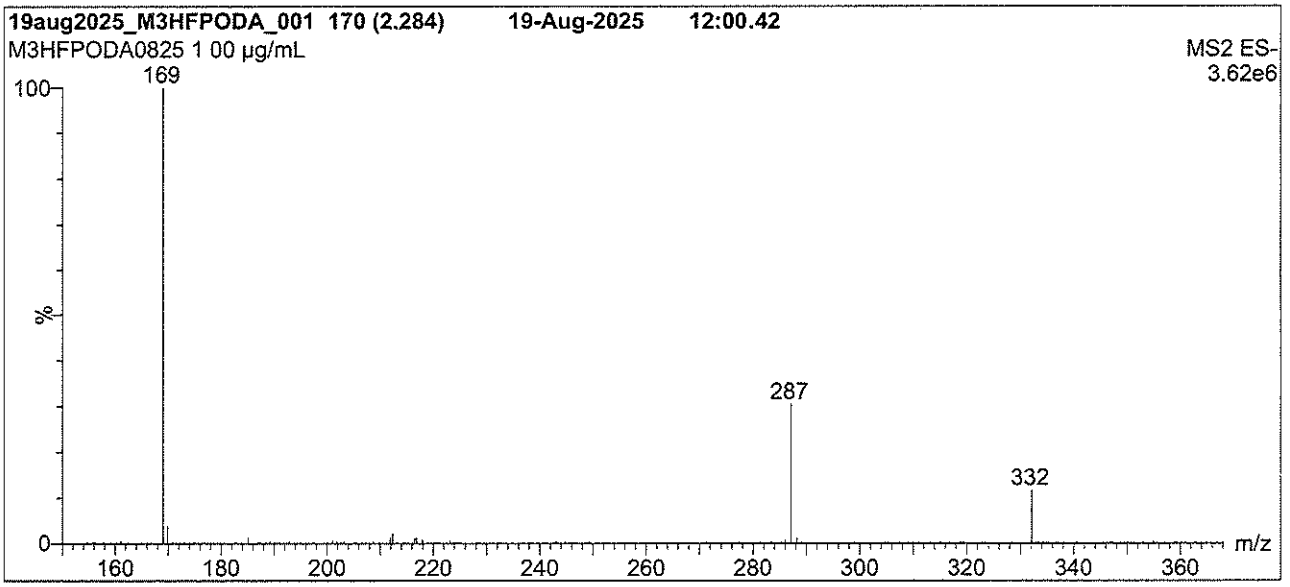
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M3HFPO-DA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

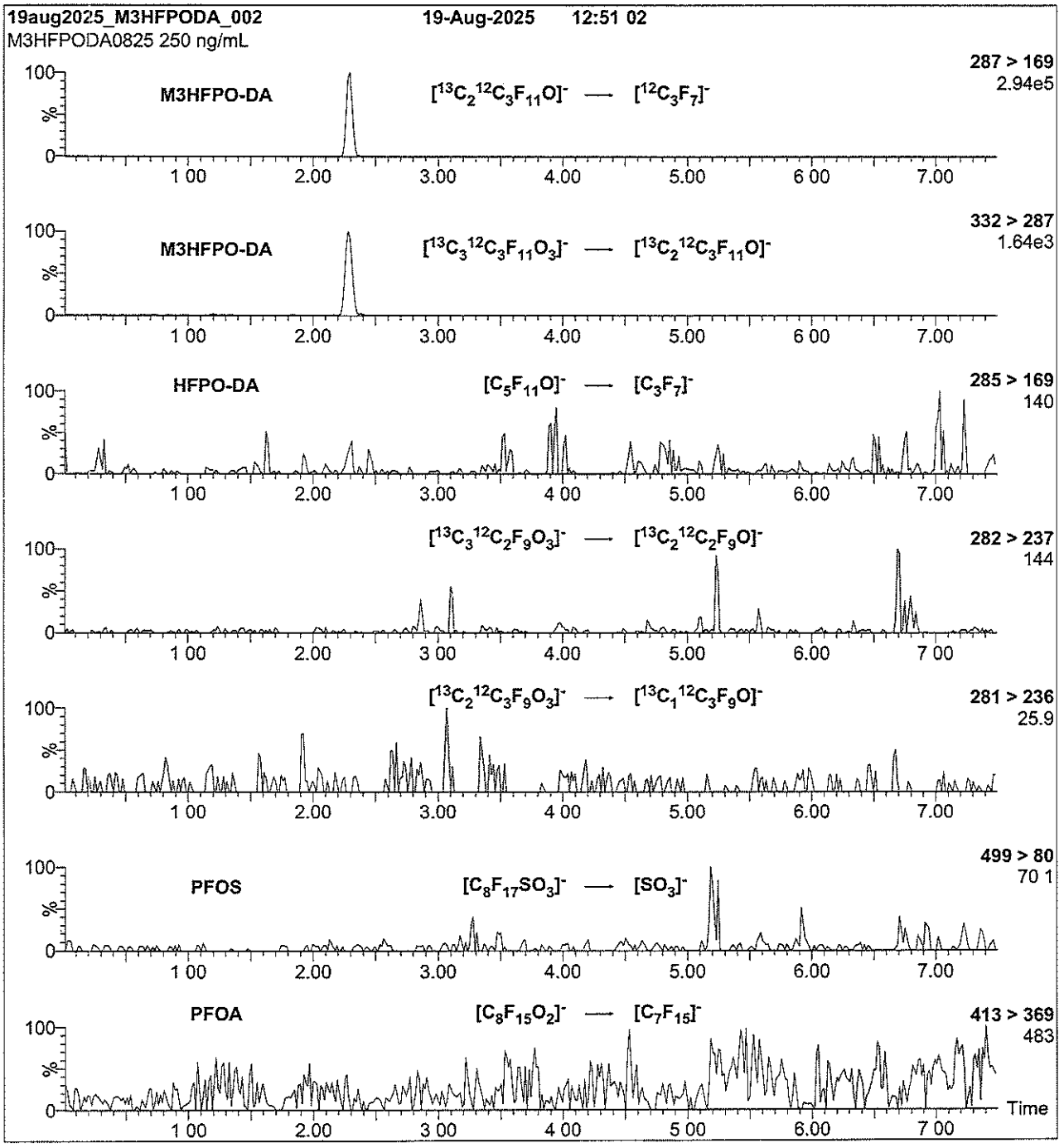
Flow· 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M3HFPO-DA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M3HFPO-DA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 8 (287 > 169)

Reagent

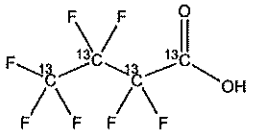
PFC_ST_05469

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ 539
5469, 5470, 5471, 5472, 5473, 5474

PRODUCT CODE.	MPFBA	**LOT NUMBER.**	MPFBA0725
COMPOUND.	Perfluoro-n-($^{13}C_4$)butanoic acid		
STRUCTURE.		**CAS #.**	1017281-29-6



410-8827306

MOLECULAR FORMULA.	$^{13}C_4HF_7O_2$	**MOLECULAR WEIGHT:**	218 01
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY.**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	07/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	07/28/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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Certified By _____ **Date** 07/28/2025 (mm/dd/yyyy)
B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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$$u_c(y(x_1\ x_2\quad x\ )) = \sqrt{\sum_{i=1} u(y\ x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

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QUALITY MANAGEMENT:

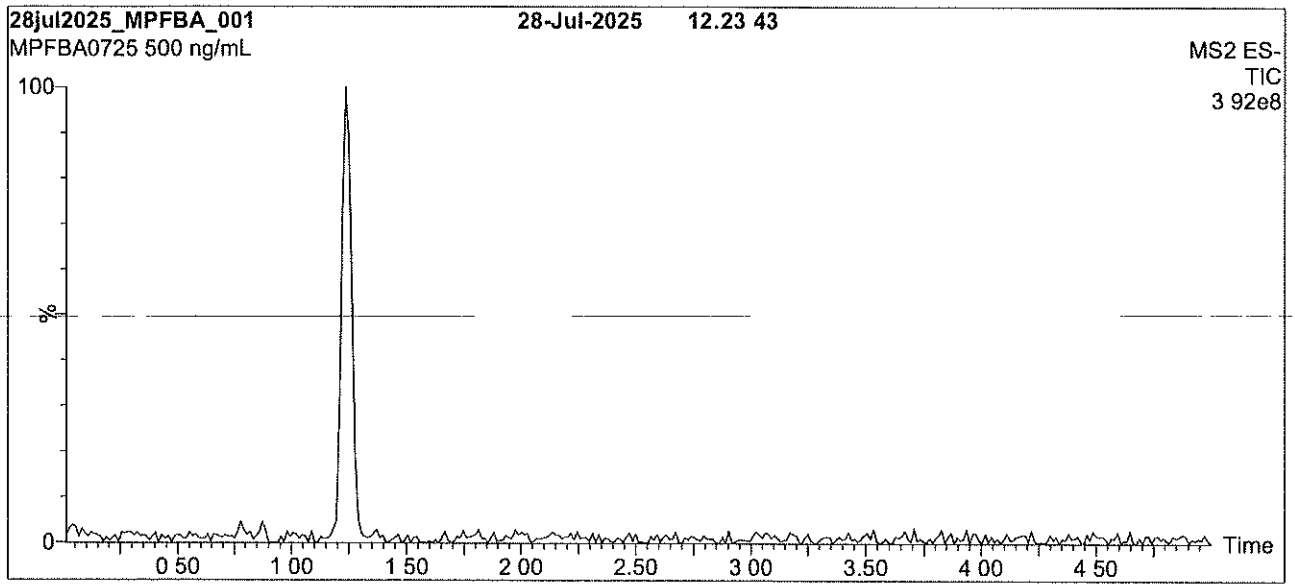
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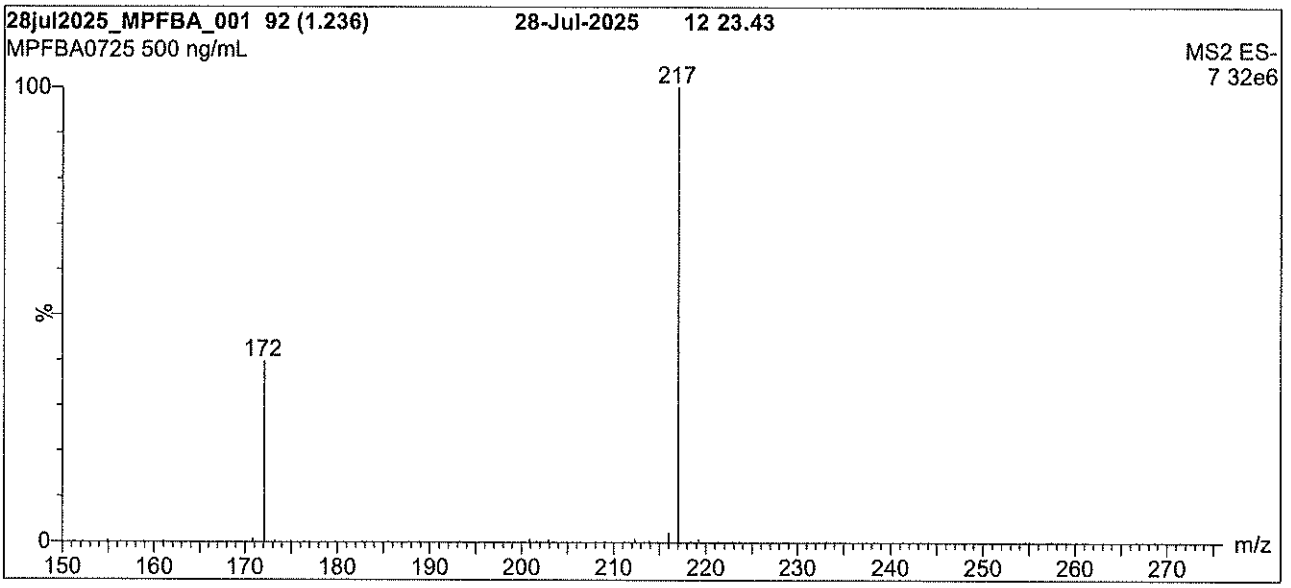
CALA Testing Accreditation No. A1226

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFBA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase. Gradient
Start: 60% H_2O / 40% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Hold for 1 min then ramp to 80% organic over 8 min and hold for 2 min before returning to initial conditions in 0.5 min
Time: 12 min

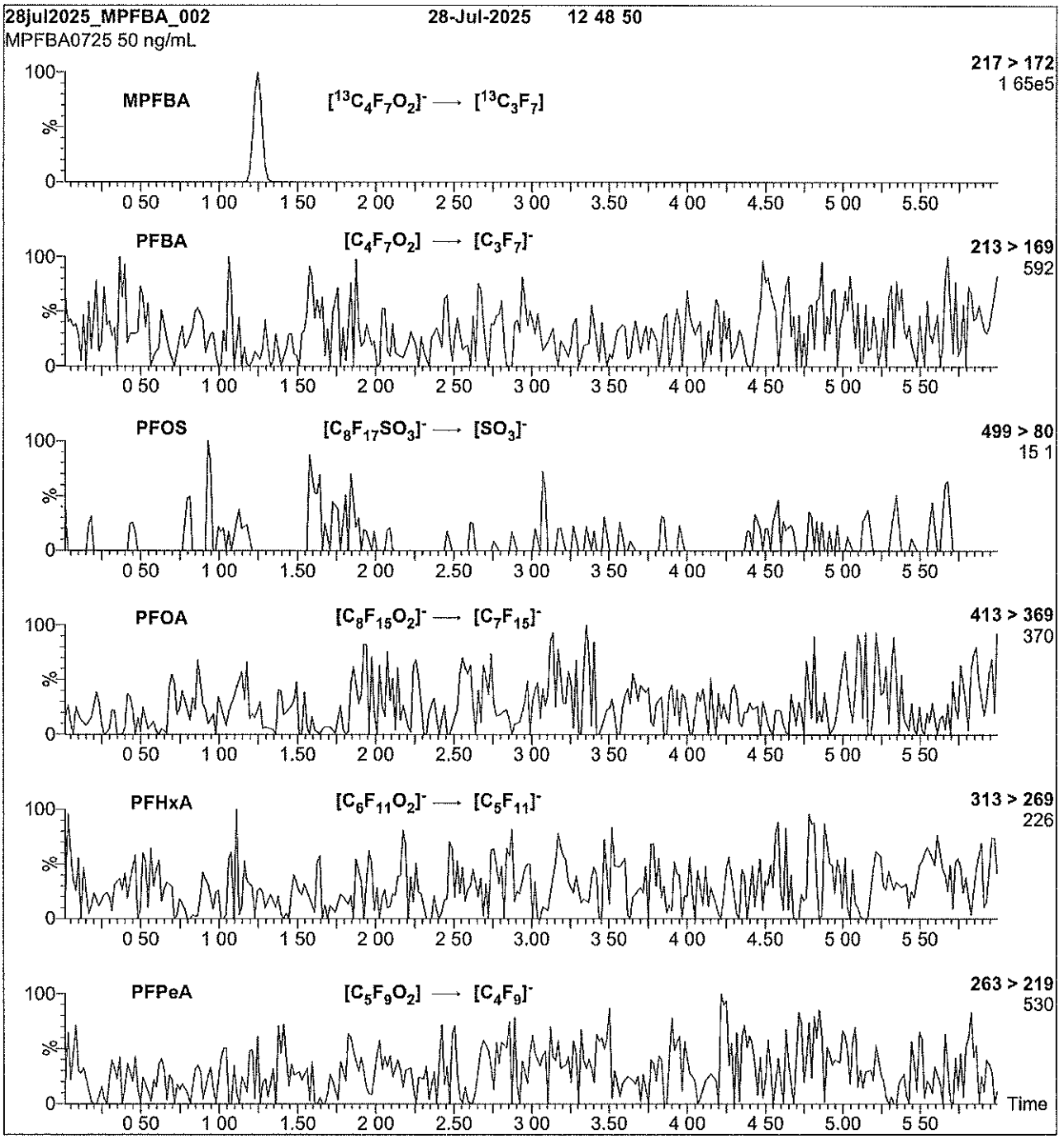
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFBA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection.	On-column (MPFBA)
Mobile phase.	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3 71e-3
Collision Energy (eV) = 8

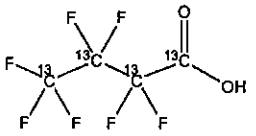
Reagent

PFC_ST_05473

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE.	MPFBA	**LOT NUMBER.**	MPFBA0725
COMPOUND.	Perfluoro-n-($^{13}C_4$)butanoic acid		
STRUCTURE.		**CAS #:**	1017281-29-6



410-8827309

MOLECULAR FORMULA.	$^{3}C_4HF_7O_2$	**MOLECULAR WEIGHT:**	218 01
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	07/28/2025		
EXPIRY DATE. (mm/dd/yyyy)	07/28/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By _____ **Date** 07/28/2025 (mm/dd/yyyy)
B G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax 519-822-2849 • info@well-labs.com

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$$u_c(y(x_1, x_2 \quad x)) = \sqrt{\sum_{i=}^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

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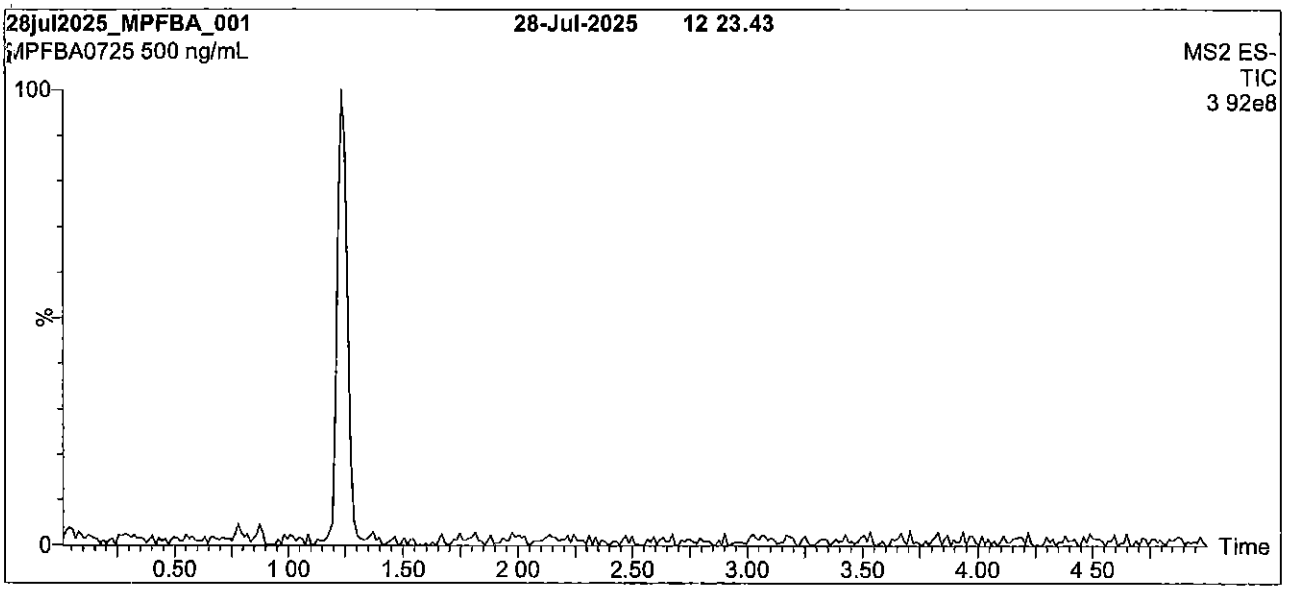
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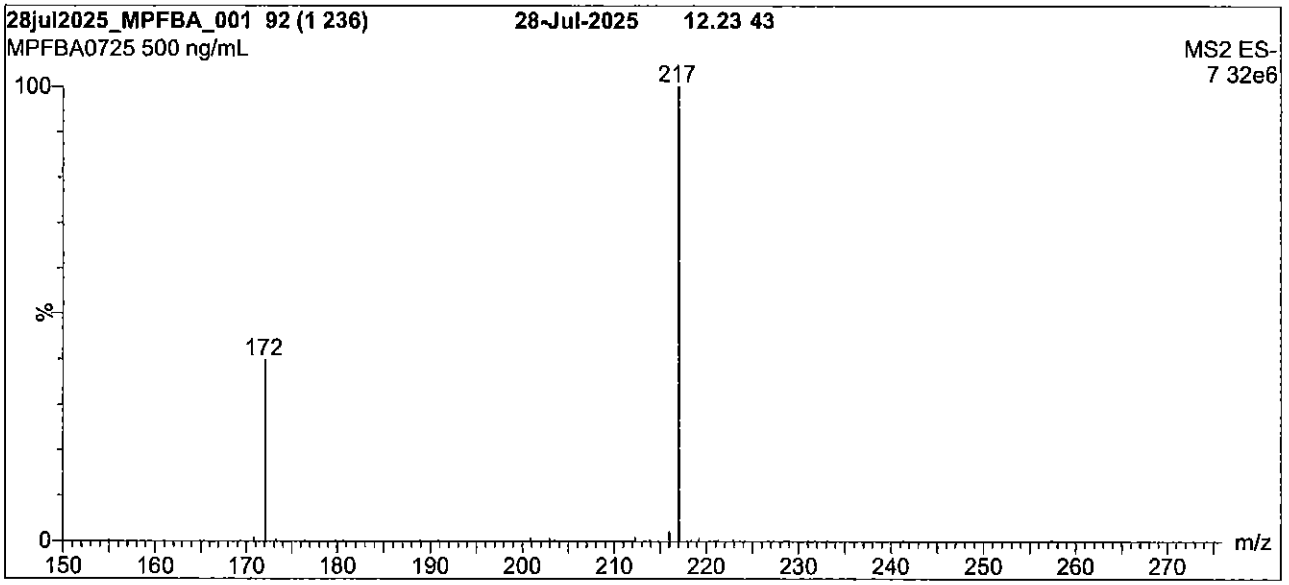
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **MPFBA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

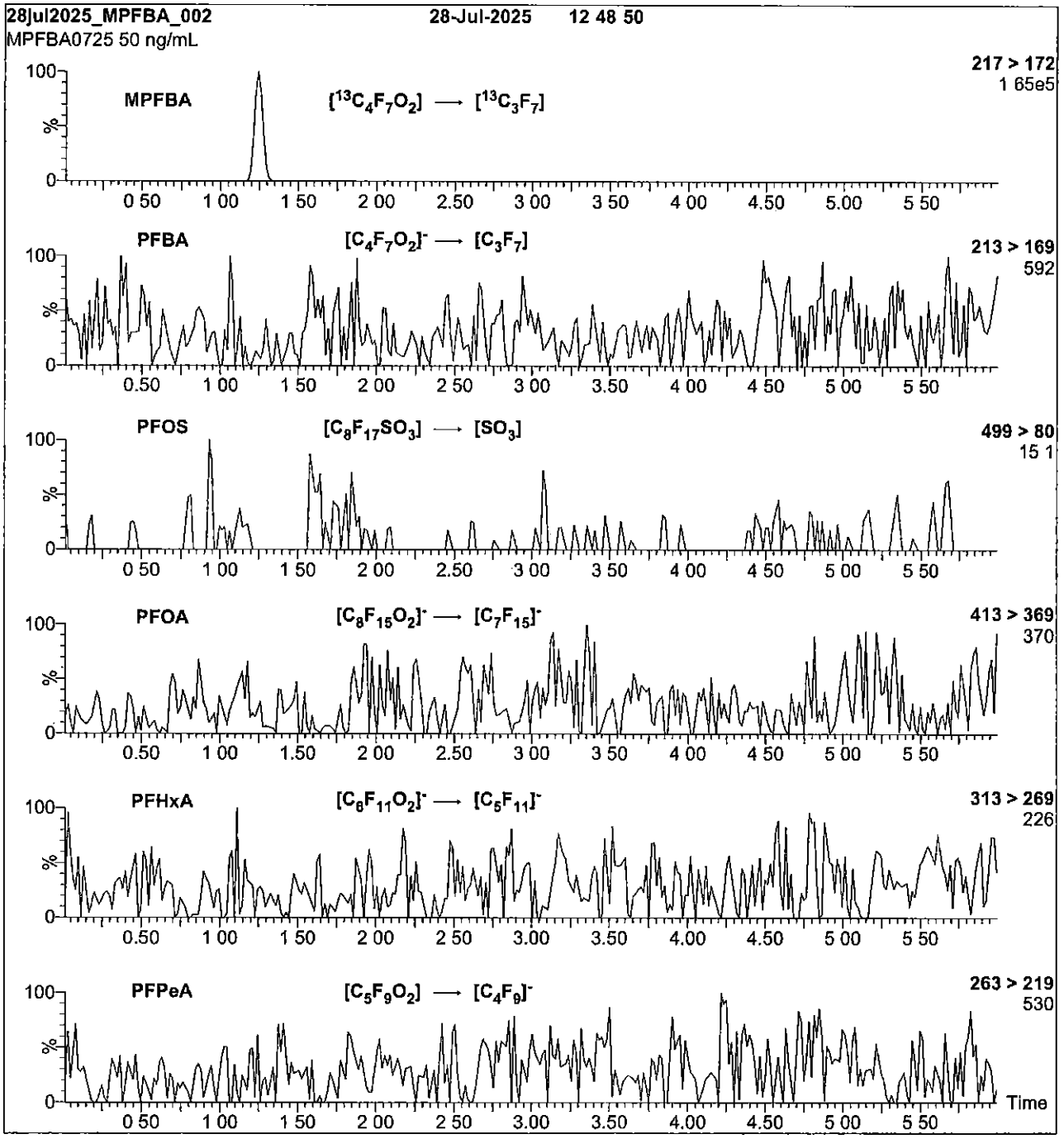
Column	Acquity UPLC BEH Shield RP_{18} 1 7 µm, 2.1 x 100 mm
Mobile phase	Gradient Start: 60% H_2O / 40% (80:20 MeOH.ACN) (both with 10 mM NH_4OAc buffer) Hold for 1 min then ramp to 80% organic over 8 min and hold for 2 min before returning to initial conditions in 0.5 min. Time: 12 min
Flow	300 µL/min

MS Parameters.

Experiment: Full Scan (150 850 amu)

Source Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **MPFBA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.			
Injection	On-column (MPFBA)	**MS Parameters:**	
Mobile phase	Same as Figure 1	Collision Gas (mbar) = 3 71e-3	
Flow	300 µL/min	Collision Energy (eV) = 8	

Reagent

PFC_ST_05477

WELLINGTON LABORATORIES

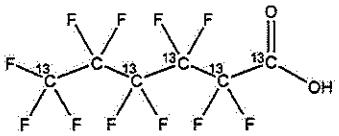
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ 5208, 5209, 5210

PRODUCT CODE. M5PFHxA
COMPOUND. Perfluoro-n-(1,2,3,4 6-$^{13}C_5$)hexanoic acid

LOT NUMBER: M5PFHxA0925

STRUCTURE.



CAS #: 2328024-54-8

410-8660952

MOLECULAR FORMULA:	$^{13}C_5{}^{12}C_1HF_{11}O_2$	**MOLECULAR WEIGHT:**	319.02
CONCENTRATION.	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	09/15/2025		
EXPIRY DATE. (mm/dd/yyyy)	09/15/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· _____ **Date** 09/16/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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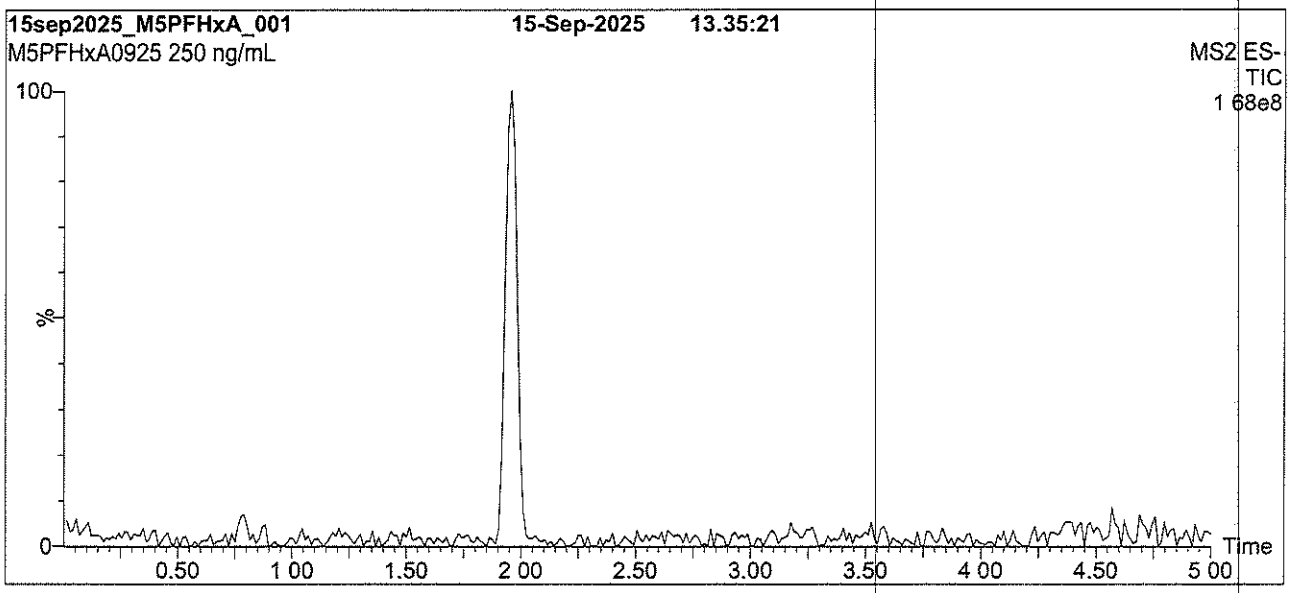
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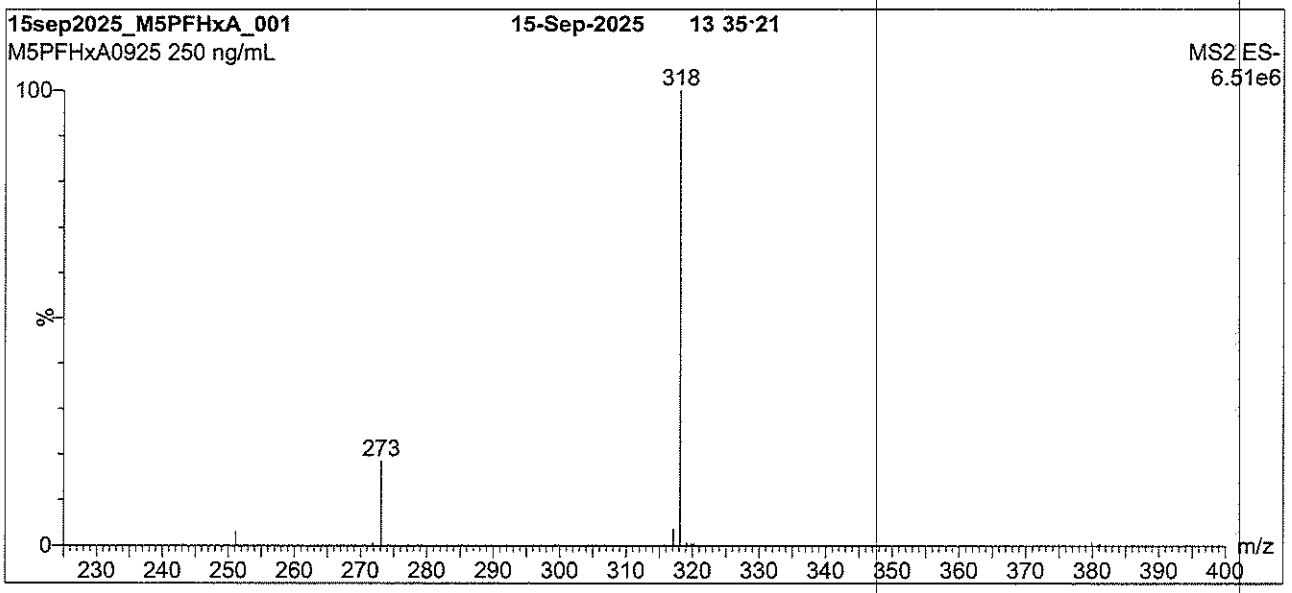
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M5PFHxA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

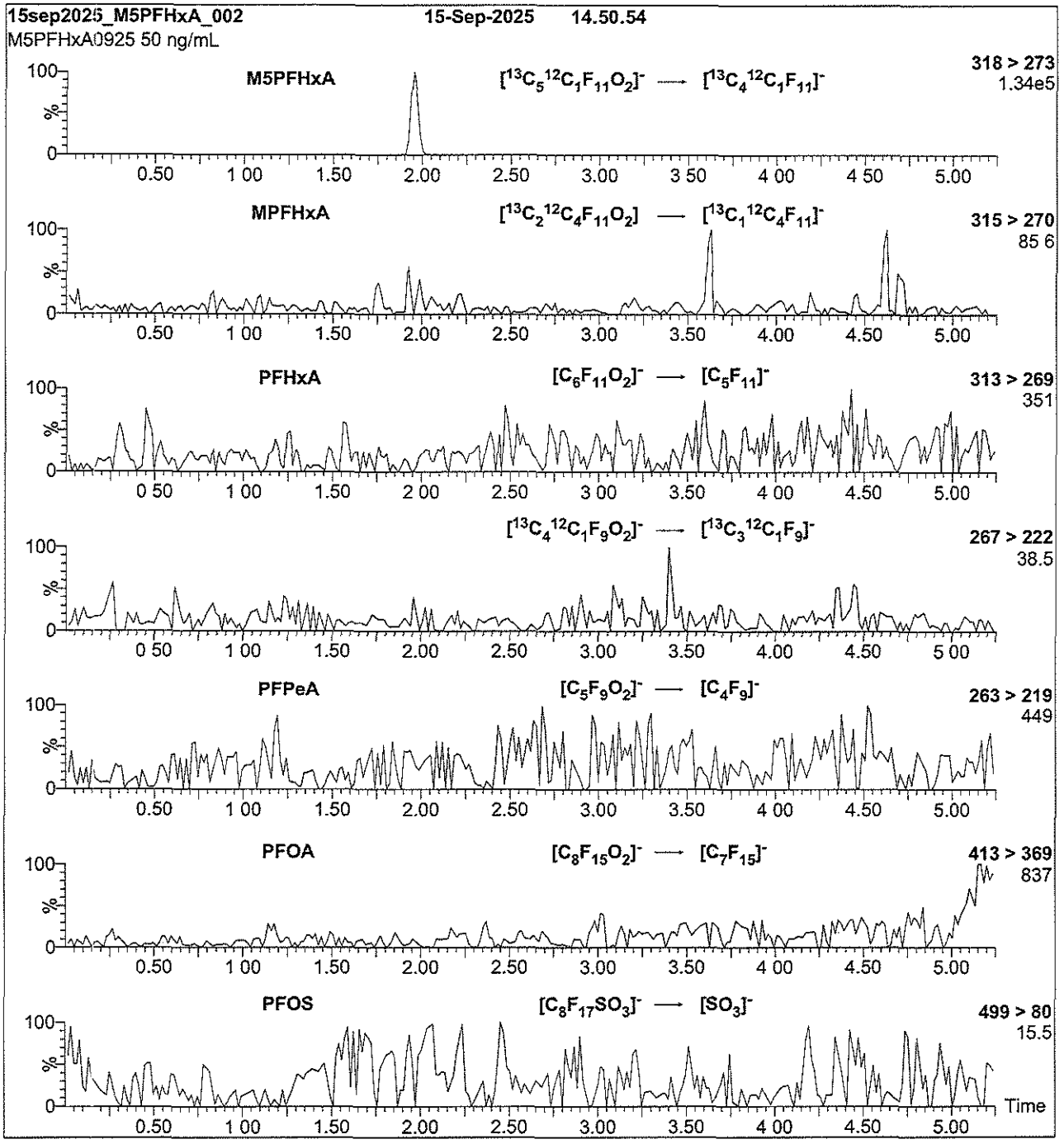
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (225 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M5PFHxA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection: On-column (M5PFHxA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3 71e-3
Collision Energy (eV) = 8 (318 > 273)

Reagent

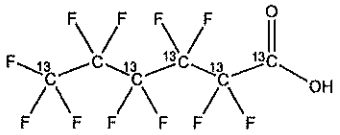
PFC_ST_05479

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST- 5475, 5476, 5477, 5478, 5479

PRODUCT CODE.	M5PFHxA	**LOT NUMBER.**	M5PFHxA0925
COMPOUND.	Perfluoro-n-(1 2 3 4 6-$^{13}C_5$)hexanoic acid		
STRUCTURE.		**CAS #.**	2328024-54-8



410-8827319

MOLECULAR FORMULA.	$^{13}C_5{}^{12}C_1HF_{11}O_2$	**MOLECULAR WEIGHT:**	319 02
CONCENTRATION.	50 0 ± 2 5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
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LAST TESTED. (mm/dd/yyyy)	09/15/2025		
EXPIRY DATE. (mm/dd/yyyy)	09/15/2030		
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DOCUMENTATION/ DATA ATTACHED.

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Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

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- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

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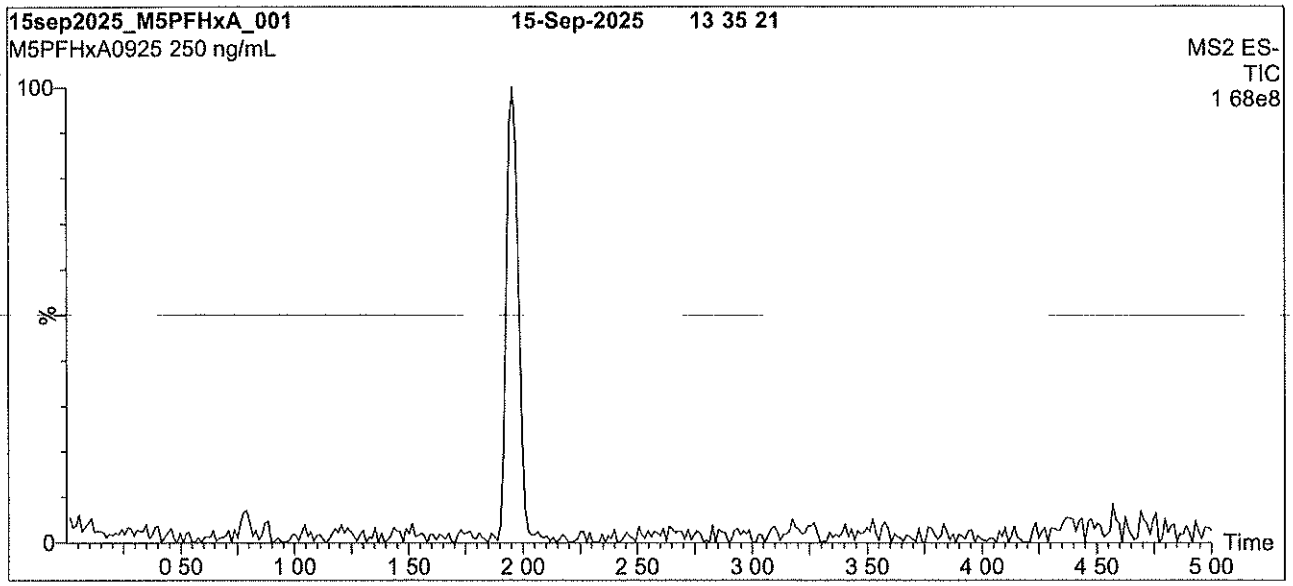
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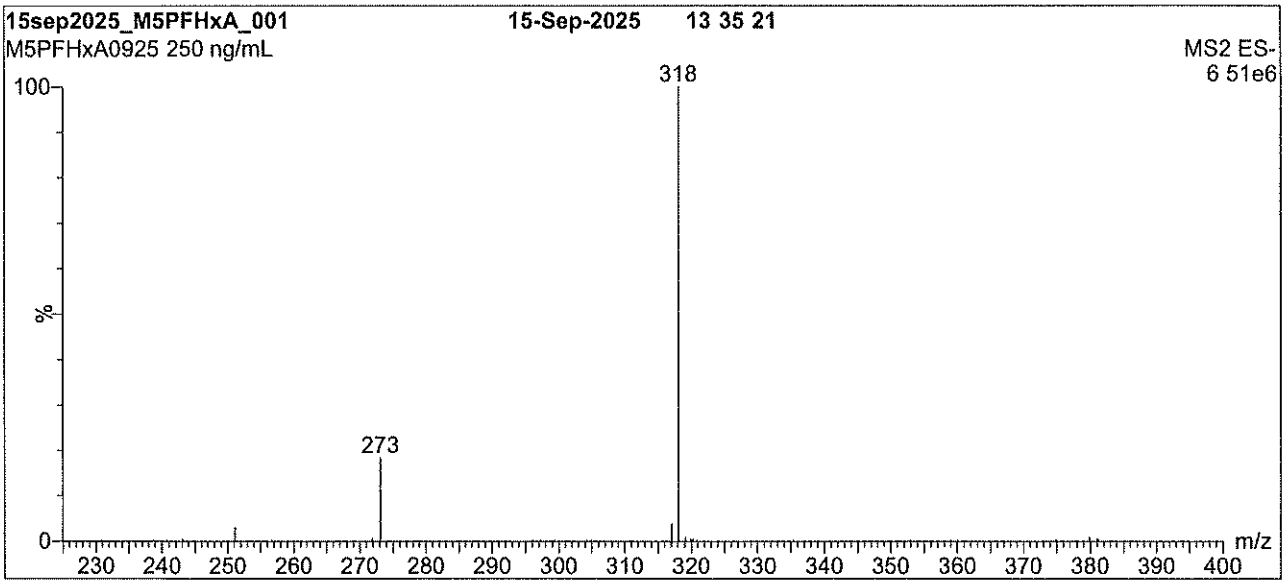
CALA Testing Accreditation No. A1226

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Waters Xevo TQ-S micro MS

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before returning to initial conditions in 0.5 min
Time: 12 min

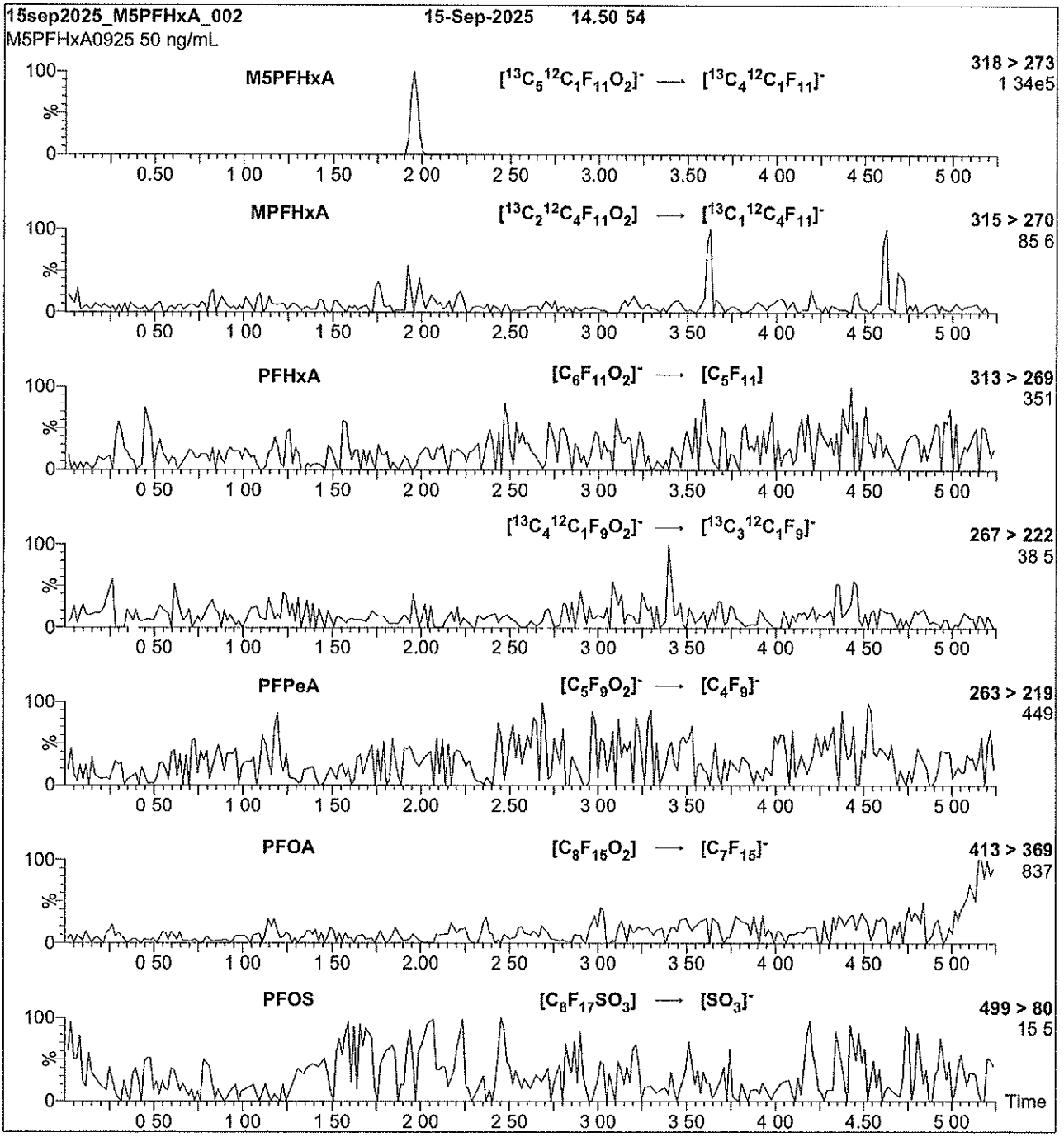
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (225 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M5PFHxA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2.

Injection	On-column (M5PFHxA)
Mobile phase	Same as Figure 1
Flow	300 µL/min

MS Parameters.

Collision Gas (mbar) = 3.71e-3
Collision Energy (eV) = 8 (318 > 273)

Reagent

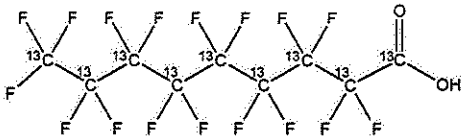
PFC_ST_05480

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST- 5480, 5481, 5482, 5483, 5484

PRODUCT CODE.	M9PFNA	**LOT NUMBER.**	M9PFNA0625
COMPOUND.	Perfluoro-n-($^{13}C_9$)nonanoic acid		
STRUCTURE.		**CAS #:**	2283397-80-6



410-8827323

MOLECULAR FORMULA.	$^{13}C_9HF_{17}O_2$	**MOLECULAR WEIGHT:**	473.01
CONCENTRATION.	50 0 ± 2.5 µg/mL	**SOLVENT(S).**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	07/04/2025		
EXPIRY DATE. (mm/dd/yyyy)	07/04/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2· LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester
- Contains ~1 0% of perfluoro-n-($^{13}C_5$)nonanoic acid (MPFNA).

FOR LABORATORY USE ONLY· NOT FOR HUMAN OR DRUG USE

Certified By· _____ **Date·** 07/15/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE.

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS SFC/UV/MS x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, x_n on which it depends is.

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

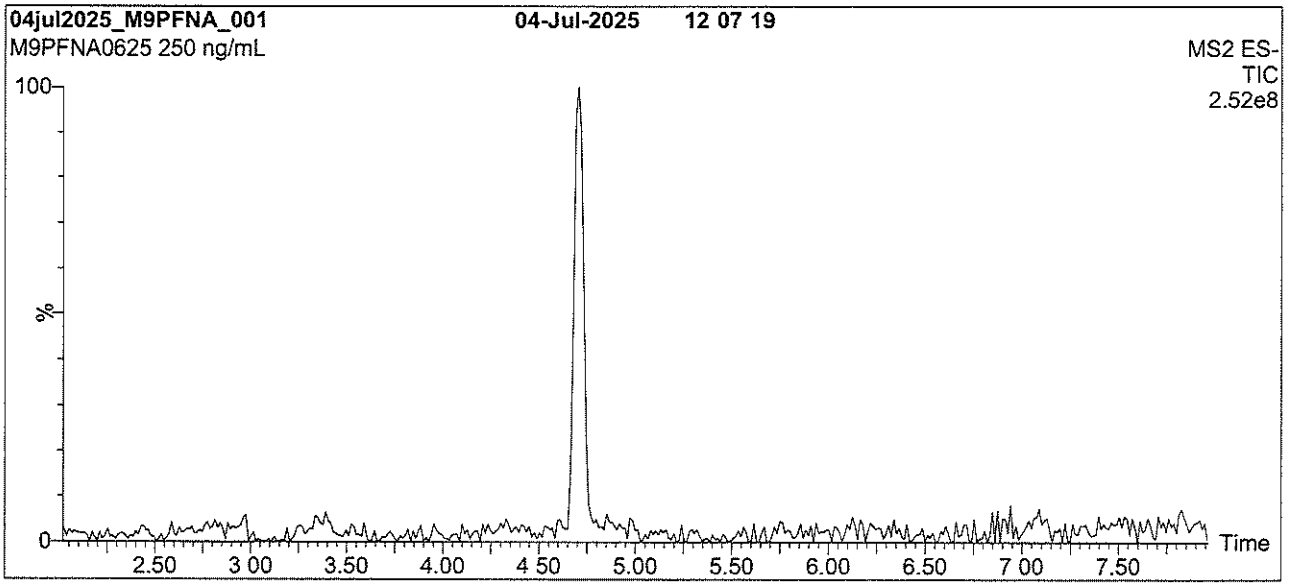
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB, AR-1523).

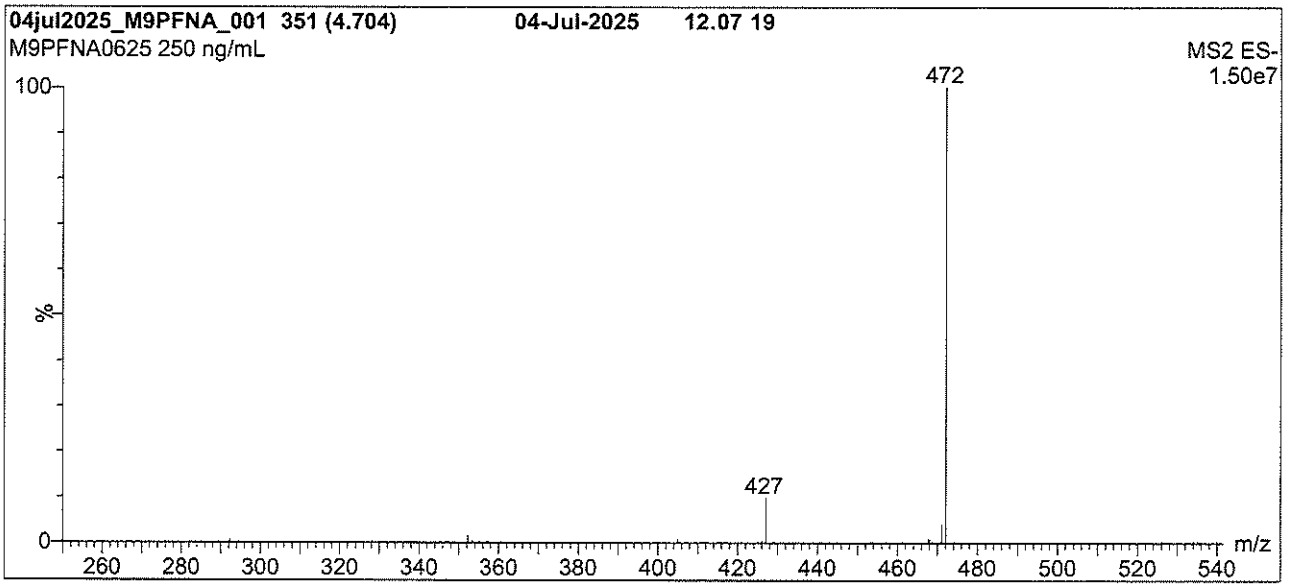
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **M9PFNA, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase. Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

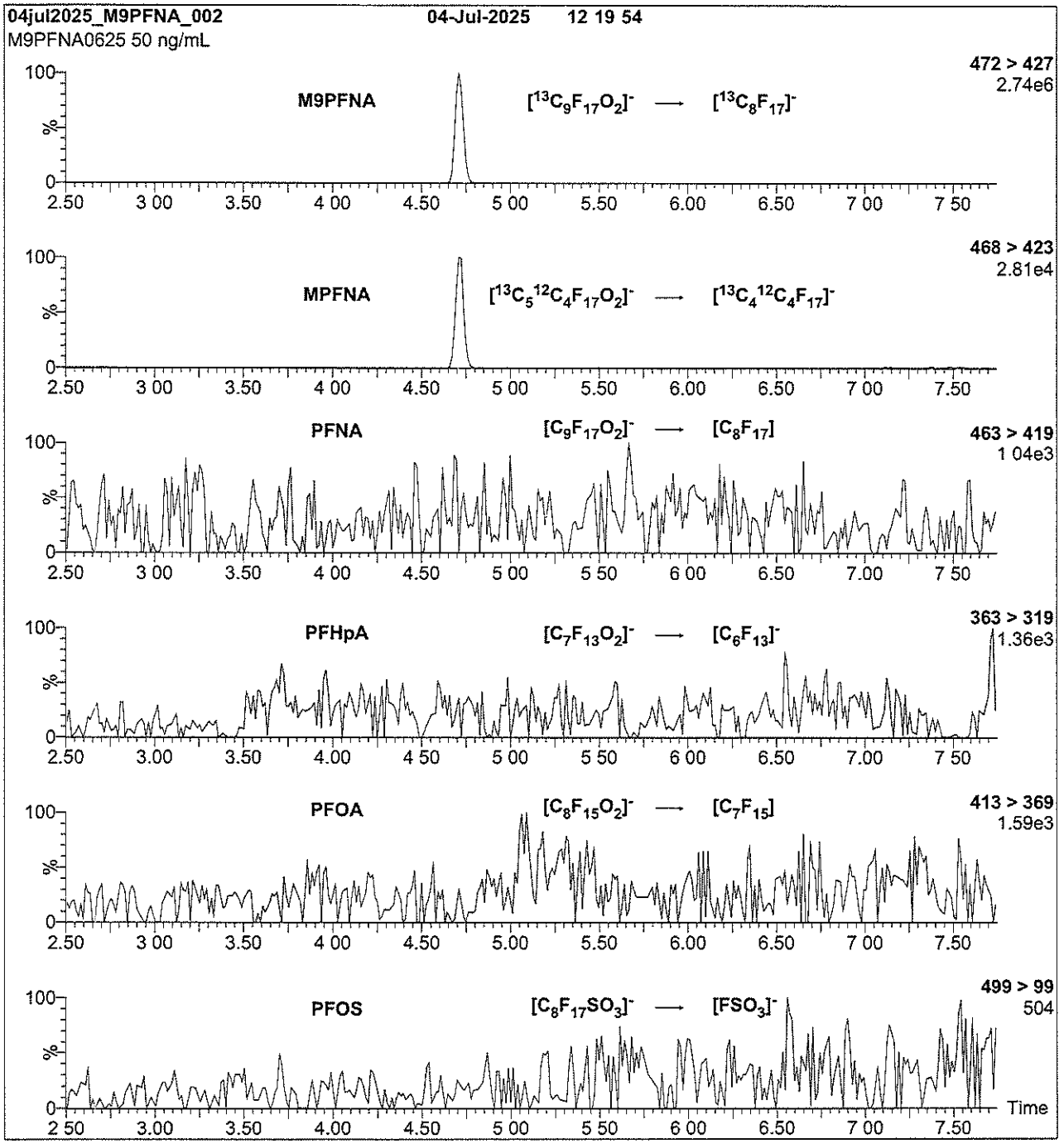
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M9PFNA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M9PFNA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters.

Collision Gas (mbar) = 4.09e-3
Collision Energy (eV) = 10

Reagent

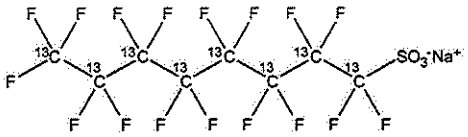
PFC_ST_05486

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PFC-ST-05165, 5166, 5167

PRODUCT CODE.	M8PFOS	**LOT NUMBER.**	M8PFOS1224
COMPOUND.	Sodium perfluoro-1-($^{13}C_8$)octanesulfonate		
STRUCTURE.		**CAS #:**	2522762-16-7



410-8827334

MOLECULAR FORMULA:	$^{13}C_8F_{17}SO_3Na$	**MOLECULAR WEIGHT:**	530 05
CONCENTRATION.	50 0 ± 2.5 µg/mL (Na salt) 47 9 ± 2.4 µg/mL (M8PFOS acid) 47.8 ± 2.4 µg/mL (M8PFOS anion)	**SOLVENT(S).**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	01/02/2025		
EXPIRY DATE. (mm/dd/yyyy)	01/02/2030		
RECOMMENDED STORAGE.	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED.

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2 LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details.
- Contains ~1 1% of sodium perfluoro-1-(1,2,3,4-$^{13}C_4$)octanesulfonate (MPFOS) and <0 1% of perfluoro-n-($^{13}C_8$)octanoic acid (M8PFOA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: B.G. Chittim General Manager **Date** 01/06/2025 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, ..x_n on which it depends is.

$$u_c(y(x \quad x, \quad ..x_n)) = \sqrt{\sum_{i=1}^{n} u(y \; x_i)}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

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QUALITY MANAGEMENT:

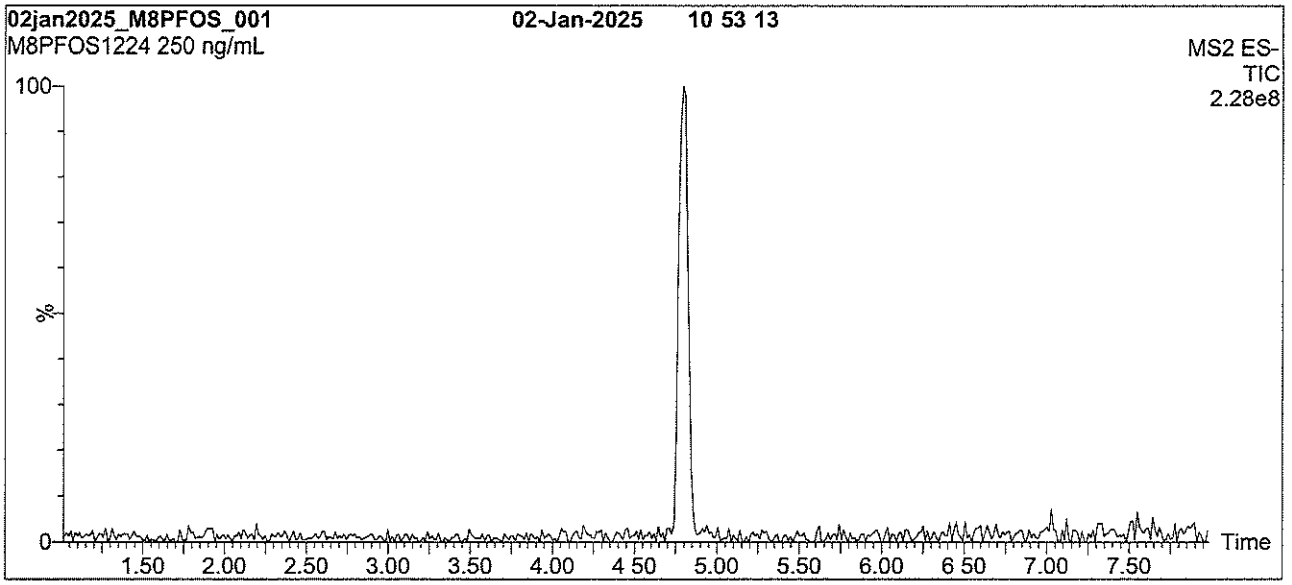
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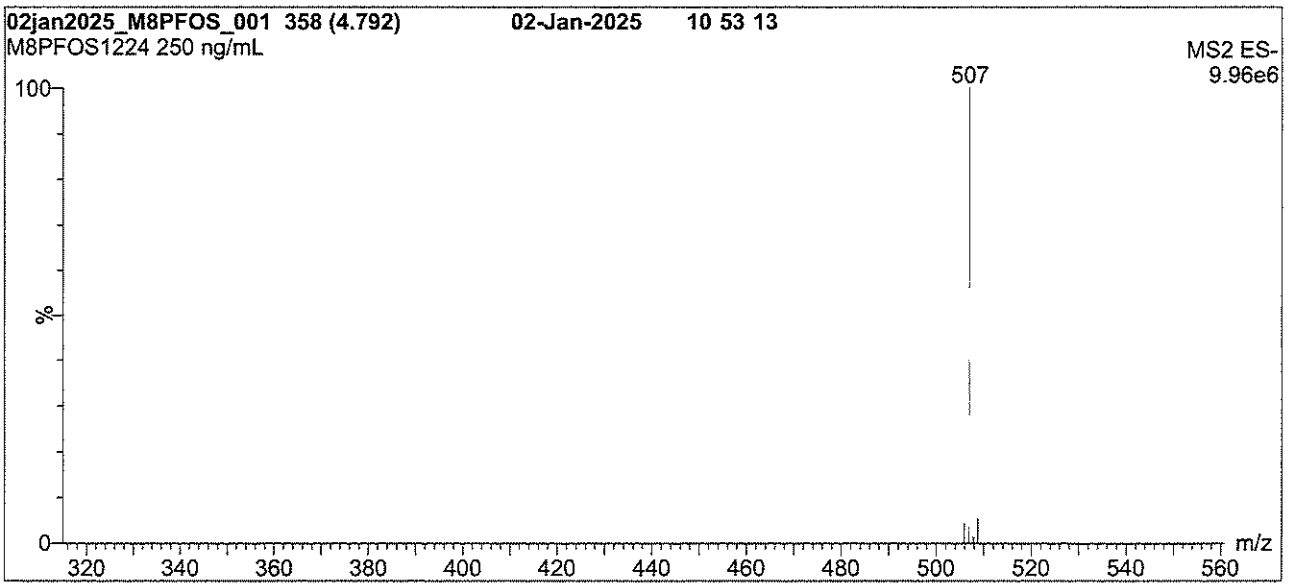
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1. **M8PFOS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column: Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

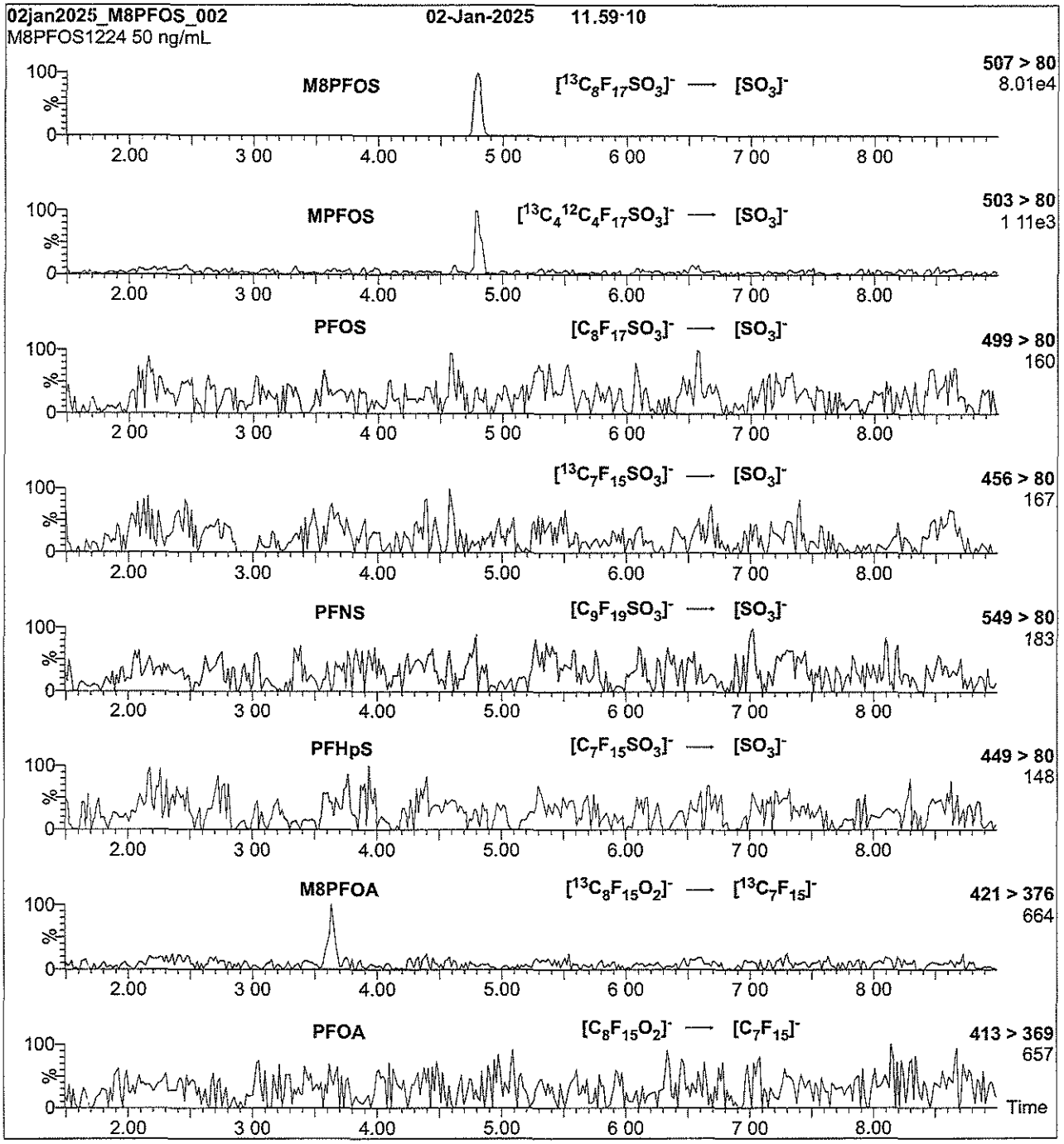
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10 00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M8PFOS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M8PFOS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.87e-3
Collision Energy (eV) = 64

Reagent

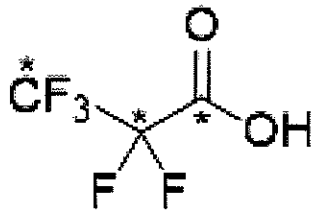
PFC_ST_05500

Cambridge Isotope Laboratories, Inc.
50 Frontage Road
Andover MA 01810 USA

410-8935808

Certificate of Analysis

Perfluoropropanoic acid (PFPrA) ($^{13}C_3$,99%) 50 µg/mL in MeOH w/4 molar equivalents NaOH



Catalog #:	CLM-11324-A-S
Batch #:	**B003784**
Chemical Formula.	*C3HF5O2
Molecular Weight:	167 01
Labeled CAS #:	NA
Unlabeled CAS #:	422-64-0
Manufacture Date:	4/9/2025
Retest Date:	4/8/2030

Storage: Store at room temperature away from light and moisture.
Intended Use: For Research Use Only Not for use in diagnostic procedures.

PFC_ST_ 04997, 05497, 5498, 5499, 5500

Quality Control Tests and Results

Test	Specification	Result
Concentration Based on Gravimetry	50 ± 5 µg/mL	50.0 ± 0.4 µg/mL, (k=2)

Certification

- Cambridge Isotope Laboratories, Inc. certifies that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible. Results are representative of QC testing at time of release from Quality Control unless otherwise stated. The COA also applies to the CIL finished good catalog number Some possible packaging sizes and their corresponding suffix are -1.2, -1, -0.5, -10, or -0 1 The expiration date is valid only for unopened vials or ampoules that have been stored as recommended. CIL Certificates of Analysis are occasionally updated with new data following recertification. We recommend checking the website for the latest version.
- Gravimetric concentrations are compensated for the measured Chemical Purity of the neat material. Gravimetry is traceable to the NIST through calibrated balances and certified, calibrated, standard weights. The calibrations are traceable to the SI through NIST The calibrations also meet specifications outlined in ISO 17034, ISO/IEC 17025, and applicable subdocuments.
- For compounds that are enriched at 2 or more sites within the molecule, the value given for isotopic enrichment will be different from the percent species abundance of the fully enriched molecule. To learn more about isotopic enrichment and species abundance, please visit https://isotope.com/en-us/enrichment.
- Concentration is verified through multiple analysis and is calculated as the average of the multiple analysis compared to an independently prepared calibration solution. The calculation and reporting of uncertainty conforms to the practices outlined in the Eurachem/CITAC Guide. "Quantifying Uncertainty in Analytical Measurement' , Second Edition.

Marina Klionsky
Quality Review

Date: 4/23/2025

Revision 1

Reagent

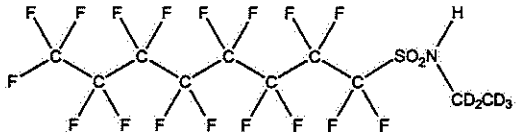
PFC_ST_05511

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PFC_ST_5511, 5512

PRODUCT CODE.	d-N-EtFOSA-M	**LOT NUMBER.**	dNEtFOSA1125M
COMPOUND.	N-Ethyl-d_5-perfluoro-1-octanesulfonamide		
STRUCTURE:		**CAS #:**	936109-40-9



410-8943837

MOLECULAR FORMULA:	$C_{10}D_5HF_{17}NO_2S$	**MOLECULAR WEIGHT:**	532.23
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED: (mm/dd/yyyy)	11/20/2025		
EXPIRY DATE. (mm/dd/yyyy)	11/20/2030		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 11/25/2025 (mm/dd/yyyy)

B.G. Chittim General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax· 519-822-2849 • info@well-labs.com

Form#:27 Issued 2004-11-10
Revision#:11, Revised 2025-05-26

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

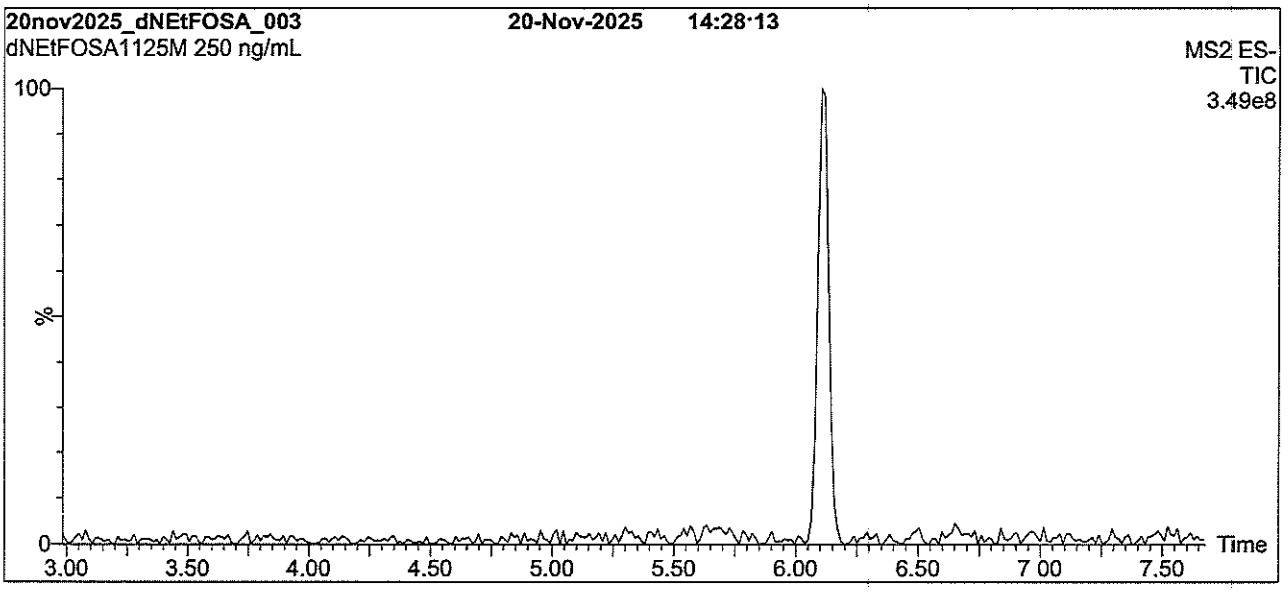
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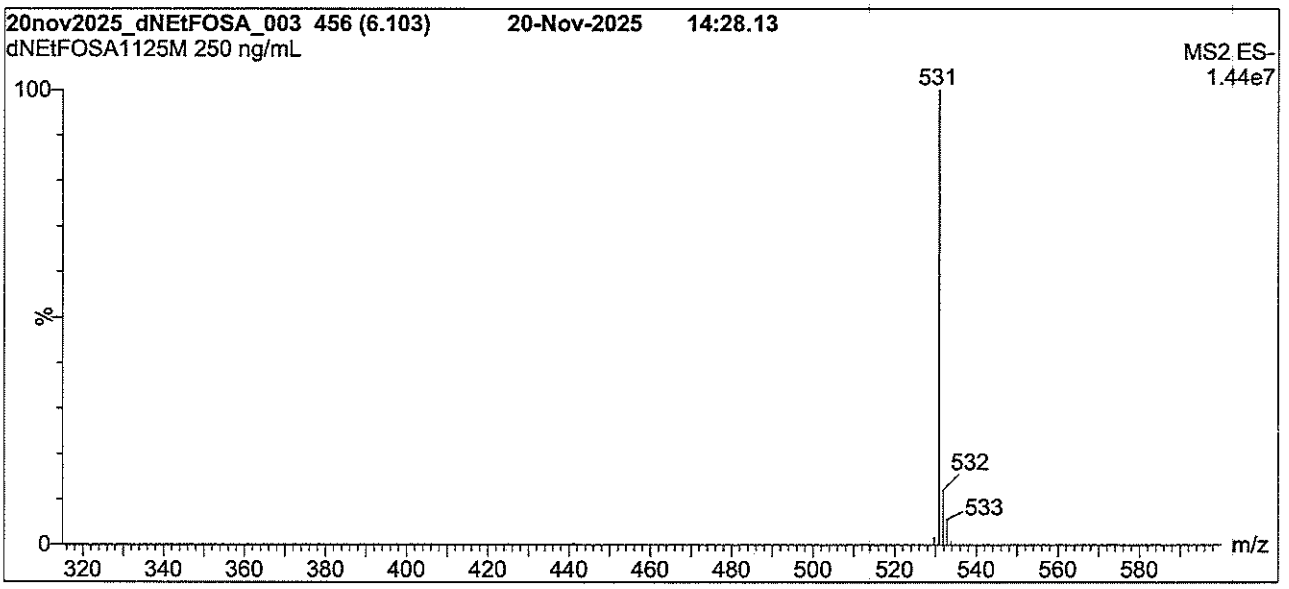
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **d-N-EtFOSA-M, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

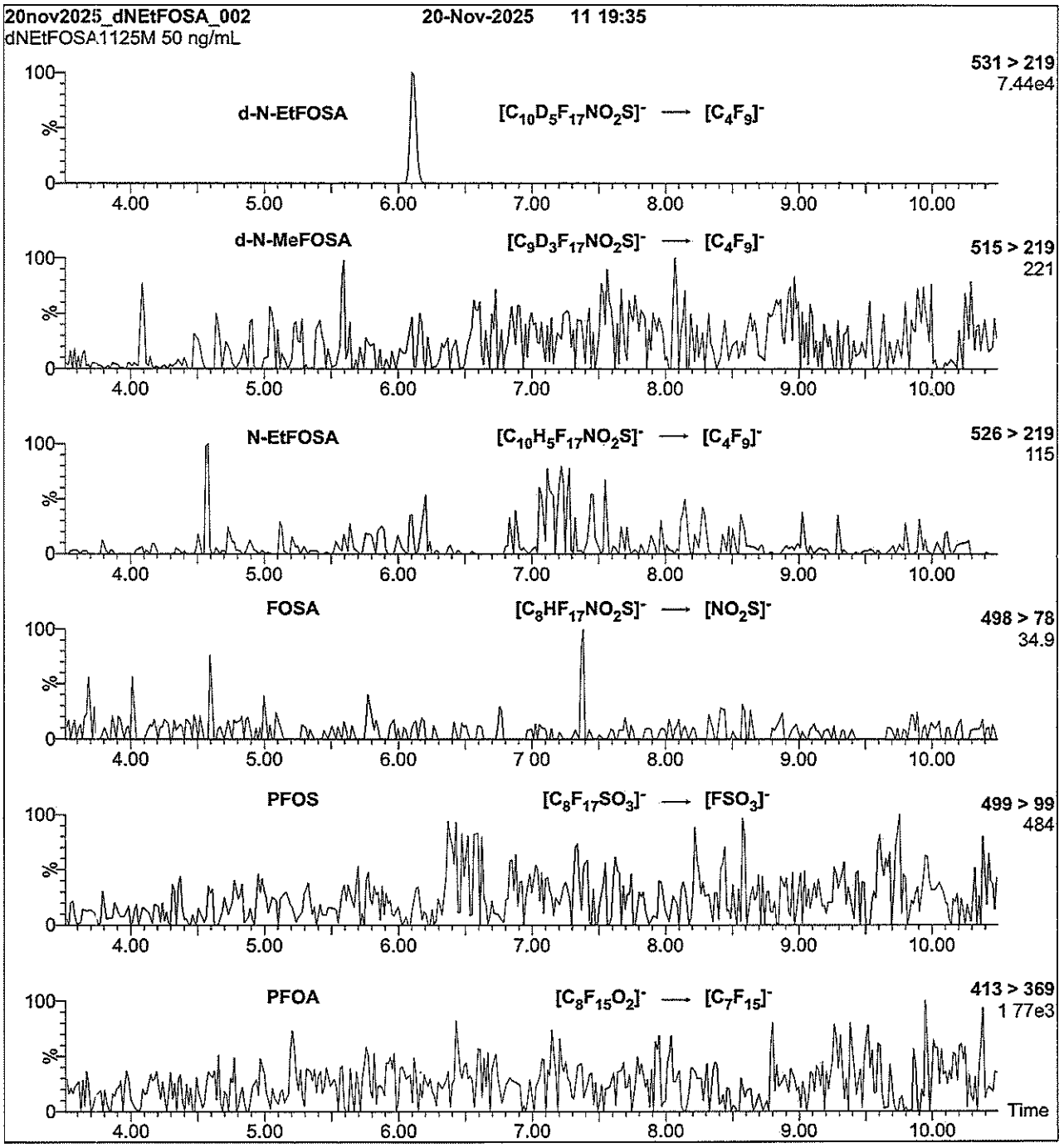
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 1.00
Cone Voltage (V) = 44.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **d-N-EtFOSA-M, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (d-N-EtFOSA-M)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.51e-3
Collision Energy (eV) = 24 (531 > 219)

Reagent

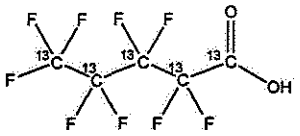
PFC_ST_05534

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-51 5531, 5532, 5533, 5534, 5535, 5536

PRODUCT CODE.	M5PFPeA	**LOT NUMBER.**	M5PFPeA0825
COMPOUND:	Perfluoro-n-($^{13}C_5$)pentanoic acid		
STRUCTURE.		**CAS #:**	2283397-79-3



410-8944104

MOLECULAR FORMULA:	$^{13}C_5HF_9O_2$	**MOLECULAR WEIGHT:**	269.01
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	08/28/2025		
EXPIRY DATE: (mm/dd/yyyy)	08/28/2030		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq of NaOH to prevent conversion of the carboxylic acid to the methyl ester

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date** 08/29/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. *Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out* in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, ..x_n on which it depends is:

$$u_c(y(x_1, x_2 \ ..x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

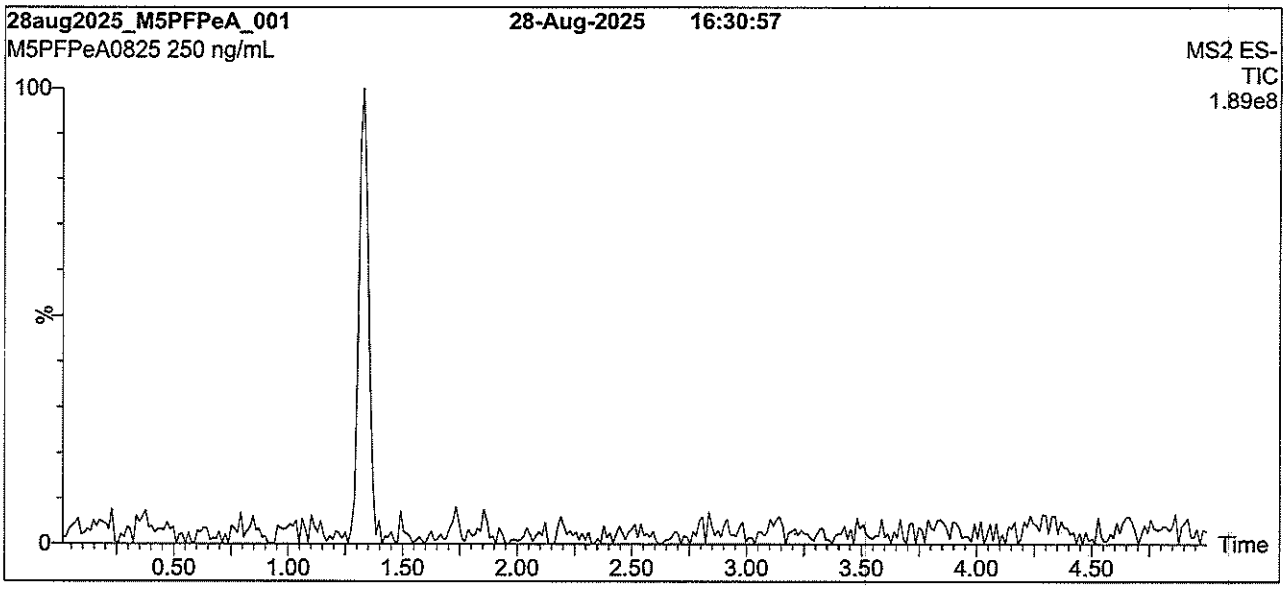
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB, AR-1523).

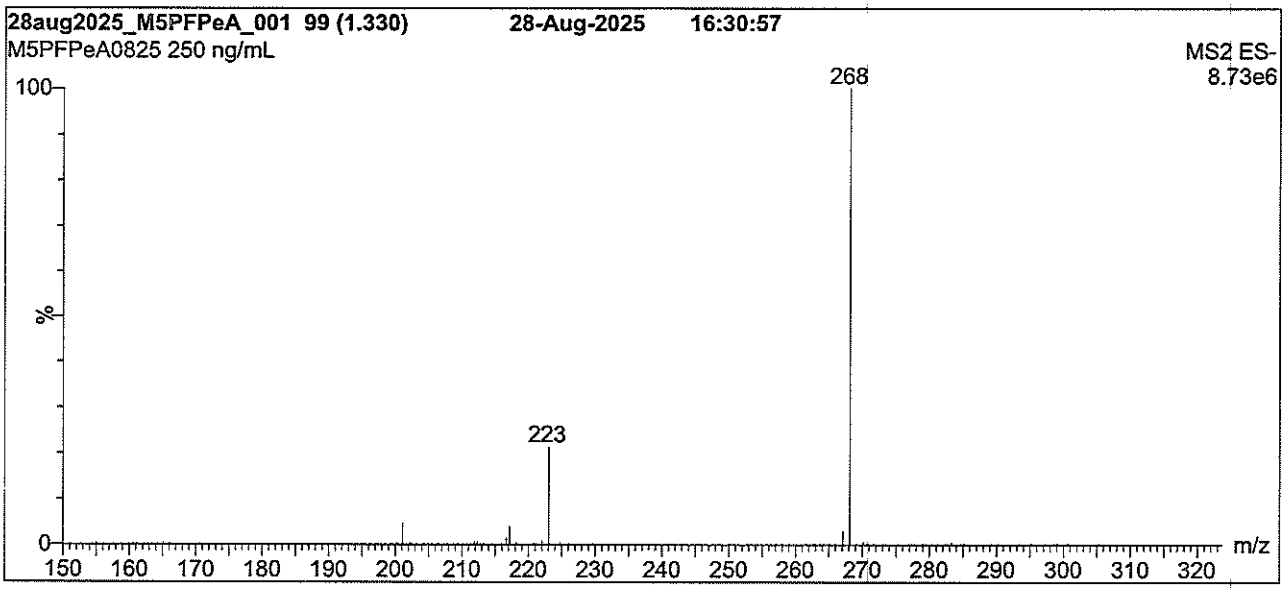
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc. please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **M5PFPeA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

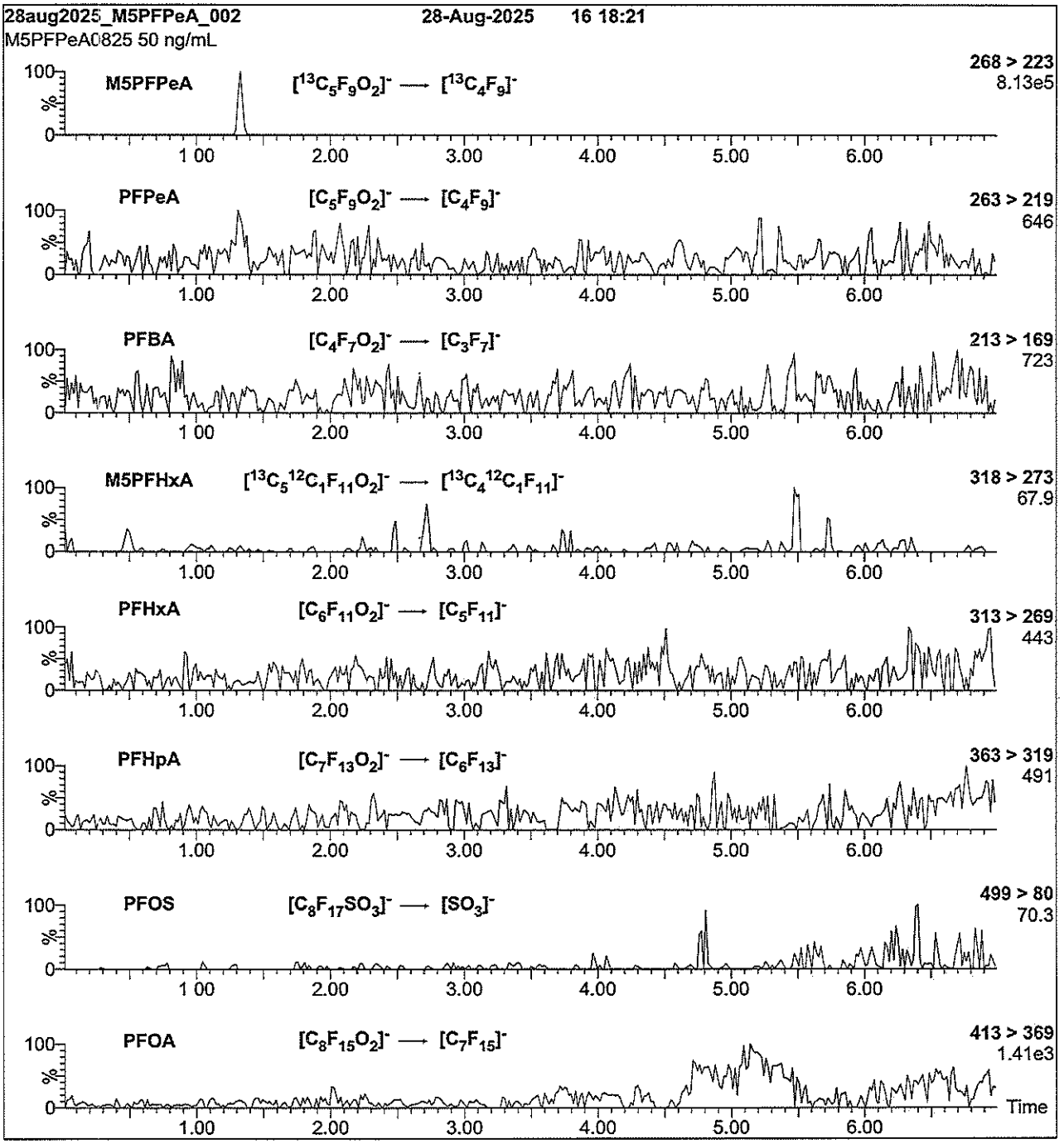
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M5PFPeA, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection:	On-column (M5PFPeA)
Mobile phase:	Same as Figure 1
Flow:	300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.64e-3
Collision Energy (eV) = 8 (268 > 223)

Reagent

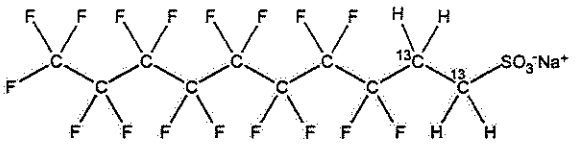
PFC_ST_05560

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_5552, 5558, 5559, 5560, 5561, 5562

PRODUCT CODE.	M2-8:2FTS	**LOT NUMBER:**	M282FTS0425
COMPOUND.	Sodium 1H 1H 2H 2H-perfluoro(1,2 $^{13}C_2$)decanesulfonate		
STRUCTURE.		**CAS #:**	2708218-90-8



410-8990555

MOLECULAR FORMULA.	$^{13}C_2{}^{12}C_8H_4F_{17}SO_3Na$	**MOLECULAR WEIGHT:**	552 15
CONCENTRATION.	50 0 ± 2.5 µg/mL (Na salt) 48 0 ± 2.4 µg/mL (M2-8:2FTS acid) 47.9 ± 2.4 µg/mL (M2-8:2FTS anion)	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED. (mm/dd/yyyy)	04/09/2025		
EXPIRY DATE. (mm/dd/yyyy)	04/09/2030		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1 LC/MS Data (Full Scan and Mass Spectrum)
Figure 2. LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION.

- See page 2 for further details
- The native 8:2FTS contains 4.22% of ^{34}S (due to natural isotopic abundance) therefore both native 8:2FTS and M2-8:2FTS will produce signals in the m/z 529 to m/z 509 channel during SRM analysis We recommend using the m/z 529 to m/z 81 transition to monitor for M2-8.2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 04/23/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE.

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HANDLING.

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION.

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS x-ray crystallography and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS and/or SFC/UV/MS The relative response factors of the analyte of interest in each solution are required to be <5% RSD New solution lots of existing products are compared to older lots in the same manner which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

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$$u_c(y(x_1\ x,\ \ .x_n)) = \sqrt{\sum_{=1}^{n} u(y\ x)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated of Class A tolerance and traceable to an ISO/IEC 17025 accredited laboratory For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

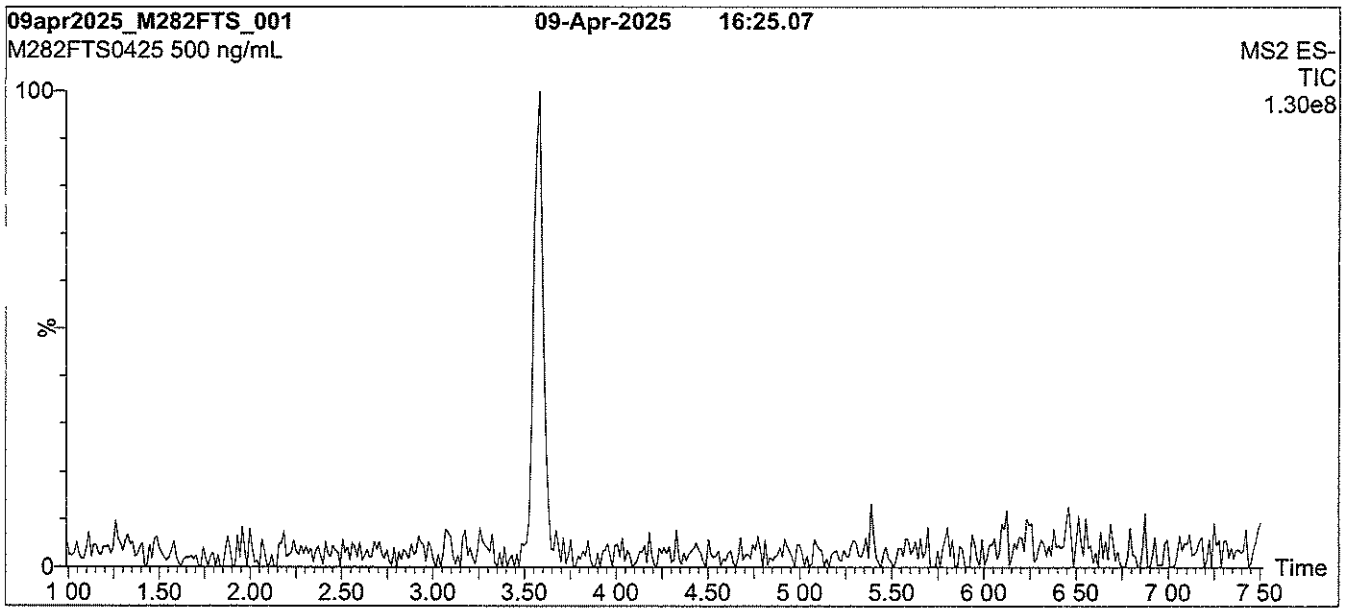
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB AR-1523).

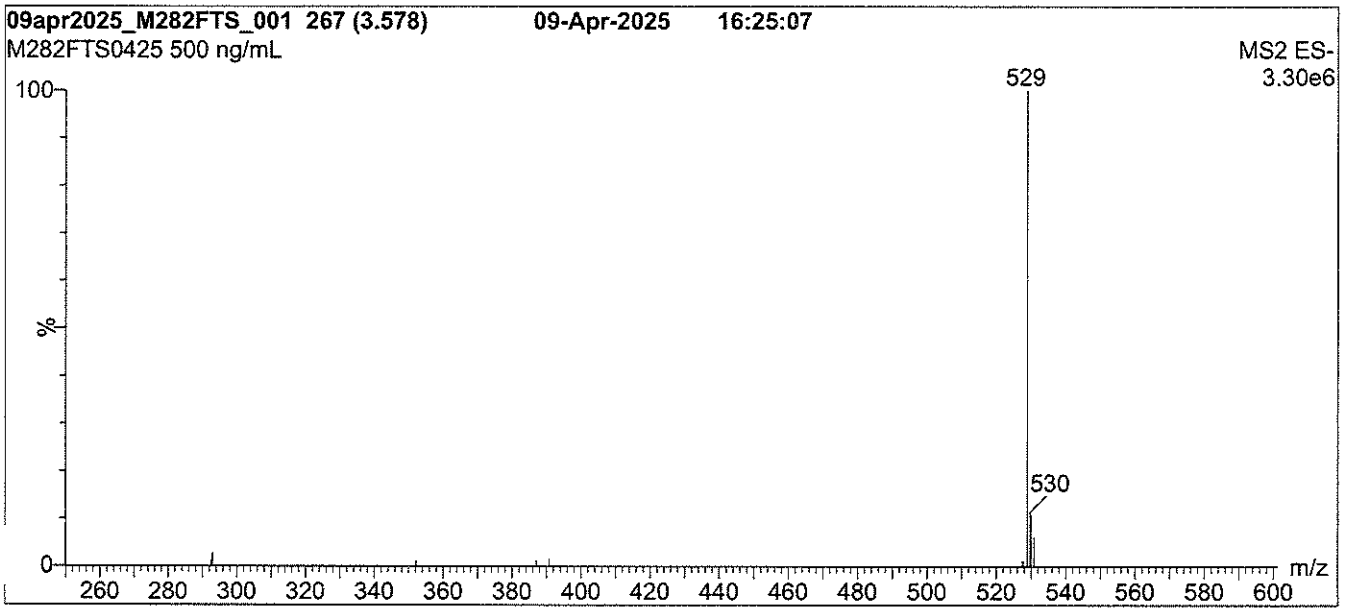
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1. **M2-8:2FTS, LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1.

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions.

Column. Acquity UPLC BEH Shield RP_{18}
1 7 µm 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH.ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min
Time: 12 min

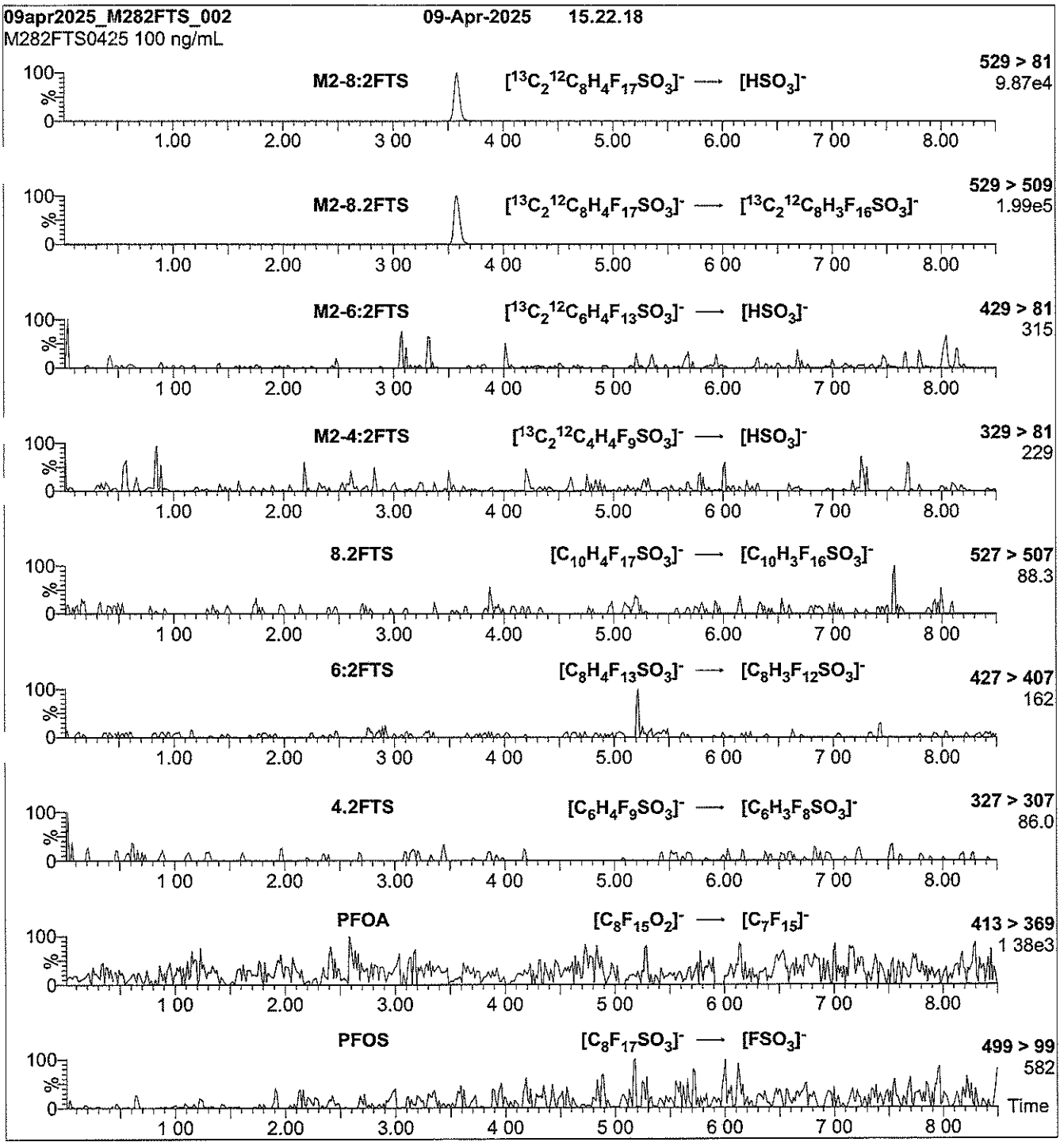
Flow: 300 µL/min

MS Parameters.

Experiment: Full Scan (250 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2. **M2-8:2FTS, LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M2-8:2FTS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 5.91e-3
Collision Energy (eV) = 26

Reagent

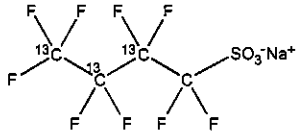
PFC_ST_05583

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFCST 5572 -> 5585

PRODUCT CODE:	M3PFBS	**LOT NUMBER:**	M3PFBS0825
COMPOUND:	Sodium perfluoro-1-(2,3,4-$^{13}C_3$)butanesulfonate		
STRUCTURE:		**CAS #:**	2708218-84-0



MOLECULAR FORMULA:	$^{13}C_3{}^{12}CF_9SO_3Na$	**MOLECULAR WEIGHT:**	325.06
CONCENTRATION:	50.0 ± 2.5 µg/mL (Na salt) 46.6 ± 2.3 µg/mL (M3PFBS acid) 46.5 ± 2.3 µg/mL (M3PFBS anion)	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	08/21/2025		
EXPIRY DATE: (mm/dd/yyyy)	08/21/2030		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 09/03/2025
(mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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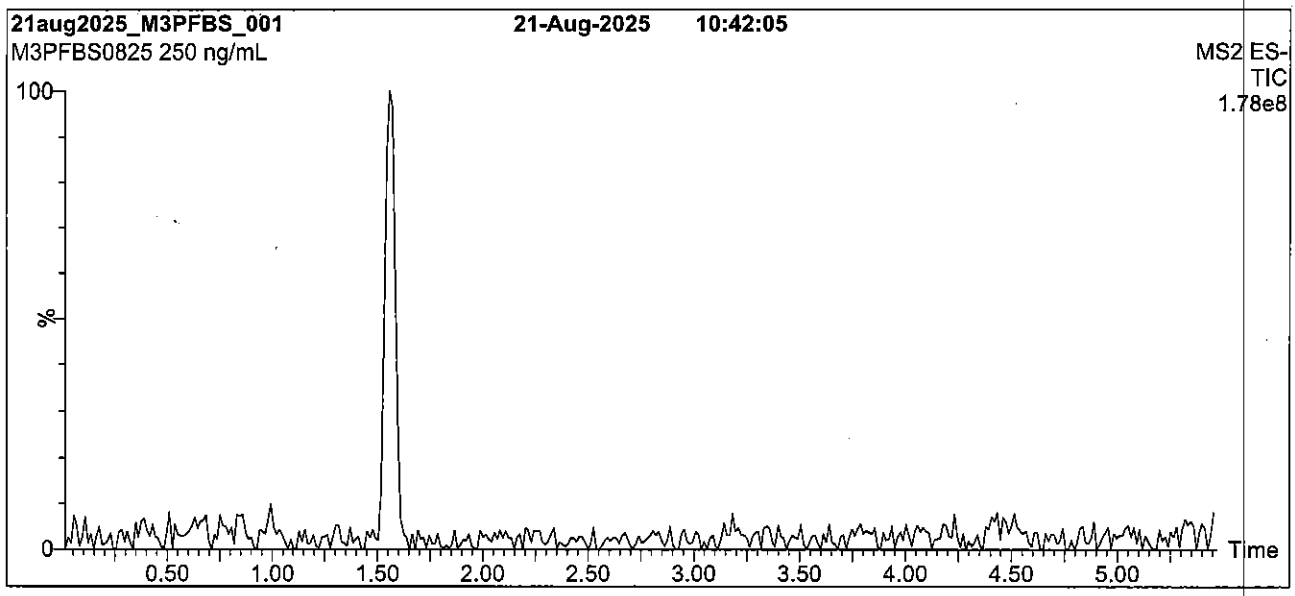
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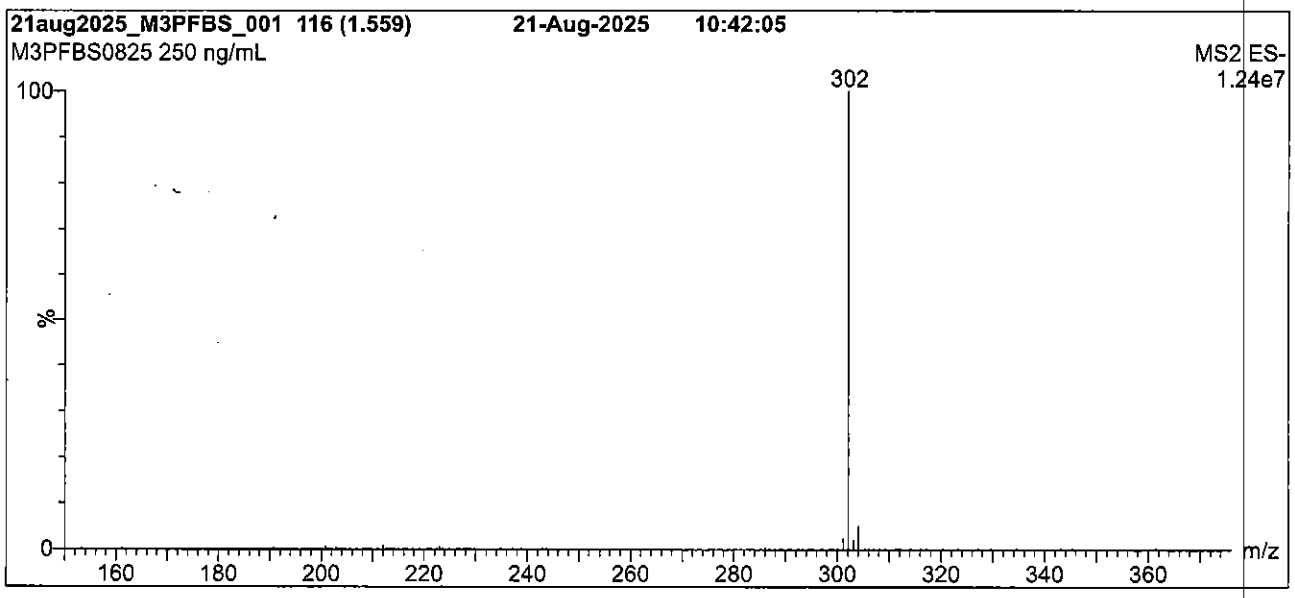
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **M3PFBS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0.5 min.
Time: 12 min

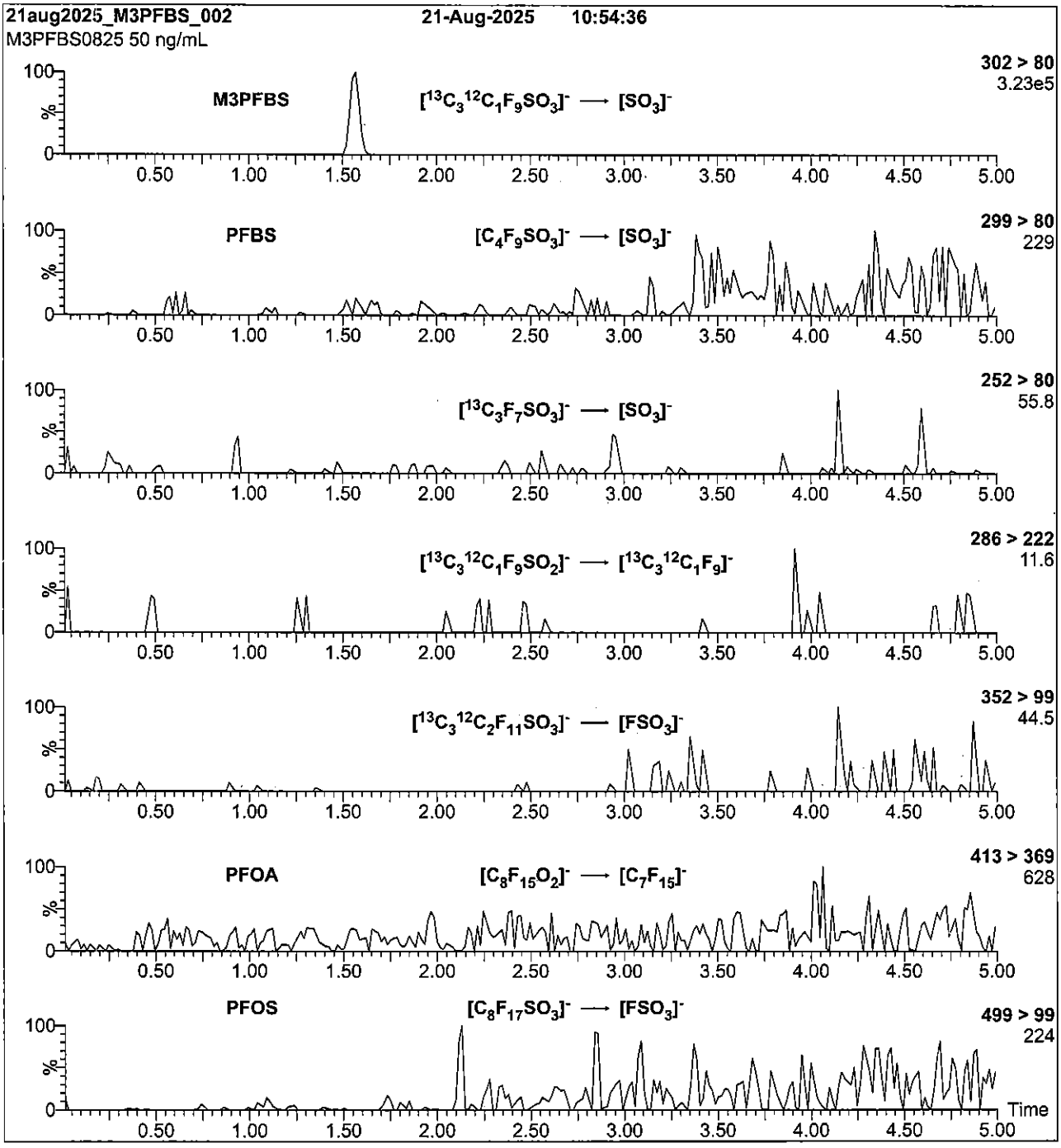
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **M3PFBS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M3PFBS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 30 (302 > 80)

Reagent

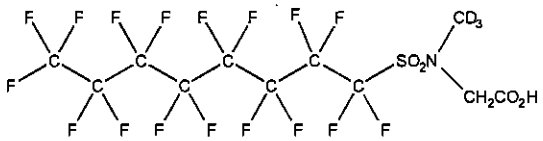
PFC_ST_05590

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_5586 → 5605

PRODUCT CODE:	d3-N-MeFOSAA	**LOT NUMBER:**	d3NMeFOSAA0925
COMPOUND:	N-Methyl-d_3-perfluoro-1-octanesulfonamidoacetic acid		
STRUCTURE:		**CAS #:**	1400690-70-1



MOLECULAR FORMULA:	$C_{11}D_3H_3F_{17}NO_4S$	**MOLECULAR WEIGHT:**	574.23
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED: (mm/dd/yyyy)	09/08/2025		
EXPIRY DATE: (mm/dd/yyyy)	09/08/2030		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester.
- Contains ~0.2% of a branched isomer of d3-N-MeFOSAA.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 10/08/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

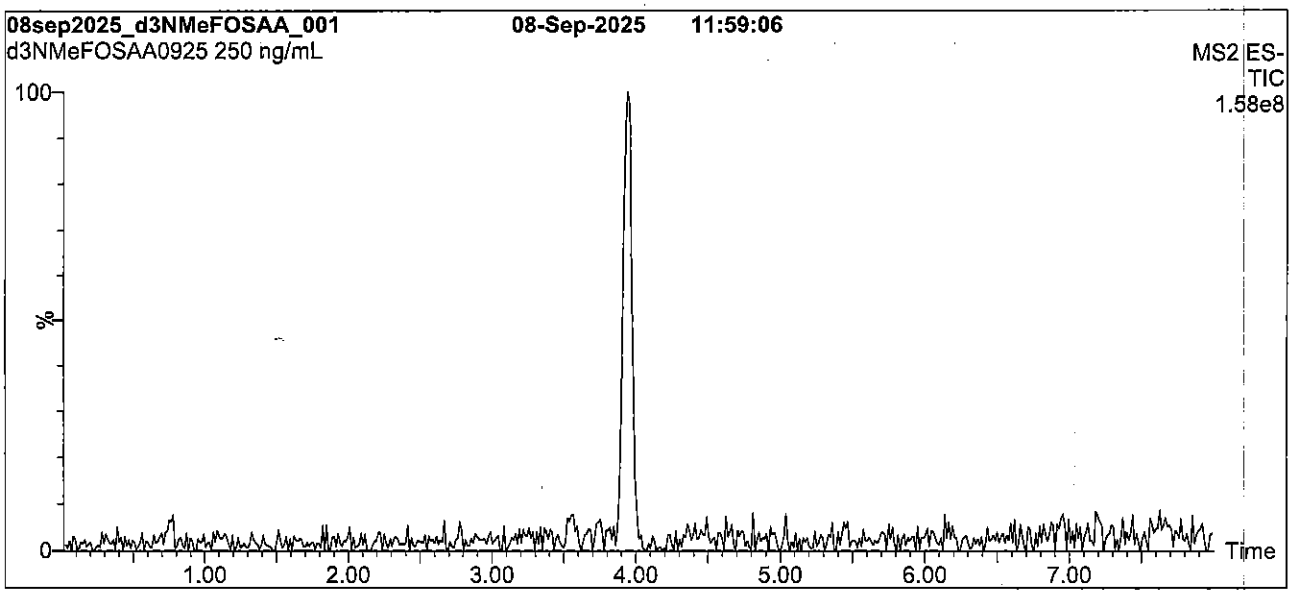
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

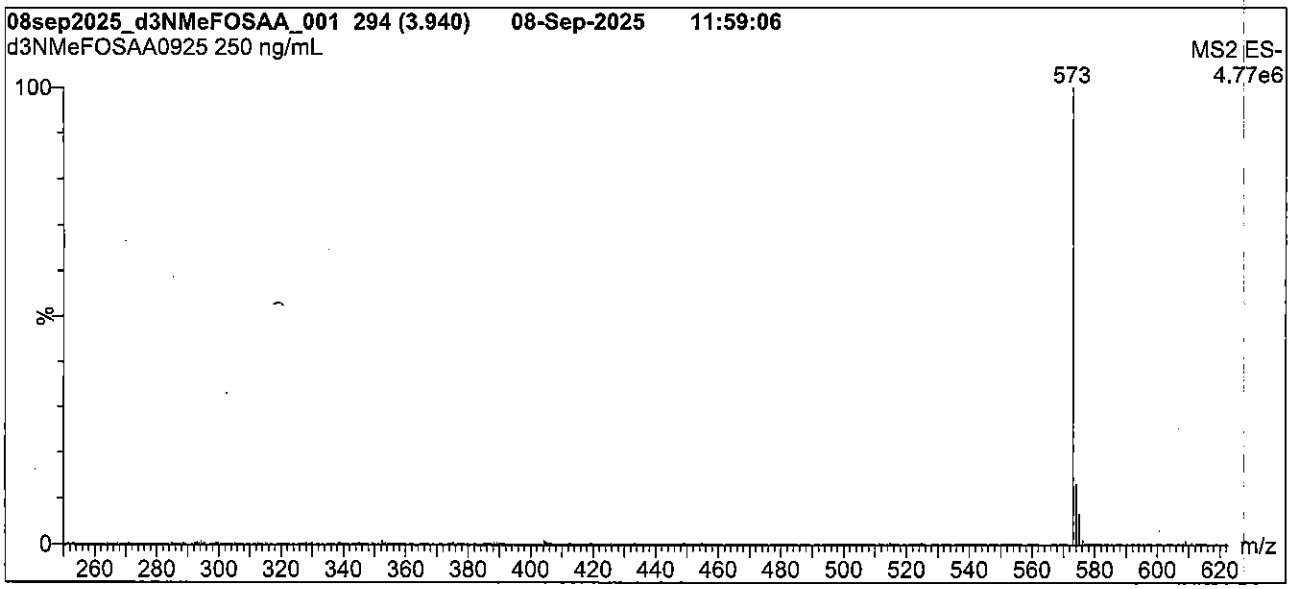
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **d3-N-MeFOSAA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

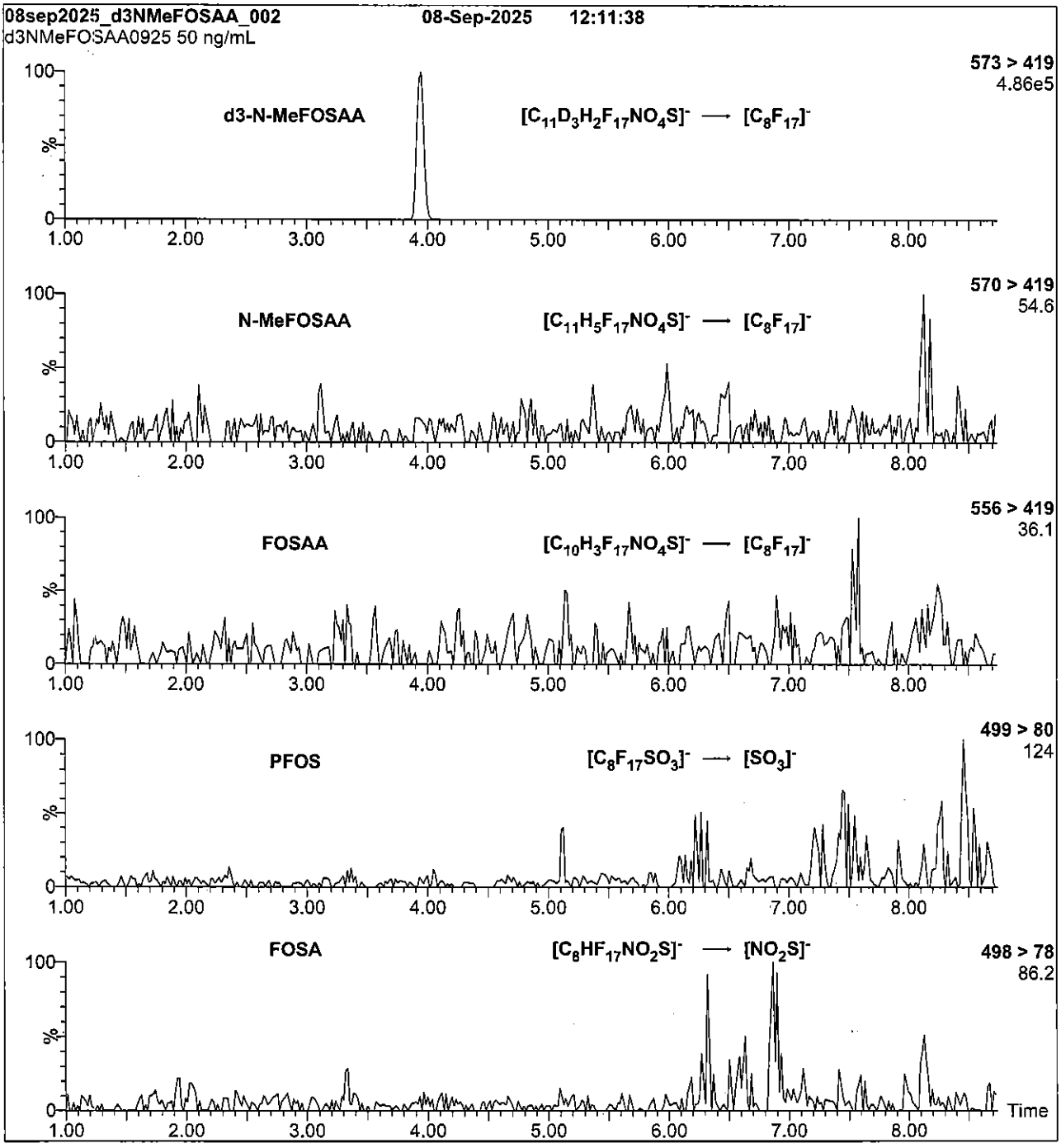
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **d3-N-MeFOSAA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (d3-N-MeFOSAA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.47e-3
Collision Energy (eV) = 18 (573 > 419)

Reagent

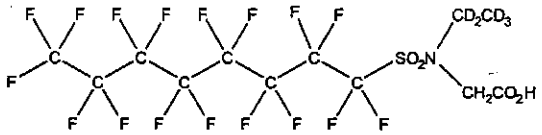
PFC_ST_05614

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_5606 → 5624

PRODUCT CODE:	d5-N-EtFOSAA	**LOT NUMBER:**	d5NEtFOSAA0525
COMPOUND:	N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid		
STRUCTURE:		**CAS #:**	1265205-97-7



MOLECULAR FORMULA:	$C_{12}D_5H_3F_{17}NO_4S$	**MOLECULAR WEIGHT:**	590.26
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol Water (<1%)
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H (D)
LAST TESTED: (mm/dd/yyyy)	06/05/2025		
EXPIRY DATE: (mm/dd/yyyy)	06/05/2030		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 06/09/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

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HANDLING:

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SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

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UNCERTAINTY:

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$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

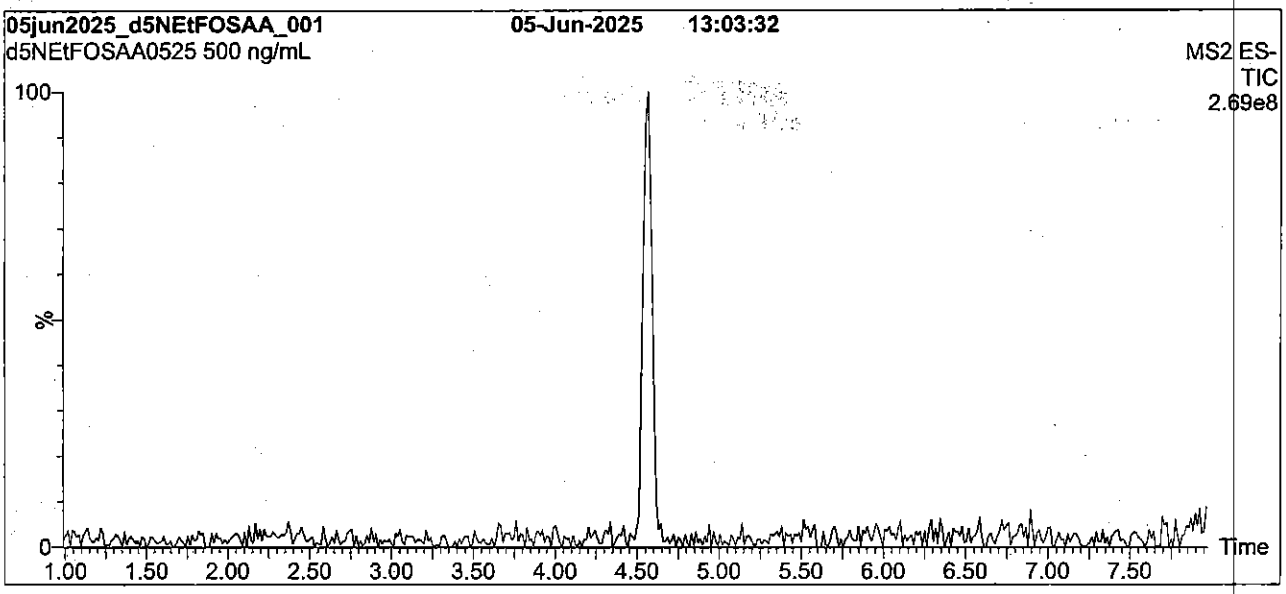
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

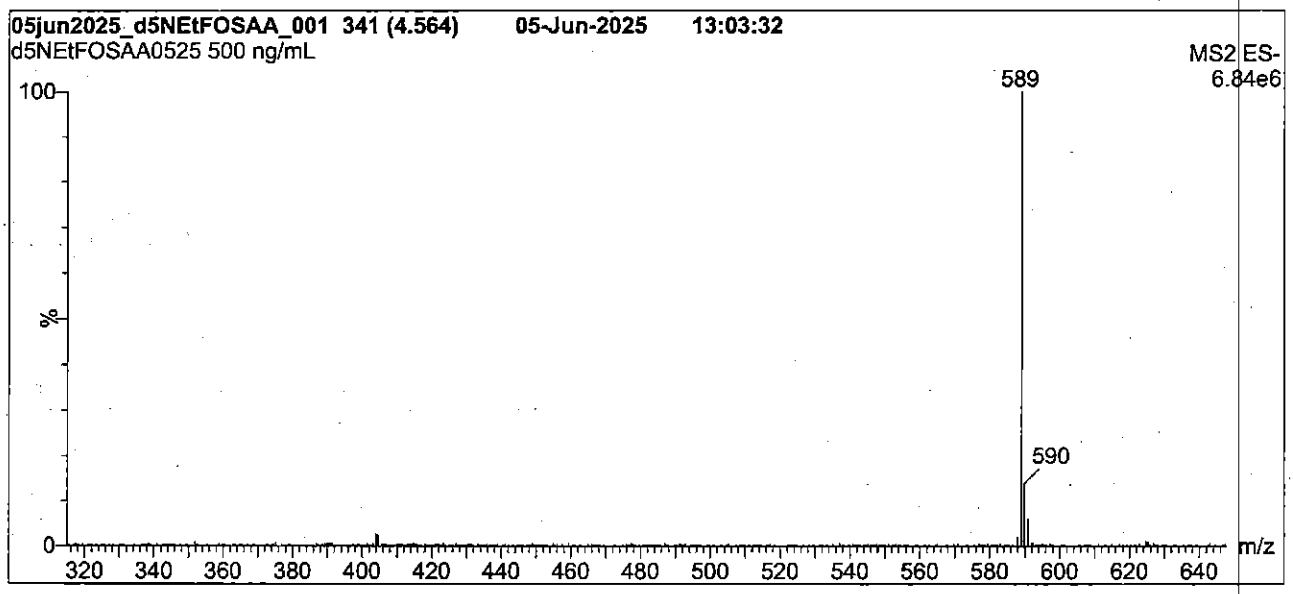
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

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Figure 1: **d5-N-EtFOSAA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% H_2O / 60% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

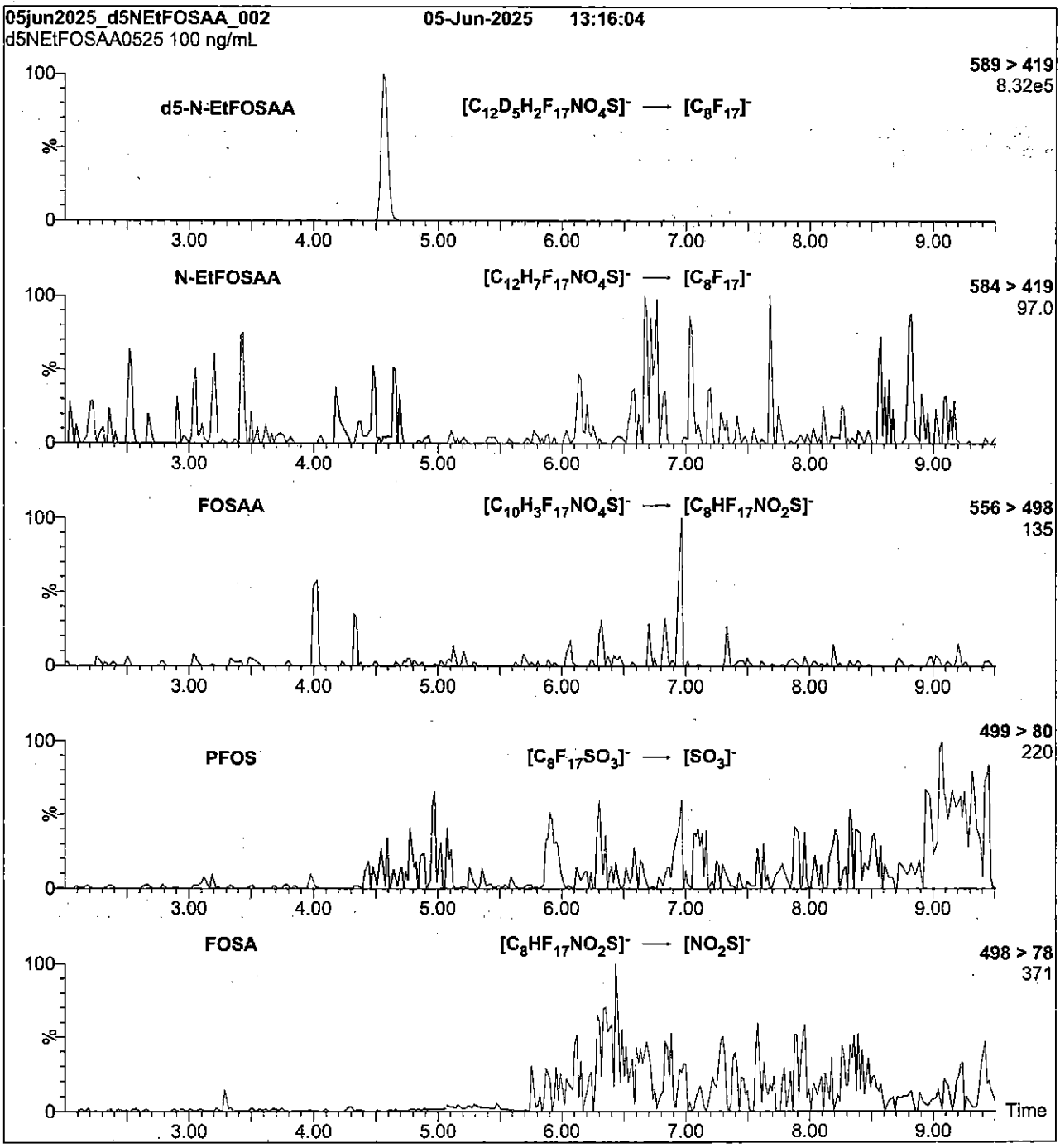
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **d5-N-EtFOSAA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (d5-N-EtFOSAA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.76e-3
Collision Energy (eV) = 18

Reagent

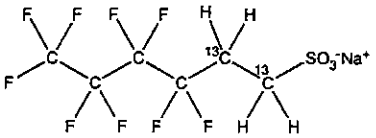
PFC_ST_05643

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PFC_ST- SG25 → SG44

PRODUCT CODE:	M2-4:2FTS	**LOT NUMBER:**	M242FTS1225
COMPOUND:	Sodium 1H,1H,2H,2H-perfluoro(1,2-$^{13}C_2$)hexanesulfonate ($^{13}C_2$-4:2 FTS)		
STRUCTURE:		**CAS #:**	2708218-88-4



MOLECULAR FORMULA:	$^{13}C_2{}^{12}C_4H_4F_9SO_3Na$	**MOLECULAR WEIGHT:**	352.12
CONCENTRATION:	50.0 ± 2.5 µg/mL (Na salt) 46.9 ± 2.3 µg/mL (M2-4:2FTS acid) 46.7 ± 2.3 µg/mL (M2-4:2FTS anion)	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	12/22/2025		
EXPIRY DATE: (mm/dd/yyyy)	12/22/2030		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- It is known that elevated concentrations of 4:2FTS will contribute to the response of the m/z 329 > 309 MRM transition of M2-4:2FTS due to the natural abundance of ^{34}S (~4.2% relative to ^{32}S) in the native compound. Therefore, use of the alternative product ion (m/z 81 [$^{32}SO_3H$]$^-$) is recommended. The analogous transition for the ^{34}S native analyte would produce m/z 83 [$^{34}SO_3H$]$^-$ from the same nominal mass precursor ion thereby eliminating the potential interference.
- Contains ≤0.5% of sodium 1H,2H-perfluoro-1-(1,2-$^{13}C_2$)hexenesulfonate by ^{19}F NMR.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 12/22/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

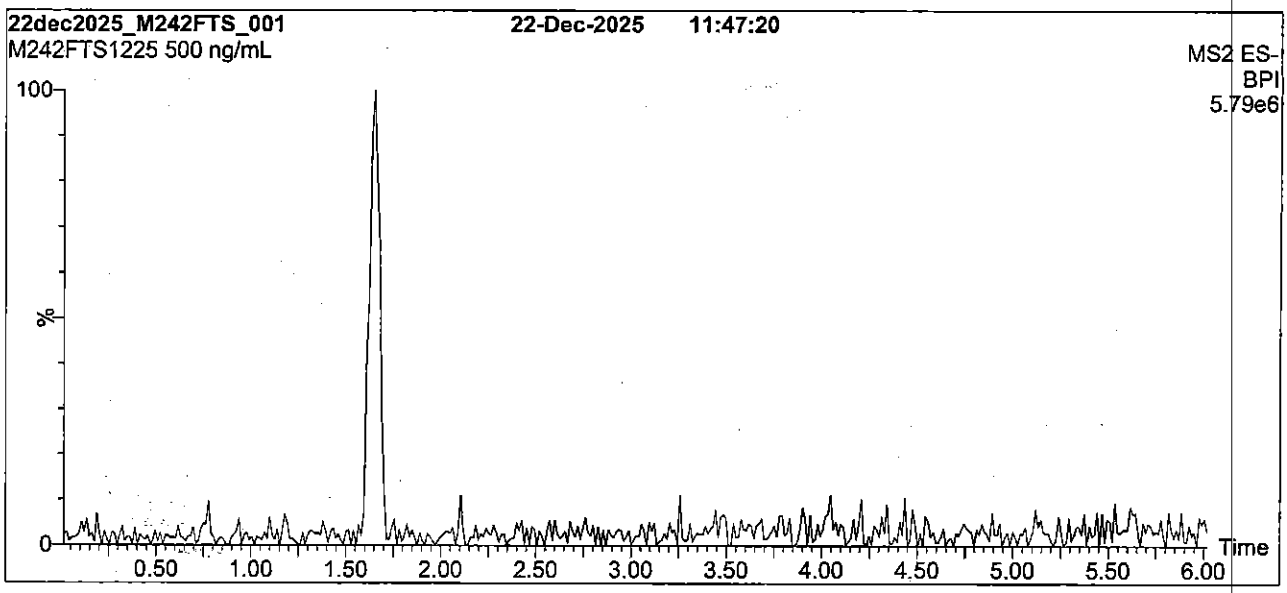
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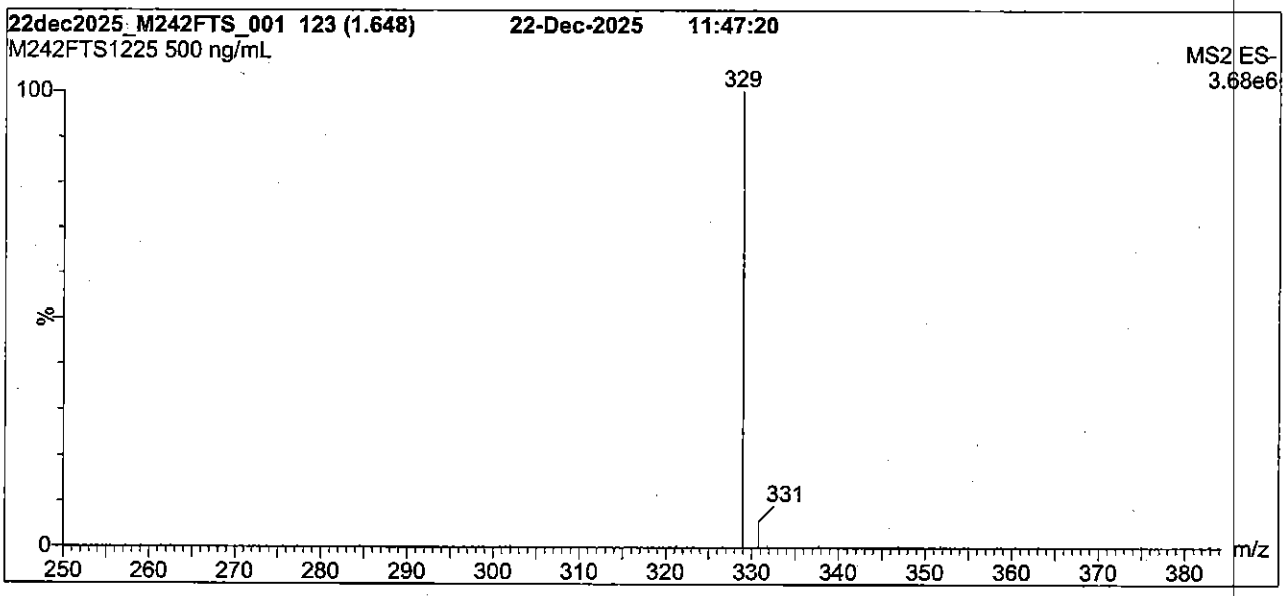
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED Testing REFERENCE MATERIAL PRODUCER

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Figure 1: **M2-4:2FTS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

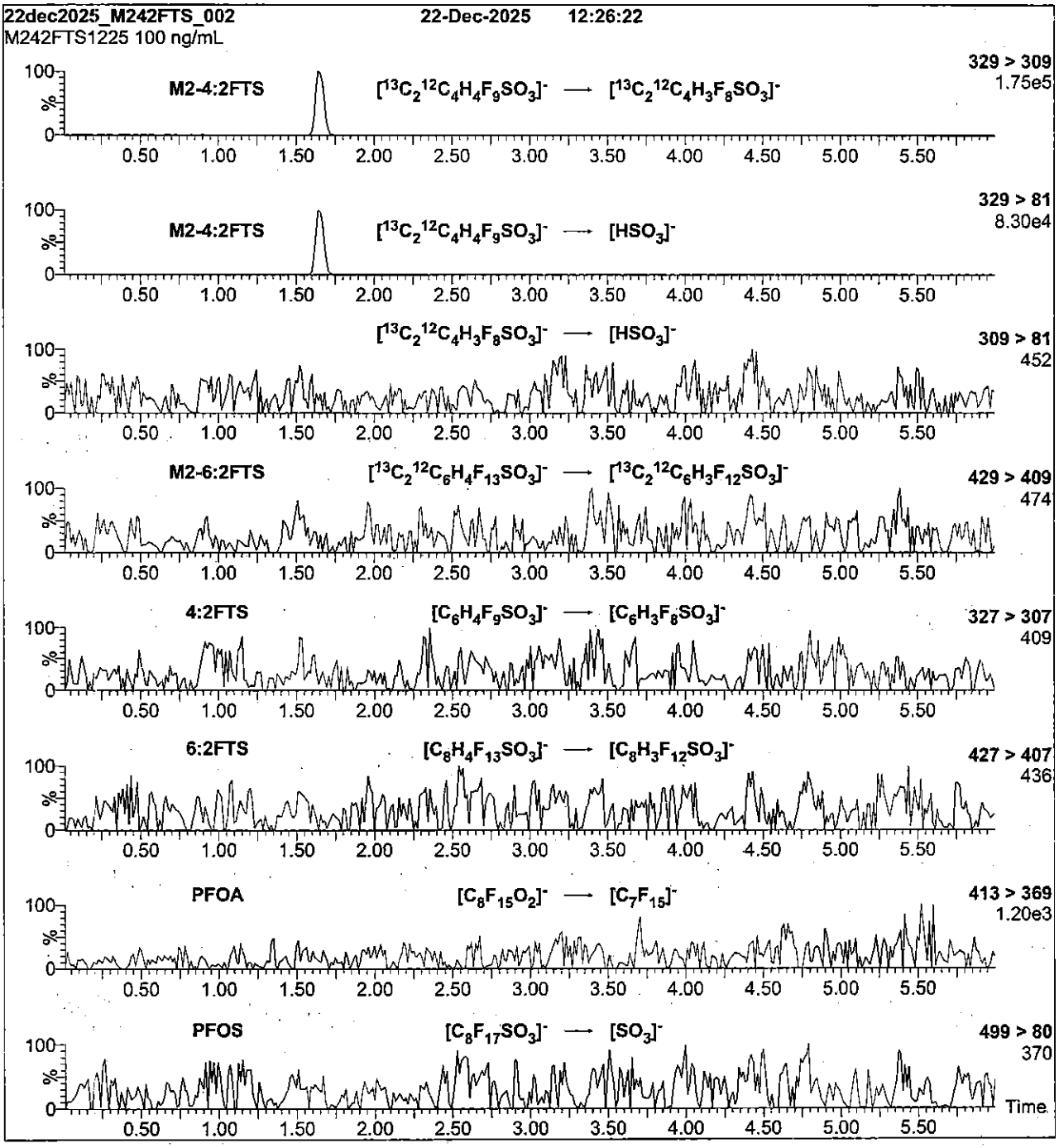
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **M2-4:2FTS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M2-4:2FTS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.59e-3
Collision Energy (eV) = 18 (329 > 309)

Reagent

PFC_ST_05701

WELLINGTON LABORATORIES

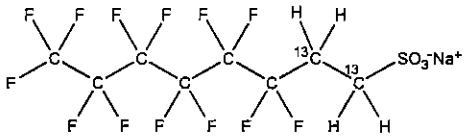
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC_ST_ 5700 → 5719

PRODUCT CODE: M2-6:2FTS **LOT NUMBER:** M262FTS1125

COMPOUND: Sodium 1H,1H,2H,2H-perfluoro(1,2-$^{13}C_2$)octanesulfonate

STRUCTURE: **CAS #:** 2708218-89-5



MOLECULAR FORMULA:	$^{13}C_2{}^{12}C_6H_4F_{13}SO_3Na$	**MOLECULAR WEIGHT:**	452.13
CONCENTRATION:	50.0 ± 2.5 µg/mL (Na salt)	**SOLVENT(S):**	Methanol
	47.6 ± 2.4 µg/mL (M2-6:2FTS acid)		
	47.5 ± 2.4 µg/mL (M2-6:2FTS anion)		
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	11/11/2025		
EXPIRY DATE: (mm/dd/yyyy)	11/11/2030		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- It is known that elevated concentrations of 6:2FTS will contribute to the response of the 429 > 409 MRM transition of M2-6:2FTS due to the natural abundance of the ^{34}S (~4.2% relative to ^{32}S) in the native compound. Therefore, use of the alternative product ion (m/z 81 $[^{32}SO_3H]^-$) is recommended. The analagous transition for the ^{34}S native analyte would produce m/z 83 $[^{34}SO_3H]^-$ from the same nominal mass precursor ion thereby eliminating the potential interference.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 11/17/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

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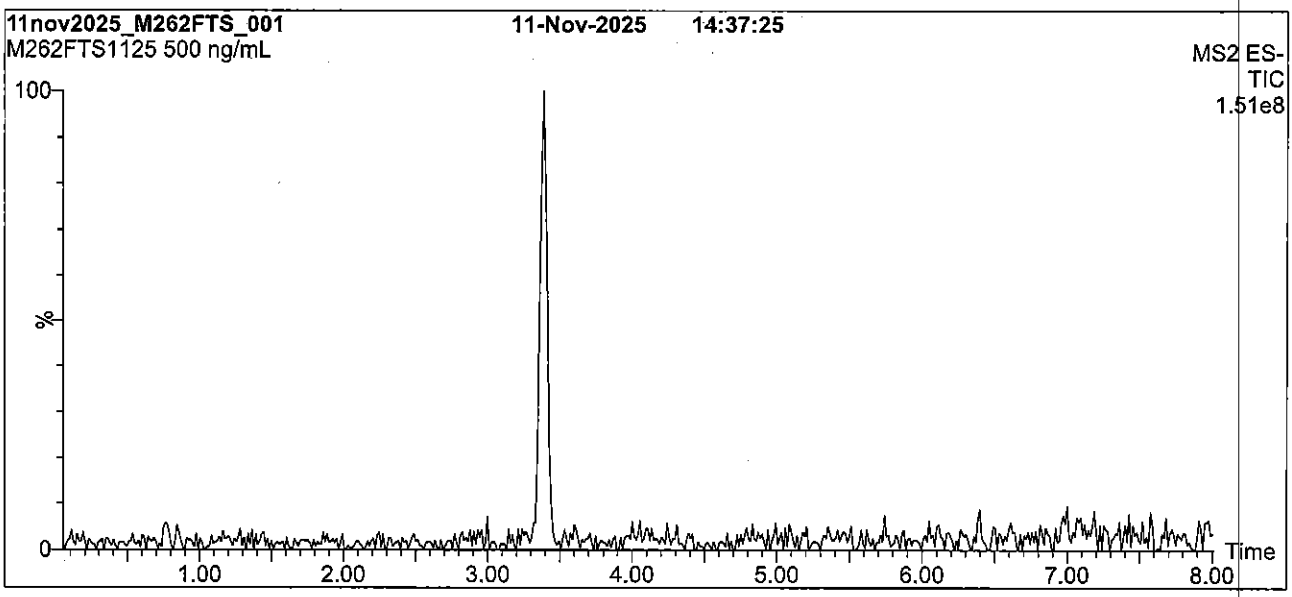
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

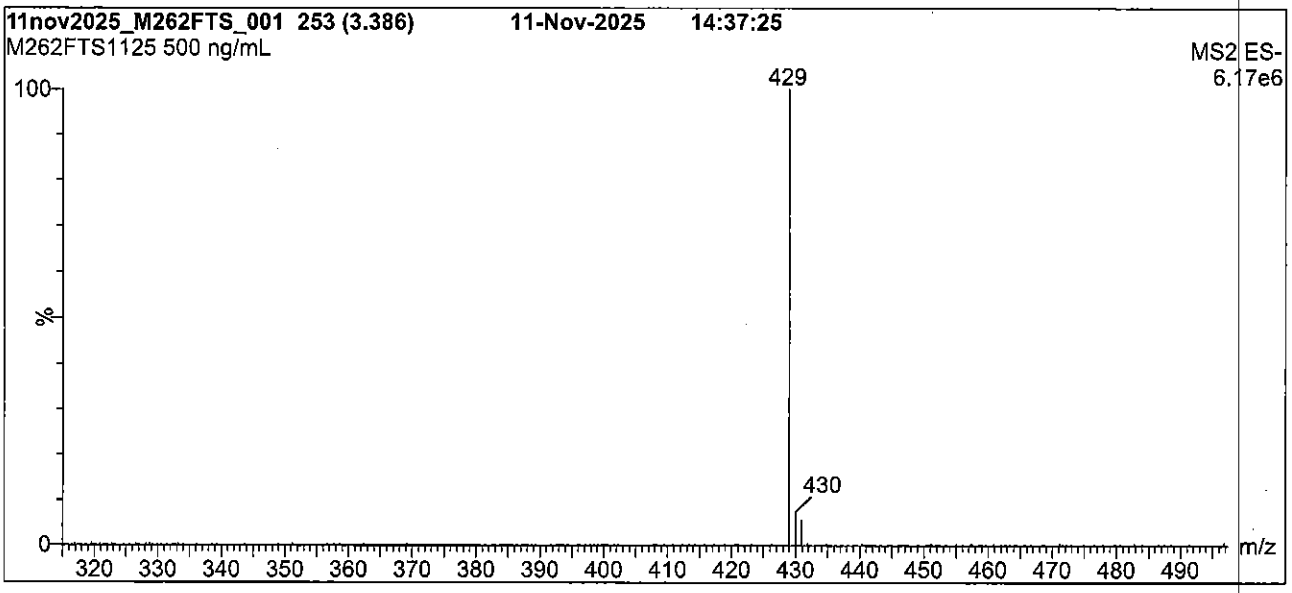
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Figure 1: **M2-6:2FTS; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

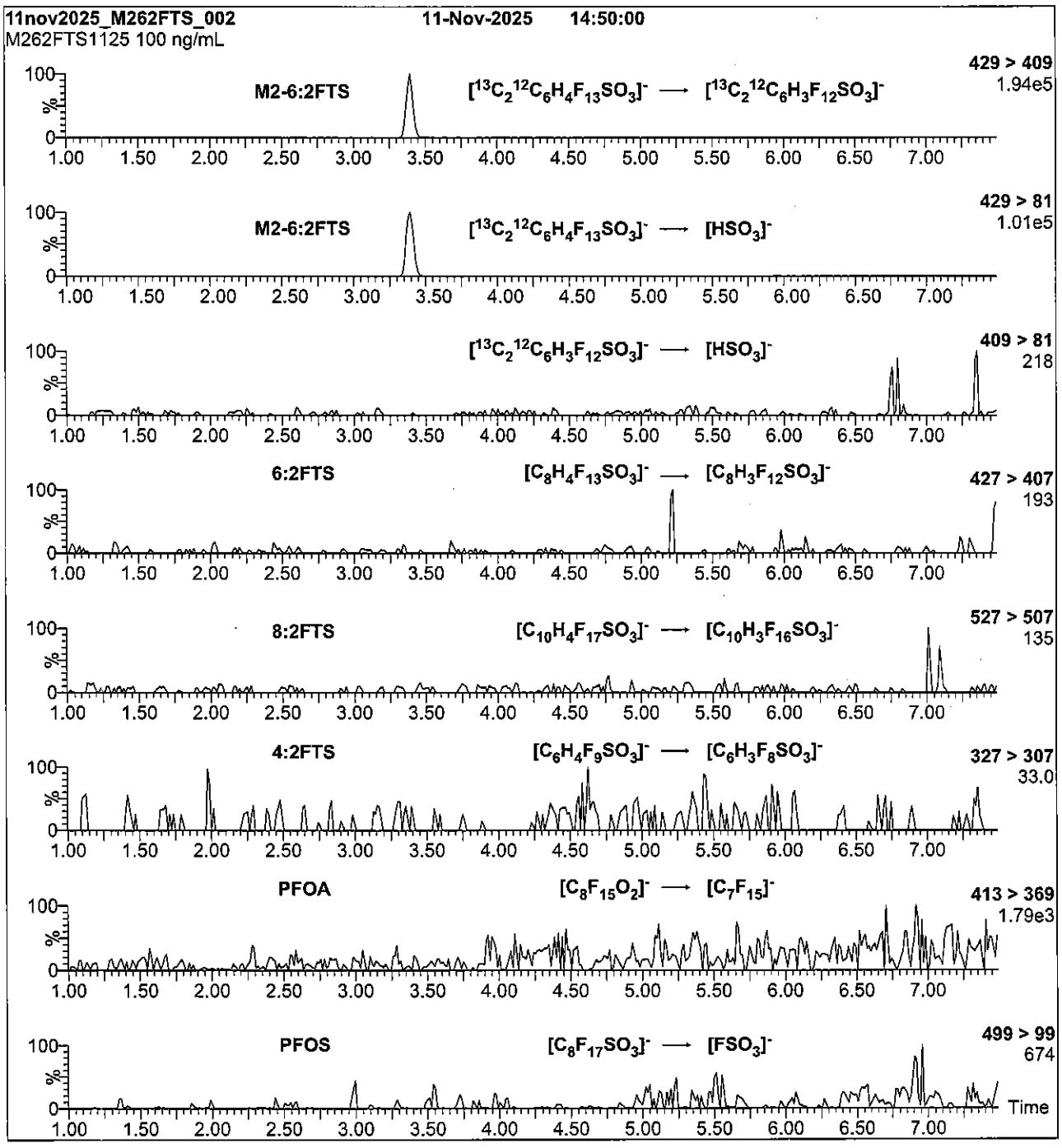
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **M2-6:2FTS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M2-6:2FTS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 4.70e-3
Collision Energy (eV) = 20 (429 > 409)

Reagent

PFC_ST_05740

LGC | DR EHRENSTORFER™

REFERENCE MATERIAL CERTIFICATE ISO 17034

Certified Reference Material

This certificate is designed in accordance with ISO 17034 and ISO Guide 31. This certified reference material (CRM) was designed, produced and verified in accordance with ISO/IEC 17025, ISO 17034 and a registered quality management system ISO 9001.

Product Name
Perfluorododecanesulfonic acid 13C3 (1,2,3-13C3) sodium 50 µg/mL in Methanol:Water

Product Code
DRE-A15986645MW-50

CAS No.

Mol. Weight
725.12

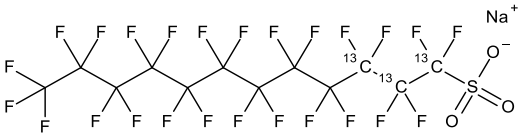
Mol. Formula
$^{13}C_3C_9F_{25}O_3S \cdot Na$

Lot Number
1-H1536184MW

Format
Solution

Expiry Date
17 Aug 2026

Storage Temp
-18°C ± 4°C



CERTIFIED	CERTIFIED
Concentration 49.96 µg/mL	Expanded Uncertainty (U) 4.05 µg/mL

Uncertainty
The certified value(s) and uncertainty(ies) are determined in accordance with ISO 17034 with an 95% confidence level (k=2). Uncertainty is based on the Total Combined Uncertainty, including uncertainties of preparation, purity of neat materials, homogeneity and stability testing. Stability values are based on real evidence opposed to simulation.

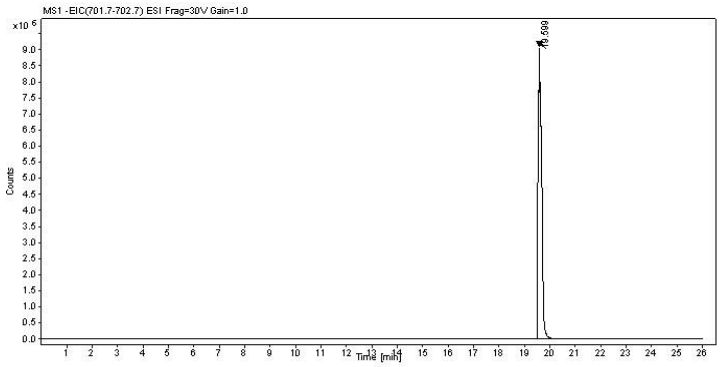
The producer certifies that this certified reference material meets the specification stated in this certificate until the expiry date, provided it is stored unopened at the recommended temperature herein. Product warranties for this certified reference material are set out in the terms and conditions of purchase.

CERTIFIED BY	CERTIFIED ON		
L. Messerschmid	17 Feb 2025	L. Messerschmid	RM Release

LGC | DR EHRENSTORFER™

REFERENCE MATERIAL CERTIFICATE ISO 17034

CHROMATOGRAM



Signal:	MS1 -EIC(701.7-702.7) ESI Frag=30V Gain=1.0			
Nr.	RT [min]	Area	Height	Area%
1	19.60	86623448.38539	9065685.67	100.00

Instrument
HPLC/DAD+MS

Column
Synergi Polar-RP 4 µm 250 x 4.6 mm

Method Details
Eluent A: 100% Acetonitrile
Eluent B: Water + Formic Acid

Time [min]	Eluent A [%]	Eluent B [%]
0	10	90
1	10	90
21	98	2
25	98	2

Flow
0.5 mL/min

Method of Preparation
The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by the appropriate analytical techniques.

Batch Information
Solvent: Methanol, Lot No. V2N046033A10 / Water, Lot No. O044004, 96:4, 40.00 mL.
Concentration calculation based on Combined Purity = Chemical Purity * Isotopic Value.

Gravimetric Data

Compound Name	Lot No.	Combined Purity (%)	Weight (mg)	Chemical Purity (%)	Isotopic Purity (%)
Perfluorododecanesulfonic acid 13C3 (1,2,3-13C3) sodium	1536129	73.9	2.704	74.5	99.2

Intended Use
This CRM is intended for use in a laboratory as a calibration and quality control standard or in method development for analytical techniques.

Safety
Proper precautions should be observed while handling. See Safety Data Sheet.

Traceability
The balances used for gravimetric measurements are calibrated with weights traceable to the national standards (DKD). The calibration of the balances is verified daily internally and annually by an external accredited calibration service. Chromatographic methods are traceable to the International System of Units (SI).

Homogeneity
Random replicate samples of the final packaged CRM have been analysed to prove homogeneity compliant with ISO 17034.

Storage
The CRM should be stored in the original sealed container at the indicated temperature.

Instructions for use
The CRM should be used shortly after opening to avoid concentration changes due to evaporation. It is recommended to use 1 mL as the minimum sample size and if less material is used, to increase the certified uncertainty by a factor of two for half sample and four for a quarter of sample. If storage after opening is necessary, the CRM should be tightly closed and kept from light and moisture. If the CRM was in a sealed ampoule, it should be transferred to a vial with minimum head space. Visit the support section of our website lgcstandards.com for a series of Dr. Ehrenstorfer Tech Tip videos and frequently asked questions.

LGC Labor GmbH
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86199 Augsburg, Germany
T | +49 821 906080
F | +49 821 9060888
E | dr.ehrenstorfer@lgcgroup.com

LGC Labor GmbH is accredited by DAkkS as reference material producer on ISO 17034 (D-RM-19883-01-00).

All characterisation measurements at LGC Labor GmbH are accredited methods to ISO/IEC 17025.

DAkkS Deutsche Akkreditierungsstelle D-RM-19883-01-00

Reagent

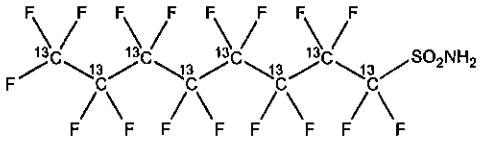
PFC_ST_05846

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFC-ST- 5846, 5847, 5848, 5849

PRODUCT CODE:	M8FOSA-I	**LOT NUMBER:**	M8FOSA1225I
COMPOUND:	Perfluoro-1-($^{13}C_8$)octanesulfonamide		
STRUCTURE:		**CAS #:**	1365803-60-6



MOLECULAR FORMULA:	$^{13}C_8H_2F_{17}NO_2S$	**MOLECULAR WEIGHT:**	507.09
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Isopropanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C
LAST TESTED: (mm/dd/yyyy)	12/22/2025		
EXPIRY DATE: (mm/dd/yyyy)	12/22/2030		
RECOMMENDED STORAGE:	Refrigerate ampoule		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~0.7% of perfluoro-1-($^{13}C_4$)octanesulfonamide.

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Certified By: _____ **Date:** 12/24/2025 (mm/dd/yyyy)
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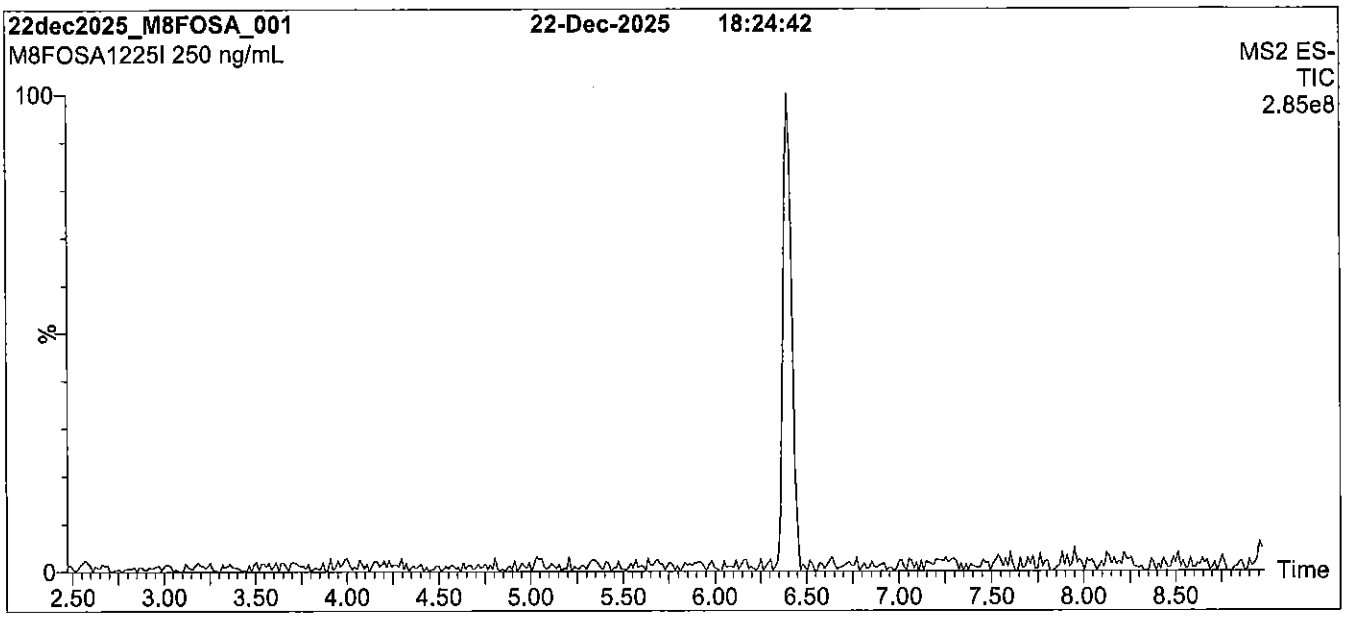
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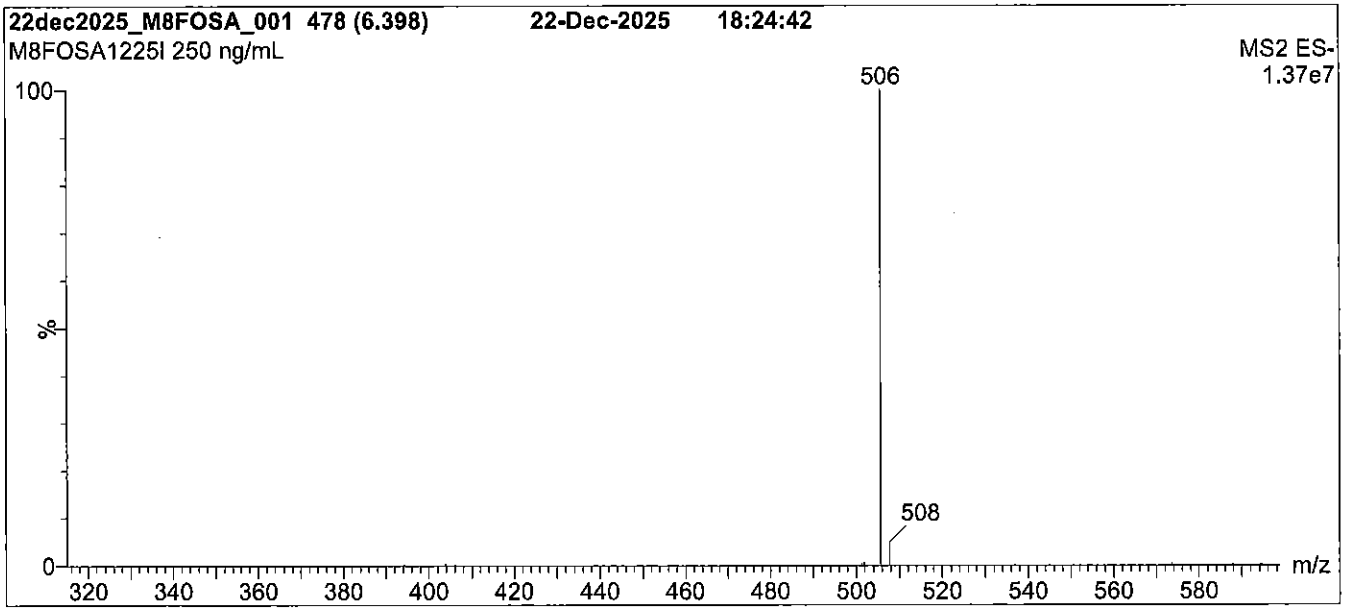
CALA Testing Accreditation No. A1226

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Figure 1: **M8FOSA-I; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

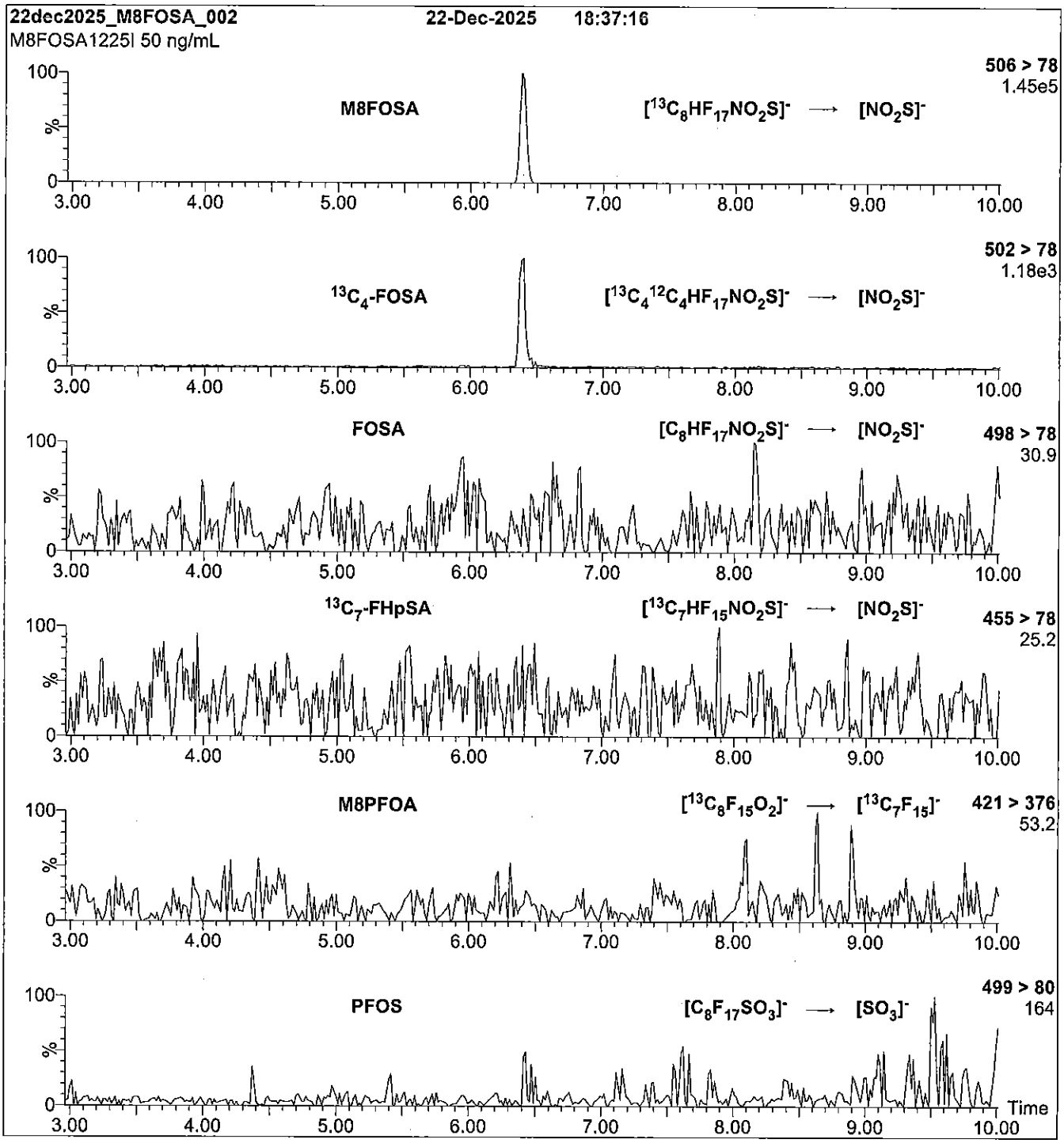
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 1.50
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

Figure 2: **M8FOSA-I; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (M8FOSA-I)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.57e-3
Collision Energy (eV) = 30 (506 > 78)

Reagent

PFC_ST_05878

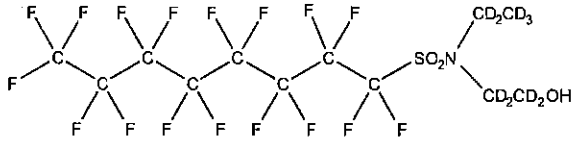
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFOST 5878, 5879, 5880, 5881, 5882, 5887
5884, 5885, 5886

PRODUCT CODE: d9-N-EtFOSE-M **LOT NUMBER:** d9NEtFOSE1025M
COMPOUND: 2-(N-Ethyl-d5-perfluoro-1-octanesulfonamido)ethan-d4-ol

STRUCTURE: **CAS #:** 1265205-96-6



MOLECULAR FORMULA:	$C_{12}D_9HF_{17}NO_3S$	**MOLECULAR WEIGHT:**	580.31
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^2H(D)
LAST TESTED: (mm/dd/yyyy)	11/05/2025 (HRGC/LRMS) 10/21/2025 (LC/MS)		
EXPIRY DATE: (mm/dd/yyyy)	11/05/2030		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: HRGC/LRMS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS Data (Full Scan and Mass Spectrum)
Figure 3: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- In order to see the molecular ion (adduct free), the LC mobile phase should be free of ammonium acetate buffer.
- Contains ~0.7% of branched 2-(N-ethyl-d5-perfluorooctanesulfonamido)ethan-d4-ol by ^{19}F NMR and ~0.5% of an uknown impurity.

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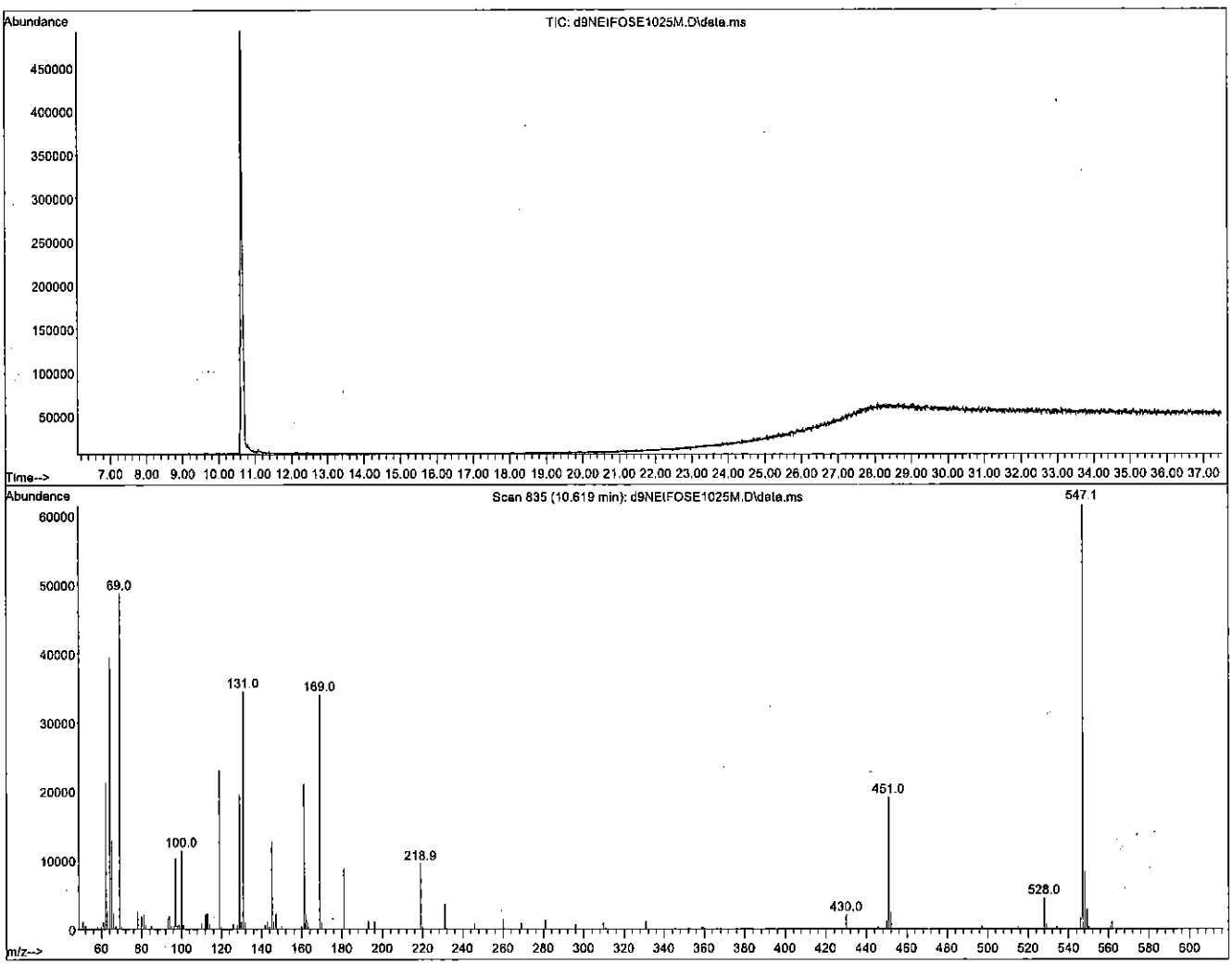
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Figure 1: **d9-N-EtFOSE-M; HRGC/LRMS Data (Full Scan and Mass Spectrum)**



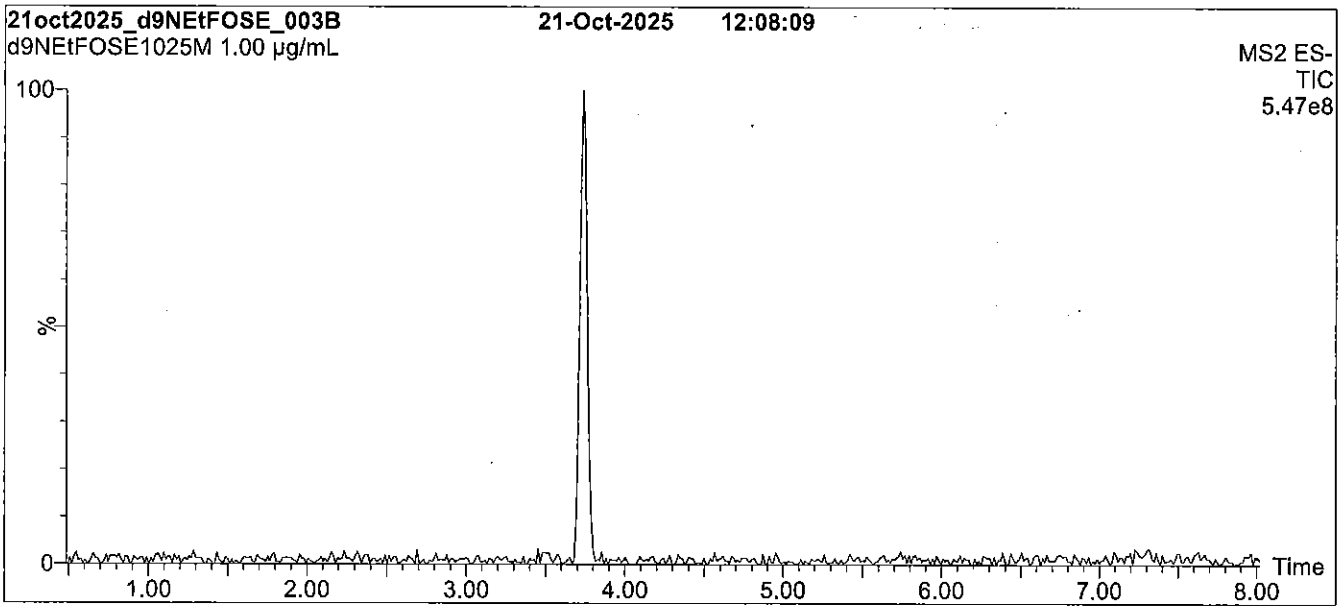
Conditions for Figure 1:

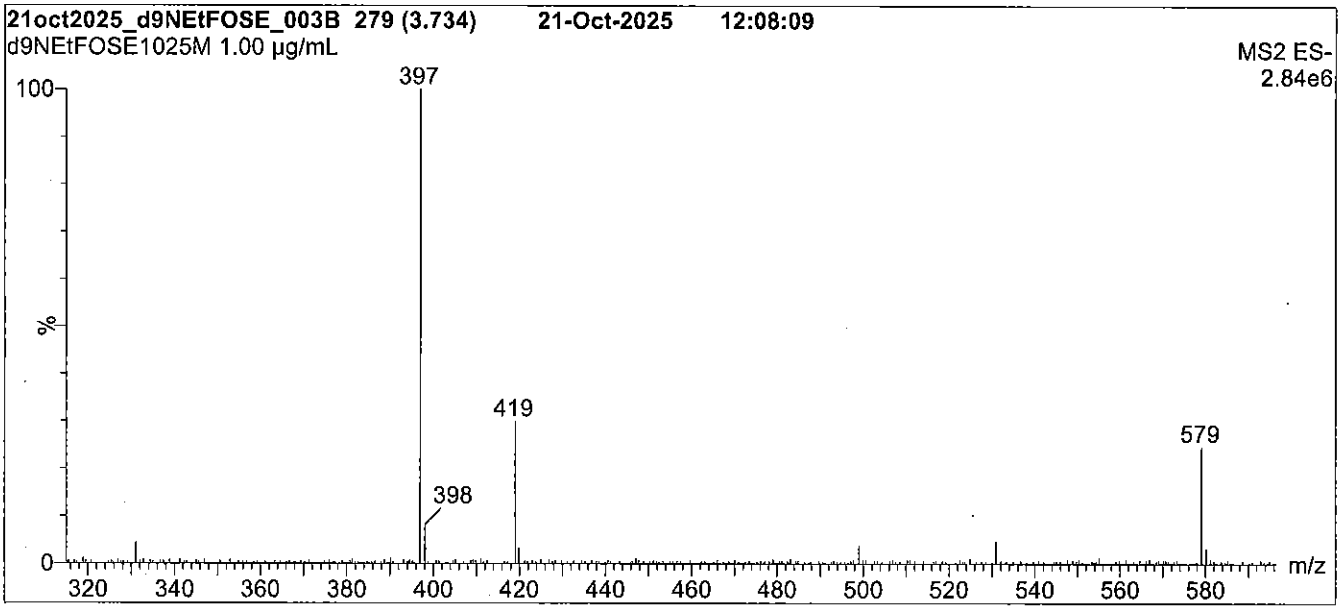
Agilent 7890A HRGC
Agilent 5975C MSD

Chromatographic Conditions:

Column:	30 m HP-5MS UI (0.25 mm id, 0.25 µm film thickness) Agilent J&W
Flow:	Constant at 1.0 mL/min
Injector:	250°C (Splitless Injection)
Oven:	100°C (5 min)
	10°C/min to 325°C
	325°C (10 min)
Ionization:	EI+
Detector:	230°C
	Full Scan (50-1000 amu)

Figure 2: **d9-N-EtFOSE-M; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 2:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% (80:20 MeOH:ACN)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

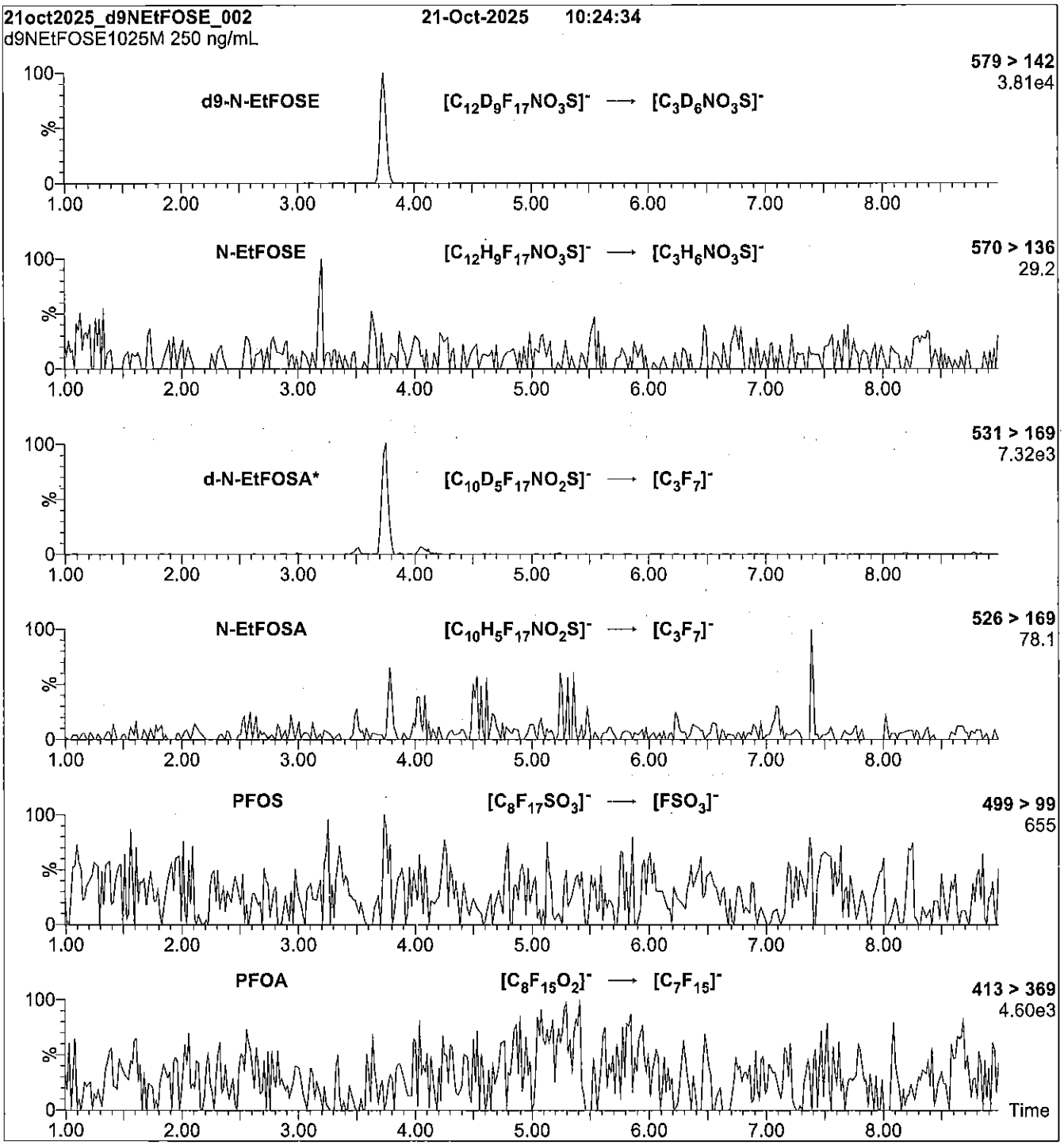
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 3: **d9-N-EtFOSE-M; LC/MS/MS Data (Selected MRM Transitions)**



*__Note__: Formed by in-source fragmentation.

Conditions for Figure 3:

Injection: On-column (d9-N-EtFOSE-M)

Mobile phase: Same as Figure 2

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.89e-3
Collision Energy (eV) = 32 (579 > 142)

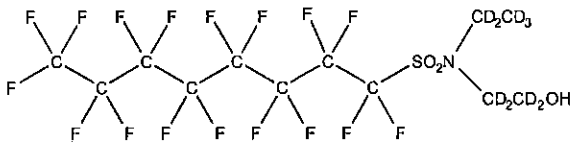
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: d9-N-EtFOSE-M **LOT NUMBER:** d9NEtFOSE1025M

COMPOUND: 2-(N-Ethyl-d5-perfluoro-1-octanesulfonamido)ethan-d4-ol

STRUCTURE: **CAS #:** 1265205-96-6



MOLECULAR FORMULA:	$C_{12}D_9HF_{17}NO_3S$	**MOLECULAR WEIGHT:**	580.31
CONCENTRATION:	50.0 ± 2.5 µg/mL	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥98% ^{2}H (D)
LAST TESTED: (mm/dd/yyyy)	11/05/2025 (HRGC/LRMS) 10/21/2025 (LC/MS)		
EXPIRY DATE: (mm/dd/yyyy)	11/05/2030		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: HRGC/LRMS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS Data (Full Scan and Mass Spectrum)
Figure 3: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- In order to see the molecular ion (adduct free), the LC mobile phase should be free of ammonium acetate buffer.
- Contains ~0.7% of branched 2-(N-ethyl-d5-perfluorooctanesulfonamido)ethan-d4-ol by ^{19}F NMR and ~0.5% of an uknown impurity.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 11/07/2025 (mm/dd/yyyy)

B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

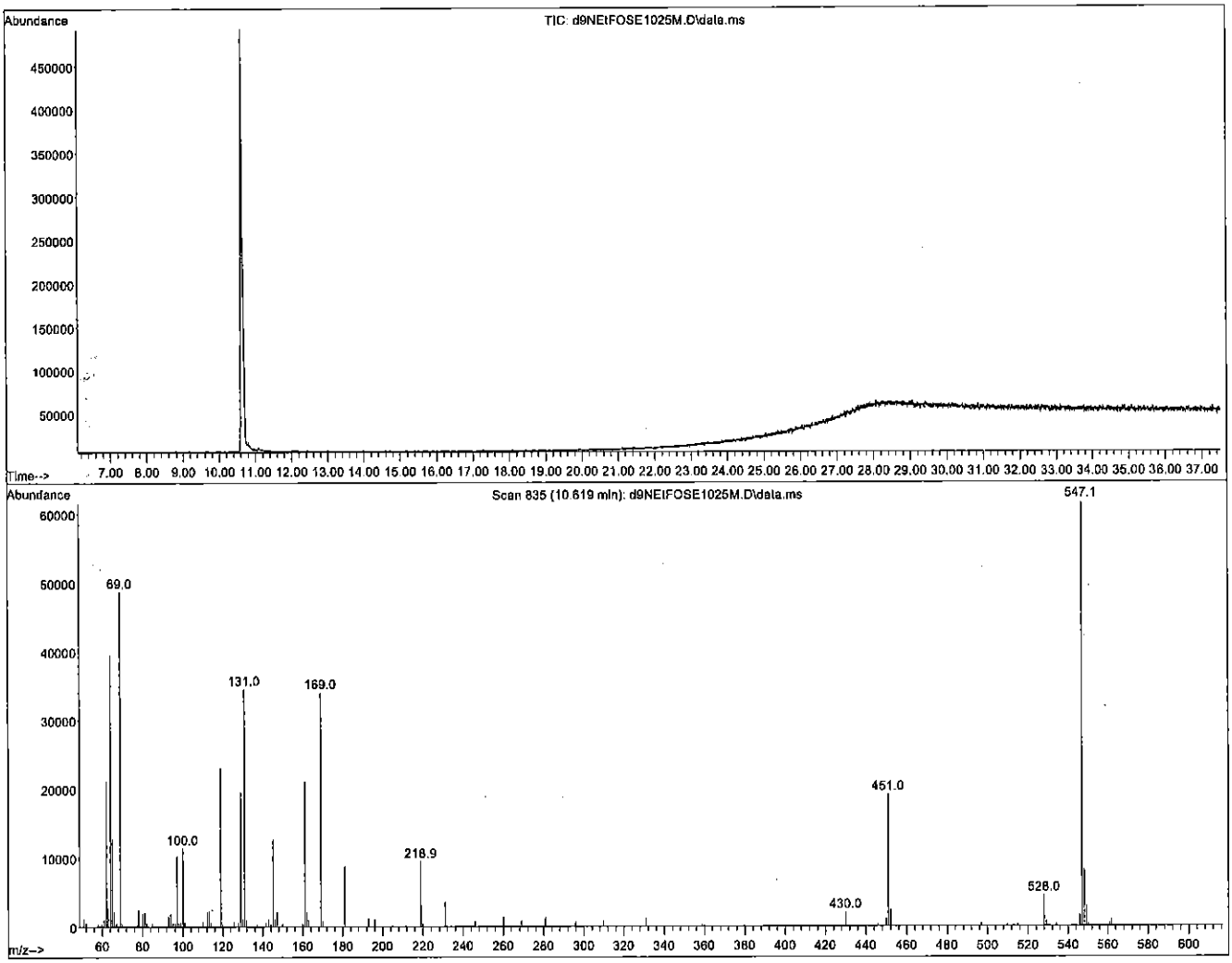
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **d9-N-EtFOSE-M; HRGC/LRMS Data (Full Scan and Mass Spectrum)**



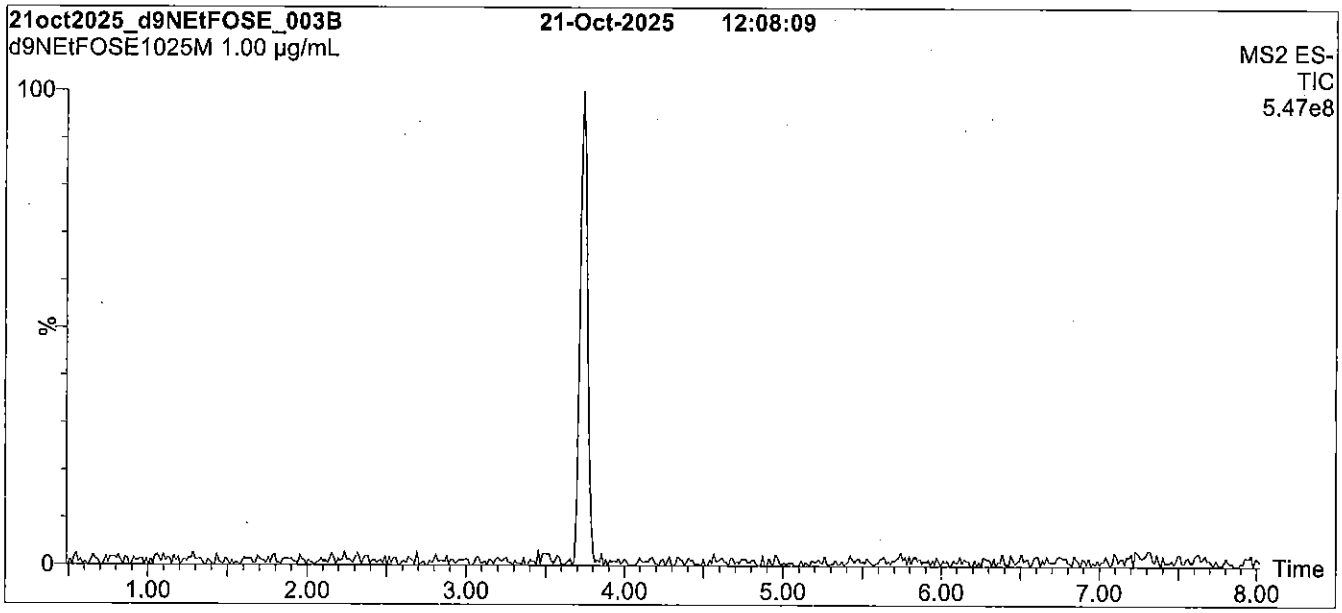
Conditions for Figure 1:

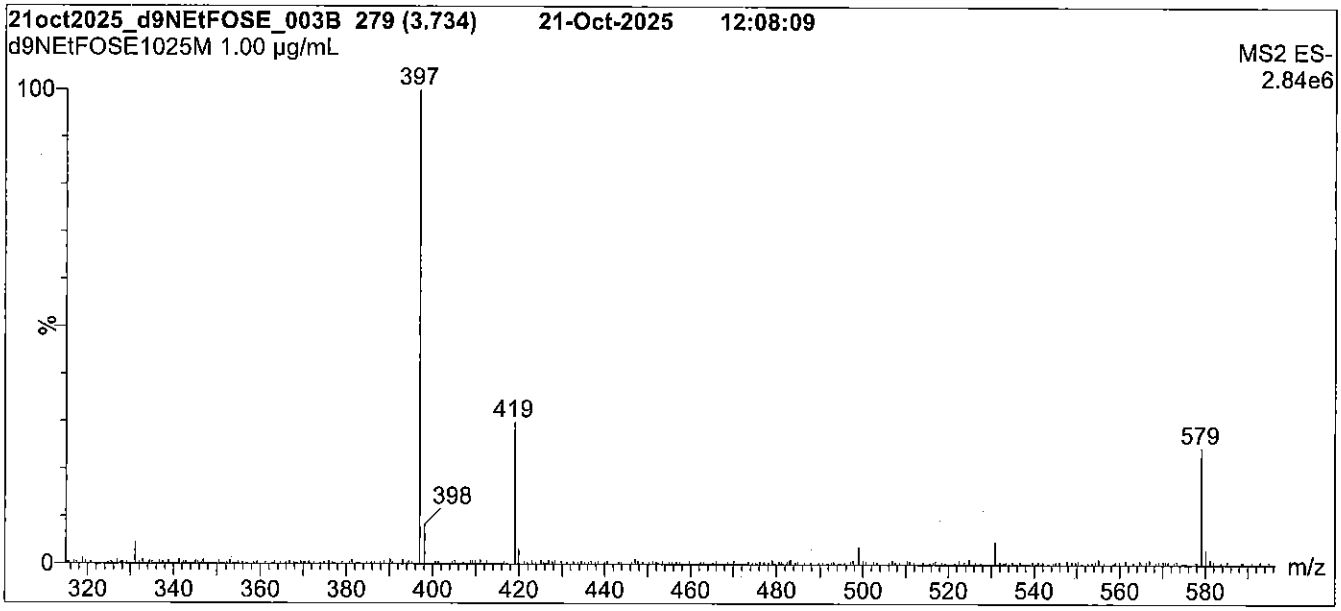
Agilent 7890A HRGC
Agilent 5975C MSD

Chromatographic Conditions:

Column:	30 m HP-5MS UI (0.25 mm id, 0.25 µm film thickness) Agilent J&W
Flow:	Constant at 1.0 mL/min
Injector:	250°C (Splitless Injection)
Oven:	100°C (5 min)
	10°C/min to 325°C
	325°C (10 min)
Ionization:	EI+
Detector:	230°C
	Full Scan (50-1000 amu)

Figure 2: **d9-N-EtFOSE-M; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 2:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% H_2O / 70% (80:20 MeOH:ACN)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

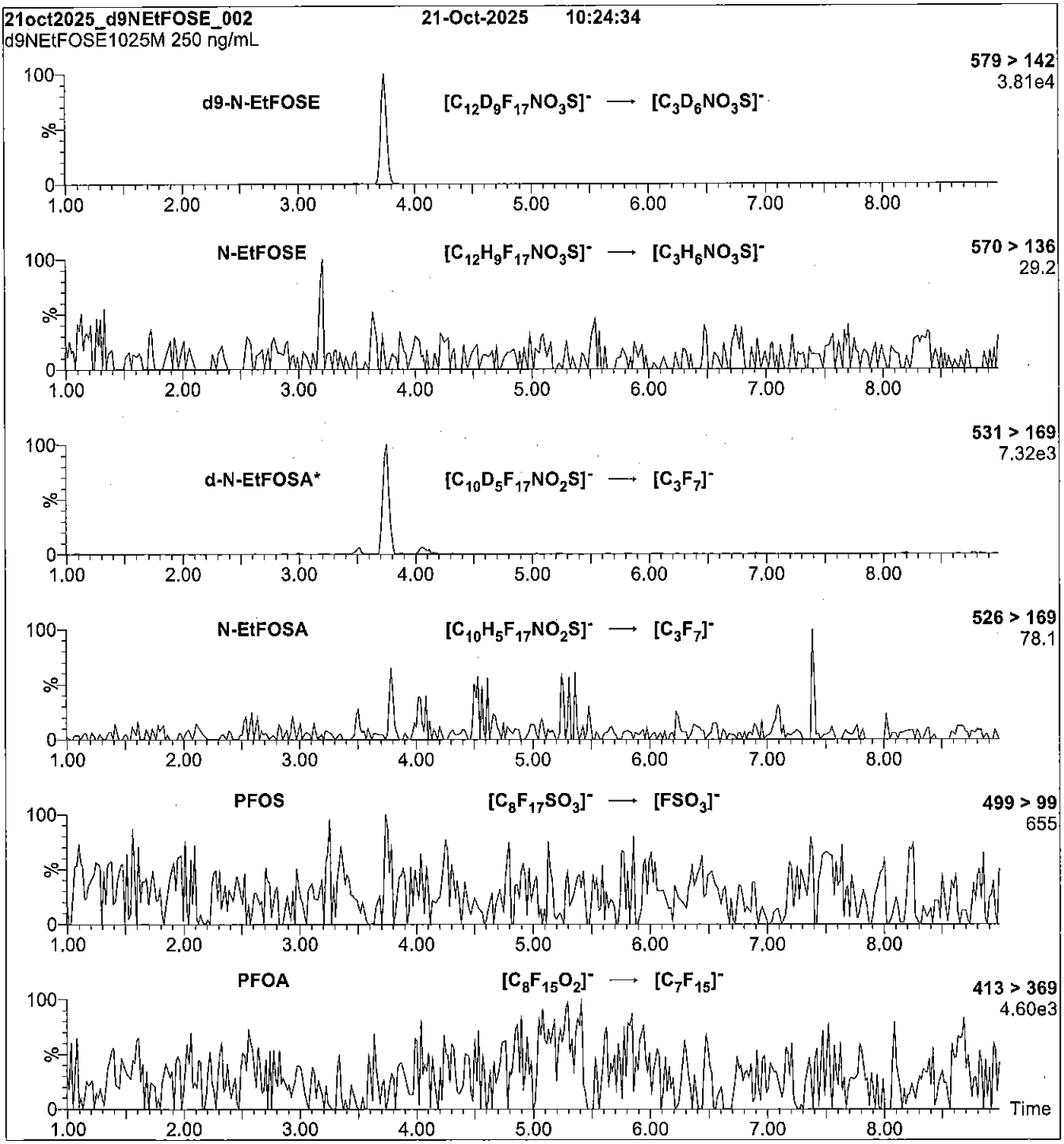
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (315 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20.00
Desolvation Temperature (°C) = 450
Desolvation Gas Flow (L/hr) = 1000

Figure 3: **d9-N-EtFOSE-M; LC/MS/MS Data (Selected MRM Transitions)**



*Note: Formed by In-source fragmentation.

Conditions for Figure 3:

Injection: On-column (d9-N-EtFOSE-M)

Mobile phase: Same as Figure 2

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.89e-3
Collision Energy (eV) = 32 (579 > 142)

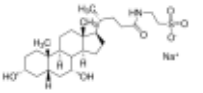
Reagent

PFC_ST_TCDCA_00001

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Sodium taurochenodeoxycholate



Product Number:	**T6260**
Batch Number:	**SLCJ5790**
Brand:	SIGMA
CAS Number:	6009-98-9
MDL Number:	MFCD00036745
Formula:	C26H44NNaO6S
Formula Weight:	521.69 g/mol
Quality Release Date:	14 MAY 2021

Test	Specification	Result
Appearance (Color)	White to Off White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless to Yellow	Almost Colorless
Solubility (Turbidity) 100 mg/mL, H2O	Clear	Clear
Water (by Karl Fischer)	≤ 7 %	1 %
Sodium (Na) anhydrous	3.9 - 4.9 %	4.8 %
1H NMR Spectrum	Conforms to Structure	Conforms
13C NMR Spectrum	Conforms to Structure	Conforms
Purity (TLC)	≥ 95 %	95 %

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

1633A

Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	M242FTS #	13C5PHA #	C3PFBS #	HFPODA #	C4PFHA #	M262FTS #
RXSB-19 (0-2)_P	460-344047-1	64.4	59.3	141	54.6	57.7	54.8	57.9	144
RXSB-19 (6-8)_P	460-344047-2	79.6	79.3	73.9	78.9	80.3	81.9	83.2	80.5
RXSB-16 (0-2)_P	460-344047-3	85.4	83.2	194 *	84.6	85.3	75.3	85.4	175
RXSB-16 (6-8)_P	460-344047-4	71.6	66.5	101	62.9	67.8	62.1	66.4	58.7
RXSB-17 (6-8)_P	460-344047-5	76.5	74.8	74.9	73.5	78.7	82.2	81.7	81.2
DUP_012926	460-344047-6	87.3	85.2	104	80.1	79.2	75.2	82.1	91.4
	MB 410-764041/1-A	104	102	107	108	118	110	102	118
	MB 410-765112/1-A	88.0	83.3	84.1	80.0	81.1	82.0	84.4	83.3
	LCS 410-764041/2-A	107	107	92.8	105	102	108	105	94.2
	LCS 410-765112/2-A	72.9	72.2	71.8	73.5	73.1	71.0	76.5	77.2
	LLCS 410-764041/3-A	103	90.1	93.5	93.4	109	94.3	98.2	100
	LLCS 410-765112/3-A	84.3	83.3	85.9	85.7	86.7	84.6	86.5	95.4
	460-344049-A-5-B MS	102	98.3	148	94.7	100	94.7	98.7	150
	460-344049-A-5-C MSD	95.7	97.3	158	101	90.2	96.9	106	177

	QC LIMITS
PFBA = 13C4 PFBA	8-130
PFPeA = 13C5 PFPeA	35-130
M242FTS = 13C2 4:2 FTS	40-165
13C5PHA = 13C5 PFHxA	40-130
C3PFBS = 13C3 PFBS	40-135
HFPODA = 13C3 HFPO-DA	40-130
C4PFHA = 13C4 PFHpA	40-130
M262FTS = 13C2 6:2 FTS	40-215

Column to be used to flag recovery values

FORM II 1633A

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	C8PFOA #	C3PFHS #	C9PFNA #	M282FTS #	d3NMFOS #	C6PFDA #	d5NEFOS #	C8PFOS #
RXSB-19 (0-2)_P	460-344047-1	58.8	55.9	52.8	104	54.6	57.2	57.0	57.5
RXSB-19 (6-8)_P	460-344047-2	77.6	85.7	79.7	67.4	63.2	77.6	58.6	76.9
RXSB-16 (0-2)_P	460-344047-3	87.2	83.9	82.1	129	80.5	85.7	76.7	82.0
RXSB-16 (6-8)_P	460-344047-4	54.8	58.4	49.5	45.6	42.0	51.5	42.2	55.3
RXSB-17 (6-8)_P	460-344047-5	80.6	83.0	74.0	64.8	63.3	77.5	57.2	73.2
DUP_012926	460-344047-6	93.2	81.7	78.5	65.1	59.4	72.8	59.6	76.3
	MB 410-764041/1-A	110	109	94.5	106	73.2	88.5	66.9	80.6
	MB 410-765112/1-A	79.8	85.6	78.2	71.6	69.8	87.5	70.0	85.1
	LCS 410-764041/2-A	98.8	95.7	96.7	82.3	74.6	86.3	64.5	86.6
	LCS 410-765112/2-A	73.1	75.8	68.1	62.3	55.0	70.0	54.0	71.6
	LLCS 410-764041/3-A	102	104	92.9	100	84.5	94.1	72.4	87.8
	LLCS 410-765112/3-A	84.3	86.8	79.7	75.0	66.0	83.5	65.8	80.1
	460-344049-A-5-B MS	104	96.2	98.0	115	102	100	93.5	95.0
	460-344049-A-5-C MSD	103	97.4	104	142	119	103	115	95.0

	QC LIMITS
C8PFOA = 13C8 PFOA	40-130
C3PFHS = 13C3 PFHxS	40-130
C9PFNA = 13C9 PFNA	40-130
M282FTS = 13C2 8:2 FTS	40-275
d3NMFOS = d3-NMeFOSAA	40-135
C6PFDA = 13C6 PFDA	40-130
d5NEFOS = d5-NEtFOSAA	40-150
C8PFOS = 13C8 PFOS	40-130

Column to be used to flag recovery values

FORM II 1633A

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	13C7PUA #	PFDoA #	PFOSA #	PFTDA #	NMFM #	d3NMFSA #	NEFM #	d5NPFSA #
RXSB-19 (0-2)_P	460-344047-1	59.0	58.8	51.5	49.5	21.1	43.3	16.8	39.1
RXSB-19 (6-8)_P	460-344047-2	82.8	76.0	70.2	62.2	12.3 *	49.6	5.95 *	46.6
RXSB-16 (0-2)_P	460-344047-3	78.2	73.1	84.8	57.5	35.8	64.2	31.1	59.2
RXSB-16 (6-8)_P	460-344047-4	56.2	59.6	43.3	53.0	22.8	37.1	21.4	38.6
RXSB-17 (6-8)_P	460-344047-5	76.9	76.4	71.3	64.4	31.2	53.4	32.9	51.6
DUP_012926	460-344047-6	78.1	66.2	66.8	58.8	28.9	52.9	26.8	51.9
	MB 410-764041/1-A	74.9	63.3	78.9	57.0	49.8	53.2	47.1	46.5
	MB 410-765112/1-A	91.0	88.5	70.1	84.8	30.0	60.3	25.5	56.7
	LCS 410-764041/2-A	78.5	65.1	77.4	45.4	5.72 *	53.2	2.43 *	47.2
	LCS 410-765112/2-A	74.2	67.6	60.2	62.4	8.35 *	45.0	5.13 *	43.5
	LLCS 410-764041/3-A	85.5	80.3	80.8	58.0	10.1 *	56.4	5.25 *	51.9
	LLCS 410-765112/3-A	96.3	84.5	71.2	71.9	6.99 *	51.7	2.37 *	50.7
	460-344049-A-5-B MS	91.5	89.1	85.6	72.4	34.6	74.7	32.9	74.5
	460-344049-A-5-C MSD	99.7	93.1	98.3	82.2	61.7	84.0	57.6	86.5

	QC LIMITS
13C7PUA = 13C7 PFUnA	40-130
PFDoA = 13C2 PFDoA	40-130
PFOSA = 13C8 FOSA	40-130
PFTDA = 13C2 PFTeDA	20-130
NMFM = d7-N-MeFOSE-M	20-130
d3NMFSA = d3-NMePFOSA	10-130
NEFM = d9-N-EtFOSE-M	15-130
d5NPFSA = d5-NEtPFOSA	10-130

Column to be used to flag recovery values

FORM II 1633A

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	M242FTS #	13C5PHA #	C3PFBS #	HFPODA #	C4PFHA #	M262FTS #
FB_012926_P	460-344047-7	91.4	90.1	104	92.2	100	89.2	95.6	112
	MB 410-763508/8-A	88.6	90.6	100	95.3	96.7	93.2	97.6	105
	LCS 410-763508/9-A	84.2	80.0	99.9	81.3	89.0	83.0	83.4	104
	LCSD 410-763508/10-A	85.0	88.3	93.5	88.0	92.6	98.0	98.0	95.7
	LLCS 410-763508/11-A	88.2	83.2	99.6	82.6	97.9	94.4	96.1	103

	QC LIMITS
PFBA = 13C4 PFBA	5-130
PFPeA = 13C5 PFPeA	40-130
M242FTS = 13C2 4:2 FTS	40-200
13C5PHA = 13C5 PFHxA	40-130
C3PFBS = 13C3 PFBS	40-135
HFPODA = 13C3 HFPO-DA	40-130
C4PFHA = 13C4 PFHpA	40-130
M262FTS = 13C2 6:2 FTS	40-200

Column to be used to flag recovery values

FORM II 1633A

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	C8PFOA #	C3PFHS #	C9PFNA #	M282FTS #	d3NMFOS #	C6PFDA #	d5NEFOS #	C8PFOS #
FB_012926_P	460-344047-7	95.4	99.4	93.3	108	79.2	95.9	77.8	93.8
	MB 410-763508/8-A	91.6	89.9	92.9	97.4	80.1	96.6	181 *	87.9
	LCS 410-763508/9-A	88.1	87.0	89.7	95.5	80.4	88.5	95.0	87.0
	LCSD 410-763508/10-A	89.2	91.2	89.1	90.2	74.9	83.8	77.7	81.8
	LLCS 410-763508/11-A	95.5	94.4	97.2	95.7	77.0	92.8	75.3	88.8

	QC LIMITS
C8PFOA = 13C8 PFOA	40-130
C3PFHS = 13C3 PFHxS	40-130
C9PFNA = 13C9 PFNA	40-130
M282FTS = 13C2 8:2 FTS	40-300
d3NMFOS = d3-NMeFOSAA	40-170
C6PFDA = 13C6 PFDA	40-130
d5NEFOS = d5-NEtFOSAA	25-135
C8PFOS = 13C8 PFOS	40-130

Column to be used to flag recovery values

FORM II 1633A

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	13C7PUA #	PFDoA #	PFOSA #	PFTDA #	NMFM #	d3NMFSA #	NEFM #	d5NPFSA #
FB_012926_P	460-344047-7	94.9	96.7	82.6	76.7	57.0	61.9	53.9	58.4
	MB 410-763508/8-A	97.0	95.4	74.1	76.0	55.3	64.7	52.6	61.3
	LCS 410-763508/9-A	93.0	90.4	80.7	68.1	58.1	67.6	55.1	65.4
	LCSD 410-763508/10-A	85.7	92.4	67.9	63.0	40.1	56.8	35.7	54.8
	LLCS 410-763508/11-A	88.7	87.4	73.9	67.5	41.6	59.6	35.2	53.1

	QC LIMITS
13C7PUA = 13C7 PFUnA	30-130
PFDoA = 13C2 PFDoA	10-130
PFOSA = 13C8 FOSA	40-130
PFTDA = 13C2 PFTeDA	10-130
NMFM = d7-N-MeFOSE-M	10-130
d3NMFSA = d3-NMePFOSA	10-130
NEFM = d9-N-EtFOSE-M	10-130
d5NPFSA = d5-NEtPFOSA	10-130

Column to be used to flag recovery values

FORM II 1633A

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 26Feb02n-02.d

Lab ID: LCS 410-763508/9-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	80.0	77.47	97	70-140	
Perfluoropentanoic acid (PFPeA)	40.0	38.12	95	65-135	
Perfluorohexanoic acid (PFHxA)	40.0	37.06	93	70-145	
Perfluoroheptanoic acid (PFHpA)	40.0	39.20	98	70-150	
Perfluorooctanoic acid (PFOA)	40.0	37.70	94	70-150	
Perfluorononanoic acid (PFNA)	40.0	35.23	88	70-150	
Perfluorodecanoic acid (PFDA)	40.0	36.71	92	70-140	
Perfluoroundecanoic acid (PFUnA)	40.0	37.02	93	70-145	
Perfluorododecanoic acid (PFDoA)	40.0	36.86	92	70-140	
Perfluorotridecanoic acid (PFTrDA)	40.0	37.44	94	65-140	
Perfluorotetradecanoic acid (PFTeDA)	40.0	39.67	99	60-140	
Perfluorobutanesulfonic acid (PFBS)	35.5	34.94	98	60-145	
Perfluoropentanesulfonic acid (PFPeS)	37.6	36.89	98	65-140	
Perfluorohexanesulfonic acid (PFHxS)	36.5	32.44	89	65-145	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	36.28	95	70-150	
Perfluorooctanesulfonic acid (PFOS)	37.2	34.02	91	55-150	
Perfluorononanesulfonic acid (PFNS)	38.5	37.45	97	65-145	
Perfluorodecanesulfonic acid (PFDS)	38.6	34.45	89	60-145	
Perfluorododecanesulfonic acid (PFDoS)	38.8	26.12	67	50-145	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	71.78	96	70-145	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	72.43	95	65-155	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	69.15	90	60-150	
Perfluorooctanesulfonamide (PFOSA)	40.0	35.23	88	70-145	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 26Feb02n-02.d

Lab ID: LCS 410-763508/9-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	38.11	95	60-150	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	39.89	100	65-145	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	34.83	87	50-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.97	105	70-145	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	181.7	91	70-145	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	186.6	93	70-135	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	29.61	99	70-140	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	37.25	98	65-145	
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	39.50	99	55-140	
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	37.72	94	60-150	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	34.71	87	50-150	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	37.4	33.68	90	70-155	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	37.8	33.51	89	55-160	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	35.78	100	70-140	
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	72.57	91	65-130	
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	162.8	81	70-135	
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	165.6	83	50-145	
13C4 PFBA	80.0	67.38	84.2	5-130	
13C5 PFPeA	80.0	63.98	80.0	40-130	
13C5 PFHxA	80.0	65.03	81.3	40-130	
13C4 PFHpA	80.0	66.73	83.4	40-130	
13C8 PFOA	80.0	70.45	88.1	40-130	
13C9 PFNA	80.0	71.74	89.7	40-130	
13C6 PFDA	80.0	70.81	88.5	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 26Feb02n-02.d

Lab ID: LCS 410-763508/9-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C7 PFUnA	80.0	74.41	93.0	30-130	
13C2 PFTeDA	80.0	54.49	68.1	10-130	
13C3 PFBS	74.6	66.33	89.0	40-135	
13C3 PFHxS	75.8	65.99	87.0	40-130	
13C8 PFOS	76.6	66.70	87.0	40-130	
13C8 FOSA	80.0	64.59	80.7	40-130	
d3-NMeFOSAA	200	160.8	80.4	40-170	
d5-NEtFOSAA	200	190.1	95.0	25-135	
13C2 4:2 FTS	188	187.3	99.9	40-200	
13C2 6:2 FTS	190	197.4	104	40-200	
13C2 8:2 FTS	192	183.4	95.5	40-300	
13C3 HFPO-DA	80.0	66.39	83.0	40-130	
d7-N-MeFOSE-M	200	116.2	58.1	10-130	
d9-N-EtFOSE-M	200	110.3	55.1	10-130	
d5-NEtPFOSA	80.0	52.30	65.4	10-130	
d3-NMePFOSA	80.0	54.10	67.6	10-130	
13C2 PFDoA	80.0	72.30	90.4	10-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-54.d

Lab ID: LCS 410-764041/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	5.00	4.562	91	70-140	
Perfluoropentanoic acid (PFPeA)	2.50	2.286	91	60-150	
Perfluorohexanoic acid (PFHxA)	2.50	2.288	92	65-140	
Perfluoroheptanoic acid (PFHpA)	2.50	2.309	92	65-145	
Perfluorooctanoic acid (PFOA)	2.50	2.356	94	70-150	
Perfluorononanoic acid (PFNA)	2.50	2.143	86	70-155	
Perfluorodecanoic acid (PFDA)	2.50	2.297	92	70-155	
Perfluoroundecanoic acid (PFUnA)	2.50	2.393	96	70-155	
Perfluorododecanoic acid (PFDoA)	2.50	2.481	99	70-150	
Perfluorotridecanoic acid (PFTrDA)	2.50	2.049	82	65-150	
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.292	92	65-150	
Perfluorobutanesulfonic acid (PFBS)	2.22	2.027	91	65-145	
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.269	97	55-160	
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.105	92	60-150	
Perfluoroheptanesulfonic acid (PFHpS)	2.39	2.314	97	65-155	
Perfluorooctanesulfonic acid (PFOS)	2.33	2.100	90	65-160	
Perfluorononanesulfonic acid (PFNS)	2.41	2.039	85	55-140	
Perfluorodecanesulfonic acid (PFDS)	2.41	1.718	71	40-155	
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.165	48	25-160	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69	4.389	94	60-150	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76	4.303	90	55-200	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.80	4.452	93	70-150	
Perfluorooctanesulfonamide (PFOSA)	2.50	2.297	92	70-140	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-54.d

Lab ID: LCS 410-764041/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.375	95	70-155	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.522	101	70-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.102	84	65-155	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.141	86	65-165	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5	10.93	87	70-140	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5	8.483	68	70-135	*
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.88	1.702	91	70-145	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.37	2.157	91	70-160	
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.50	2.607	104	30-140	
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.50	2.291	92	60-150	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.50	2.364	95	60-155	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	2.34	1.985	85	70-150	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	2.36	1.721	73	45-160	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23	2.050	92	70-140	
3-Perfluoropropylpropanoic acid (3:3 FTCA)	5.00	4.477	90	45-130	
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5	9.315	75	60-130	
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5	8.552	68	60-150	
13C4 PFBA	5.00	5.334	107	8-130	
13C5 PFPeA	5.00	5.343	107	35-130	
13C5 PFHxA	5.00	5.259	105	40-130	
13C4 PFHpA	5.00	5.271	105	40-130	
13C8 PFOA	5.00	4.941	98.8	40-130	
13C9 PFNA	5.00	4.837	96.7	40-130	
13C6 PFDA	5.00	4.313	86.3	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-54.d

Lab ID: LCS 410-764041/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
13C7 PFUnA	5.00	3.926	78.5	40-130	
13C2 PFTeDA	5.00	2.269	45.4	20-130	
13C3 PFBS	4.66	4.757	102	40-135	
13C3 PFHxS	4.74	4.537	95.7	40-130	
13C8 PFOS	4.79	4.147	86.6	40-130	
13C8 FOSA	5.00	3.870	77.4	40-130	
d3-NMeFOSAA	12.5	9.328	74.6	40-135	
d5-NEtFOSAA	12.5	8.065	64.5	40-150	
13C2 4:2 FTS	11.7	10.88	92.8	40-165	
13C2 6:2 FTS	11.9	11.20	94.2	40-215	
13C2 8:2 FTS	12.0	9.874	82.3	40-275	
13C3 HFPO-DA	5.00	5.395	108	40-130	
d7-N-MeFOSE-M	12.5	0.714	5.72	20-130	*
d9-N-EtFOSE-M	12.5	0.304	2.43	15-130	*
d5-NEtPFOSA	5.00	2.359	47.2	10-130	
d3-NMePFOSA	5.00	2.661	53.2	10-130	
13C2 PFDoA	5.00	3.257	65.1	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26FEB05JO-29.d

Lab ID: LCS 410-765112/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	4.88	4.971	102	70-140	
Perfluoropentanoic acid (PFPeA)	2.44	2.446	100	60-150	
Perfluorohexanoic acid (PFHxA)	2.44	2.216	91	65-140	
Perfluoroheptanoic acid (PFHpA)	2.44	2.257	93	65-145	
Perfluorooctanoic acid (PFOA)	2.44	2.405	99	70-150	
Perfluorononanoic acid (PFNA)	2.44	2.244	92	70-155	
Perfluorodecanoic acid (PFDA)	2.44	2.180	89	70-155	
Perfluoroundecanoic acid (PFUnA)	2.44	2.246	92	70-155	
Perfluorododecanoic acid (PFDoA)	2.44	2.554	105	70-150	
Perfluorotridecanoic acid (PFTrDA)	2.44	2.477	102	65-150	
Perfluorotetradecanoic acid (PFTeDA)	2.44	2.429	100	65-150	
Perfluorobutanesulfonic acid (PFBS)	2.17	2.210	102	65-145	
Perfluoropentanesulfonic acid (PFPeS)	2.29	2.289	100	55-160	
Perfluorohexanesulfonic acid (PFHxS)	2.22	2.245	101	60-150	
Perfluoroheptanesulfonic acid (PFHpS)	2.33	2.262	97	65-155	
Perfluorooctanesulfonic acid (PFOS)	2.27	2.115	93	65-160	
Perfluorononanesulfonic acid (PFNS)	2.35	2.087	89	55-140	
Perfluorodecanesulfonic acid (PFDS)	2.35	1.823	78	40-155	
Perfluorododecanesulfonic acid (PFDoS)	2.37	1.798	76	25-160	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.58	4.608	101	60-150	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.64	4.496	97	55-200	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.68	4.509	96	70-150	
Perfluorooctanesulfonamide (PFOSA)	2.44	2.334	96	70-140	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26FEB05JO-29.d

Lab ID: LCS 410-765112/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.44	2.495	102	70-155	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.44	2.464	101	70-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.44	2.269	93	65-155	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.44	2.517	103	65-165	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.2	12.67	104	70-140	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.2	11.76	96	70-135	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.83	1.902	104	70-145	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.31	2.315	100	70-160	
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.44	2.609	107	30-140	
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.44	2.269	93	60-150	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.44	2.262	93	60-155	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	2.28	2.016	88	70-150	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	2.30	1.951	85	45-160	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.18	2.071	95	70-140	
3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.88	4.961	102	45-130	
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.2	10.36	85	60-130	
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.2	9.515	78	60-150	
13C4 PFBA	4.88	3.554	72.9	8-130	
13C5 PFPeA	4.88	3.523	72.2	35-130	
13C5 PFHxA	4.88	3.586	73.5	40-130	
13C4 PFHpA	4.88	3.732	76.5	40-130	
13C8 PFOA	4.88	3.567	73.1	40-130	
13C9 PFNA	4.88	3.324	68.1	40-130	
13C6 PFDA	4.88	3.416	70.0	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26FEB05JO-29.d

Lab ID: LCS 410-765112/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
13C7 PFUnA	4.88	3.619	74.2	40-130	
13C2 PFTeDA	4.88	3.044	62.4	20-130	
13C3 PFBS	4.55	3.325	73.1	40-135	
13C3 PFHxS	4.62	3.506	75.8	40-130	
13C8 PFOS	4.67	3.348	71.6	40-130	
13C8 FOSA	4.88	2.936	60.2	40-130	
d3-NMeFOSAA	12.2	6.709	55.0	40-135	
d5-NEtFOSAA	12.2	6.584	54.0	40-150	
13C2 4:2 FTS	11.4	8.211	71.8	40-165	
13C2 6:2 FTS	11.6	8.969	77.2	40-215	
13C2 8:2 FTS	11.7	7.292	62.3	40-275	
13C3 HFPO-DA	4.88	3.466	71.0	40-130	
d7-N-MeFOSE-M	12.2	1.018	8.35	20-130	*
d9-N-EtFOSE-M	12.2	0.626	5.13	15-130	*
d5-NEtPFOSA	4.88	2.121	43.5	10-130	
d3-NMePFOSA	4.88	2.195	45.0	10-130	
13C2 PFDoA	4.88	3.296	67.6	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 26Feb02n-03.d

Lab ID: LCSD 410-763508/10-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	80.0	81.56	102	5	30	70-140	
Perfluoropentanoic acid (PFPeA)	40.0	38.96	97	2	30	65-135	
Perfluorohexanoic acid (PFHxA)	40.0	37.27	93	1	30	70-145	
Perfluoroheptanoic acid (PFHpA)	40.0	39.55	99	1	30	70-150	
Perfluorooctanoic acid (PFOA)	40.0	38.80	97	3	30	70-150	
Perfluorononanoic acid (PFNA)	40.0	36.66	92	4	30	70-150	
Perfluorodecanoic acid (PFDA)	40.0	38.69	97	5	30	70-140	
Perfluoroundecanoic acid (PFUnA)	40.0	38.90	97	5	30	70-145	
Perfluorododecanoic acid (PFDoA)	40.0	37.58	94	2	30	70-140	
Perfluorotridecanoic acid (PFTrDA)	40.0	38.84	97	4	30	65-140	
Perfluorotetradecanoic acid (PFTeDA)	40.0	39.92	100	1	30	60-140	
Perfluorobutanesulfonic acid (PFBS)	35.5	34.61	97	1	30	60-145	
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.18	94	5	30	65-140	
Perfluorohexanesulfonic acid (PFHxS)	36.5	31.69	87	2	30	65-145	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.59	101	6	30	70-150	
Perfluorooctanesulfonic acid (PFOS)	37.2	36.21	97	6	30	55-150	
Perfluorononanesulfonic acid (PFNS)	38.5	37.58	98	0	30	65-145	
Perfluorodecanesulfonic acid (PFDS)	38.6	34.69	90	1	30	60-145	
Perfluorododecanesulfonic acid (PFDoS)	38.8	25.04	65	4	30	50-145	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	75.99	101	6	30	70-145	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	78.84	104	8	30	65-155	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	73.08	95	6	30	60-150	
Perfluorooctanesulfonamide (PFOSA)	40.0	39.83	100	12	30	70-145	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 26Feb02n-03.d

Lab ID: LCSD 410-763508/10-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	40.04	100	5	30	60-150	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	41.25	103	3	30	65-145	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	37.68	94	8	30	50-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	43.20	108	3	30	70-145	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	199.1	100	9	30	70-145	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	188.3	94	1	30	70-135	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	28.34	94	4	30	70-140	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	36.47	96	2	30	65-145	
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	41.09	103	4	30	55-140	
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	37.73	94	0	30	60-150	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	37.99	95	9	30	50-150	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	37.4	35.57	95	5	30	70-155	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	37.8	33.21	88	1	30	55-160	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	36.68	103	2	30	70-140	
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	73.06	91	1	30	65-130	
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	176.5	88	8	30	70-135	
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	157.3	79	5	30	50-145	
13C4 PFBA	80.0	67.96	85.0			5-130	
13C5 PFPeA	80.0	70.62	88.3			40-130	
13C5 PFHxA	80.0	70.36	88.0			40-130	
13C4 PFHpA	80.0	78.40	98.0			40-130	
13C8 PFOA	80.0	71.40	89.2			40-130	
13C9 PFNA	80.0	71.30	89.1			40-130	
13C6 PFDA	80.0	67.02	83.8			40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 26Feb02n-03.d

Lab ID: LCSD 410-763508/10-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
13C7 PFUnA	80.0	68.54	85.7			30-130	
13C2 PFTeDA	80.0	50.40	63.0			10-130	
13C3 PFBS	74.6	69.04	92.6			40-135	
13C3 PFHxS	75.8	69.17	91.2			40-130	
13C8 PFOS	76.6	62.70	81.8			40-130	
13C8 FOSA	80.0	54.30	67.9			40-130	
d3-NMeFOSAA	200	149.7	74.9			40-170	
d5-NEtFOSAA	200	155.3	77.7			25-135	
13C2 4:2 FTS	188	175.3	93.5			40-200	
13C2 6:2 FTS	190	182.2	95.7			40-200	
13C2 8:2 FTS	192	173.2	90.2			40-300	
13C3 HFPO-DA	80.0	78.37	98.0			40-130	
d7-N-MeFOSE-M	200	80.10	40.1			10-130	
d9-N-EtFOSE-M	200	71.36	35.7			10-130	
d5-NEtPFOSA	80.0	43.82	54.8			10-130	
d3-NMePFOSA	80.0	45.47	56.8			10-130	
13C2 PFDoA	80.0	73.90	92.4			10-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 26Feb02n-04.d

Lab ID: LLCS 410-763508/11-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LLCS CONCENTRATION (ng/L)	LLCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	8.00	7.782	97	70-140	
Perfluoropentanoic acid (PFPeA)	4.00	3.966	99	65-135	
Perfluorohexanoic acid (PFHxA)	4.00	4.280	107	70-145	
Perfluoroheptanoic acid (PFHpA)	4.00	3.788	95	70-150	
Perfluorooctanoic acid (PFOA)	4.00	3.847	96	70-150	
Perfluorononanoic acid (PFNA)	4.00	3.528	88	70-150	
Perfluorodecanoic acid (PFDA)	4.00	3.740	93	70-140	
Perfluoroundecanoic acid (PFUnA)	4.00	4.007	100	70-145	
Perfluorododecanoic acid (PFDoA)	4.00	4.241	106	70-140	
Perfluorotridecanoic acid (PFTrDA)	4.00	3.582	90	65-140	
Perfluorotetradecanoic acid (PFTeDA)	4.00	2.738	68	60-140	
Perfluorobutanesulfonic acid (PFBS)	3.55	3.199	90	60-145	
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.561	95	65-140	
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.751	103	65-145	
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.676	96	70-150	
Perfluorooctanesulfonic acid (PFOS)	3.72	4.240	114	55-150	
Perfluorononanesulfonic acid (PFNS)	3.85	3.481	90	65-145	
Perfluorodecanesulfonic acid (PFDS)	3.86	3.157	82	60-145	
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.430	63	50-145	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	6.948	93	70-145	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	7.853	103	65-155	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	6.153	80	60-150	
Perfluorooctanesulfonamide (PFOSA)	4.00	3.761	94	70-145	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 26Feb02n-04.d

Lab ID: LLCS 410-763508/11-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LLCS CONCENTRATION (ng/L)	LLCS % REC	QC LIMITS REC	#
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	3.989	100	60-150	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.581	115	65-145	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	2.916	73	50-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	3.923	98	70-145	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	19.18	96	70-145	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	23.51	118	70-135	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.686	90	70-140	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.552	94	65-145	
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.224	106	55-140	
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.409	85	60-150	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.322	108	50-150	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	3.74	3.119	83	70-155	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	3.78	2.963	78	55-160	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	3.646	102	70-140	
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	7.921	99	65-130	
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	17.84	89	70-135	
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	17.05	85	50-145	
13C4 PFBA	80.0	70.53	88.2	5-130	
13C5 PFPeA	80.0	66.58	83.2	40-130	
13C5 PFHxA	80.0	66.12	82.6	40-130	
13C4 PFHpA	80.0	76.85	96.1	40-130	
13C8 PFOA	80.0	76.39	95.5	40-130	
13C9 PFNA	80.0	77.79	97.2	40-130	
13C6 PFDA	80.0	74.27	92.8	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 26Feb02n-04.d

Lab ID: LLCS 410-763508/11-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LLCS CONCENTRATION (ng/L)	LLCS % REC	QC LIMITS REC	#
13C7 PFUnA	80.0	70.97	88.7	30-130	
13C2 PFTeDA	80.0	53.99	67.5	10-130	
13C3 PFBS	74.6	73.00	97.9	40-135	
13C3 PFHxS	75.8	71.59	94.4	40-130	
13C8 PFOS	76.6	68.07	88.8	40-130	
13C8 FOSA	80.0	59.13	73.9	40-130	
d3-NMeFOSAA	200	154.1	77.0	40-170	
d5-NEtFOSAA	200	150.7	75.3	25-135	
13C2 4:2 FTS	188	186.8	99.6	40-200	
13C2 6:2 FTS	190	197.0	103	40-200	
13C2 8:2 FTS	192	183.8	95.7	40-300	
13C3 HFPO-DA	80.0	75.50	94.4	40-130	
d7-N-MeFOSE-M	200	83.12	41.6	10-130	
d9-N-EtFOSE-M	200	70.34	35.2	10-130	
d5-NEtPFOSA	80.0	42.46	53.1	10-130	
d3-NMePFOSA	80.0	47.68	59.6	10-130	
13C2 PFDoA	80.0	69.95	87.4	10-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-55.d

Lab ID: LLCS 410-764041/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LLCS CONCENTRATION (ug/Kg)	LLCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	0.500	0.472	94	70-140	
Perfluoropentanoic acid (PFPeA)	0.250	0.270	108	60-150	
Perfluorohexanoic acid (PFHxA)	0.250	0.216	86	65-140	
Perfluoroheptanoic acid (PFHpA)	0.250	0.252	101	65-145	
Perfluorooctanoic acid (PFOA)	0.250	0.239	96	70-150	
Perfluorononanoic acid (PFNA)	0.250	0.237	95	70-155	
Perfluorodecanoic acid (PFDA)	0.250	0.240	96	70-155	
Perfluoroundecanoic acid (PFUnA)	0.250	0.254	102	70-155	
Perfluorododecanoic acid (PFDoA)	0.250	0.240	96	70-150	
Perfluorotridecanoic acid (PFTrDA)	0.250	0.220	88	65-150	
Perfluorotetradecanoic acid (PFTeDA)	0.250	0.188 J	75	65-150	
Perfluorobutanesulfonic acid (PFBS)	0.222	0.184 J	83	65-145	
Perfluoropentanesulfonic acid (PFPeS)	0.235	0.201	86	55-160	
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.219	96	60-150	
Perfluoroheptanesulfonic acid (PFHpS)	0.239	0.223	93	65-155	
Perfluorooctanesulfonic acid (PFOS)	0.233	0.216	93	65-160	
Perfluorononanesulfonic acid (PFNS)	0.241	0.213	89	55-140	
Perfluorodecanesulfonic acid (PFDS)	0.241	0.203	84	40-155	
Perfluorododecanesulfonic acid (PFDoS)	0.243	0.147 J	61	25-160	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.450	96	60-150	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.417	88	55-200	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.418	87	70-150	
Perfluorooctanesulfonamide (PFOSA)	0.250	0.232	93	70-140	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-55.d

Lab ID: LLCS 410-764041/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LLCS CONCENTRATION (ug/Kg)	LLCS % REC	QC LIMITS REC	#
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.250	0.223	89	70-155	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.250	0.255	102	70-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.250	0.242	97	65-155	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.250	0.251	100	65-165	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	0.960 J	77	70-140	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	0.936 J	75	70-135	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.188	0.164 J	88	70-145	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.237	0.218	92	70-160	
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.279	112	30-140	
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.216	86	60-150	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.227	91	60-155	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.234	0.205	88	70-150	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.236	0.192 J	81	45-160	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.223	0.208	93	70-140	
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.500	0.565	113	45-130	
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.25	1.100	88	60-130	
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.25	1.067	85	60-150	
13C4 PFBA	5.00	5.136	103	8-130	
13C5 PFPeA	5.00	4.504	90.1	35-130	
13C5 PFHxA	5.00	4.668	93.4	40-130	
13C4 PFHpA	5.00	4.912	98.2	40-130	
13C8 PFOA	5.00	5.105	102	40-130	
13C9 PFNA	5.00	4.646	92.9	40-130	
13C6 PFDA	5.00	4.705	94.1	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-55.d

Lab ID: LLCS 410-764041/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LLCS CONCENTRATION (ug/Kg)	LLCS % REC	QC LIMITS REC	#
13C7 PFUnA	5.00	4.274	85.5	40-130	
13C2 PFTeDA	5.00	2.898	58.0	20-130	
13C3 PFBS	4.66	5.099	109	40-135	
13C3 PFHxS	4.74	4.947	104	40-130	
13C8 PFOS	4.79	4.205	87.8	40-130	
13C8 FOSA	5.00	4.041	80.8	40-130	
d3-NMeFOSAA	12.5	10.56	84.5	40-135	
d5-NEtFOSAA	12.5	9.051	72.4	40-150	
13C2 4:2 FTS	11.7	10.96	93.5	40-165	
13C2 6:2 FTS	11.9	11.92	100	40-215	
13C2 8:2 FTS	12.0	12.05	100	40-275	
13C3 HFPO-DA	5.00	4.714	94.3	40-130	
d7-N-MeFOSE-M	12.5	1.264	10.1	20-130	*
d9-N-EtFOSE-M	12.5	0.656	5.25	15-130	*
d5-NEtPFOSA	5.00	2.594	51.9	10-130	
d3-NMePFOSA	5.00	2.820	56.4	10-130	
13C2 PFDoA	5.00	4.014	80.3	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26FEB05JO-30.d

Lab ID: LLCS 410-765112/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LLCS CONCENTRATION (ug/Kg)	LLCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	0.481	0.431	90	70-140	
Perfluoropentanoic acid (PFPeA)	0.240	0.227	95	60-150	
Perfluorohexanoic acid (PFHxA)	0.240	0.216	90	65-140	
Perfluoroheptanoic acid (PFHpA)	0.240	0.184 J	76	65-145	
Perfluorooctanoic acid (PFOA)	0.240	0.213	89	70-150	
Perfluorononanoic acid (PFNA)	0.240	0.225	94	70-155	
Perfluorodecanoic acid (PFDA)	0.240	0.209	87	70-155	
Perfluoroundecanoic acid (PFUnA)	0.240	0.200	83	70-155	
Perfluorododecanoic acid (PFDoA)	0.240	0.206	86	70-150	
Perfluorotridecanoic acid (PFTrDA)	0.240	0.221	92	65-150	
Perfluorotetradecanoic acid (PFTeDA)	0.240	0.197	82	65-150	
Perfluorobutanesulfonic acid (PFBS)	0.213	0.187 J	87	65-145	
Perfluoropentanesulfonic acid (PFPeS)	0.226	0.186 J	82	55-160	
Perfluorohexanesulfonic acid (PFHxS)	0.219	0.202	92	60-150	
Perfluoroheptanesulfonic acid (PFHpS)	0.229	0.209	91	65-155	
Perfluorooctanesulfonic acid (PFOS)	0.224	0.211	94	65-160	
Perfluorononanesulfonic acid (PFNS)	0.231	0.181 J	78	55-140	
Perfluorodecanesulfonic acid (PFDS)	0.232	0.174 J	75	40-155	
Perfluorododecanesulfonic acid (PFDoS)	0.233	0.166 J	71	25-160	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.451	0.380	84	60-150	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.458	0.357 J	78	55-200	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.462	0.398	86	70-150	
Perfluorooctanesulfonamide (PFOSA)	0.240	0.224	93	70-140	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26FEB05JO-30.d

Lab ID: LLCS 410-765112/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LLCS CONCENTRATION (ug/Kg)	LLCS % REC	QC LIMITS REC	#
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.240	0.223	93	70-155	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.240	0.224	93	70-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.240	0.213	89	65-155	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.240	0.217	90	65-165	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.20	1.340	111	70-140	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.20	0.843 J	70	70-135	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.180	0.162 J	90	70-145	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.227	0.209	92	70-160	
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.240	0.239	99	30-140	
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.240	0.208	87	60-150	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.240	0.225	94	60-155	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.225	0.197	88	70-150	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.227	0.171 J	75	45-160	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.214	0.170 J	79	70-140	
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.481	0.391	81	45-130	
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.20	0.872 J	73	60-130	
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.20	0.750 J	62	60-150	
13C4 PFBA	4.81	4.052	84.3	8-130	
13C5 PFPeA	4.81	4.004	83.3	35-130	
13C5 PFHxA	4.81	4.121	85.7	40-130	
13C4 PFHpA	4.81	4.160	86.5	40-130	
13C8 PFOA	4.81	4.053	84.3	40-130	
13C9 PFNA	4.81	3.834	79.7	40-130	
13C6 PFDA	4.81	4.013	83.5	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26FEB05JO-30.d

Lab ID: LLCS 410-765112/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LLCS CONCENTRATION (ug/Kg)	LLCS % REC	QC LIMITS REC	#
13C7 PFUnA	4.81	4.630	96.3	40-130	
13C2 PFTeDA	4.81	3.457	71.9	20-130	
13C3 PFBS	4.48	3.884	86.7	40-135	
13C3 PFHxS	4.56	3.954	86.8	40-130	
13C8 PFOS	4.61	3.689	80.1	40-130	
13C8 FOSA	4.81	3.422	71.2	40-130	
d3-NMeFOSAA	12.0	7.927	66.0	40-135	
d5-NEtFOSAA	12.0	7.905	65.8	40-150	
13C2 4:2 FTS	11.3	9.683	85.9	40-165	
13C2 6:2 FTS	11.4	10.91	95.4	40-215	
13C2 8:2 FTS	11.5	8.659	75.0	40-275	
13C3 HFPO-DA	4.81	4.069	84.6	40-130	
d7-N-MeFOSE-M	12.0	0.840	6.99	20-130	*
d9-N-EtFOSE-M	12.0	0.285	2.37	15-130	*
d5-NEtPFOSA	4.81	2.437	50.7	10-130	
d3-NMePFOSA	4.81	2.486	51.7	10-130	
13C2 PFDoA	4.81	4.062	84.5	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-61.d

Lab ID: 460-344049-A-5-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)	4.85	0.16 J	4.496	90	70-140	
Perfluoropentanoic acid (PFPeA)	2.42	0.19 U	2.196	91	60-150	
Perfluorohexanoic acid (PFHxA)	2.42	0.19 U	2.294	95	65-140	
Perfluoroheptanoic acid (PFHpA)	2.42	0.11 J	2.346	92	65-145	
Perfluorooctanoic acid (PFOA)	2.42	0.62	3.003	98	70-150	
Perfluorononanoic acid (PFNA)	2.42	0.10 J	2.327	92	70-155	
Perfluorodecanoic acid (PFDA)	2.42	0.13 J	2.266	88	70-155	
Perfluoroundecanoic acid (PFUnA)	2.42	0.19 U	2.392	99	70-155	
Perfluorododecanoic acid (PFDoA)	2.42	0.19 U	2.384	98	70-150	
Perfluorotridecanoic acid (PFTrDA)	2.42	0.19 U	2.060	85	65-150	
Perfluorotetradecanoic acid (PFTeDA)	2.42	0.19 U	2.197	91	65-150	
Perfluorobutanesulfonic acid (PFBS)	2.15	0.19 U	1.949	91	65-145	
Perfluoropentanesulfonic acid (PFPeS)	2.28	0.19 U	2.179	96	55-160	
Perfluorohexanesulfonic acid (PFHxS)	2.21	0.18 J	2.230	93	60-150	
Perfluoroheptanesulfonic acid (PFHpS)	2.31	0.19 U	2.235	97	65-155	
Perfluorooctanesulfonic acid (PFOS)	2.25	1.56	3.657	93	65-160	
Perfluorononanesulfonic acid (PFNS)	2.33	0.19 U	2.063	89	55-140	
Perfluorodecanesulfonic acid (PFDS)	2.34	0.19 U	1.974	85	40-155	
Perfluorododecanesulfonic acid (PFDoS)	2.35	0.19 U	1.660	71	25-160	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.55	0.39 U	4.235	93	60-150	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.61	0.39 U	4.003	87	55-200	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.65	0.39 U	4.284	92	70-150	
Perfluorooctanesulfonamide (PFOSA)	2.42	0.19 U	2.317	96	70-140	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-61.d

Lab ID: 460-344049-A-5-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.42	0.19 U	2.364	98	70-155	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.42	0.19 U	2.342	97	70-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.42	0.19 U	1.969	81	65-155	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.42	0.19 U	2.399	99	65-165	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.1	0.59 J	11.82	93	70-140	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.1	0.67 J	10.56	82	70-135	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.82	0.19 U	1.694	93	70-145	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.29	0.19 U	2.144	94	70-160	
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.42	0.19 U	2.388	99	30-140	
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.42	0.19 U	2.213	91	60-150	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.42	0.19 U	2.296	95	60-155	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	2.26	0.19 U	2.071	91	70-150	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	2.29	0.19 U	1.914	84	45-160	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.16	0.19 U	2.134	99	70-140	
3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.85	0.39 U	4.379	90	45-130	
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.1	0.97 U	10.19	84	60-130	
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.1	0.97 U	11.09	92	60-150	
13C4 PFBA	4.85	4.75	4.951	102	8-130	
13C5 PFPeA	4.85	4.71	4.766	98.3	35-130	
13C5 PFHxA	4.85	4.73	4.588	94.7	40-130	
13C4 PFHpA	4.85	5.11	4.782	98.7	40-130	
13C8 PFOA	4.85	4.94	5.038	104	40-130	
13C9 PFNA	4.85	4.68	4.749	98.0	40-130	
13C6 PFDA	4.85	4.52	4.855	100	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-61.d

Lab ID: 460-344049-A-5-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
13C7 PFUnA	4.85	4.61	4.434	91.5	40-130	
13C2 PFTeDA	4.85	3.17	3.511	72.4	20-130	
13C3 PFBS	4.52	4.62	4.522	100	40-135	
13C3 PFHxS	4.59	4.28	4.419	96.2	40-130	
13C8 PFOS	4.64	3.93	4.408	95.0	40-130	
13C8 FOSA	4.85	3.91	4.147	85.6	40-130	
d3-NMeFOSAA	12.1	11.4	12.38	102	40-135	
d5-NEtFOSAA	12.1	10.7	11.33	93.5	40-150	
13C2 4:2 FTS	11.4	19.0	16.79	148	40-165	
13C2 6:2 FTS	11.5	17.6	17.27	150	40-215	
13C2 8:2 FTS	11.6	14.8	13.43	115	40-275	
13C3 HFPO-DA	4.85	4.74	4.589	94.7	40-130	
d7-N-MeFOSE-M	12.1	2.49	4.188	34.6	20-130	
d9-N-EtFOSE-M	12.1	1.35	3.982	32.9	15-130	
d5-NEtPFOSA	4.85	3.23	3.610	74.5	10-130	
d3-NMePFOSA	4.85	3.22	3.620	74.7	10-130	
13C2 PFDoA	4.85	3.93	4.318	89.1	40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-62.d

Lab ID: 460-344049-A-5-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	4.77	4.443	90	1	30	70-140	
Perfluoropentanoic acid (PFPeA)	2.38	2.265	95	3	30	60-150	
Perfluorohexanoic acid (PFHxA)	2.38	2.125	89	8	30	65-140	
Perfluoroheptanoic acid (PFHpA)	2.38	2.156	86	8	30	65-145	
Perfluorooctanoic acid (PFOA)	2.38	3.004	100	0	30	70-150	
Perfluorononanoic acid (PFNA)	2.38	2.372	95	2	30	70-155	
Perfluorodecanoic acid (PFDA)	2.38	2.306	91	2	30	70-155	
Perfluoroundecanoic acid (PFUnA)	2.38	2.340	98	2	30	70-155	
Perfluorododecanoic acid (PFDoA)	2.38	2.358	99	1	30	70-150	
Perfluorotridecanoic acid (PFTrDA)	2.38	2.031	85	1	30	65-150	
Perfluorotetradecanoic acid (PFTeDA)	2.38	2.119	89	4	30	65-150	
Perfluorobutanesulfonic acid (PFBS)	2.12	1.842	87	6	30	65-145	
Perfluoropentanesulfonic acid (PFPeS)	2.24	2.073	93	5	30	55-160	
Perfluorohexanesulfonic acid (PFHxS)	2.17	2.054	86	8	30	60-150	
Perfluoroheptanesulfonic acid (PFHpS)	2.27	2.343	103	5	30	65-155	
Perfluorooctanesulfonic acid (PFOS)	2.22	4.908	151	29	30	65-160	
Perfluorononanesulfonic acid (PFNS)	2.29	2.175	95	5	30	55-140	
Perfluorodecanesulfonic acid (PFDS)	2.30	2.053	89	4	30	40-155	
Perfluorododecanesulfonic acid (PFDoS)	2.31	1.906	82	14	30	25-160	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.47	4.456	100	5	30	60-150	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.54	4.008	88	0	30	55-200	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.58	4.372	95	2	30	70-150	
Perfluorooctanesulfonamide (PFOSA)	2.38	2.133	89	8	30	70-140	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-62.d

Lab ID: 460-344049-A-5-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.38	2.222	93	6	30	70-155	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.38	2.150	90	9	30	70-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.38	2.036	85	3	30	65-155	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.38	2.220	93	8	30	65-165	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	11.9	11.31	90	4	30	70-140	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	11.9	10.24	80	3	30	70-135	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.79	1.631	91	4	30	70-145	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.26	2.193	97	2	30	70-160	
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.38	2.382	100	0	30	30-140	
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.38	2.067	87	7	30	60-150	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.38	2.264	95	1	30	60-155	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	2.23	2.148	96	4	30	70-150	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	2.25	2.052	91	7	30	45-160	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.13	1.834	86	15	30	70-140	
3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.77	4.248	89	3	30	45-130	
3-Perfluoropentylpropanoic acid (5:3 FTCA)	11.9	9.874	83	3	30	60-130	
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	11.9	11.47	96	3	30	60-150	
13C4 PFBA	4.77	4.562	95.7			8-130	
13C5 PFPeA	4.77	4.641	97.3			35-130	
13C5 PFHxA	4.77	4.799	101			40-130	
13C4 PFHpA	4.77	5.064	106			40-130	
13C8 PFOA	4.77	4.915	103			40-130	
13C9 PFNA	4.77	4.953	104			40-130	
13C6 PFDA	4.77	4.918	103			40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26Feb04SD-62.d

Lab ID: 460-344049-A-5-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
13C7 PFUnA	4.77	4.754	99.7			40-130	
13C2 PFTeDA	4.77	3.922	82.2			20-130	
13C3 PFBS	4.44	4.010	90.2			40-135	
13C3 PFHxS	4.52	4.404	97.4			40-130	
13C8 PFOS	4.57	4.341	95.0			40-130	
13C8 FOSA	4.77	4.686	98.3			40-130	
d3-NMeFOSAA	11.9	14.17	119			40-135	
d5-NEtFOSAA	11.9	13.73	115			40-150	
13C2 4:2 FTS	11.2	17.65	158			40-165	
13C2 6:2 FTS	11.3	20.13	177			40-215	
13C2 8:2 FTS	11.4	16.23	142			40-275	
13C3 HFPO-DA	4.77	4.619	96.9			40-130	
d7-N-MeFOSE-M	11.9	7.350	61.7			20-130	
d9-N-EtFOSE-M	11.9	6.872	57.6			15-130	
d5-NEtPFOSA	4.77	4.124	86.5			10-130	
d3-NMePFOSA	4.77	4.006	84.0			10-130	
13C2 PFDoA	4.77	4.440	93.1			40-130	

Column to be used to flag recovery and RPD values

FORM III 1633A

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab File ID: 26Feb02n-01.d Lab Sample ID: MB 410-763508/8-A

Matrix: Water Date Extracted: 02/02/2026 14:36

Instrument ID: 30576 Date Analyzed: 02/02/2026 21:16

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-763508/9-A	26Feb02n-02.d	02/02/2026 21:30
	LCSD 410-763508/10-A	26Feb02n-03.d	02/02/2026 21:57
	LLCS 410-763508/11-A	26Feb02n-04.d	02/02/2026 22:10
FB_012926_P	460-344047-7	26Feb02n-10.d	02/02/2026 23:32

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab File ID: 26Feb04SD-53.d Lab Sample ID: MB 410-764041/1-A

Matrix: Solid Date Extracted: 02/03/2026 13:57

Instrument ID: 30575 Date Analyzed: 02/04/2026 18:24

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-764041/2-A	26Feb04SD-54.d	02/04/2026 18:37
	LLCS 410-764041/3-A	26Feb04SD-55.d	02/04/2026 18:51
	460-344049-A-5-B MS	26Feb04SD-61.d	02/04/2026 20:13
	460-344049-A-5-C MSD	26Feb04SD-62.d	02/04/2026 20:26

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab File ID: 26FEB05JO-28.d Lab Sample ID: MB 410-765112/1-A

Matrix: Solid Date Extracted: 02/05/2026 10:14

Instrument ID: 30577 Date Analyzed: 02/05/2026 20:04

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-765112/2-A	26FEB05JO-29.d	02/05/2026 20:18
	LLCS 410-765112/3-A	26FEB05JO-30.d	02/05/2026 20:32
RXSB-19 (0-2)_P	460-344047-1	26FEB05JO-31.d	02/05/2026 20:45
RXSB-19 (6-8)_P	460-344047-2	26FEB05JO-32.d	02/05/2026 20:59
RXSB-16 (0-2)_P	460-344047-3	26FEB05JO-33.d	02/05/2026 21:12
RXSB-16 (6-8)_P	460-344047-4	26FEB05JO-34.d	02/05/2026 21:26
RXSB-17 (6-8)_P	460-344047-5	26FEB05JO-35.d	02/05/2026 21:40
DUP_012926	460-344047-6	26FEB05JO-36.d	02/05/2026 21:53

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30575 Calibration Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 02/02/2026 16:40

Calibration ID: 81396

		13C3PFBA		PFHxA		PFOA	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		2134295	4.34	5999215	5.43	8583400	6.24
UPPER LIMIT		4268590	4.74	11998430	5.83	17166800	6.64
LOWER LIMIT		1067148	3.94	2999608	5.03	4291700	5.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-763424/9		2178258	4.35	5962859	5.43	8728070	6.24
ICV 410-763424/10		2227718	4.35	6198879	5.42	8892572	6.24
CCVO 410-764500/1		2221376	4.37	5616173	5.44	8932058	6.24
CCV 410-764500/134		2298123	4.39	5728705	5.46	8674183	6.25
CCB 410-764500/135		2080955	4.37	5329497	5.44	7749314	6.24
MB 410-764041/1-A		2388369	4.38	6392003	5.46	8364991	6.25
LCS 410-764041/2-A		2304080	4.36	6160365	5.44	8724458	6.23
LLCS 410-764041/3-A		2320124	4.36	6634915	5.42	8029987	6.22
460-344049-A-5-B MS		2369653	4.35	6719335	5.43	8979577	6.23
460-344049-A-5-C MSD		2481560	4.36	6530909	5.44	9394300	6.23
460-344047-1 RE	RXSB-19 (0-2)_P RE	2239879	4.36	7684127	5.44	8751314	6.23
460-344047-2 RE	RXSB-19 (6-8)_P RE	2362412	4.34	6414588	5.41	8283659	6.21
460-344047-3 RE	RXSB-16 (0-2)_P RE	2425398	4.35	7056481	5.43	9531205	6.22
460-344047-4 RE	RXSB-16 (6-8)_P RE	2313080	4.35	6382867	5.43	8878644	6.22
460-344047-5 RE	RXSB-17 (6-8)_P RE	2205576	4.35	5900296	5.43	8158337	6.22
CCV 410-764500/152		2251032	4.37	6110482	5.44	8739864	6.24
CCB 410-764500/153		2098898	4.37	5306413	5.44	8198648	6.23
460-344047-6 RE	DUP_012926 RE	2385174	4.36	6971859	5.43	9524435	6.23
CCV 410-764500/154		2262151	4.37	5922114	5.45	8863942	6.24
CCB 410-764500/155		2102740	4.37	5807866	5.45	8200004	6.25

13C3PFBA = 13C3-PFBA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 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 Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30575 Calibration Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 02/02/2026 16:40

Calibration ID: 81396

		PFHxS		PFNA		PFDA	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1684502	6.46	2926572	6.62	3065741	7.02
UPPER LIMIT		3369004	6.86	5853144	7.02	6131482	7.42
LOWER LIMIT		842251	6.06	1463286	6.22	1532871	6.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-763424/9		1664878	6.46	2915453	6.63	2868594	7.01
ICV 410-763424/10		1737635	6.45	3165149	6.63	3151614	7.01
CCVO 410-764500/1		1780479	6.46	3095578	6.63	3252262	7.01
CCV 410-764500/134		1767360	6.47	3074433	6.63	3371073	7.01
CCB 410-764500/135		1714181	6.46	2907343	6.62	3112730	7.00
MB 410-764041/1-A		1656169	6.46	3337146	6.63	3253319	7.00
LCS 410-764041/2-A		1781850	6.44	2978908	6.61	3167603	7.00
LLCS 410-764041/3-A		1749251	6.43	3088599	6.60	3084122	6.98
460-344049-A-5-B MS		1905127	6.44	3192424	6.61	3387508	6.98
460-344049-A-5-C MSD		1977907	6.44	3143702	6.61	3399412	6.98
460-344047-1 RE	RXSB-19 (0-2)_P RE	2013425	6.44	3313064	6.60	3637384	6.98
460-344047-2 RE	RXSB-19 (6-8)_P RE	1849965	6.43	3087091	6.59	3211210	6.97
460-344047-3 RE	RXSB-16 (0-2)_P RE	1913723	6.43	3378015	6.60	3434394	6.98
460-344047-4 RE	RXSB-16 (6-8)_P RE	1772514	6.43	3218147	6.60	3170687	6.98
460-344047-5 RE	RXSB-17 (6-8)_P RE	1708081	6.44	3242326	6.60	3157831	6.98
CCV 410-764500/152		1704853	6.44	2925145	6.61	3227192	6.99
CCB 410-764500/153		1590307	6.44	2718966	6.61	2986385	7.00
460-344047-6 RE	DUP_012926 RE	2018690	6.44	3492124	6.61	3419181	6.99
CCV 410-764500/154		1837520	6.45	3096287	6.63	3235061	7.01
CCB 410-764500/155		1583155	6.46	2920556	6.62	3208491	7.00

PFHxS = 18O2 PFHxS
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 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 Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30575 Calibration Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 02/02/2026 16:40

Calibration ID: 81396

		PFOS					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1590573	7.27				
UPPER LIMIT		3181146	7.67				
LOWER LIMIT		795287	6.87				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-763424/9		1660425	7.26				
ICV 410-763424/10		1674342	7.26				
CCVO 410-764500/1		1684598	7.25				
CCV 410-764500/134		1787557	7.26				
CCB 410-764500/135		1582127	7.25				
MB 410-764041/1-A		1799976	7.24				
LCS 410-764041/2-A		1756169	7.24				
LLCS 410-764041/3-A		1822989	7.22				
460-344049-A-5-B MS		1758656	7.22				
460-344049-A-5-C MSD		1695930	7.22				
460-344047-1 RE	RXSB-19 (0-2)_P RE	1815331	7.22				
460-344047-2 RE	RXSB-19 (6-8)_P RE	1841358	7.21				
460-344047-3 RE	RXSB-16 (0-2)_P RE	1812268	7.23				
460-344047-4 RE	RXSB-16 (6-8)_P RE	1868461	7.23				
460-344047-5 RE	RXSB-17 (6-8)_P RE	1758412	7.22				
CCV 410-764500/152		1744796	7.24				
CCB 410-764500/153		1622664	7.24				
460-344047-6 RE	DUP_012926 RE	1909546	7.23				
CCV 410-764500/154		1707775	7.25				
CCB 410-764500/155		1597253	7.25				

PFOS = 13C4 PFOS

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 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 Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30576 Calibration Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 01/29/2026 02:14

Calibration ID: 81265

		13C3PFBA		PFHxA		PFOA	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1302393	4.19	3721408	5.30	5250370	6.16
UPPER LIMIT		2604786	4.59	7442816	5.70	10500740	6.56
LOWER LIMIT		651197	3.79	1860704	4.90	2625185	5.76
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-761807/9		1353886	4.18	3619981	5.31	5193884	6.15
ICV 410-761807/10		1268556	4.18	3450124	5.31	5096865	6.15
CCVO 410-763219/1		1478208	4.17	4203630	5.28	5889684	6.12
CCV 410-763219/37		1414443	4.16	4233945	5.28	5650144	6.10
CCB 410-763219/38		1448114	4.16	4221319	5.27	5733252	6.10
MB 410-763508/8-A		1511478	4.18	4377900	5.30	6123919	6.15
LCS 410-763508/9-A		1519942	4.16	4587308	5.28	6117117	6.11
LCSD 410-763508/10-A		1448751	4.16	4069226	5.29	5858567	6.12
LLCS 410-763508/11-A		1454530	4.15	4258612	5.27	5695401	6.10
460-344047-7	FB_012926_P	1462452	4.16	4418283	5.26	5992020	6.08
CCV 410-763219/64		1436515	4.16	4256358	5.27	6080435	6.10
CCB 410-763219/65		1495016	4.16	4204438	5.27	6284016	6.11

13C3PFBA = 13C3-PFBA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 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 Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30576 Calibration Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 01/29/2026 02:14

Calibration ID: 81265

		PFHxS		PFNA		PFDA	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1405977	6.40	1808542	6.58	1703459	7.00
UPPER LIMIT		2811954	6.80	3617084	6.98	3406918	7.40
LOWER LIMIT		702989	6.00	904271	6.18	851730	6.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-761807/9		1431584	6.40	1863208	6.57	1572023	7.00
ICV 410-761807/10		1367246	6.40	1728657	6.57	1593752	7.00
CCVO 410-763219/1		1554302	6.35	2002071	6.53	1755078	6.94
CCV 410-763219/37		1575317	6.33	1927727	6.51	1843174	6.92
CCB 410-763219/38		1656057	6.33	2072160	6.51	1798358	6.92
MB 410-763508/8-A		1682366	6.38	2273799	6.57	1837818	6.99
LCS 410-763508/9-A		1626262	6.35	2148175	6.53	1904473	6.95
LCSD 410-763508/10-A		1630621	6.35	2076735	6.53	1856687	6.94
LLCS 410-763508/11-A		1568893	6.33	1983842	6.51	1831850	6.92
460-344047-7	FB_012926_P	1575175	6.32	2075982	6.49	1836378	6.90
CCV 410-763219/64		1560899	6.33	1940150	6.51	1856819	6.92
CCB 410-763219/65		1642635	6.34	2064515	6.52	1909628	6.93

PFHxS = 18O2 PFHxS
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 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 Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30576 Calibration Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 01/29/2026 02:14

Calibration ID: 81265

		PFOS					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1172784	7.29				
UPPER LIMIT		2345568	7.69				
LOWER LIMIT		586392	6.89				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-761807/9		1181521	7.28				
ICV 410-761807/10		1169724	7.28				
CCVO 410-763219/1		1340198	7.21				
CCV 410-763219/37		1259087	7.19				
CCB 410-763219/38		1408996	7.19				
MB 410-763508/8-A		1441787	7.28				
LCS 410-763508/9-A		1394255	7.23				
LCSD 410-763508/10-A		1486725	7.21				
LLCS 410-763508/11-A		1425231	7.19				
460-344047-7	FB_012926_P	1444116	7.17				
CCV 410-763219/64		1304551	7.19				
CCB 410-763219/65		1446143	7.20				

PFOS = 13C4 PFOS

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 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 Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30577 Calibration Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 02/04/2026 11:14

Calibration ID: 81502

		13C3PFBA		PFHxA		PFOA	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1668801	4.18	4816677	5.29	6680466	6.13
UPPER LIMIT		3337602	4.58	9633354	5.69	13360932	6.53
LOWER LIMIT		834401	3.78	2408339	4.89	3340233	5.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-764442/9		1743565	4.18	5259980	5.29	7282127	6.13
ICV 410-764442/10		1723037	4.18	4790407	5.29	6581360	6.12
CCVO 410-765196/1		1737613	4.19	4743107	5.30	6977947	6.14
CCV 410-765196/130		1841284	4.20	5158585	5.30	7454763	6.14
CCB 410-765196/131		1719392	4.21	4868539	5.32	6918616	6.15
MB 410-765112/1-A		1779916	4.18	5094652	5.30	6887209	6.13
LCS 410-765112/2-A		2108689	4.19	6004706	5.30	7786063	6.14
LLCS 410-765112/3-A		2044268	4.18	5798474	5.29	8008784	6.12
460-344047-1	RXSB-19 (0-2)_P	2115994	4.19	6479398	5.29	8514003	6.13
460-344047-2	RXSB-19 (6-8)_P	2082428	4.19	5909542	5.29	7894729	6.13
460-344047-3	RXSB-16 (0-2)_P	2156343	4.18	6578452	5.30	8548995	6.13
460-344047-4	RXSB-16 (6-8)_P	2076409	4.19	6045076	5.30	8095189	6.13
460-344047-5	RXSB-17 (6-8)_P	2120102	4.20	6174044	5.30	7992477	6.13
460-344047-6	DUP_012926	2172876	4.19	6299857	5.29	8162204	6.12
CCV 410-765196/151		1719750	4.20	4786821	5.30	6527472	6.13
CCB 410-765196/152		1687933	4.21	4883233	5.31	6591745	6.14

13C3PFBA = 13C3-PFBA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 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 Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30577 Calibration Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 02/04/2026 11:14

Calibration ID: 81502

		PFHxS		PFNA		PFDA	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1644277	6.37	1969378	6.54	2260390	6.96
UPPER LIMIT		3288554	6.77	3938756	6.94	4520780	7.36
LOWER LIMIT		822139	5.97	984689	6.14	1130195	6.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-764442/9		1661831	6.37	2096981	6.55	2165148	6.97
ICV 410-764442/10		1639484	6.37	2006099	6.55	2265662	6.96
CCVO 410-765196/1		1678281	6.38	2029077	6.56	2103959	6.97
CCV 410-765196/130		1655311	6.38	2226994	6.56	2149837	6.97
CCB 410-765196/131		1570360	6.39	2044606	6.57	2025326	6.98
MB 410-765112/1-A		1701532	6.37	2094044	6.55	2060700	6.96
LCS 410-765112/2-A		1969250	6.38	2494980	6.56	2433581	6.96
LLCS 410-765112/3-A		1923254	6.36	2430666	6.54	2366940	6.95
460-344047-1	RXSB-19 (0-2)_P	2101159	6.36	2744036	6.54	2674657	6.95
460-344047-2	RXSB-19 (6-8)_P	1947346	6.36	2497965	6.54	2440115	6.96
460-344047-3	RXSB-16 (0-2)_P	2035773	6.37	2644616	6.54	2768132	6.95
460-344047-4	RXSB-16 (6-8)_P	1897777	6.36	2427601	6.54	2679936	6.95
460-344047-5	RXSB-17 (6-8)_P	1972809	6.36	2493493	6.54	2357650	6.95
460-344047-6	DUP_012926	2072894	6.36	2595951	6.54	2542928	6.95
CCV 410-765196/151		1652834	6.37	2070480	6.55	2022640	6.96
CCB 410-765196/152		1711086	6.38	2123491	6.56	2035717	6.97

PFHxS = 18O2 PFHxS
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 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 Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30577 Calibration Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 02/04/2026 11:14

Calibration ID: 81502

		PFOS					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1384446	7.23				
UPPER LIMIT		2768892	7.63				
LOWER LIMIT		692223	6.83				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-764442/9		1539311	7.23				
ICV 410-764442/10		1360059	7.23				
CCVO 410-765196/1		1414893	7.24				
CCV 410-765196/130		1340814	7.24				
CCB 410-765196/131		1430220	7.25				
MB 410-765112/1-A		1490792	7.23				
LCS 410-765112/2-A		1783950	7.23				
LLCS 410-765112/3-A		1720246	7.21				
460-344047-1	RXSB-19 (0-2)_P	1733646	7.22				
460-344047-2	RXSB-19 (6-8)_P	1750816	7.22				
460-344047-3	RXSB-16 (0-2)_P	1679081	7.22				
460-344047-4	RXSB-16 (6-8)_P	1744793	7.21				
460-344047-5	RXSB-17 (6-8)_P	1671667	7.21				
460-344047-6	DUP_012926	1703626	7.21				
CCV 410-765196/151		1383629	7.22				
CCB 410-765196/152		1403635	7.23				

PFOS = 13C4 PFOS

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-19 (0-2)_P
Lab Sample ID: 460-344047-1

Matrix: Solid
Lab File ID: 26FEB05JO-31.d

Analysis Method: 1633A
Date Collected: 01/29/2026 09:45

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.30(g)
Date Analyzed: 02/05/2026 20:45

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 11.3 % Solids: 88.7
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.39	U	0.39	0.098
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.098
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.098
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.15	J	0.20	0.059
375-95-1	Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.098
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.059
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.098
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.098
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.098
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.098
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.098
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.098
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.098
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.098
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.27		0.20	0.098
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.098
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.098
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.098
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.39	U	0.39	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.39	U	0.39	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.39	U	0.39	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.098
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.098
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.098

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-19 (0-2)_P
Lab Sample ID: 460-344047-1

Matrix: Solid
Lab File ID: 26FEB05JO-31.d

Analysis Method: 1633A
Date Collected: 01/29/2026 09:45

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.30(g)
Date Analyzed: 02/05/2026 20:45

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 11.3 % Solids: 88.7
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.098
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.098
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.98	U	0.98	0.49
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.98	U	0.98	0.49
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.20	0.098
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.20	0.098
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	0.20	0.098
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	0.20	0.098
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.20	U	0.20	0.098
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.20	U	0.20	0.098
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.20	U	0.20	0.098
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.20	U	0.20	0.098
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.39	U	0.39	0.20
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.98	U	0.98	0.49
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.98	U	0.98	0.49

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-19 (0-2)_P Lab Sample ID: 460-344047-1

Matrix: Solid Lab File ID: 26FEB05JO-31.d

Analysis Method: 1633A Date Collected: 01/29/2026 09:45

Extraction Method: 1633A Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.30(g) Date Analyzed: 02/05/2026 20:45

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 11.3 % Solids: 88.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196 Units: ug/Kg

Preparation Batch No.: 765112 Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	64.4		8-130
2283397-79-3	13C5 PFPeA	59.3		35-130
2328024-54-8	13C5 PFHxA	54.6		40-130
2328024-55-9	13C4 PFHpA	57.9		40-130
1350614-84-4	13C8 PFOA	58.8		40-130
2283397-80-6	13C9 PFNA	52.8		40-130
2328024-56-0	13C6 PFDA	57.2		40-130
STL02580	13C7 PFUnA	59.0		40-130
STL02116	13C2 PFTeDA	49.5		20-130
2708218-83-9	13C3 PFBS	57.7		40-135
2708218-85-1	13C3 PFHxS	55.9		40-130
2265893-05-6	13C8 PFOS	57.5		40-130
STL01056	13C8 FOSA	51.5		40-130
1400690-70-1	d3-NMeFOSAA	54.6		40-135
1265205-97-7	d5-NEtFOSAA	57.0		40-150
STL02395	13C2 4:2 FTS	141		40-165
STL02279	13C2 6:2 FTS	144		40-215
STL02280	13C2 8:2 FTS	104		40-275
STL02255	13C3 HFPO-DA	54.8		40-130
STL02277	d7-N-MeFOSE-M	21.1		20-130
STL02278	d9-N-EtFOSE-M	16.8		15-130
STL02704	d5-NEtPFOSA	39.1		10-130
STL02705	d3-NMePFOSA	43.3		10-130
960315-52-0	13C2 PFDoA	58.8		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-31.d
Lims ID: 460-344047-A-1-B
Client ID: RXSB-19 (0-2)_P
Sample Type: Client
Inject. Date: 05-Feb-2026 20:45:40 ALS Bottle#: 16 Worklist Smp#: 135
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 460-344047-A-1-B
Misc. Info.: Plate: 1 Rack: 1 410-0174796-135
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:49:43
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 4 13C4-PFBA										
216.80 > 171.90	4.187	4.187	0.0	1.000	1398828	1.29		64.4	7868	
* 5 13C3PFBA										
216.00 > 172.00	4.187	4.187	0.0		2115994	2.00			5172	
D 8 13C5 PFPeA										
268.30 > 223.00	4.843	4.844	-0.001	0.915	1338657	1.19		59.3	5257	
9 PFPA										
263.00 > 219.00	4.843	4.844	-0.001	1.000	12578	0.0157			7.1	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.119	5.121	-0.002	0.805	1735534	6.60		141	767	
D 15 13C5 PFHxA										
318.00 > 273.00	5.301	5.303	-0.002	1.002	1499092	1.09		54.6	4117	
* 16 13C2 PFHxA										
315.10 > 270.00	5.291	5.303	-0.012		6479398	5.00			5134	
17 PFHxA										
313.00 > 269.00	5.291	5.303	-0.012	0.998	14126	0.0218	Target=10.06		8.4	
313.00 > 118.90	5.312	5.303	0.009	1.002	2084		6.78(5.03-15.10)		4.3	
D 19 13C3 PFBS										
302.10 > 79.90	5.436	5.437	-0.001	0.855	1518281	1.08		57.7	5638	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.475	5.486	-0.011	1.035	1024308	1.10		54.8	3005	
D 28 13C4 PFHpA										
367.10 > 322.00	5.720	5.732	-0.012	1.081	1553174	1.16		57.9	4050	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.918	5.930	-0.012	0.931	1518571	6.83		144	3471	
* 34 13C4 PFOA										
417.10 > 372.00	6.132	6.143	-0.011		8514003	5.00			6100	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.122	6.143	-0.021	0.998	2038888	1.18		58.8	3151	
36 PFOA										M
413.00 > 369.00	6.122	6.143	-0.021	1.000	38267	0.0605	Target=1.91		33.8	M
413.00 > 169.00	6.122	6.143	-0.021	1.000	13440		2.85(0.96-2.87)		19.9	M
* 39 18O2 PFHxS										
403.00 > 83.90	6.357	6.379	-0.022		2101159	1.90			5433	
D 38 13C3 PFHxS										
402.10 > 79.90	6.357	6.379	-0.022	1.000	1264828	1.06		55.9	4053	
D 41 13C9 PFNA										
472.10 > 427.00	6.535	6.549	-0.014	1.000	1498925	1.06		52.8	3079	
* 42 13C5 PFNA										
468.00 > 423.00	6.535	6.560	-0.025		2744036	2.00			5464	
43 PFNA										M
463.00 > 419.00	6.535	6.570	-0.035	1.000	9613	0.0148	Target=2.01		19.5	M
463.00 > 219.00	6.557	6.570	-0.013	1.003	3488		2.76(1.01-3.02)		9.2	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.725	6.737	-0.012	1.058	1150965	5.01		104	3717	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.888	6.899	-0.011	0.954	1274717	2.73		54.6	1598	
* 51 13C2 PFDA										
515.10 > 470.10	6.947	6.970	-0.023		2674657	2.00			6996	
D 52 13C6 PFDA										
519.10 > 474.10	6.947	6.970	-0.023	1.000	1507363	1.14		57.2	6657	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.068	7.090	-0.022	0.979	1147413	2.85		57.0	1734	
58 PFOS										
498.90 > 79.90	7.221	7.232	-0.011	1.001	87575	0.1117	Target=4.60		171	
498.90 > 98.80	7.212	7.232	-0.020	1.000	18953		4.62(2.30-6.91)		58.8	
* 57 13C4 PFOS										
502.80 > 79.90	7.221	7.241	-0.020		1733646	1.92			6272	
D 56 13C8 PFOS										
507.10 > 79.90	7.212	7.241	-0.029	0.999	1109611	1.10		57.5	3488	
D 59 13C7 PFUnA										
570.00 > 525.10	7.364	7.387	-0.023	1.060	1549239	1.18		59.0	6081	
D 81 PFDoA										
615.10 > 570.00	7.775	7.806	-0.031	1.119	1483962	1.18		58.8	5444	
D 65 13C8 FOSA										
506.10 > 77.80	8.034	8.035	-0.001	1.113	1070196	1.03		51.5	8561	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.578	8.611	-0.033	1.235	1124916	0.99		49.5	3562	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.904	8.889	0.015	1.233	87965	1.05		21.1	216	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.002	9.002	0.0	1.247	285093	0.8655		43.3	2121	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.125	9.125	0.0	1.264	75696	0.8419		16.8	243	

Report Date: 05-Feb-2026 22:56:21 Chrom Revision: 2.3 29-Jan-2026 10:42:58
Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-31.d
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.215	9.215	0.0	1.276	331465	0.7830		39.1	1920	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00591 Amount Added: 50.00 Units: uL

Report Date: 05-Feb-2026 22:56:22 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-31.d

Injection Date: 05-Feb-2026 20:45:40 Instrument ID: 30577

Lims ID: 460-344047-A-1-B Lab Sample ID: 410-344047-1

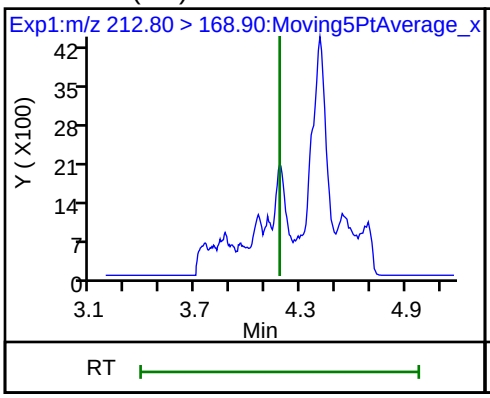
Client ID: RXSB-19 (0-2)_P

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 16 Worklist Smp#: 135

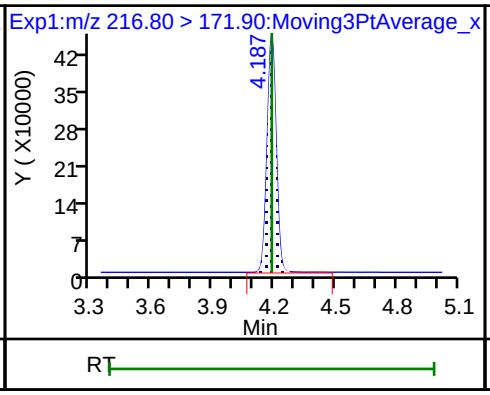
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

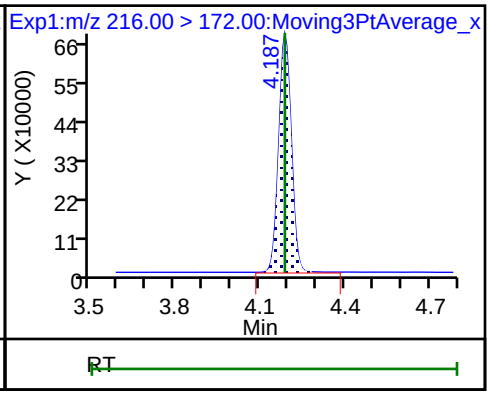
3 PFBA (ND)



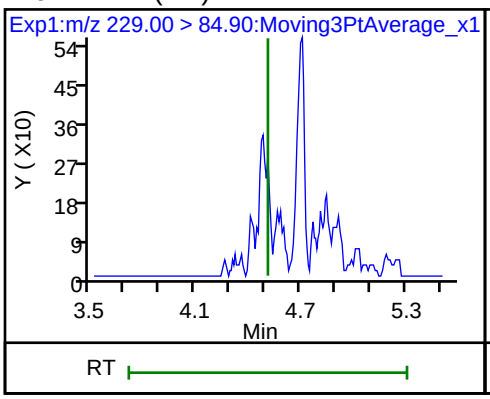
D 4 13C4-PFBA



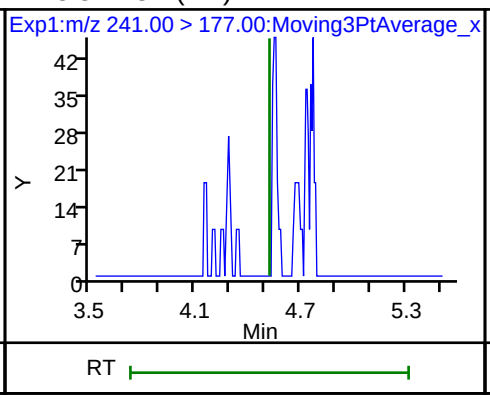
* 5 13C3PFBA



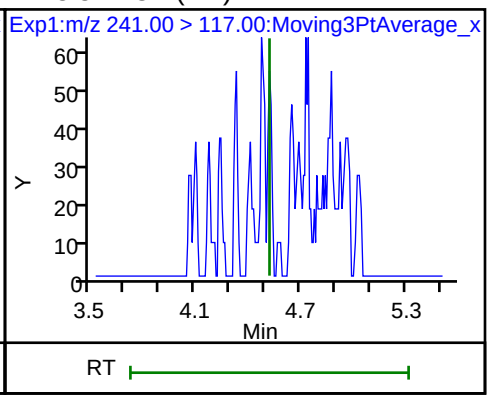
6 PFMPA (ND)



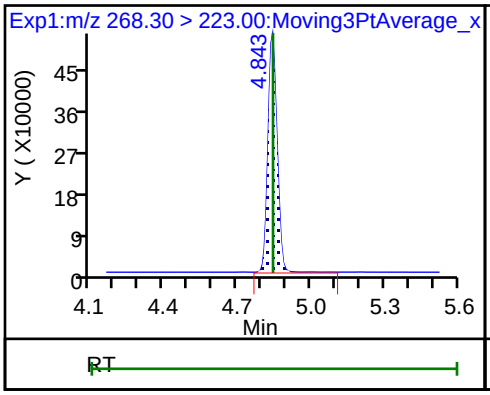
7 3:3 FTCA (ND)



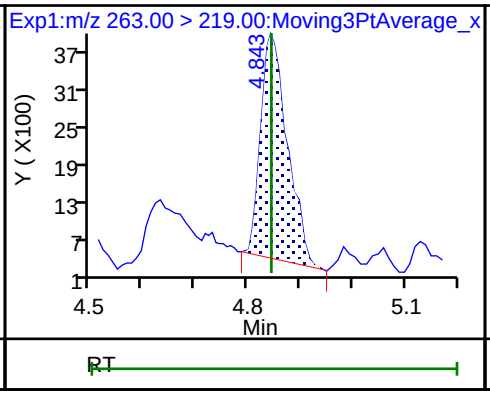
7 3:3 FTCA (ND)



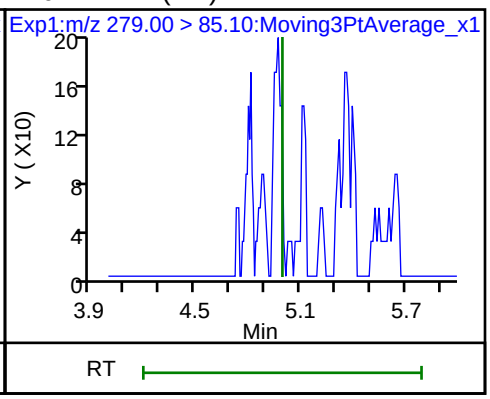
D 8 13C5 PFPeA



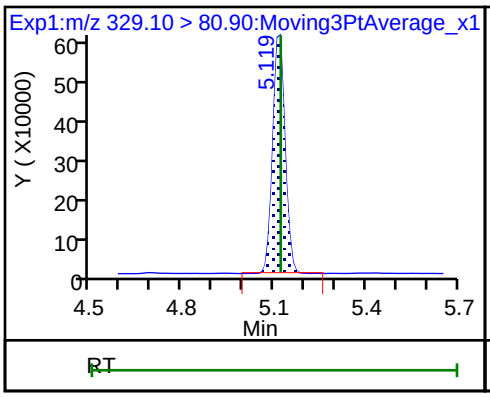
9 PFPA



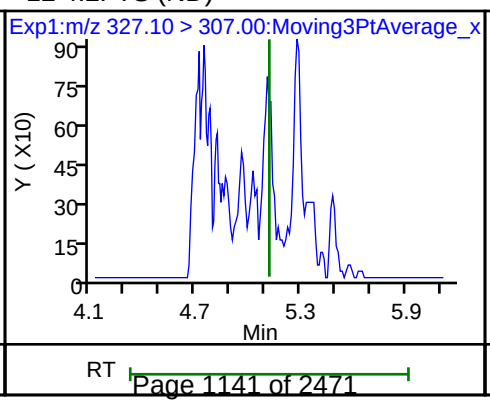
10 PFMBA (ND)



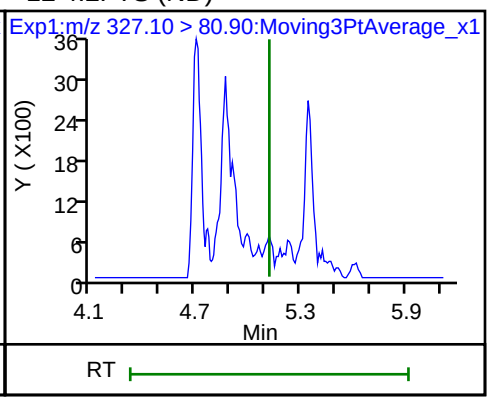
D 11 13C2-4:2FTS



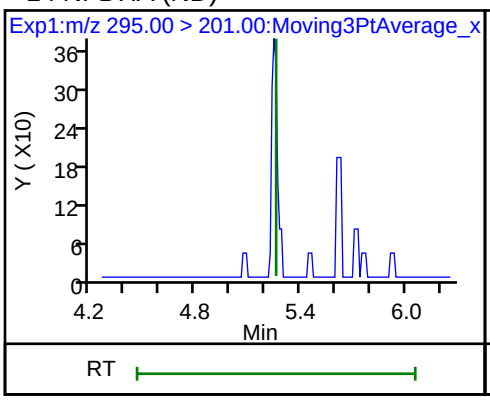
12 4:2FTS (ND)



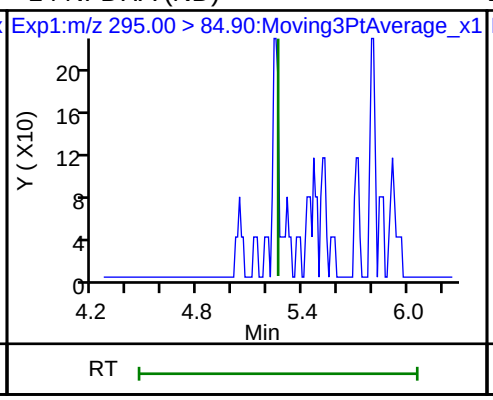
12 4:2FTS (ND)



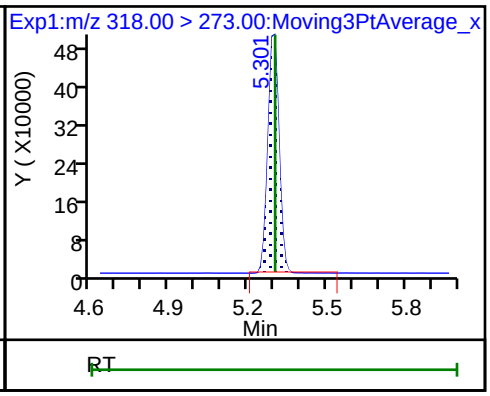
14 NFDHA (ND)



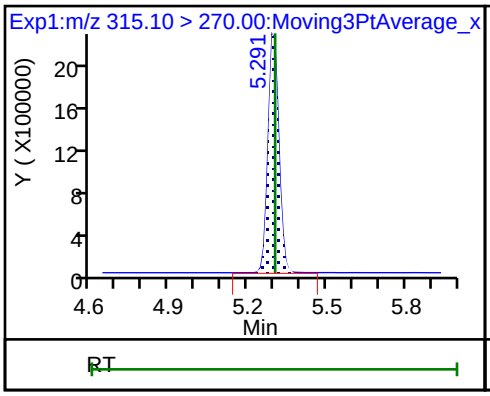
14 NFDHA (ND)



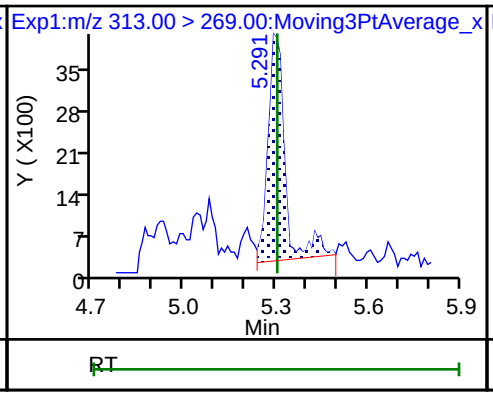
D 15 13C5 PFHxA



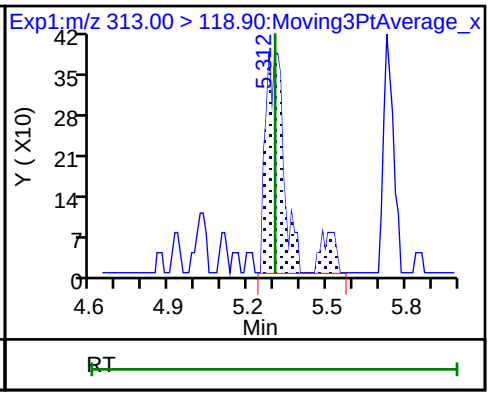
* 16 13C2 PFHxA



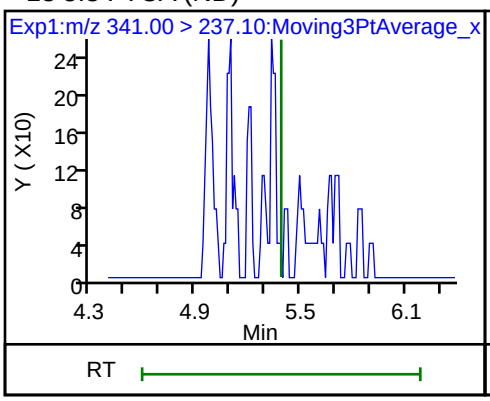
17 PFHxA



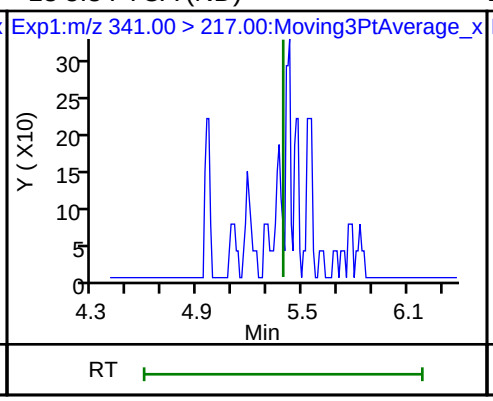
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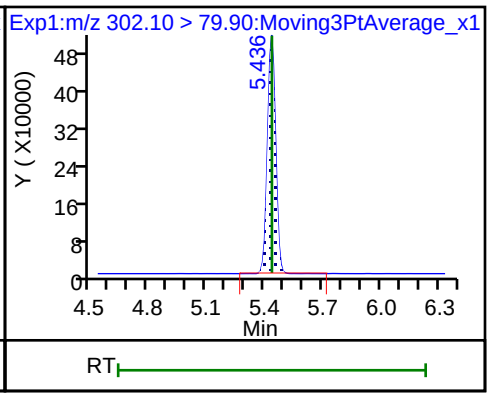
18 5:3 FTCA (ND)



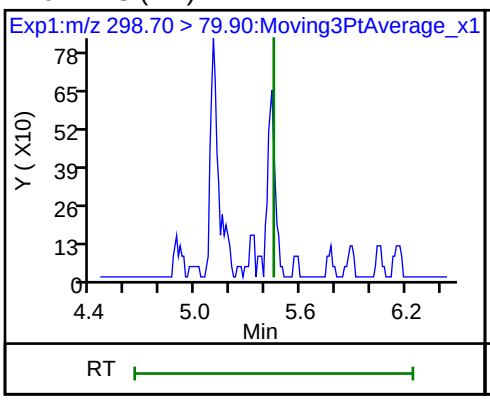
18 5:3 FTCA (ND)



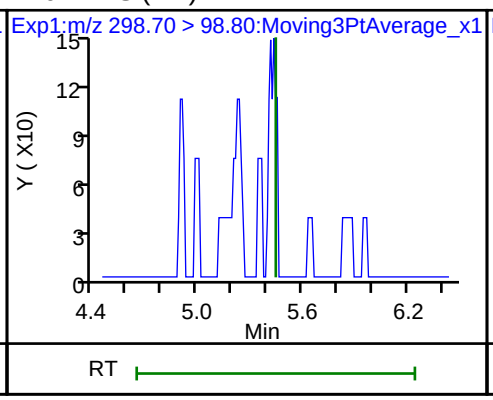
D 19 13C3 PFBS



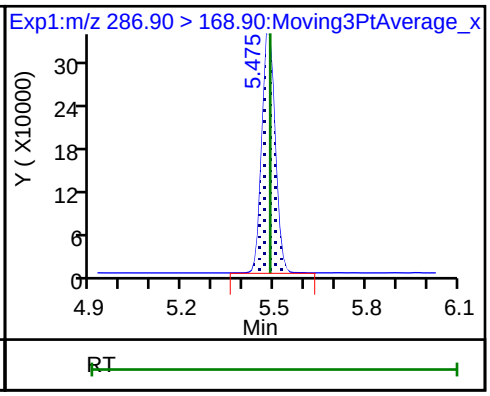
20 PFBS (ND)



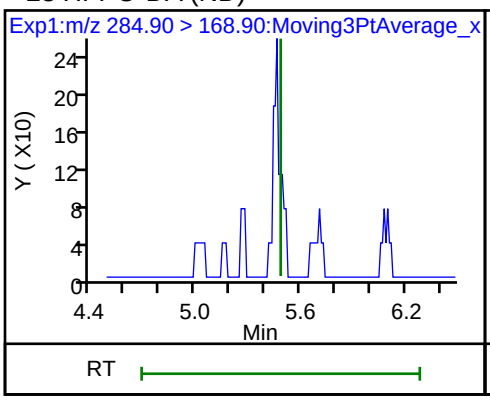
20 PFBS (ND)



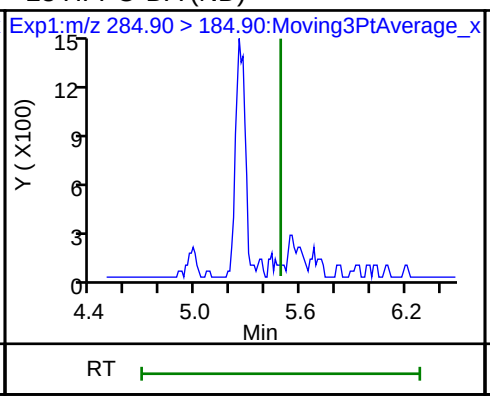
D 22 13C3 HFPO-DA



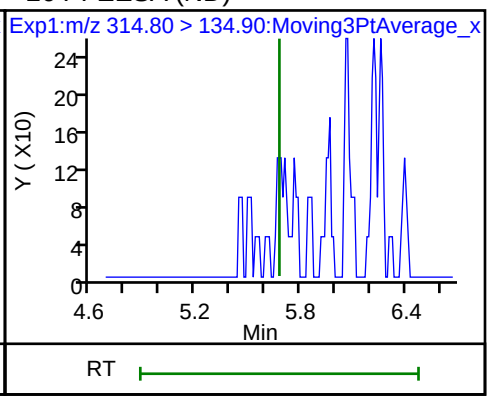
23 HFPO-DA (ND)



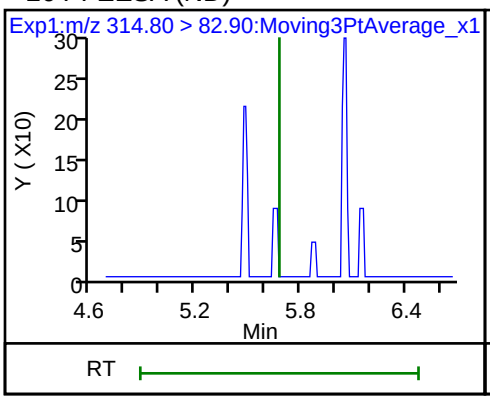
23 HFPO-DA (ND)



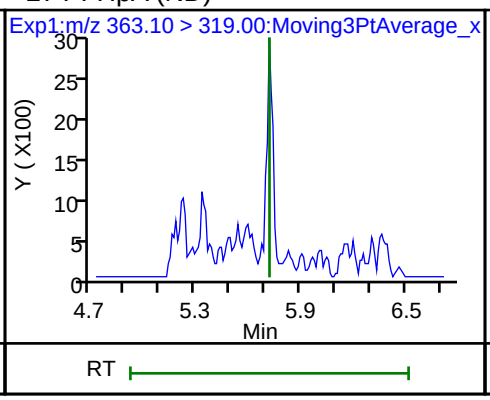
26 PFEESA (ND)



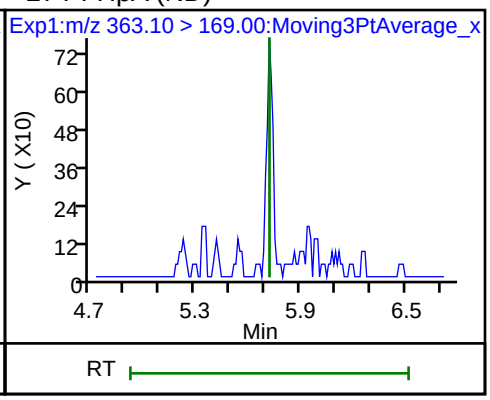
26 PFEESA (ND)



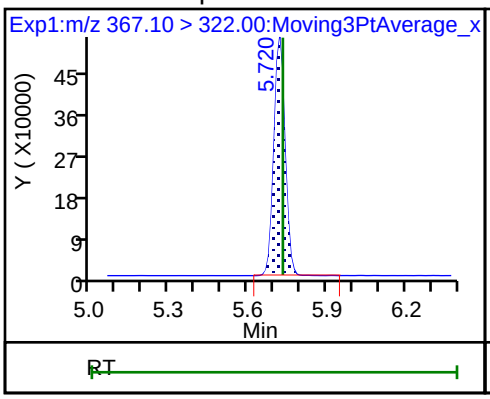
27 PFHpA (ND)



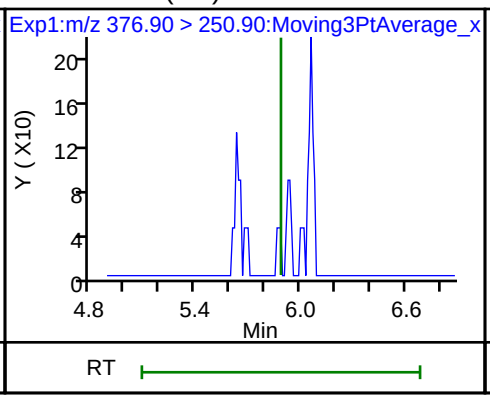
27 PFHpA (ND)



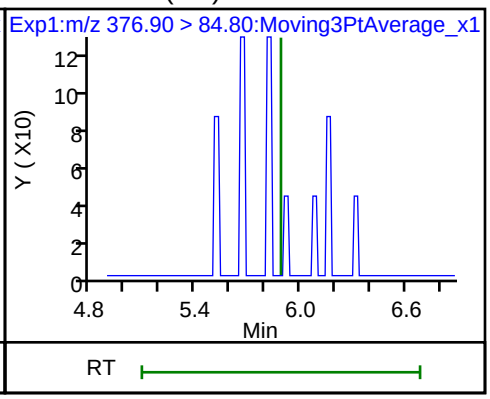
D 28 13C4 PFHpA



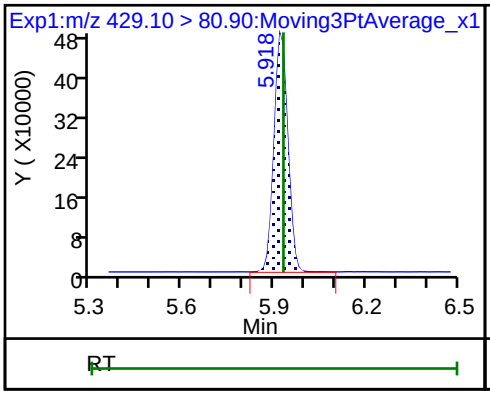
29 ADONA (ND)



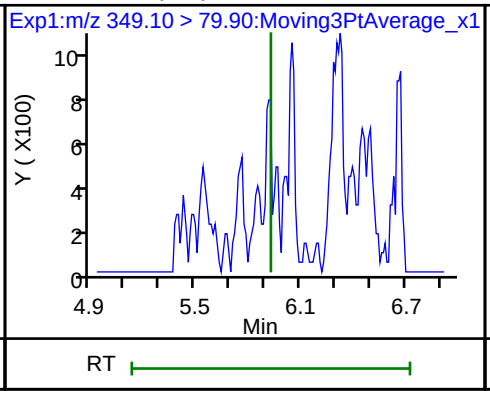
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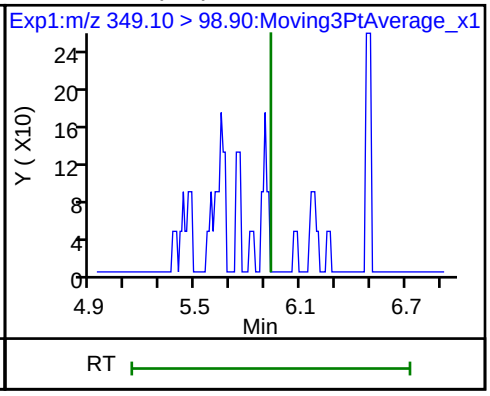
D 32 13C2-6:2FTS



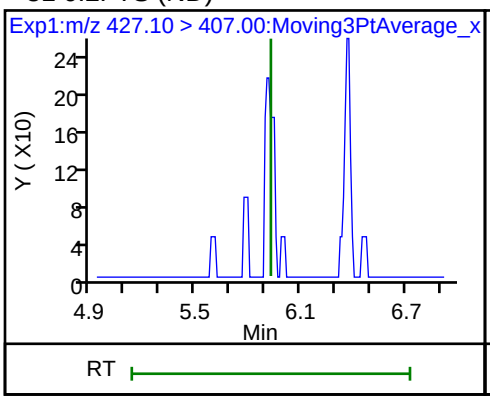
30 PFPeS (ND)



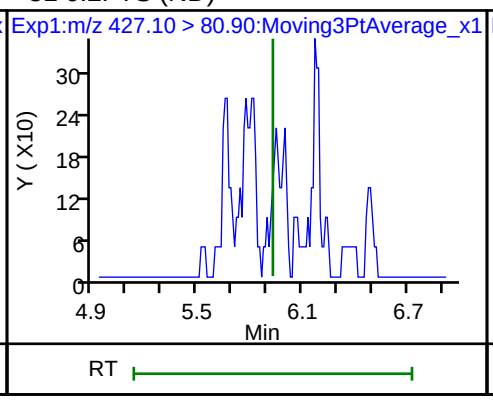
30 PFPeS (ND)



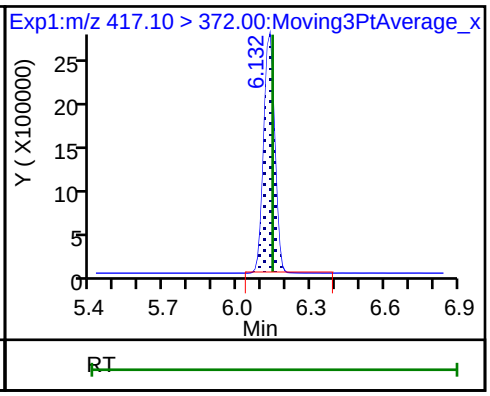
31 6:2FTS (ND)



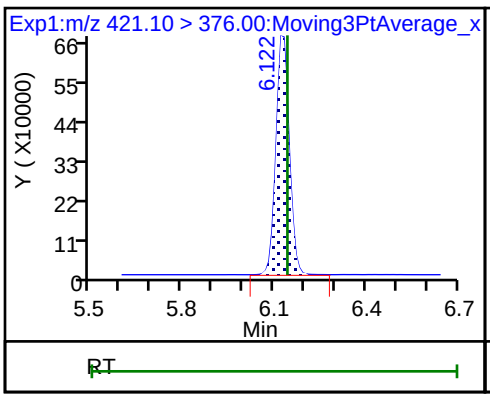
31 6:2FTS (ND)



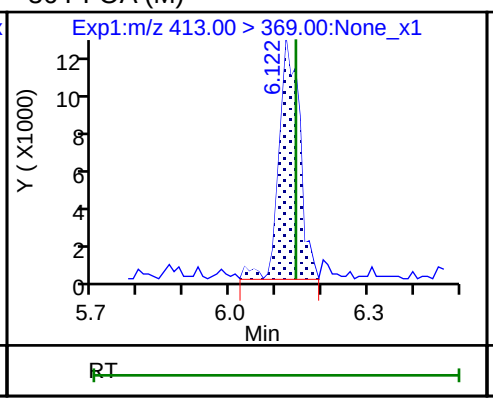
* 34 13C4 PFOA



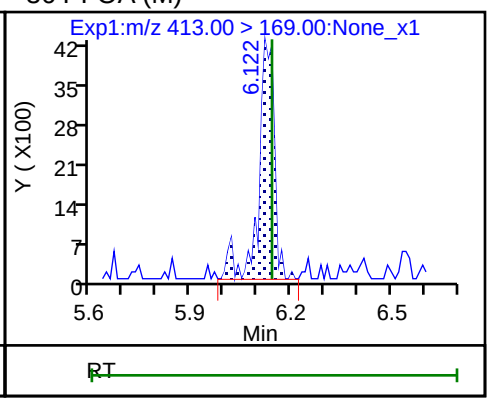
D 35 13C8 PFOA



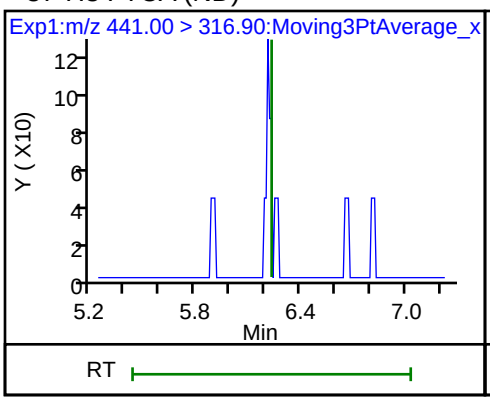
36 PFOA (M)



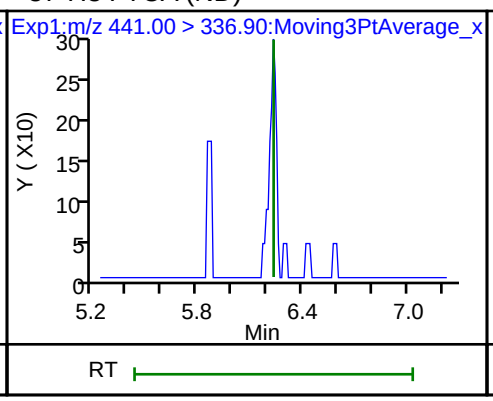
36 PFOA (M)



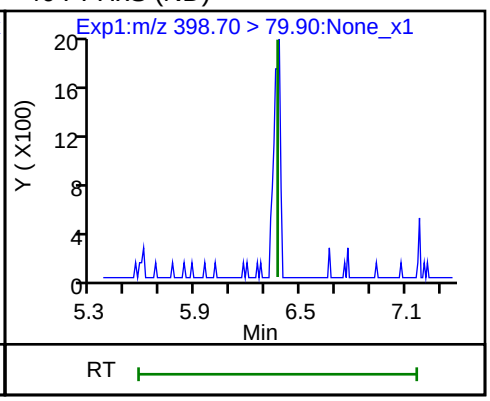
37 7:3 FTCA (ND)



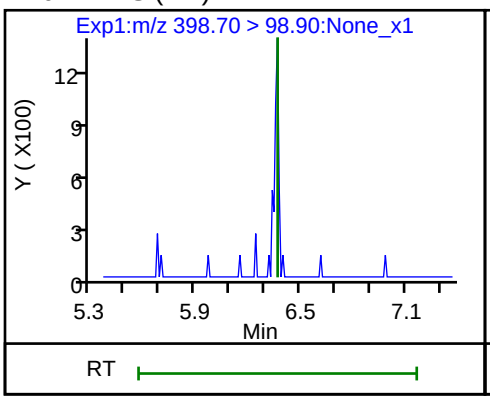
37 7:3 FTCA (ND)



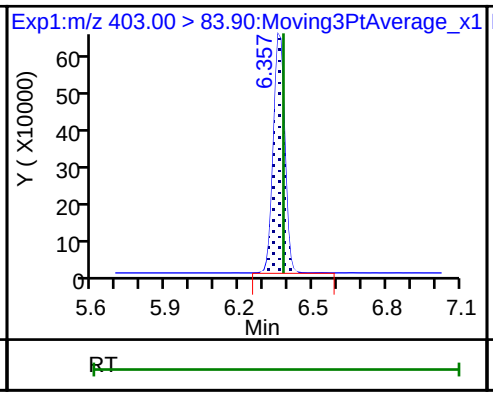
40 PFHxS (ND)



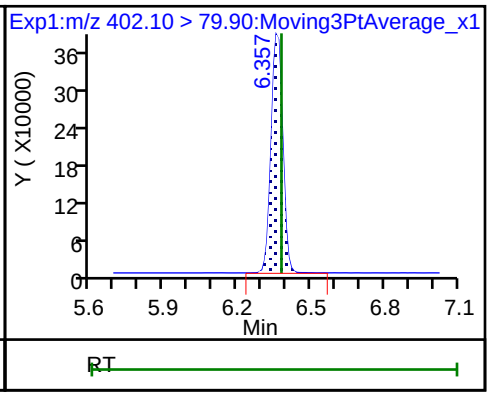
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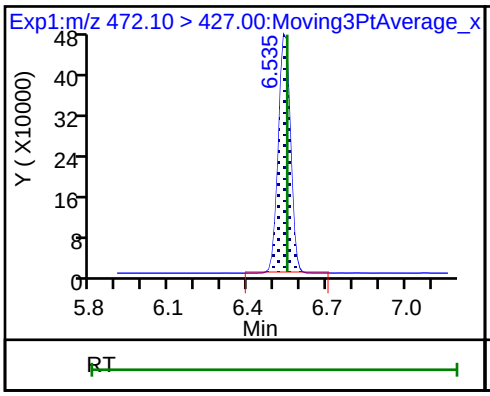
* 39 18O2 PFHxS



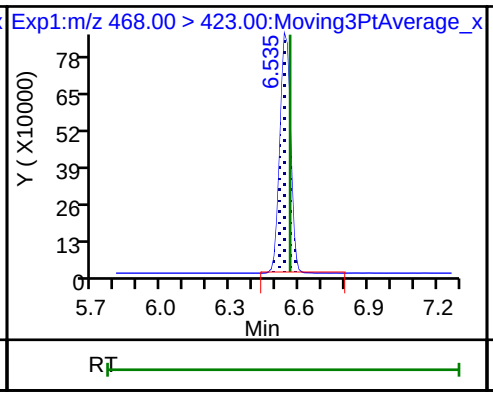
D 38 13C3 PFHxS



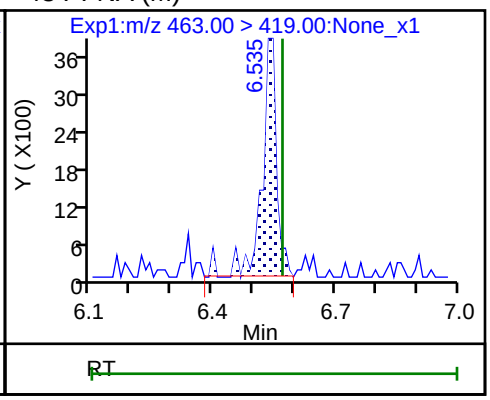
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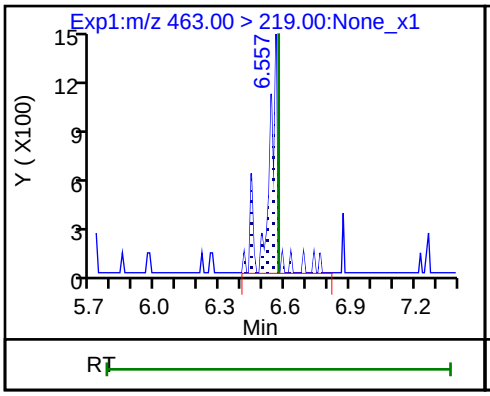
* 42 13C5 PFNA



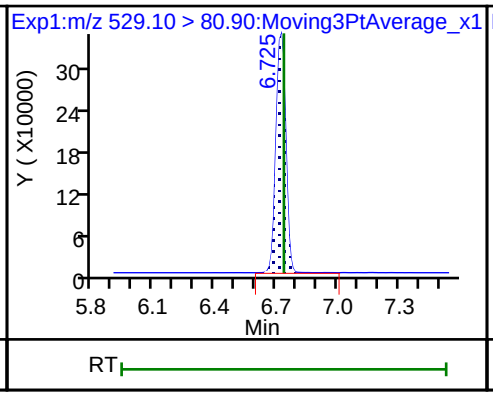
43 PFNA (M)



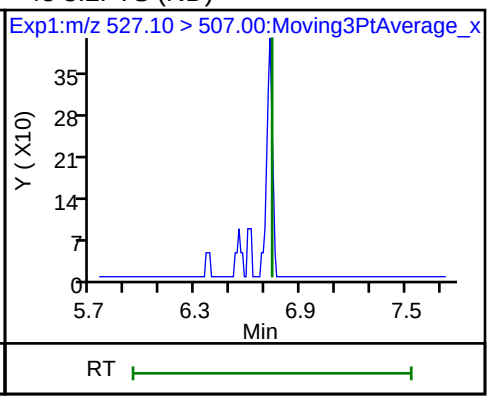
43 PFNA



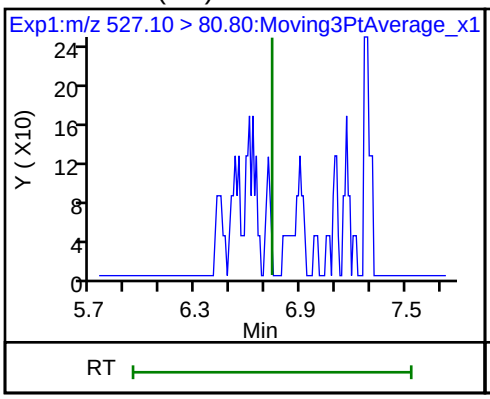
D 44 13C2-8:2FTS



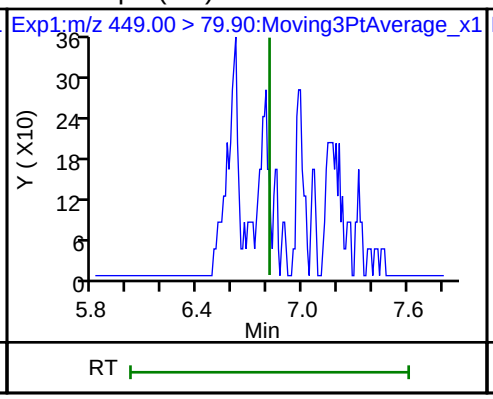
45 8:2FTS (ND)



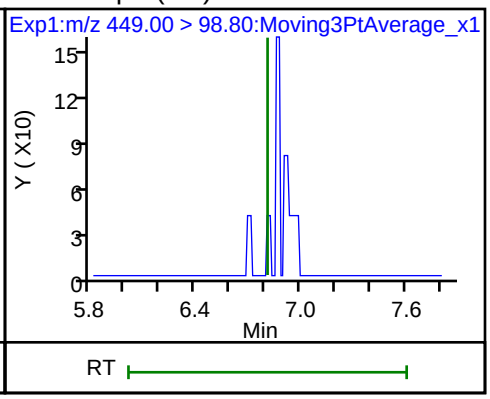
45 8:2FTS (ND)



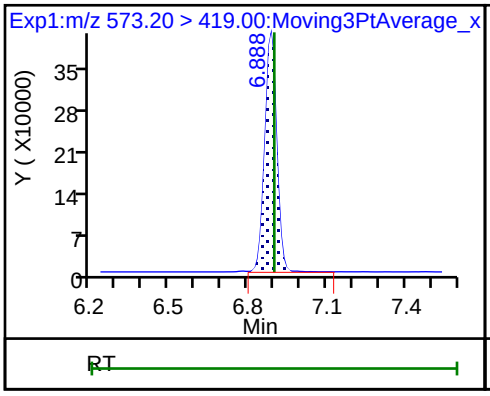
47 PFHpS (ND)



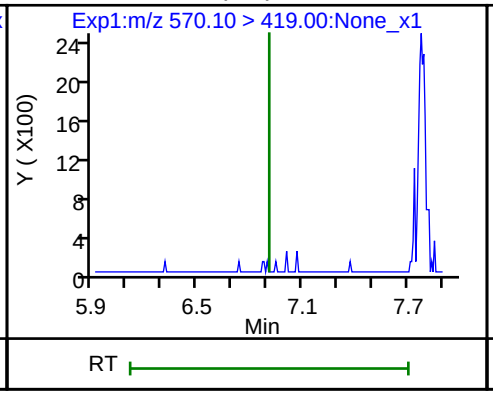
47 PFHpS (ND)



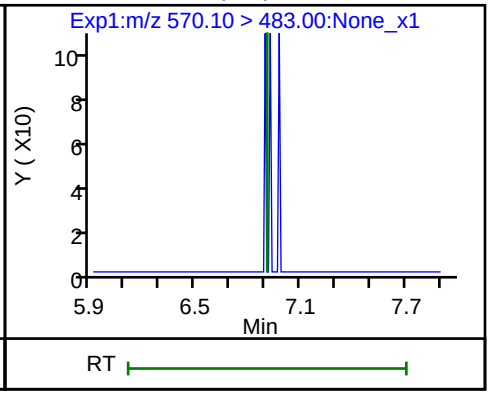
D 49 d3-NMeFOSAA



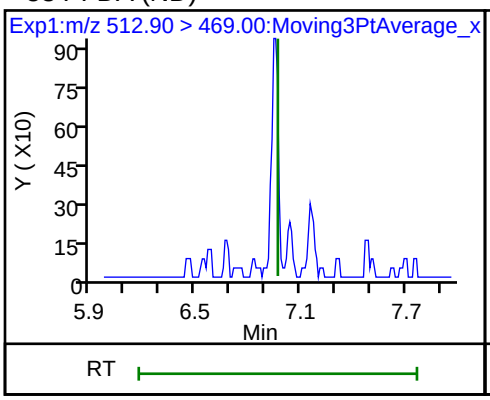
50 NMeFOSAA (ND)



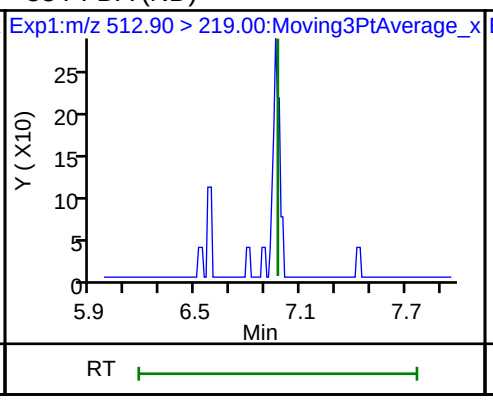
50 NMeFOSAA (ND)



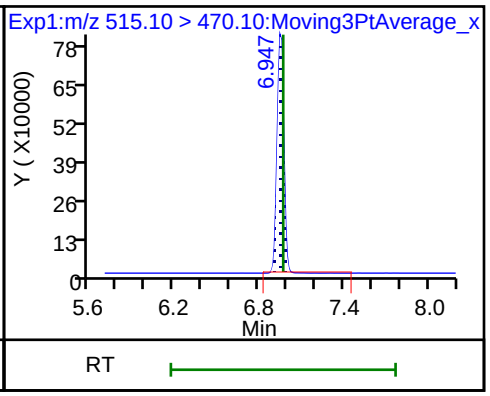
53 PFDA (ND)



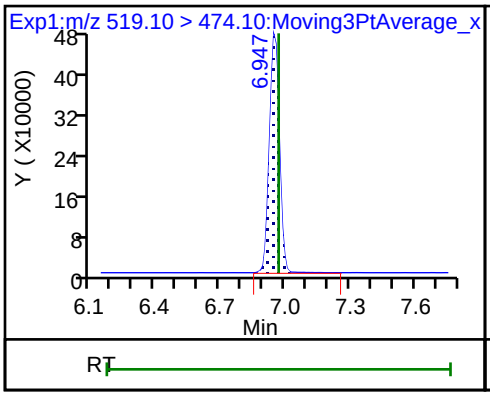
53 PFDA (ND)



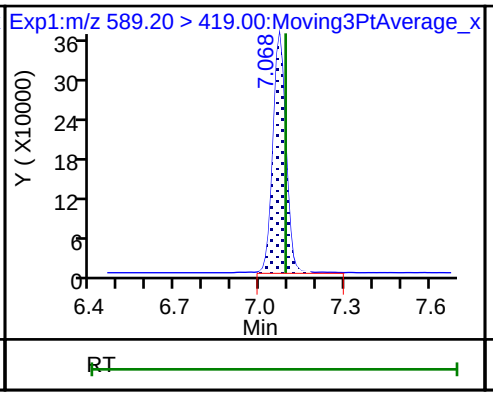
* 51 13C2 PFDA



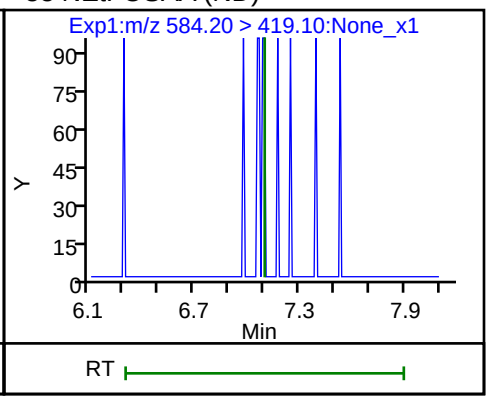
D 52 13C6 PFDA



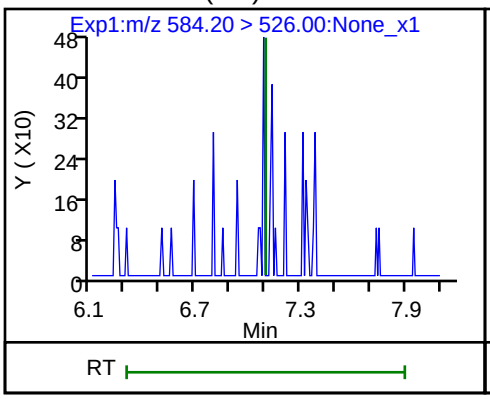
D 54 d5-NEtFOSAA



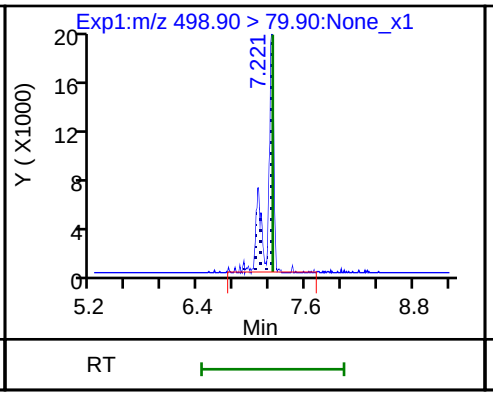
55 NEtFOSAA (ND)



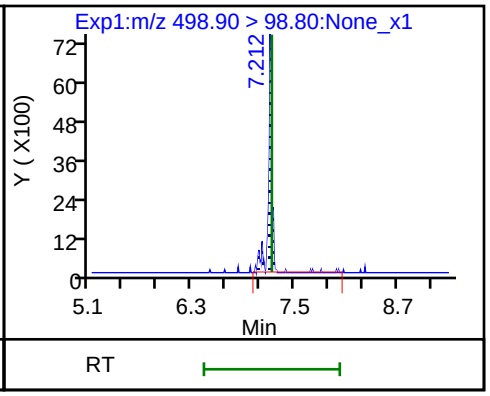
55 NEtFOSAA (ND)



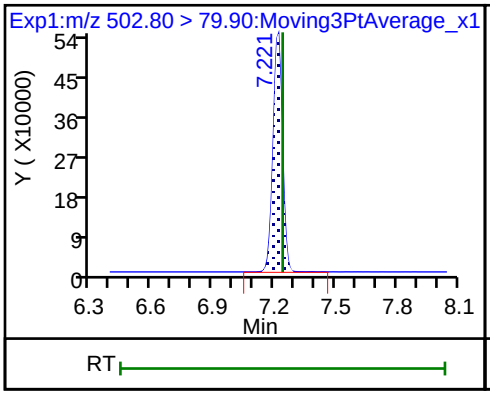
58 PFOS



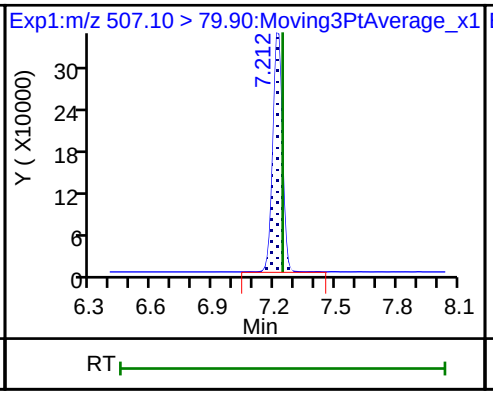
58 PFOS



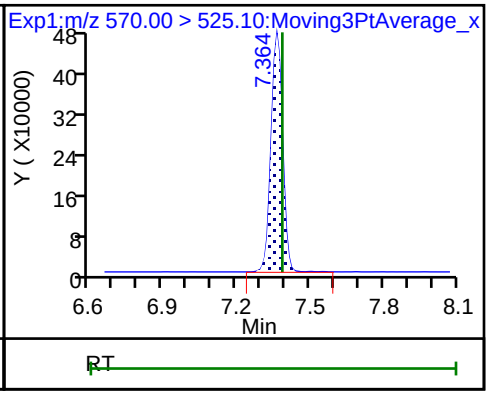
* 57 13C4 PFOS



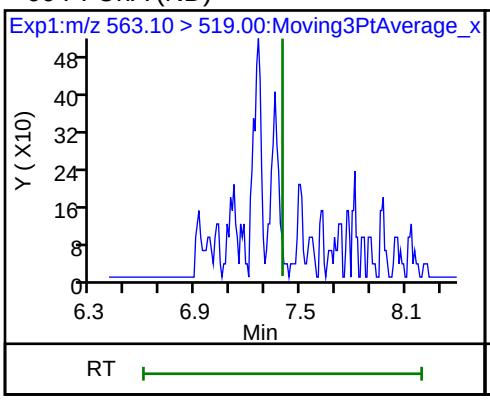
D 56 13C8 PFOS



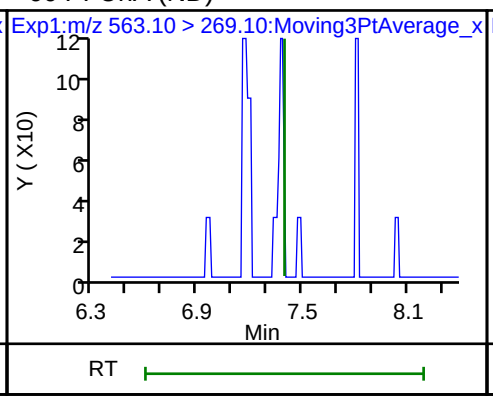
D 59 13C7 PFUnA



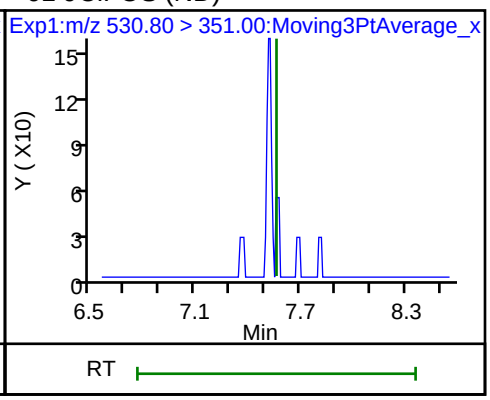
60 PFUnA (ND)



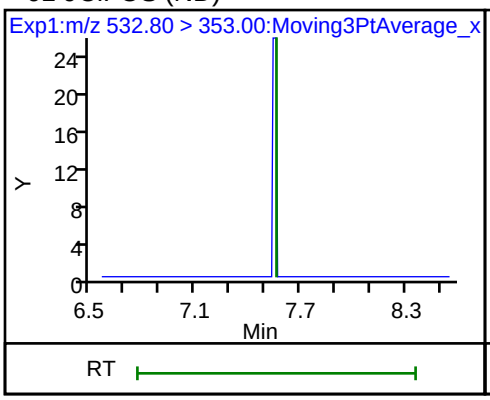
60 PFUnA (ND)



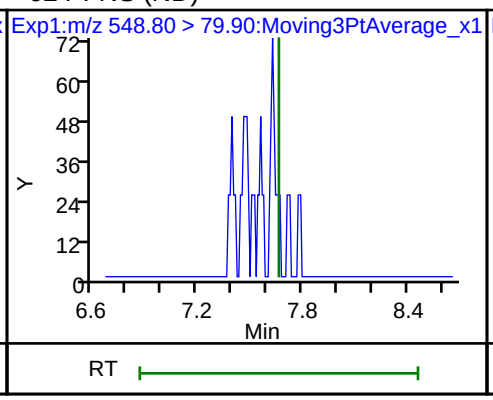
61 9ClFOS (ND)



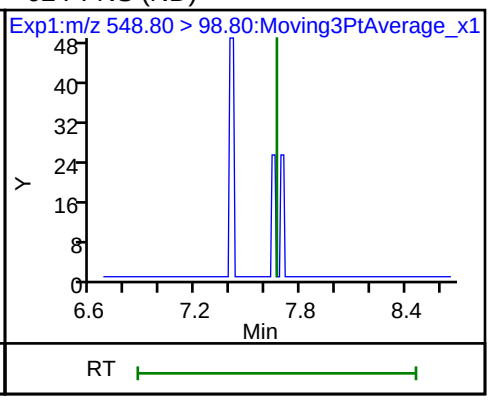
61 9ClFOS (ND)



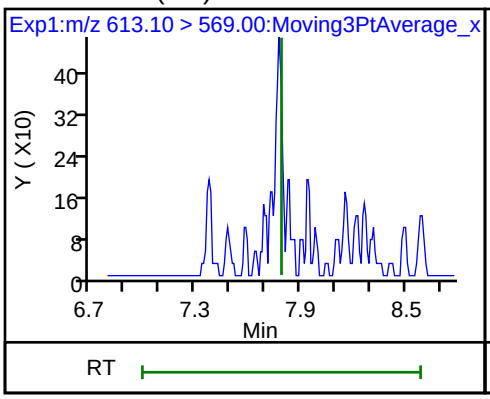
62 PFNS (ND)



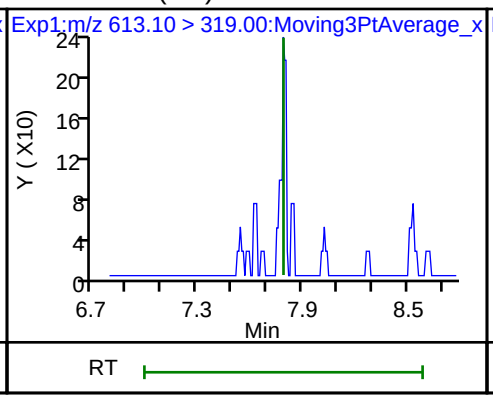
62 PFNS (ND)



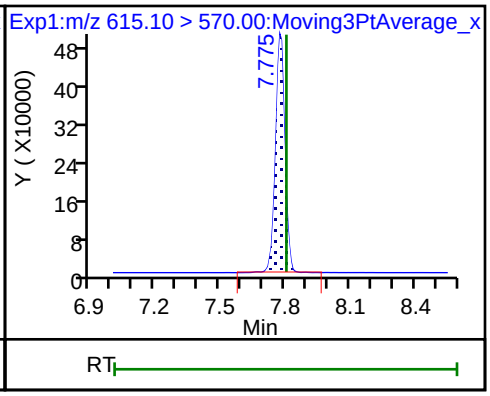
63 PFDoA (ND)



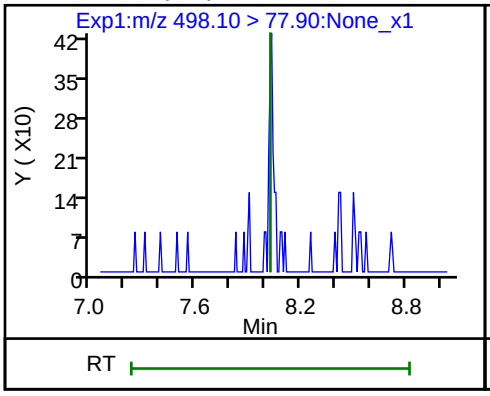
63 PFDoA (ND)



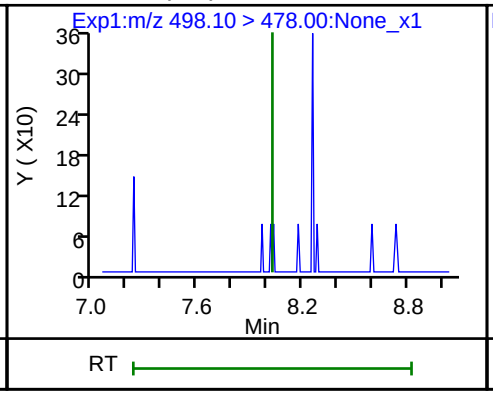
D 81 PFDoA



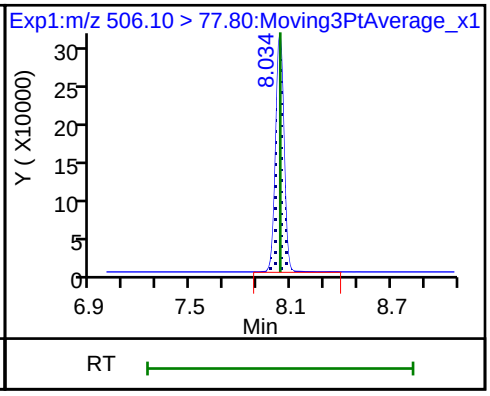
64 PFOSA (ND)



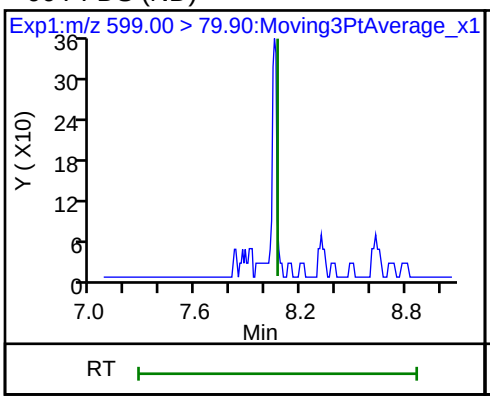
64 PFOSA (ND)



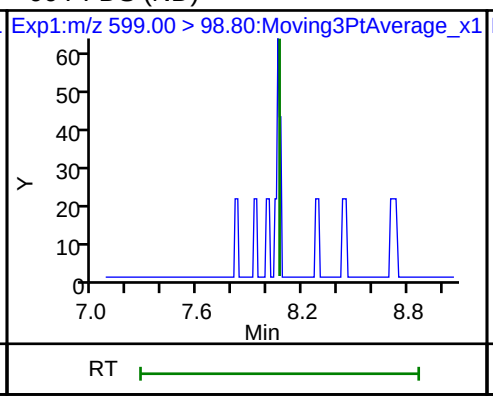
D 65 13C8 FOSA



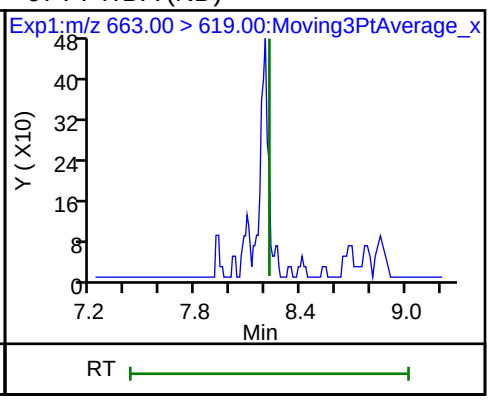
66 PFDS (ND)



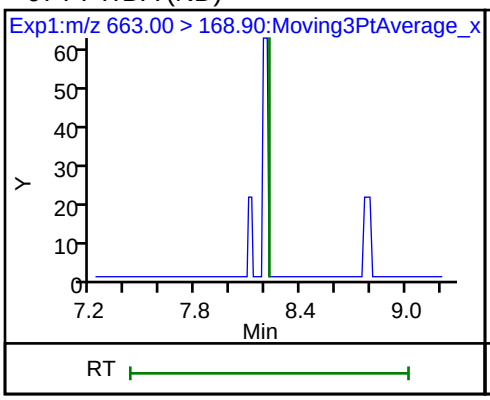
66 PFDS (ND)



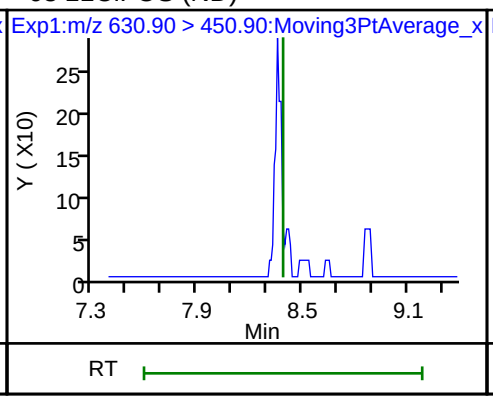
67 PFTrDA (ND)



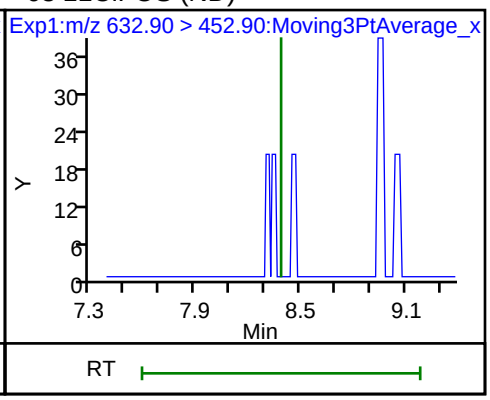
67 PFTrDA (ND)



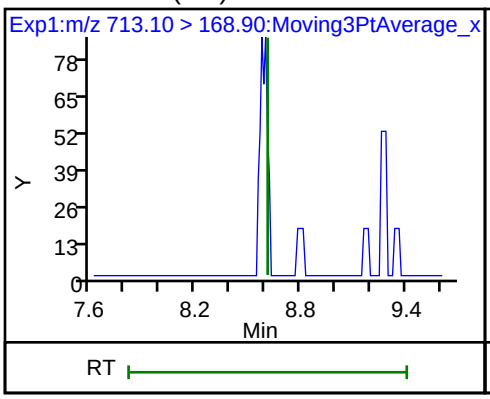
68 11ClFOS (ND)



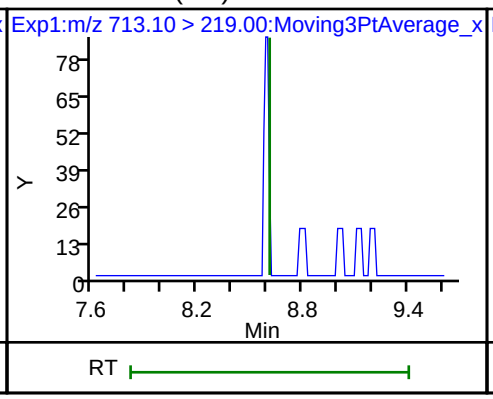
68 11ClFOS (ND)



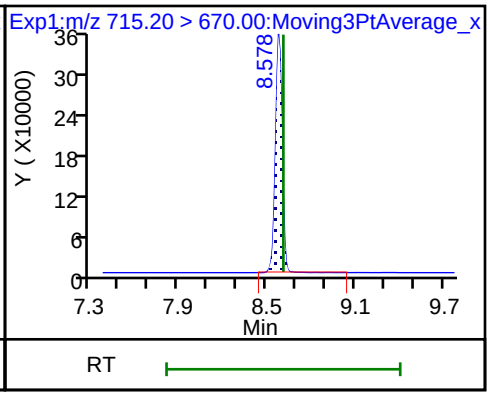
69 PFTeDA (ND)



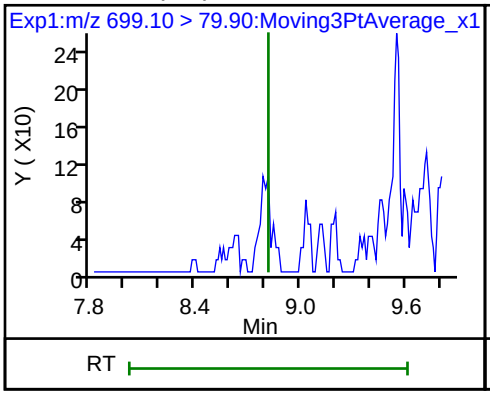
69 PFTeDA (ND)



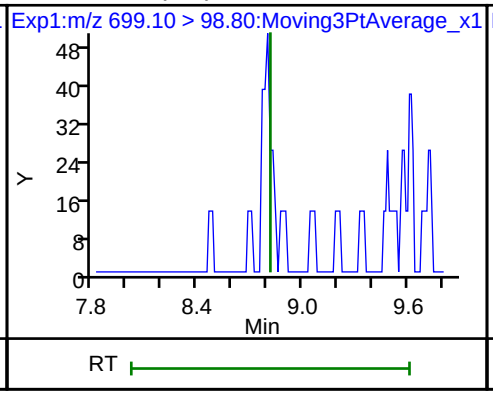
D 70 13C2 PFTeDA



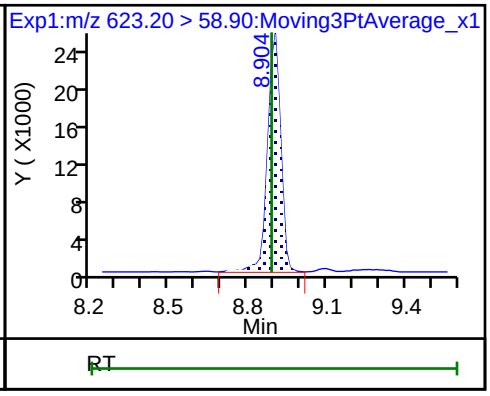
71 PFDoS (ND)



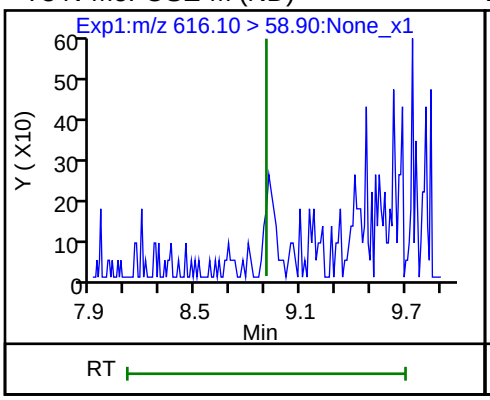
71 PFDoS (ND)



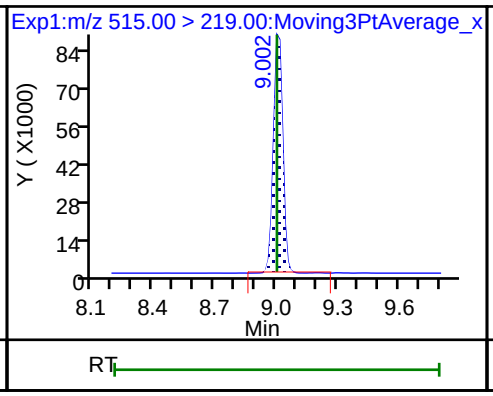
D 72 d7-N-Me-FOSE



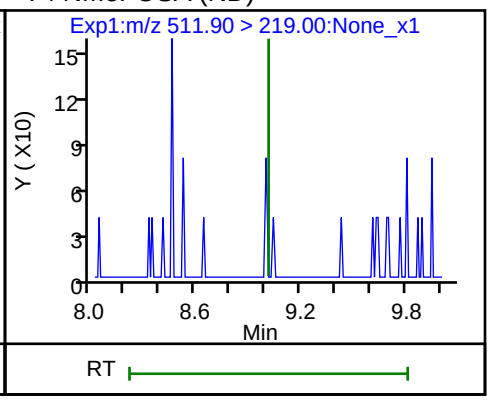
73 N-MeFOSE-M (ND)



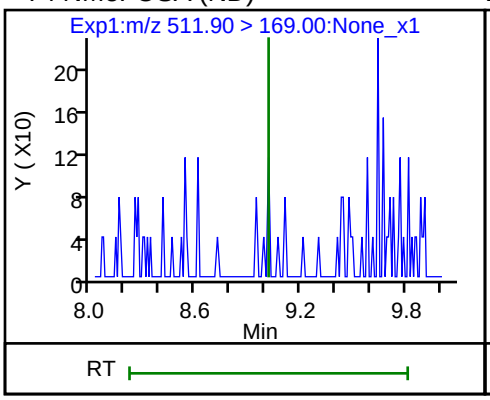
D 75 d3-NMePFOSA



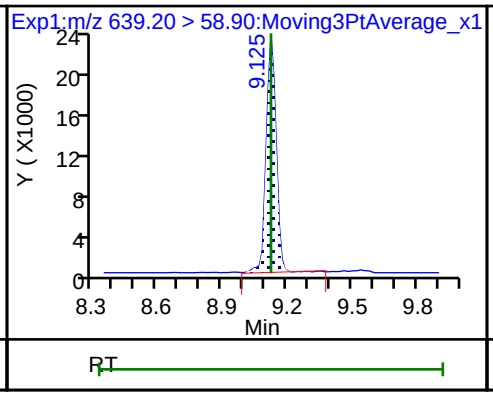
74 NMeFOSA (ND)



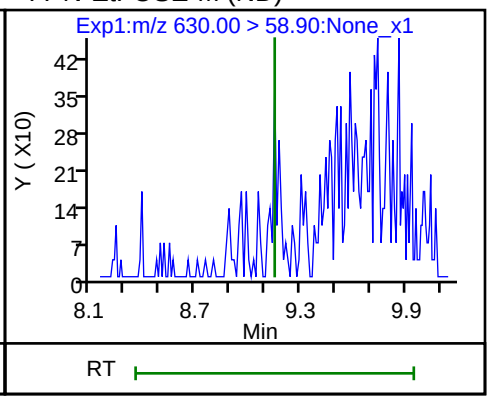
74 NMeFOSA (ND)



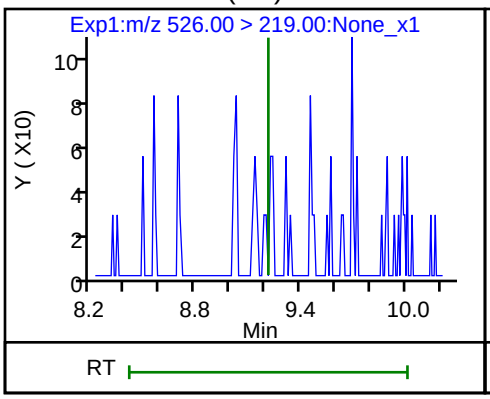
D 76 d9-N-EtFOSE



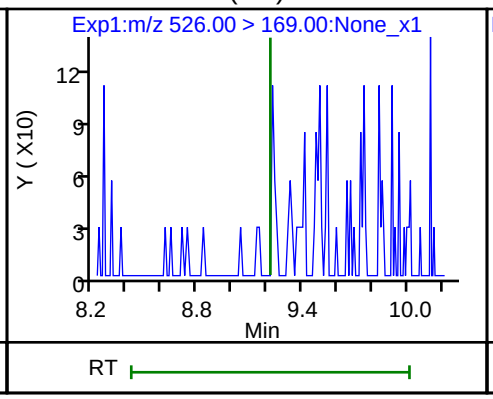
77 N-EtFOSE-M (ND)



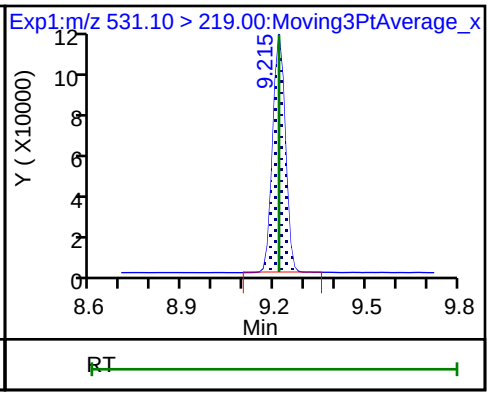
79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



D 78 d5-NEtPFOSA



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

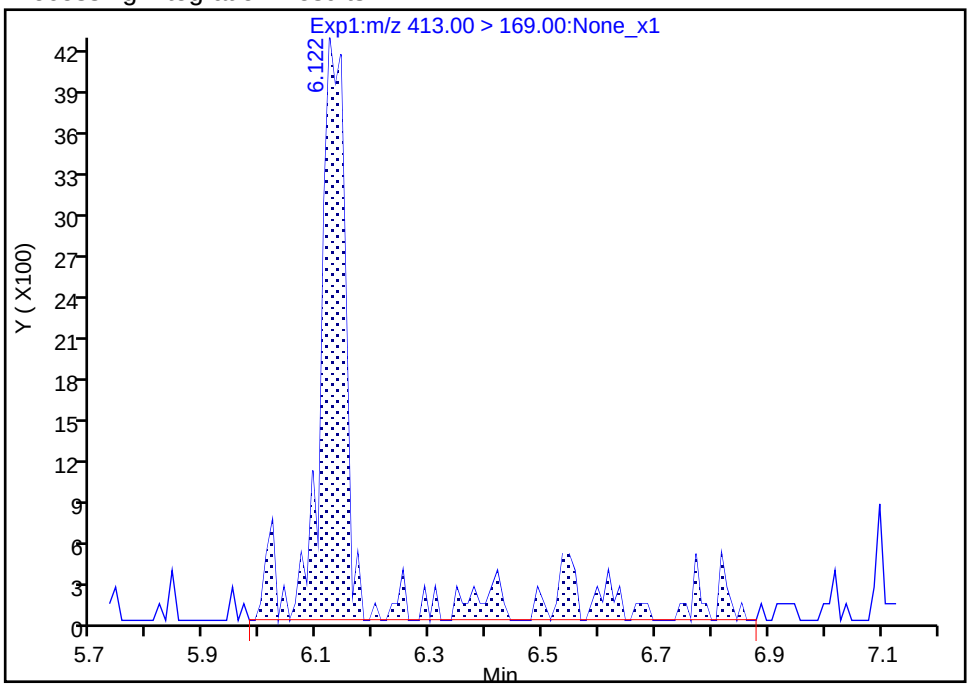
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Injection Date:	05-Feb-2026 20:45:40	Instrument ID:	30577		
Lims ID:	460-344047-A-1-B	Lab Sample ID:	410-344047-1		
Client ID:	RXSB-19 (0-2)_P				
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	16	Worklist Smp#:	135
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 2

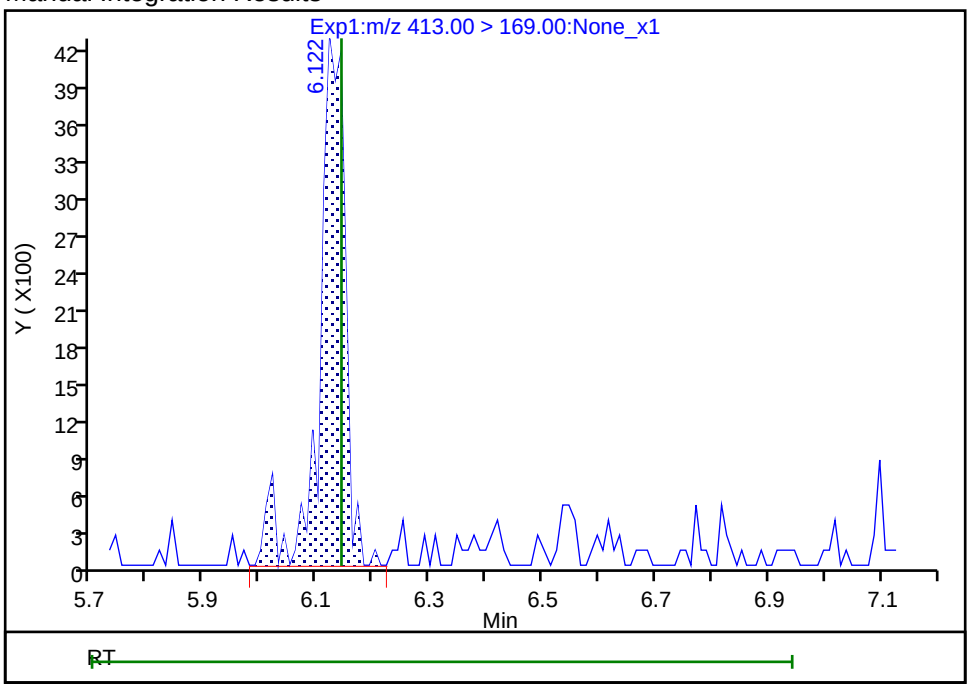
Processing Integration Results

RT: 6.12
Area: 18347
Amount: 0.066914
Amount Units: ng/ml



Manual Integration Results

RT: 6.12
Area: 13440
Amount: 0.060546
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:49:17 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

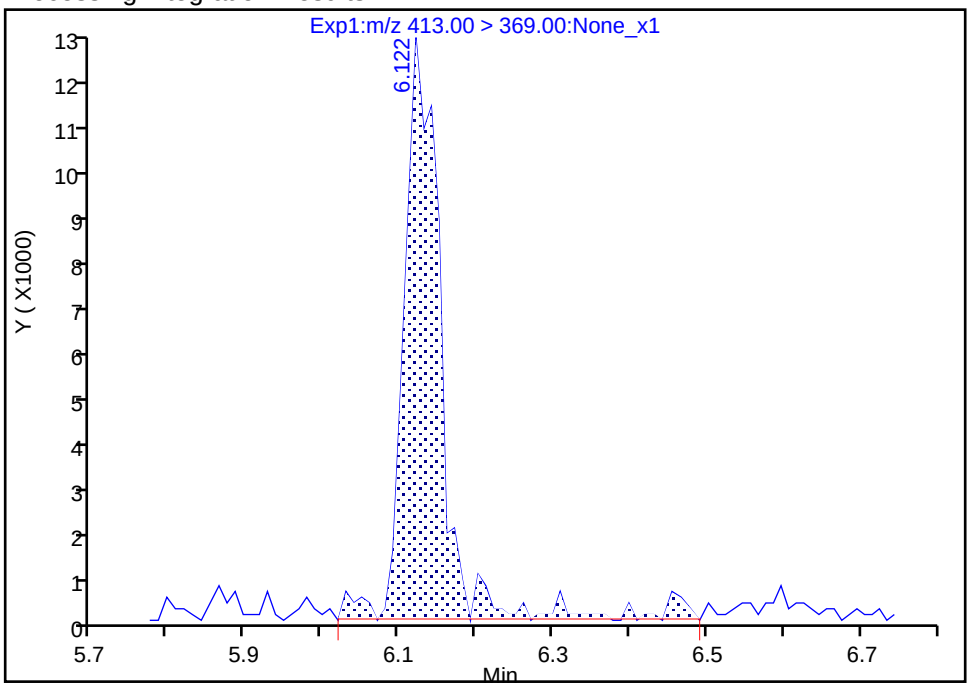
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Injection Date:	05-Feb-2026 20:45:40	Instrument ID:	30577		
Lims ID:	460-344047-A-1-B	Lab Sample ID:	410-344047-1		
Client ID:	RXSB-19 (0-2)_P				
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	16	Worklist Smp#:	135
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 1

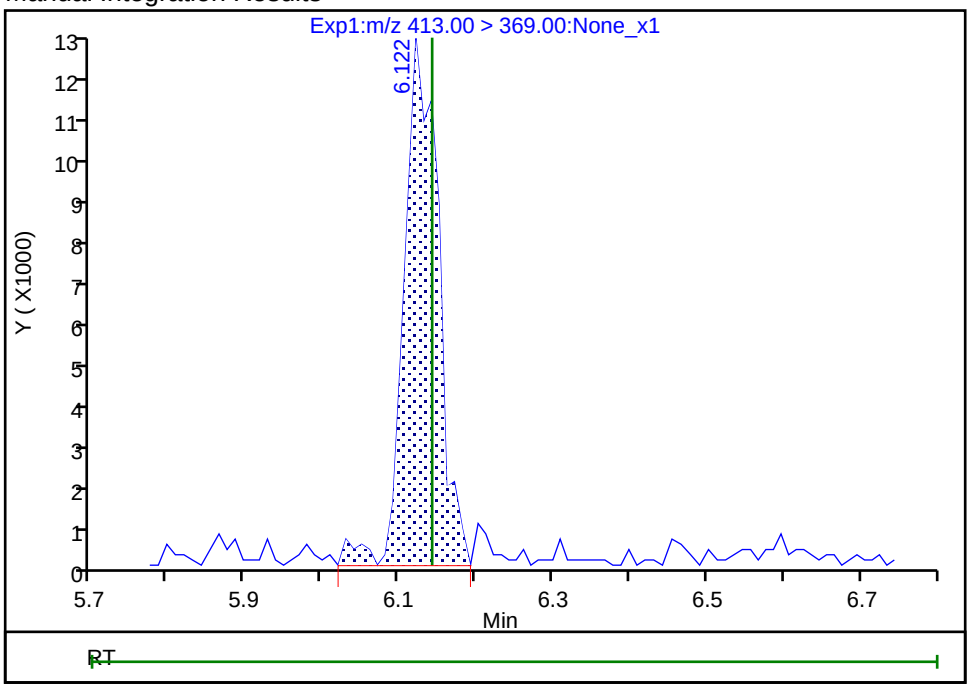
Processing Integration Results

RT: 6.12
Area: 42292
Amount: 0.066914
Amount Units: ng/ml



Manual Integration Results

RT: 6.12
Area: 38267
Amount: 0.060546
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:49:26 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

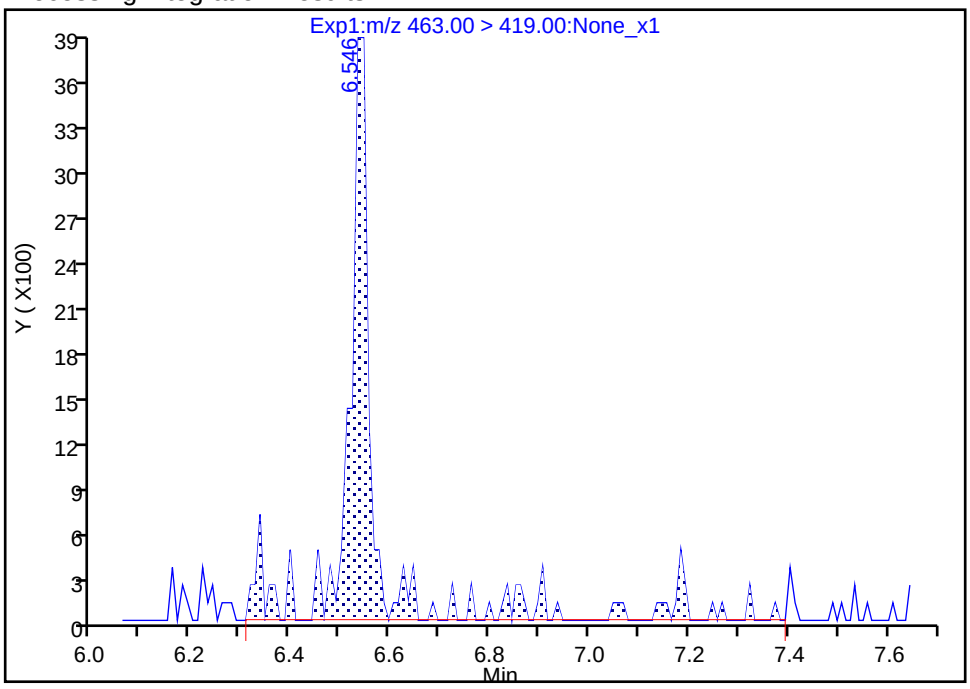
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Injection Date:	05-Feb-2026 20:45:40	Instrument ID:	30577		
Lims ID:	460-344047-A-1-B	Lab Sample ID:	410-344047-1		
Client ID:	RXSB-19 (0-2)_P				
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	16	Worklist Smp#:	135
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

43 PFNA, CAS: 375-95-1

Signal: 1

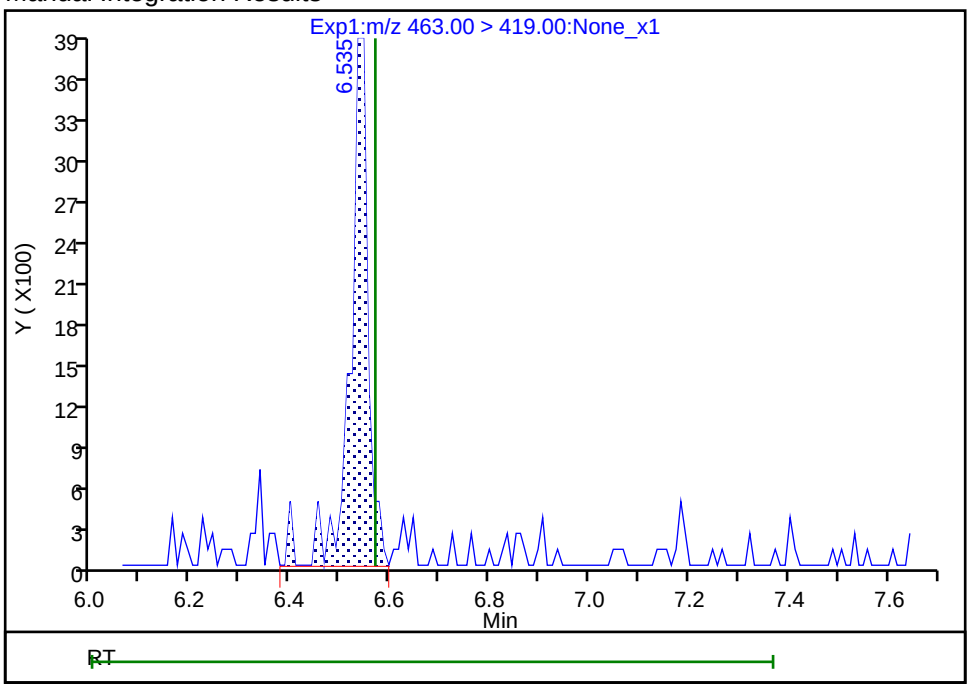
Processing Integration Results

RT: 6.55
Area: 13614
Amount: 0.020914
Amount Units: ng/ml



Manual Integration Results

RT: 6.54
Area: 9613
Amount: 0.014767
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:49:38 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-19 (6-8)_P
Lab Sample ID: 460-344047-2

Matrix: Solid
Lab File ID: 26FEB05JO-32.d

Analysis Method: 1633A
Date Collected: 01/29/2026 10:20

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 1.17(g)
Date Analyzed: 02/05/2026 20:59

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 13.8 % Solids: 86.2
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.79	U	0.79	0.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.20
307-24-4	Perfluorohexanoic acid (PFHxA)	0.40	U	0.40	0.20
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.40	U	0.40	0.20
335-67-1	Perfluorooctanoic acid (PFOA)	0.40	U	0.40	0.12
375-95-1	Perfluorononanoic acid (PFNA)	0.40	U	0.40	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.40	U	0.40	0.12
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.40	U	0.40	0.20
307-55-1	Perfluorododecanoic acid (PFDoA)	0.40	U	0.40	0.20
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.40	U	0.40	0.20
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.40	U	0.40	0.20
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.40	U	0.40	0.20
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.40	U	0.40	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.40	U	0.40	0.20
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.40	U	0.40	0.20
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.31	J	0.40	0.20
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.40	U	0.40	0.20
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.40	U	0.40	0.20
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.40	U	0.40	0.20
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.79	U	0.79	0.40
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.79	U	0.79	0.40
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.79	U	0.79	0.40
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.40	U	0.40	0.20
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.40	U	0.40	0.20
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.40	U	0.40	0.20

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-19 (6-8)_P
Lab Sample ID: 460-344047-2

Matrix: Solid
Lab File ID: 26FEB05JO-32.d

Analysis Method: 1633A
Date Collected: 01/29/2026 10:20

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 1.17(g)
Date Analyzed: 02/05/2026 20:59

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 13.8 % Solids: 86.2
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.40	U	0.40	0.20
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.40	U	0.40	0.20
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.98	U	1.98	0.99
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.98	U	1.98	0.99
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.40	U	0.40	0.20
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	0.40	0.20
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.40	U	0.40	0.20
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.40	U	0.40	0.20
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.40	U	0.40	0.20
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.40	U	0.40	0.20
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.40	U	0.40	0.20
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.40	U	0.40	0.20
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.79	U	0.79	0.40
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.98	U	1.98	0.99
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.98	U	1.98	0.99

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-19 (6-8)_P
Lab Sample ID: 460-344047-2

Matrix: Solid
Lab File ID: 26FEB05JO-32.d

Analysis Method: 1633A
Date Collected: 01/29/2026 10:20

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 1.17(g)
Date Analyzed: 02/05/2026 20:59

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 13.8 % Solids: 86.2
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	79.6		8-130
2283397-79-3	13C5 PFPeA	79.3		35-130
2328024-54-8	13C5 PFHxA	78.9		40-130
2328024-55-9	13C4 PFHpA	83.2		40-130
1350614-84-4	13C8 PFOA	77.6		40-130
2283397-80-6	13C9 PFNA	79.7		40-130
2328024-56-0	13C6 PFDA	77.6		40-130
STL02580	13C7 PFUnA	82.8		40-130
STL02116	13C2 PFTeDA	62.2		20-130
2708218-83-9	13C3 PFBS	80.3		40-135
2708218-85-1	13C3 PFHxS	85.7		40-130
2265893-05-6	13C8 PFOS	76.9		40-130
STL01056	13C8 FOSA	70.2		40-130
1400690-70-1	d3-NMeFOSAA	63.2		40-135
1265205-97-7	d5-NEtFOSAA	58.6		40-150
STL02395	13C2 4:2 FTS	73.9		40-165
STL02279	13C2 6:2 FTS	80.5		40-215
STL02280	13C2 8:2 FTS	67.4		40-275
STL02255	13C3 HFPO-DA	81.9		40-130
STL02277	d7-N-MeFOSE-M	12.3	*	20-130
STL02278	d9-N-EtFOSE-M	5.95	*	15-130
STL02704	d5-NEtPFOSA	46.6		10-130
STL02705	d3-NMePFOSA	49.6		10-130
960315-52-0	13C2 PFDoA	76.0		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-32.d
Lims ID: 460-344047-A-2-B
Client ID: RXSB-19 (6-8)_P
Sample Type: Client
Inject. Date: 05-Feb-2026 20:59:15 ALS Bottle#: 17 Worklist Smp#: 136
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 460-344047-A-2-B
Misc. Info.: Plate: 1 Rack: 1 410-0174796-136
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:50:04
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 4 13C4-PFBA										
216.80 > 171.90	4.187	4.187	0.0	1.000	1700662	1.59		79.6	6685	
* 5 13C3PFBA										
216.00 > 172.00	4.187	4.187	0.0		2082428	2.00			4974	
D 8 13C5 PFPeA										
268.30 > 223.00	4.836	4.844	-0.008	0.914	1632906	1.59		79.3	5769	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.109	5.121	-0.012	0.804	844315	3.46		73.9	5198	
D 15 13C5 PFHxA										
318.00 > 273.00	5.291	5.303	-0.012	1.000	1976636	1.58		78.9	3030	
* 16 13C2 PFHxA										
315.10 > 270.00	5.291	5.303	-0.012		5909542	5.00			6121	
D 19 13C3 PFBS										
302.10 > 79.90	5.435	5.437	-0.002	0.855	1957064	1.50		80.3	5075	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.474	5.486	-0.012	1.035	1397608	1.64		81.9	3837	
D 28 13C4 PFHpA										
367.10 > 322.00	5.720	5.732	-0.012	1.081	2033224	1.66		83.2	4466	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.918	5.930	-0.012	0.931	789660	3.83		80.5	2134	
* 34 13C4 PFOA										
417.10 > 372.00	6.132	6.143	-0.011		7894729	5.00			5076	
D 35 13C8 PFOA										
421.10 > 376.00	6.132	6.143	-0.011	1.000	2496526	1.55		77.6	4543	
* 39 18O2 PFHxS										
403.00 > 83.90	6.357	6.379	-0.022		1947346	1.90			7709	
D 38 13C3 PFHxS										
402.10 > 79.90	6.357	6.379	-0.022	1.000	1796422	1.62		85.7	6738	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 41 13C9 PFNA										
472.10 > 427.00	6.535	6.549	-0.014	1.000	2060433	1.59		79.7	3583	
* 42 13C5 PFNA										
468.00 > 423.00	6.535	6.560	-0.025		2497965	2.00			4688	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.725	6.737	-0.012	1.058	688632	3.24		67.4	3525	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.888	6.899	-0.011	0.954	1489863	3.16		63.2	2566	
* 51 13C2 PFDA										
515.10 > 470.10	6.957	6.970	-0.013		2440115	2.00			6292	
D 52 13C6 PFDA										
519.10 > 474.10	6.957	6.970	-0.013	1.000	1867107	1.55		77.6	3852	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.069	7.090	-0.021	0.979	1191475	2.93		58.6	1592	
58 PFOS										
498.90 > 79.90	7.230	7.232	-0.002	1.001	65956	0.0623	Target=4.60		155	
498.90 > 98.80	7.230	7.232	-0.002	1.001	12057		5.47(2.30-6.91)		16.8	
* 57 13C4 PFOS										
502.80 > 79.90	7.221	7.241	-0.020		1750816	1.92			8354	
D 56 13C8 PFOS										
507.10 > 79.90	7.221	7.241	-0.020	1.000	1498451	1.47		76.9	5633	
D 59 13C7 PFUnA										
570.00 > 525.10	7.364	7.387	-0.023	1.059	1985811	1.66		82.8	2898	
D 81 PFDoA										
615.10 > 570.00	7.775	7.806	-0.031	1.118	1751084	1.52		76.0	5169	
D 65 13C8 FOSA										
506.10 > 77.80	8.033	8.035	-0.002	1.112	1472449	1.40		70.2	5431	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.577	8.611	-0.034	1.233	1288432	1.24		62.2	3365	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.903	8.889	0.014	1.233	51922	0.6163		12.3	195	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.016	9.002	0.014	1.249	330052	0.99		49.6	2027	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.124	9.125	-0.001	1.264	27020	0.2976		6.0	71.6	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.215	9.215	0.0	1.276	398518	0.9321		46.6	2596	

QC Flag Legend

Processing Flags

Reagents:

1633_125_IS_V_00591 Amount Added: 50.00 Units: uL

Report Date: 05-Feb-2026 22:56:28 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-32.d

Injection Date: 05-Feb-2026 20:59:15 Instrument ID: 30577

Lims ID: 460-344047-A-2-B Lab Sample ID: 410-344047-2

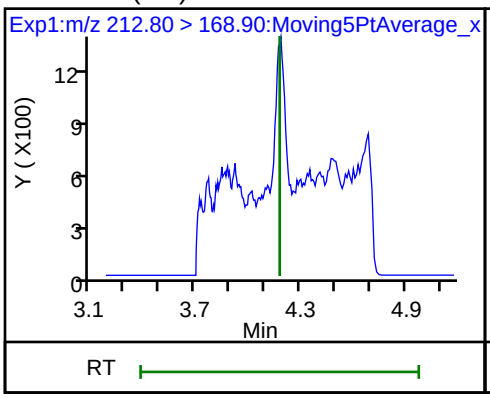
Client ID: RXSB-19 (6-8)_P

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 17 Worklist Smp#: 136

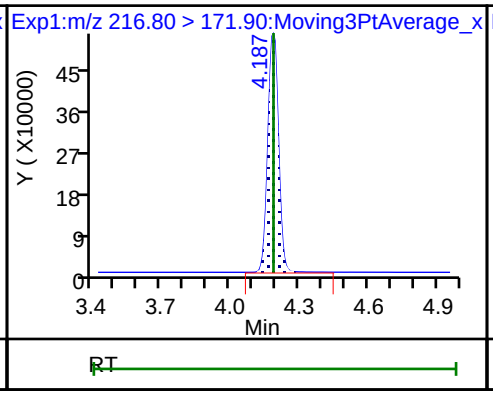
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

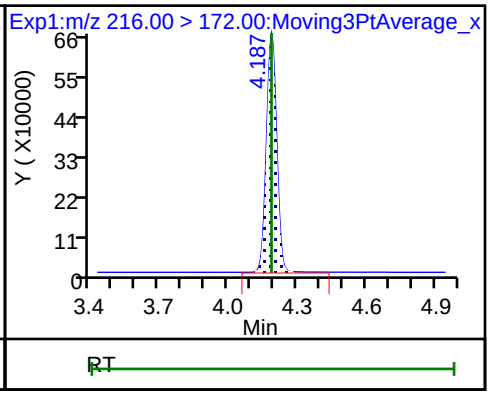
3 PFBA (ND)



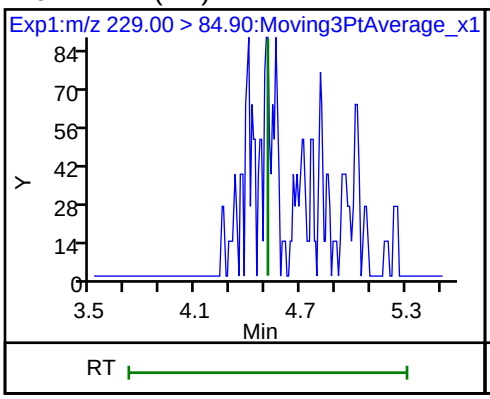
D 4 13C4-PFBA



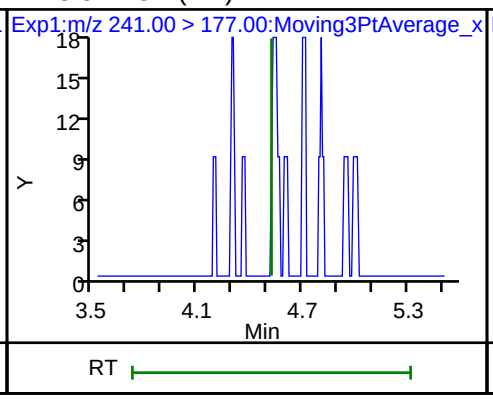
* 5 13C3PFBA



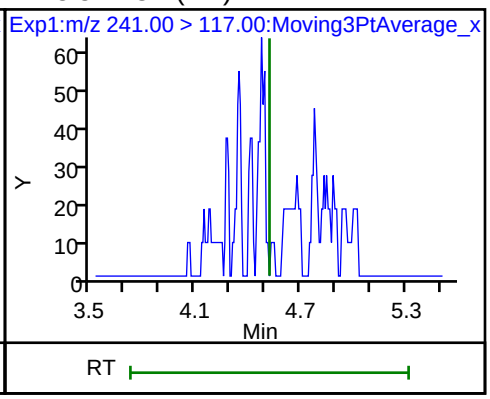
6 PFMPA (ND)



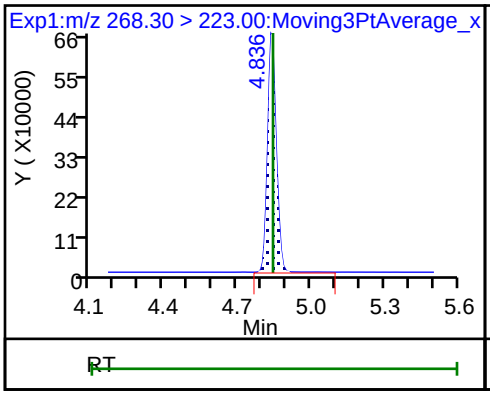
7 3:3 FTCA (ND)



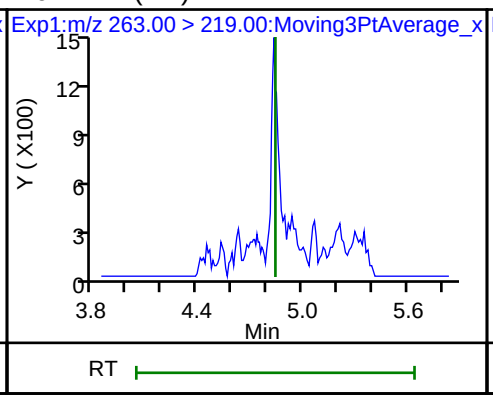
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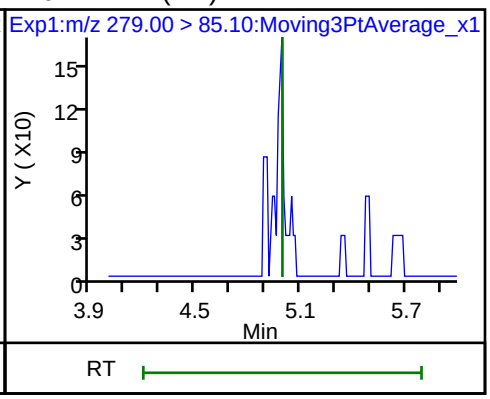
D 8 13C5 PFPeA



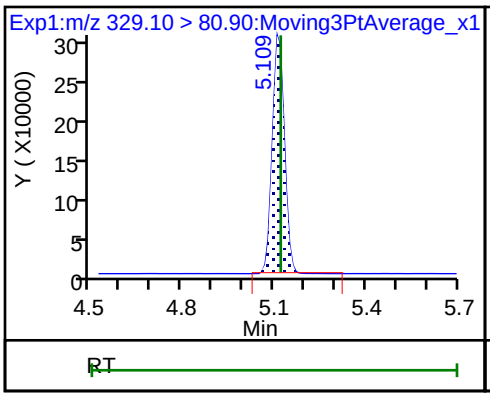
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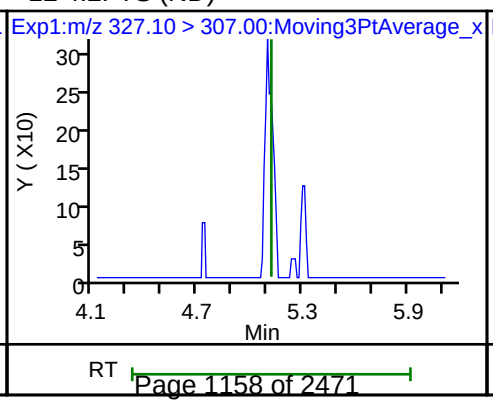
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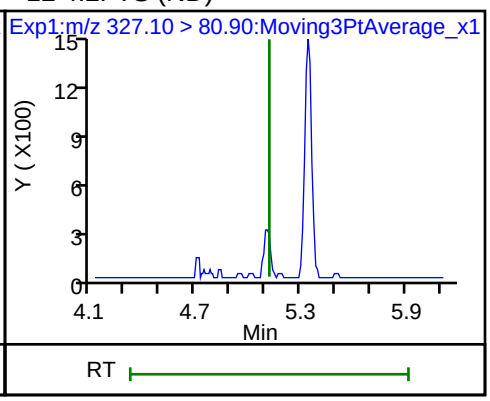
D 11 13C2-4:2FTS



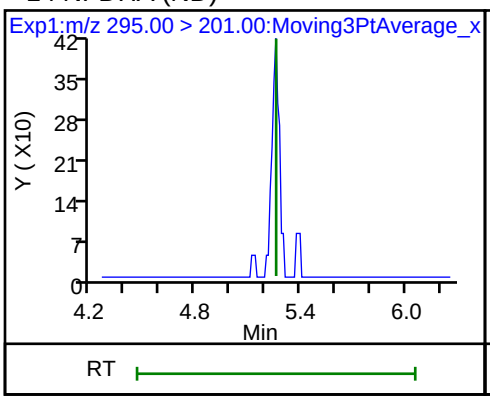
12 4:2FTS (ND)



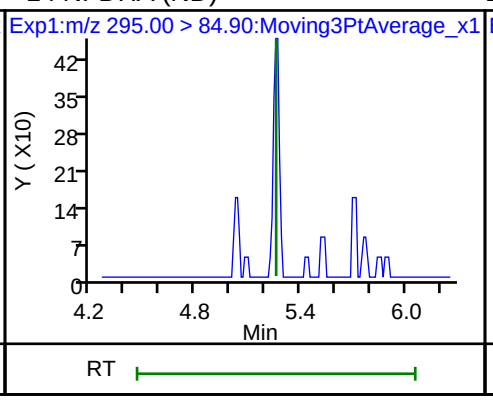
12 4:2FTS (ND)



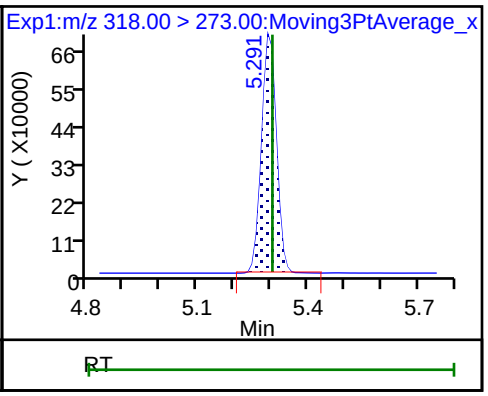
14 NFDHA (ND)



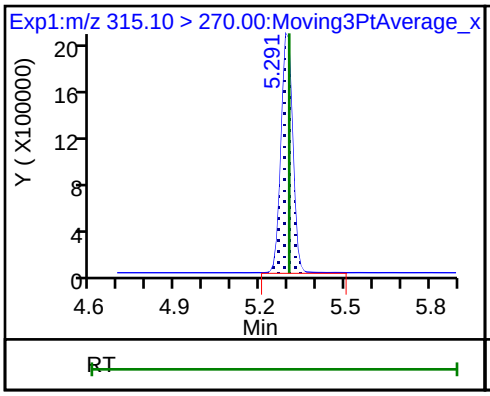
14 NFDHA (ND)



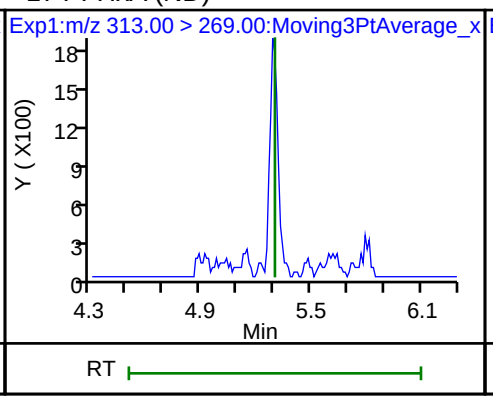
D 15 13C5 PFHxA



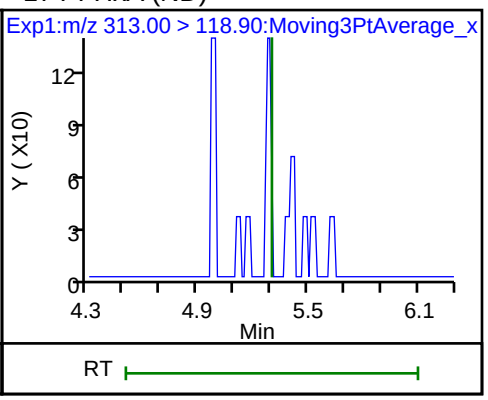
* 16 13C2 PFHxA



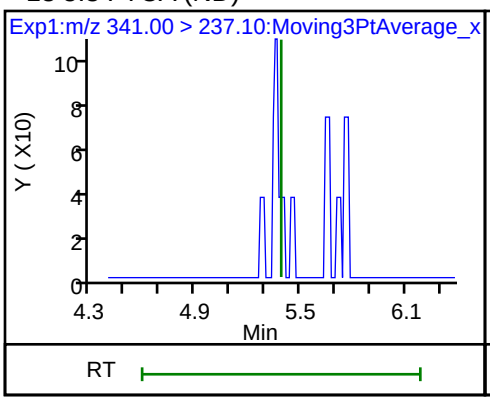
17 PFHxA (ND)



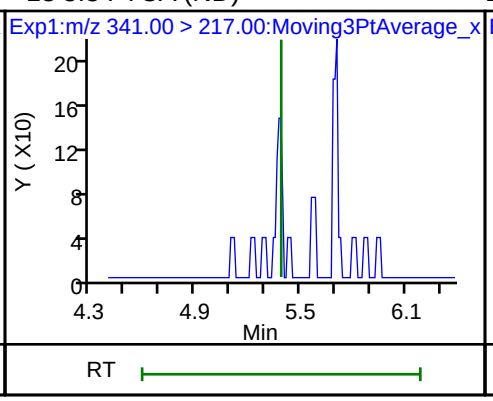
17 PFHxA (ND)



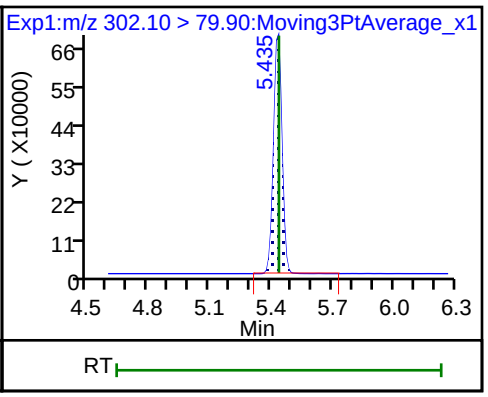
18 5:3 FTCA (ND)



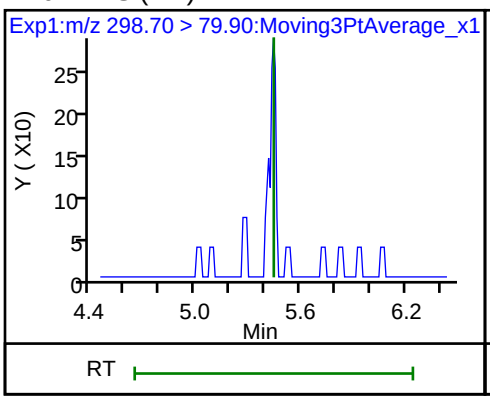
18 5:3 FTCA (ND)



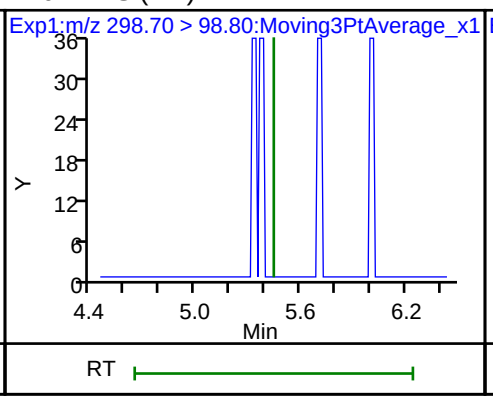
D 19 13C3 PFBS



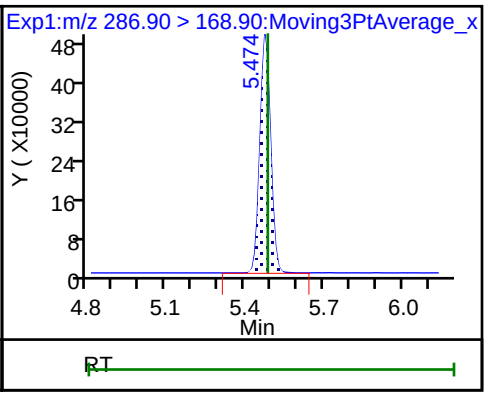
20 PFBS (ND)



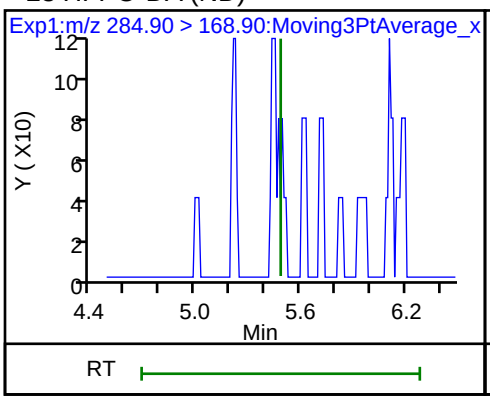
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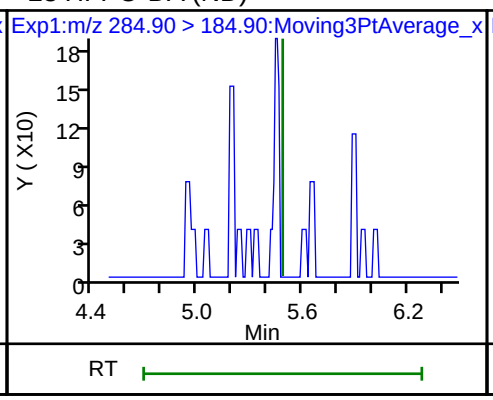
D 22 13C3 HFPO-DA



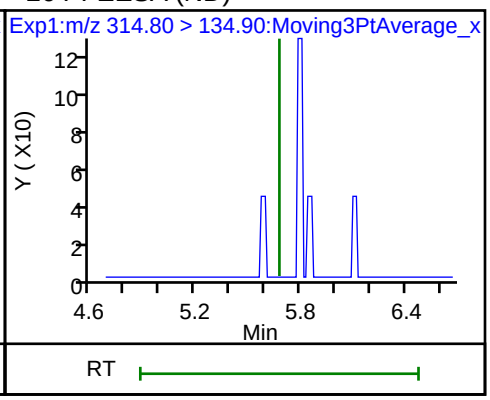
23 HFPO-DA (ND)



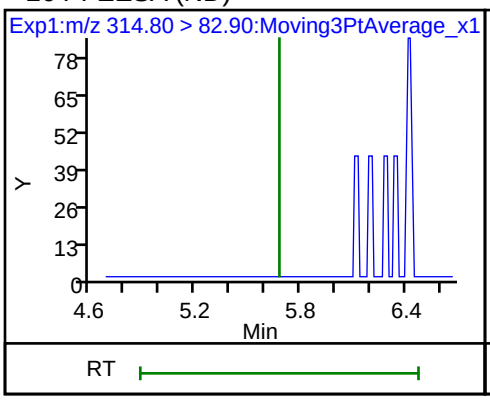
23 HFPO-DA (ND)



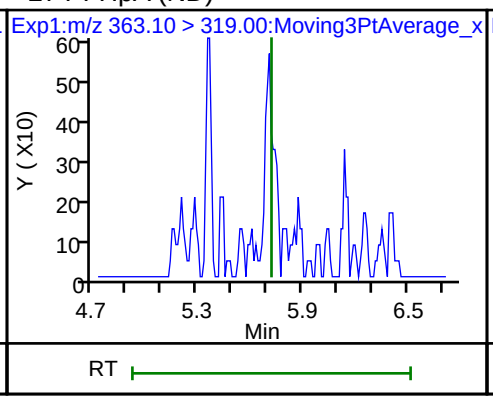
26 PFEESA (ND)



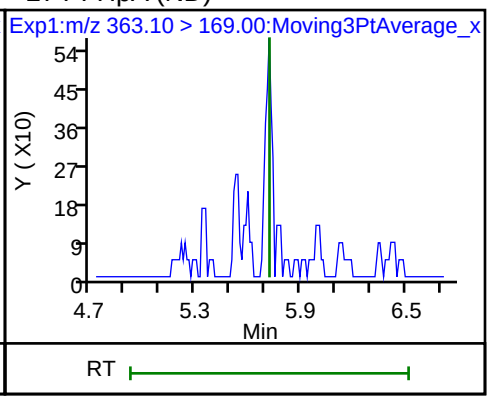
26 PFEESA (ND)



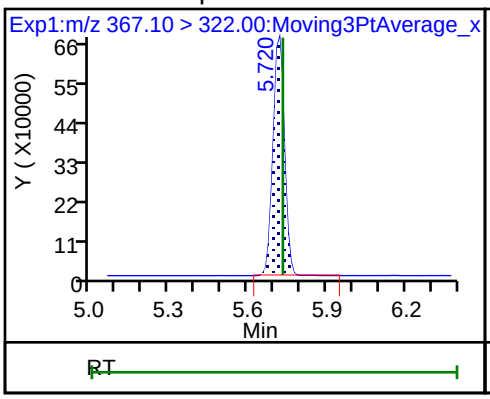
27 PFHpA (ND)



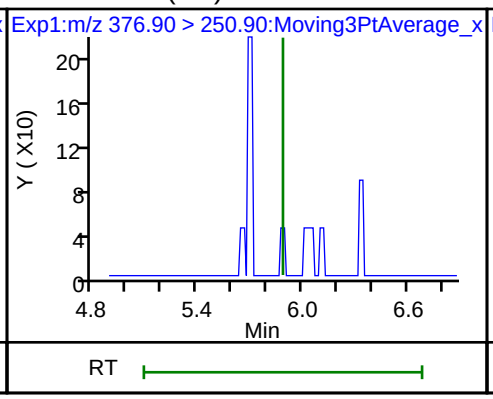
27 PFHpA (ND)



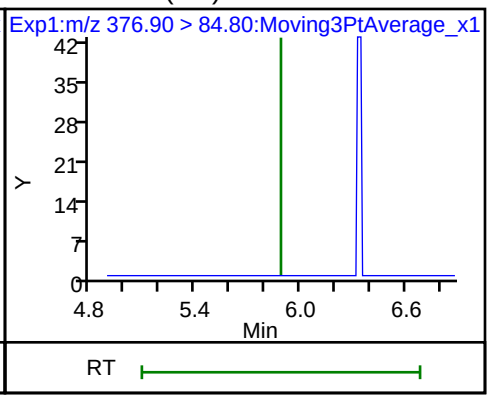
D 28 13C4 PFHpA



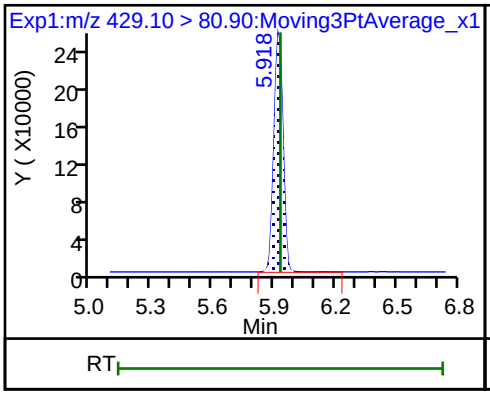
29 ADONA (ND)



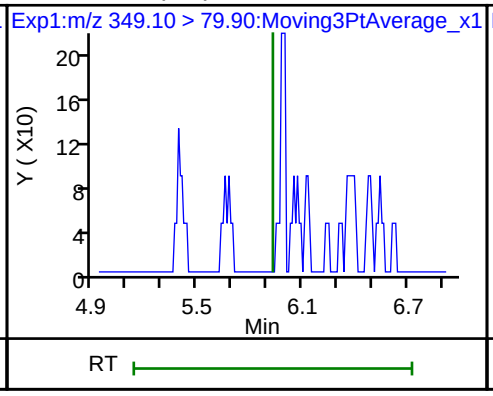
29 ADONA (ND)



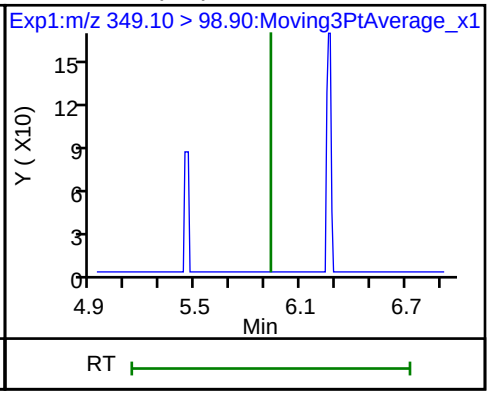
D 32 13C2-6:2FTS



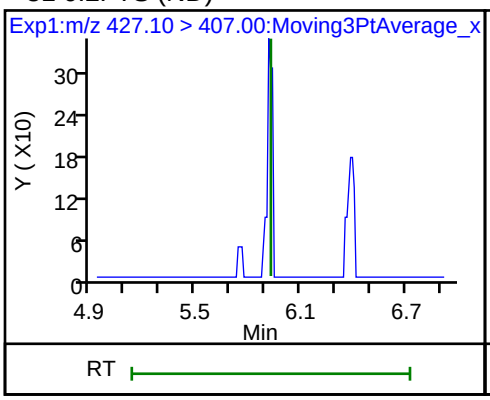
30 PFPeS (ND)



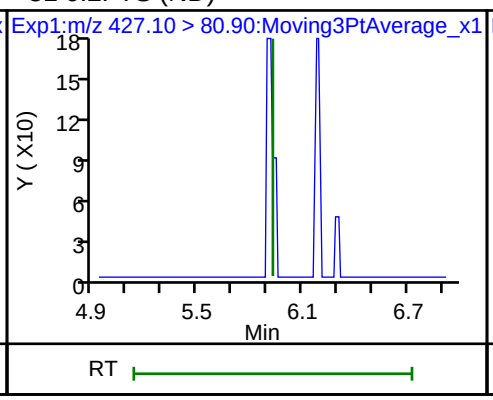
30 PFPeS (ND)



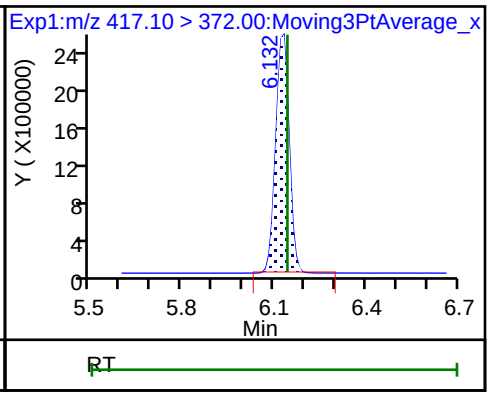
31 6:2FTS (ND)



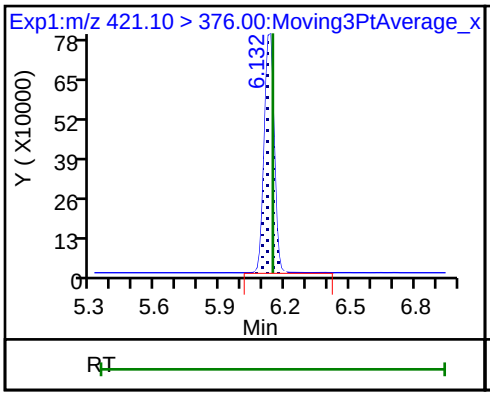
31 6:2FTS (ND)



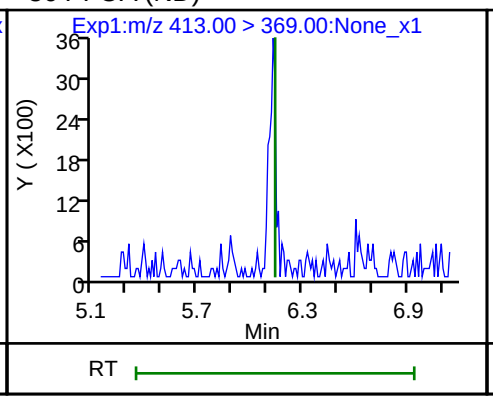
* 34 13C4 PFOA



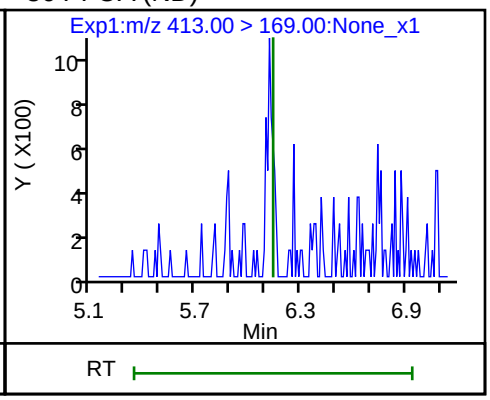
D 35 13C8 PFOA



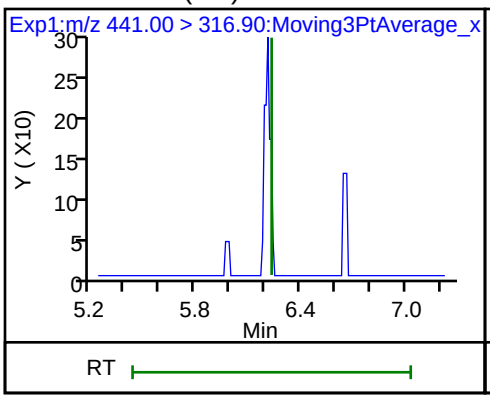
36 PFOA (ND)



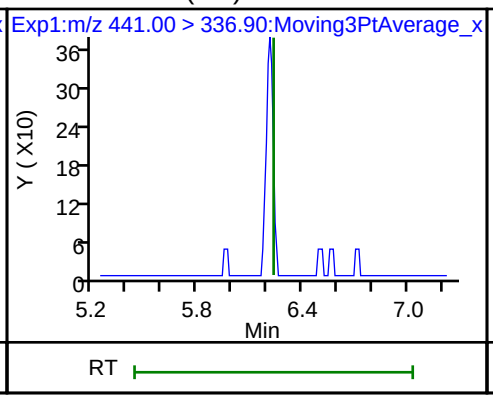
36 PFOA (ND)



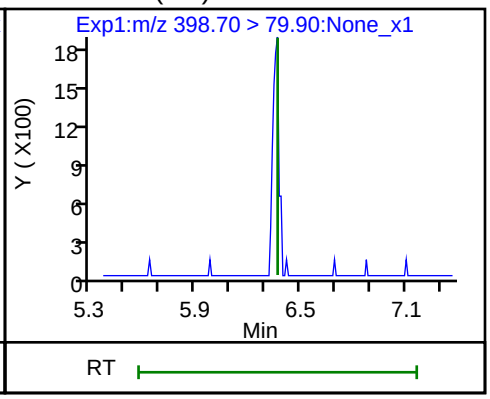
37 7:3 FTCA (ND)



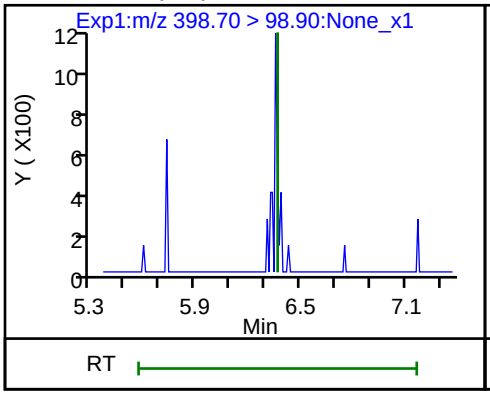
37 7:3 FTCA (ND)



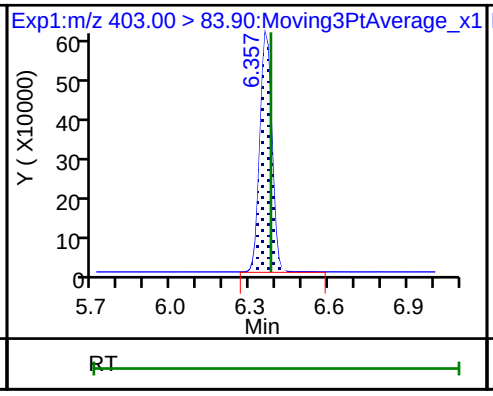
40 PFHxS (ND)



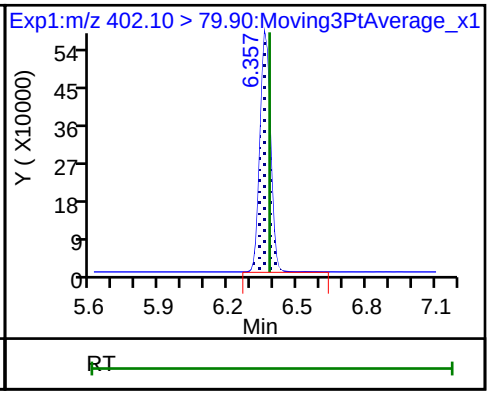
40 PFHxS (ND)



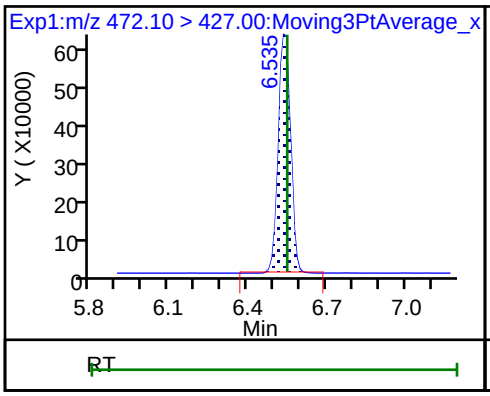
* 39 18O2 PFHxS



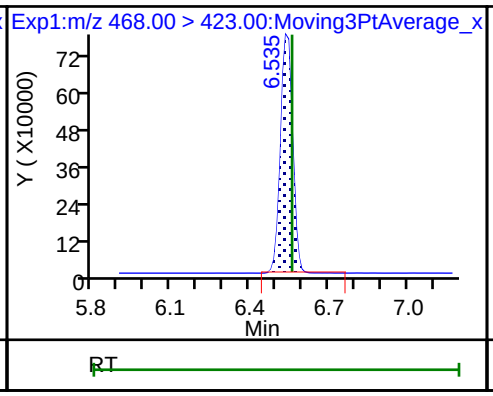
D 38 13C3 PFHxS



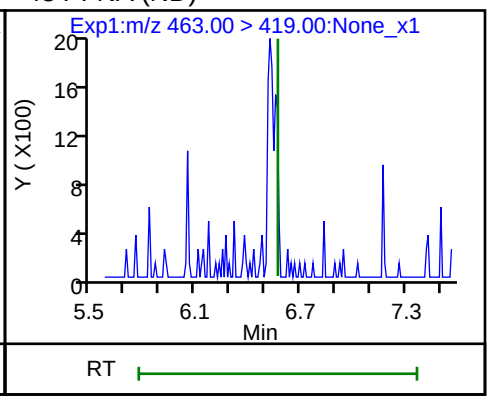
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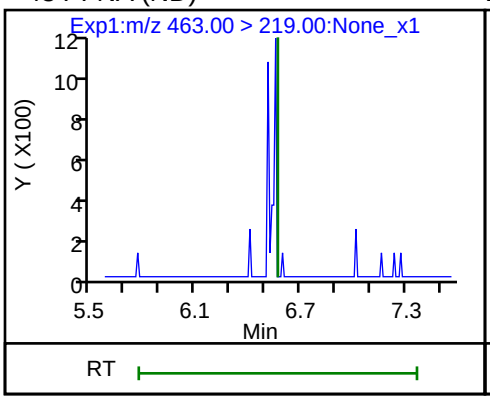
* 42 13C5 PFNA



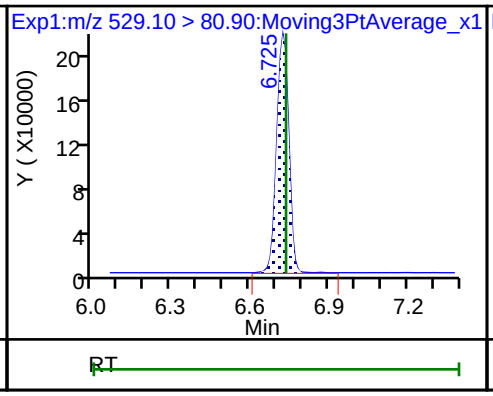
43 PFNA (ND)



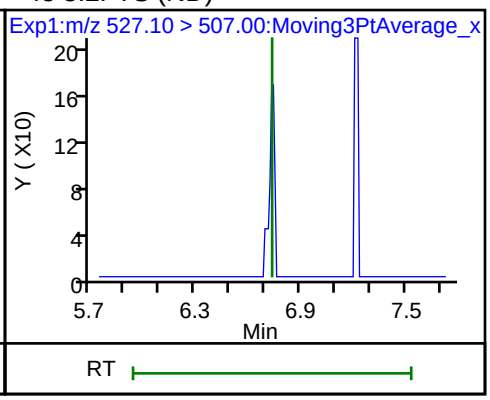
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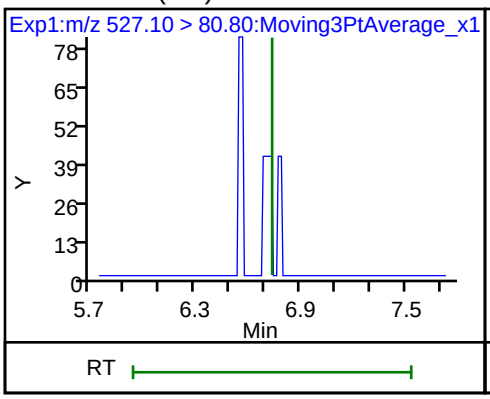
D 44 13C2-8:2FTS



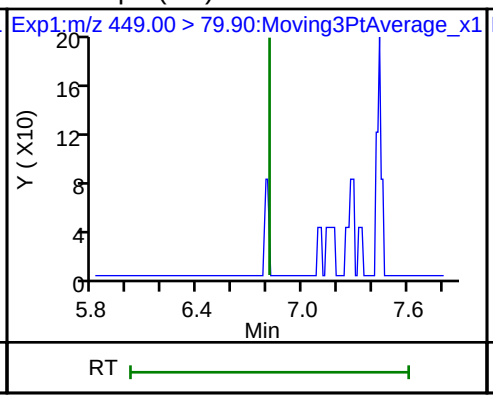
45 8:2FTS (ND)



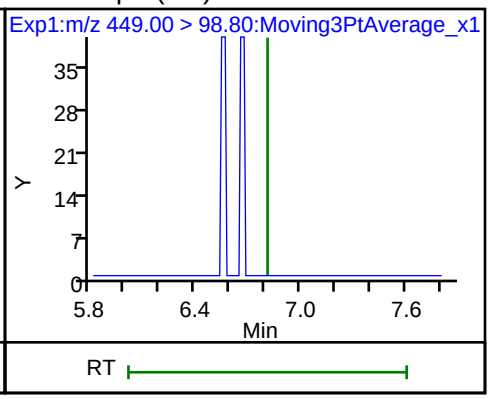
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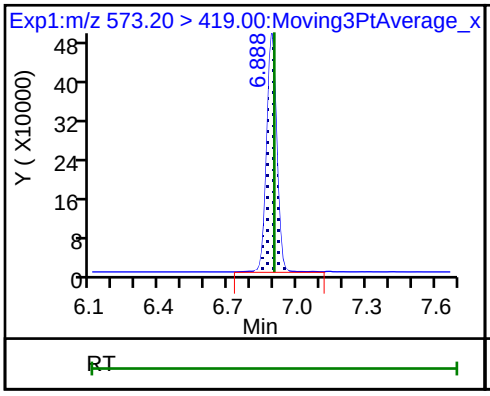
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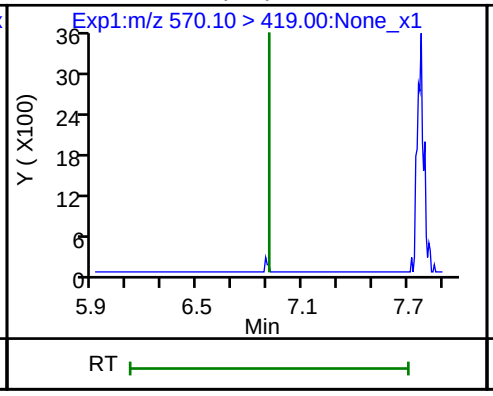
47 PFHpS (ND)



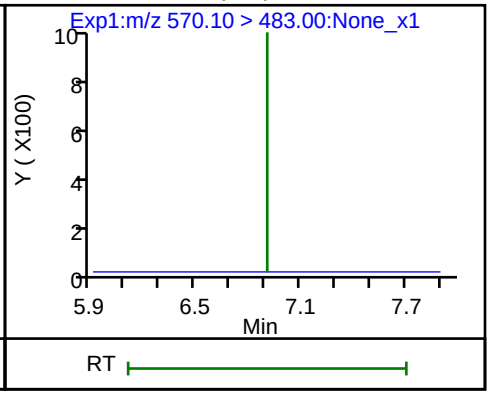
D 49 d3-NMeFOSAA



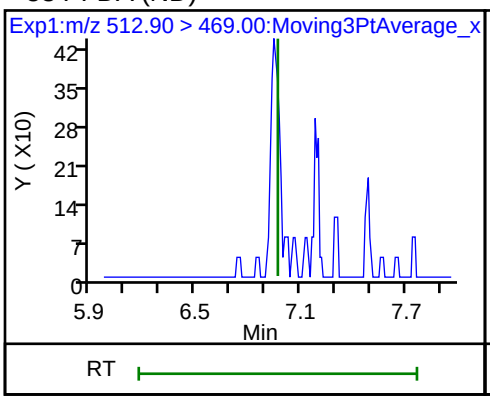
50 NMeFOSAA (ND)



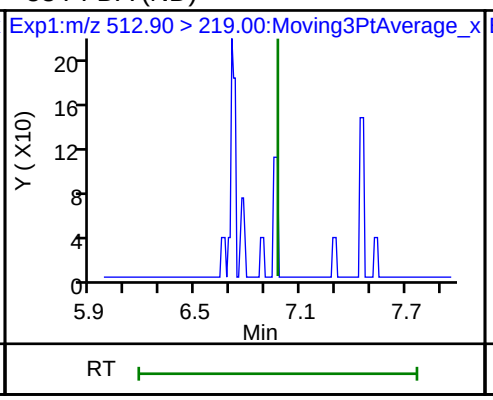
50 NMeFOSAA (ND)



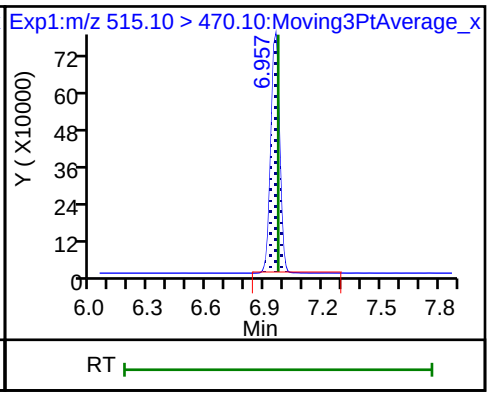
53 PFDA (ND)



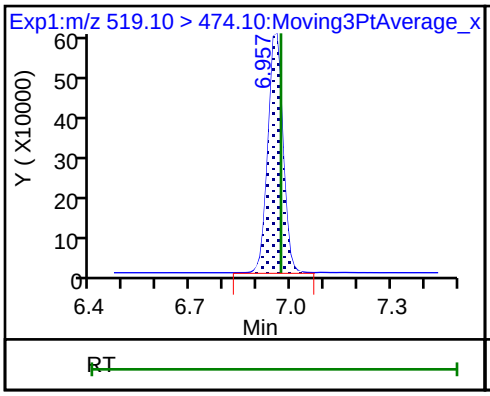
53 PFDA (ND)



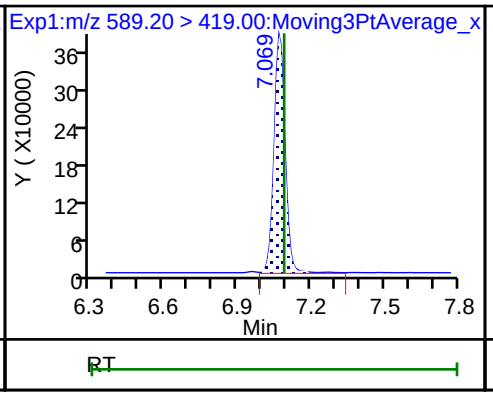
* 51 13C2 PFDA



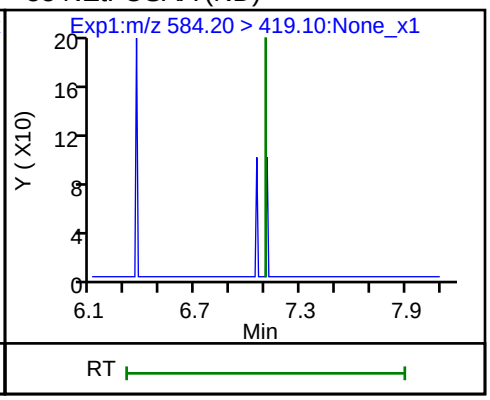
D 52 13C6 PFDA



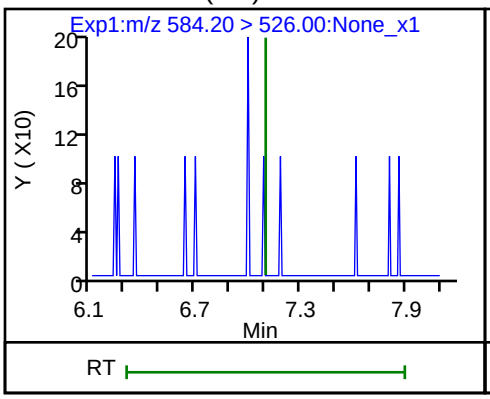
D 54 d5-NEtFOSAA



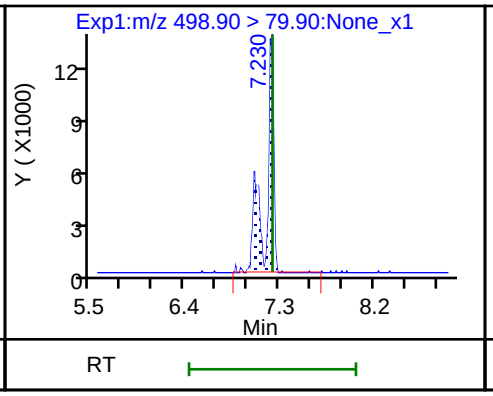
55 NEtFOSAA (ND)



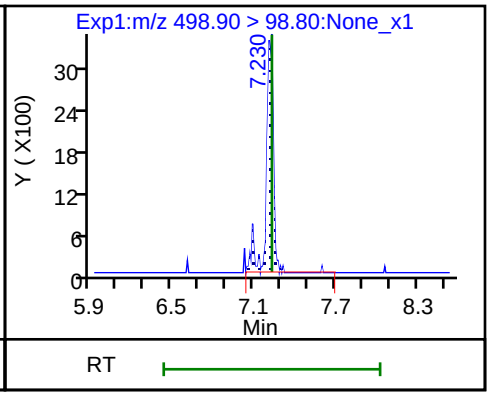
55 NEtFOSAA (ND)



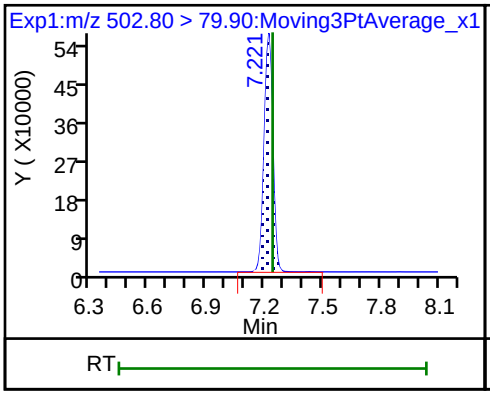
58 PFOS



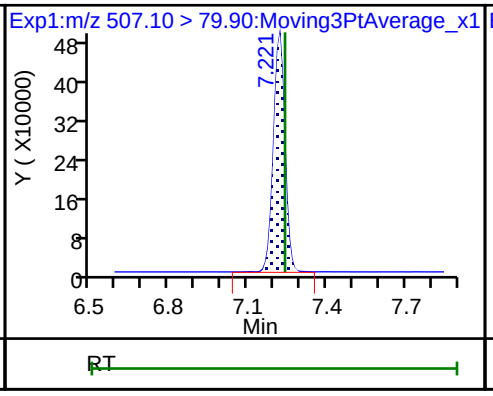
58 PFOS



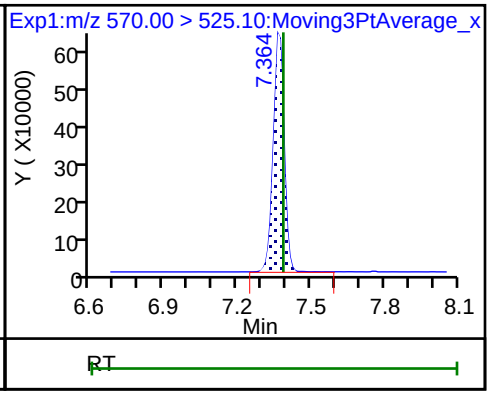
* 57 13C4 PFOS



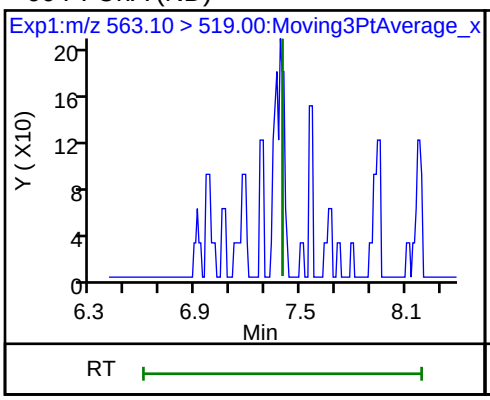
D 56 13C8 PFOS



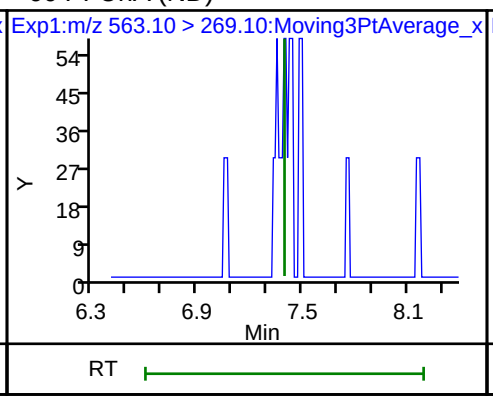
D 59 13C7 PFUnA



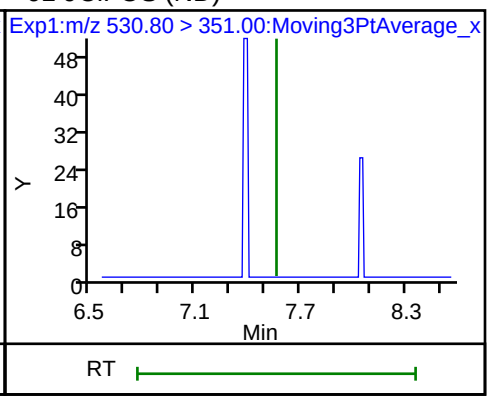
60 PFUnA (ND)



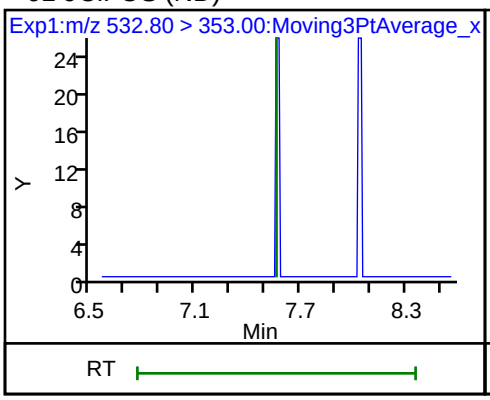
60 PFUnA (ND)



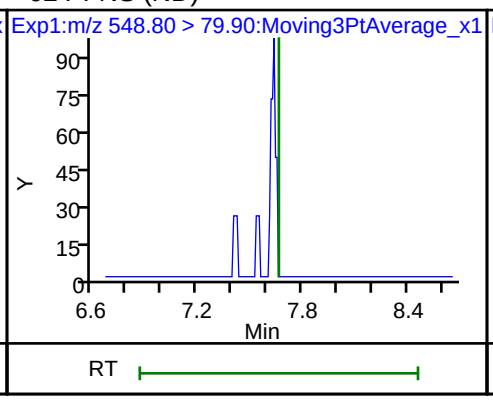
61 9ClFOS (ND)



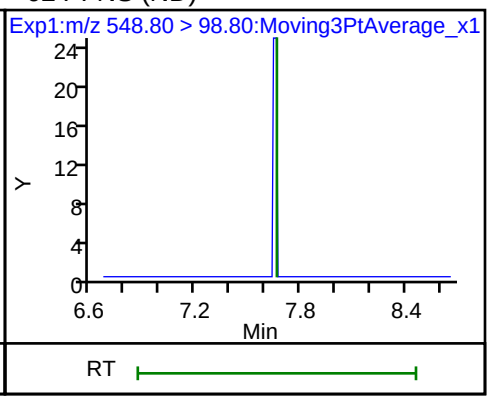
61 9ClFOS (ND)



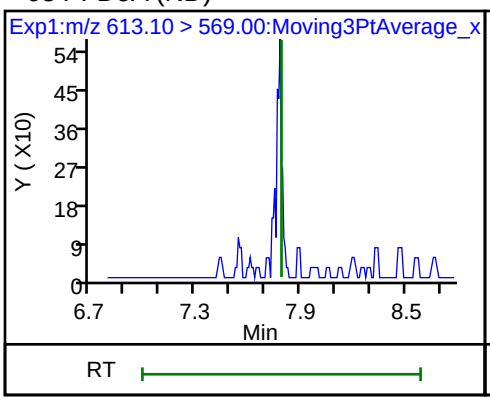
62 PFNS (ND)



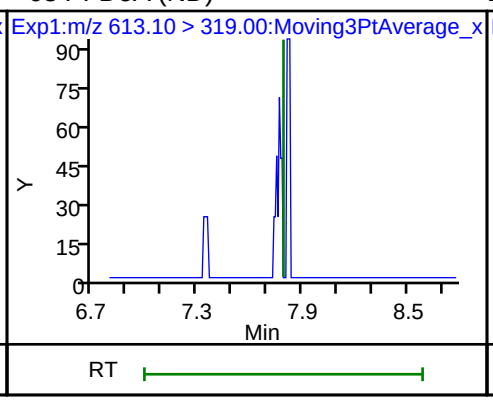
62 PFNS (ND)



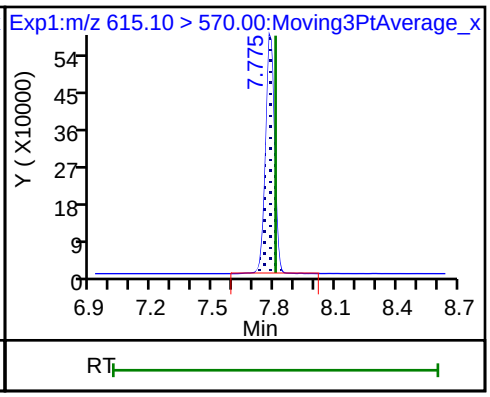
63 PFDoA (ND)



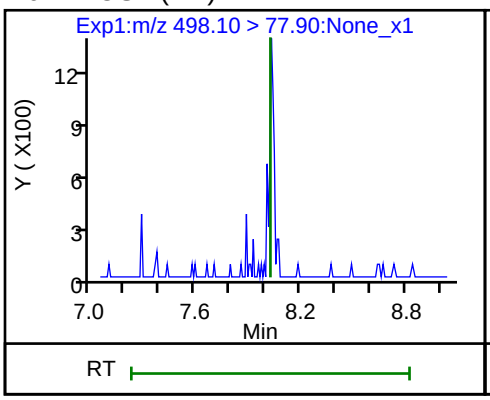
63 PFDoA (ND)



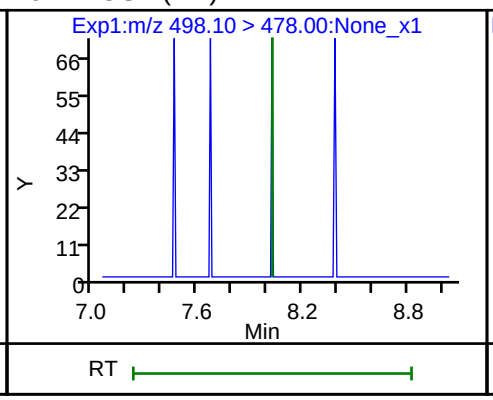
D 81 PFDoA



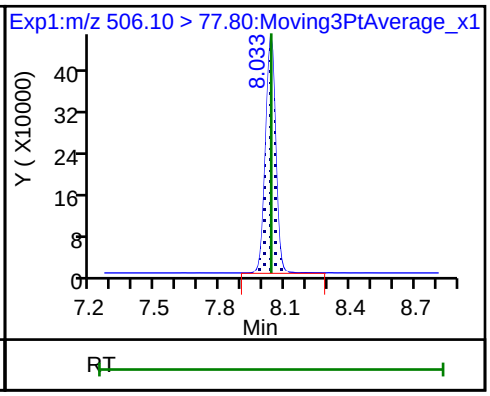
64 PFOSA (ND)



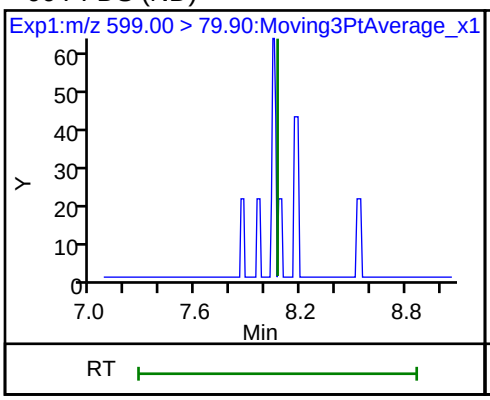
64 PFOSA (ND)



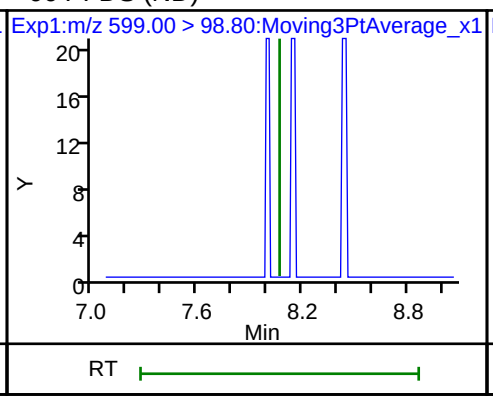
D 65 13C8 FOSA



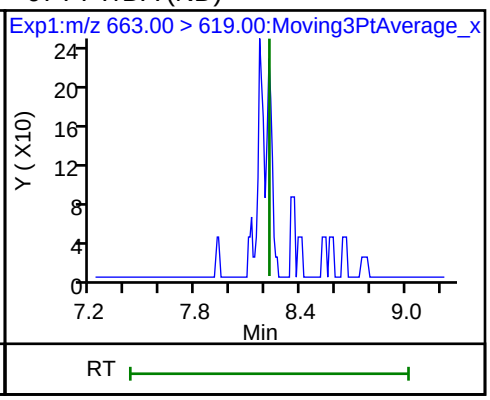
66 PFDS (ND)



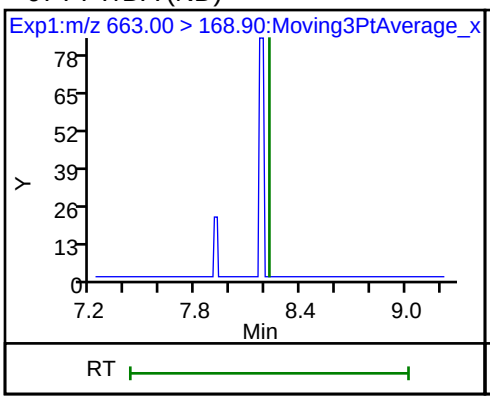
66 PFDS (ND)



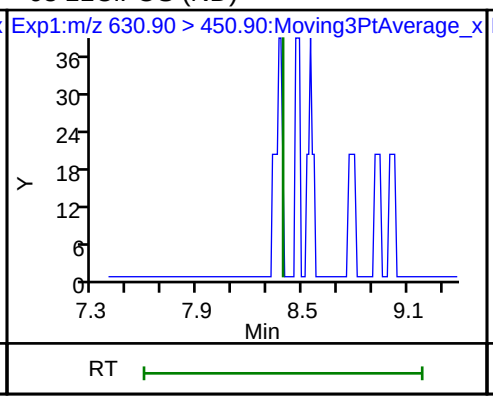
67 PFTrDA (ND)



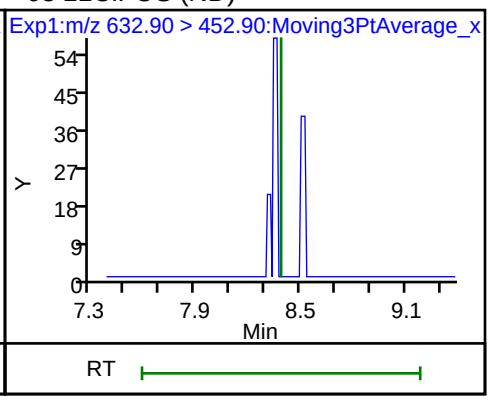
67 PFTrDA (ND)



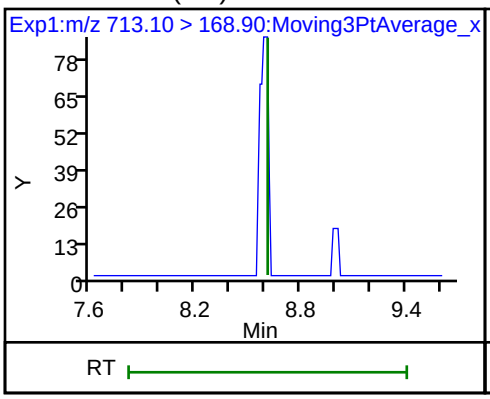
68 11ClFOS (ND)



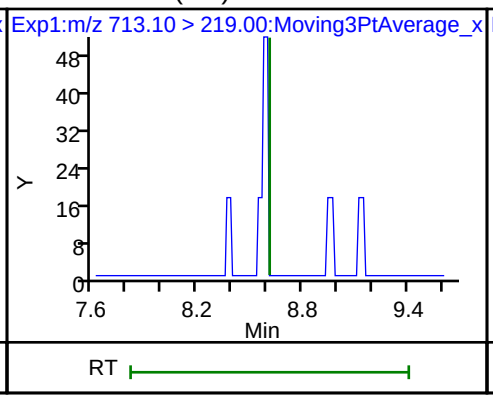
68 11ClFOS (ND)



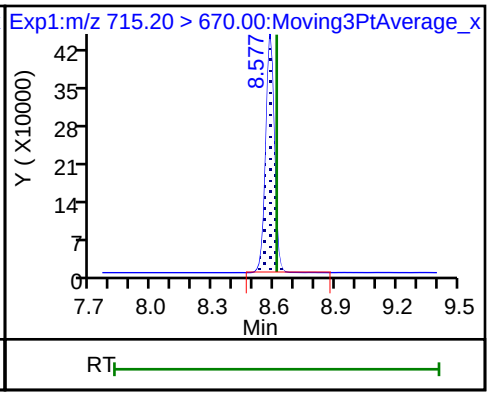
69 PFTeDA (ND)



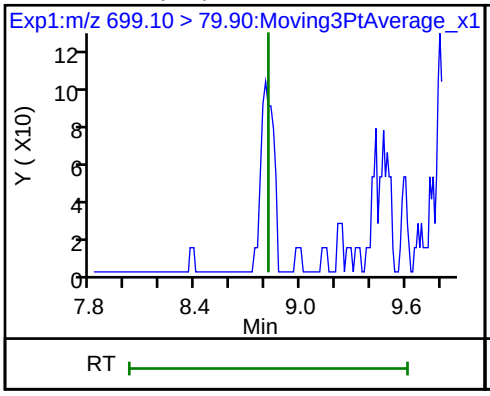
69 PFTeDA (ND)



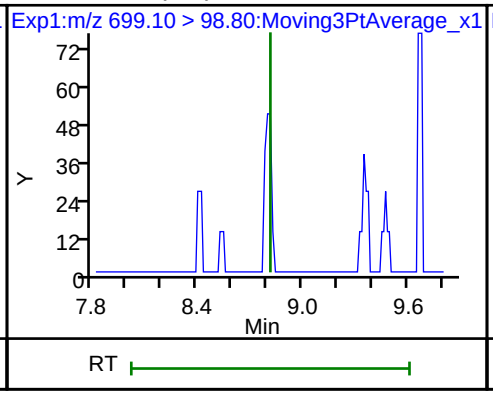
D 70 13C2 PFTeDA



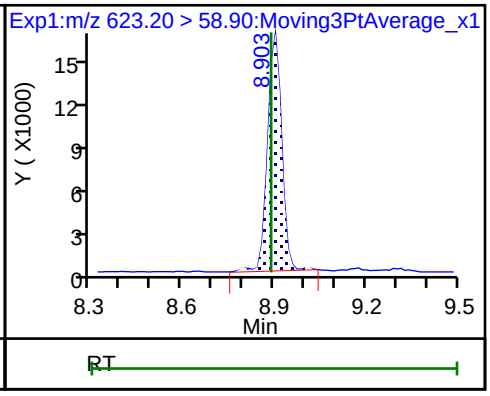
71 PFDoS (ND)



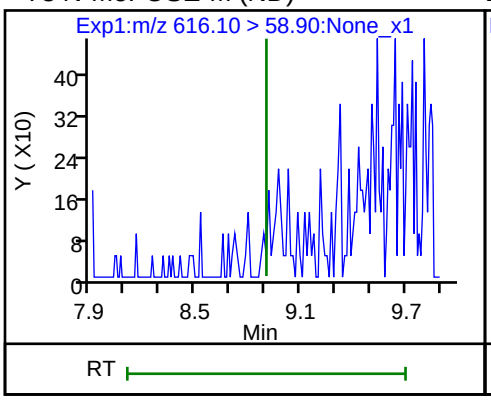
71 PFDoS (ND)



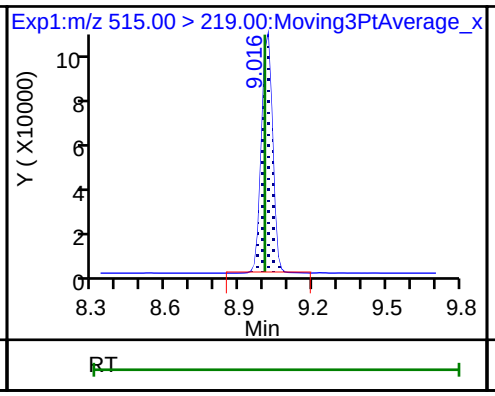
D 72 d7-N-Me-FOSE



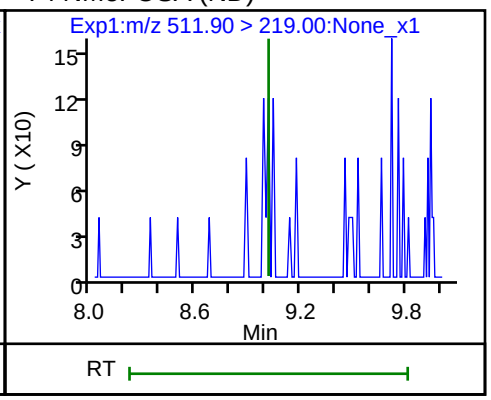
73 N-MeFOSE-M (ND)



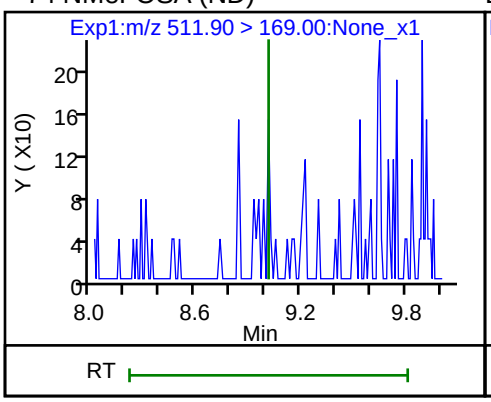
D 75 d3-NMePFOSA



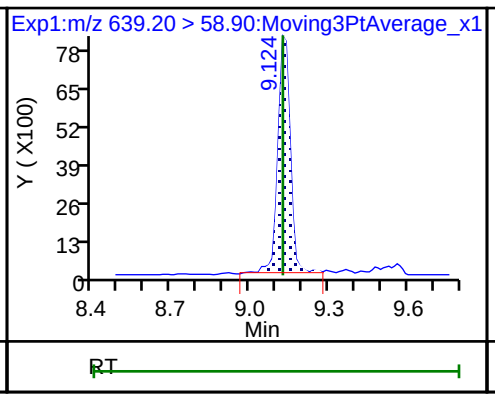
74 NMeFOSA (ND)



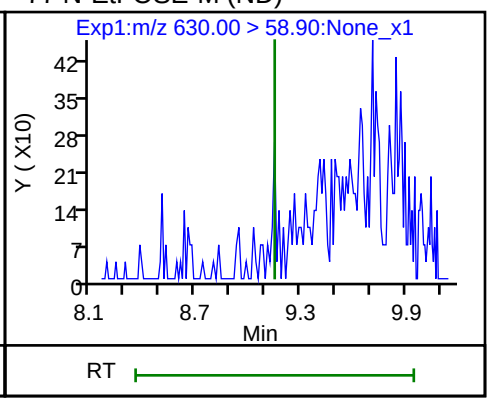
74 NMeFOSA (ND)



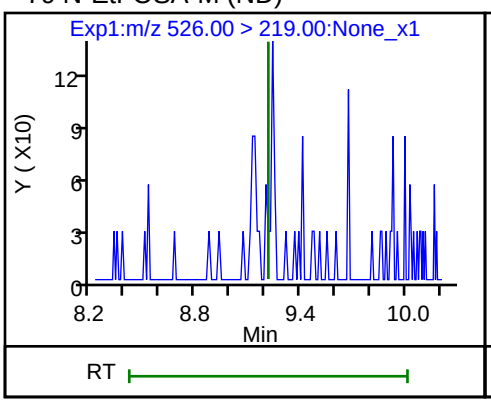
D 76 d9-N-EtFOSE



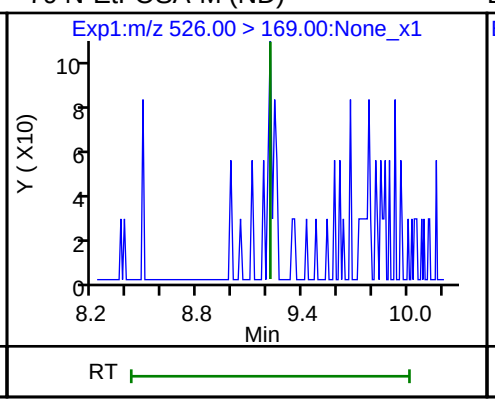
77 N-EtFOSE-M (ND)



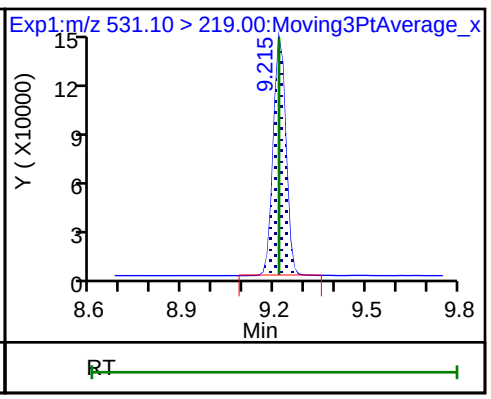
79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



D 78 d5-NEtPFOSA



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-16 (0-2)_P
Lab Sample ID: 460-344047-3

Matrix: Solid
Lab File ID: 26FEB05JO-33.d

Analysis Method: 1633A
Date Collected: 01/29/2026 12:00

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.16(g)
Date Analyzed: 02/05/2026 21:12

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 6.6 % Solids: 93.4
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.40	U	0.40	0.099
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.099
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.099
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.099
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.059
375-95-1	Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.099
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.059
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.099
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.099
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.099
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.099
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.099
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.099
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.099
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.099
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.42		0.20	0.099
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.099
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.099
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.099
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.40	U	0.40	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.40	U	0.40	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.40	U	0.40	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.099
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.099
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.099

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-16 (0-2)_P
Lab Sample ID: 460-344047-3

Matrix: Solid
Lab File ID: 26FEB05JO-33.d

Analysis Method: 1633A
Date Collected: 01/29/2026 12:00

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.16(g)
Date Analyzed: 02/05/2026 21:12

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 6.6 % Solids: 93.4
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.099
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.099
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.99	U	0.99	0.50
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.99	U	0.99	0.50
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.20	0.099
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.20	0.099
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	0.20	0.099
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	0.20	0.099
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.20	U	0.20	0.099
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.20	U	0.20	0.099
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.20	U	0.20	0.099
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.20	U	0.20	0.099
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.40	U	0.40	0.20
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.99	U	0.99	0.50
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.99	U	0.99	0.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-16 (0-2)_P Lab Sample ID: 460-344047-3

Matrix: Solid Lab File ID: 26FEB05JO-33.d

Analysis Method: 1633A Date Collected: 01/29/2026 12:00

Extraction Method: 1633A Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.16(g) Date Analyzed: 02/05/2026 21:12

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 6.6 % Solids: 93.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196 Units: ug/Kg

Preparation Batch No.: 765112 Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	85.4		8-130
2283397-79-3	13C5 PFPeA	83.2		35-130
2328024-54-8	13C5 PFHxA	84.6		40-130
2328024-55-9	13C4 PFHpA	85.4		40-130
1350614-84-4	13C8 PFOA	87.2		40-130
2283397-80-6	13C9 PFNA	82.1		40-130
2328024-56-0	13C6 PFDA	85.7		40-130
STL02580	13C7 PFUnA	78.2		40-130
STL02116	13C2 PFTeDA	57.5		20-130
2708218-83-9	13C3 PFBS	85.3		40-135
2708218-85-1	13C3 PFHxS	83.9		40-130
2265893-05-6	13C8 PFOS	82.0		40-130
STL01056	13C8 FOSA	84.8		40-130
1400690-70-1	d3-NMeFOSAA	80.5		40-135
1265205-97-7	d5-NEtFOSAA	76.7		40-150
STL02395	13C2 4:2 FTS	194	*	40-165
STL02279	13C2 6:2 FTS	175		40-215
STL02280	13C2 8:2 FTS	129		40-275
STL02255	13C3 HFPO-DA	75.3		40-130
STL02277	d7-N-MeFOSE-M	35.8		20-130
STL02278	d9-N-EtFOSE-M	31.1		15-130
STL02704	d5-NEtPFOSA	59.2		10-130
STL02705	d3-NMePFOSA	64.2		10-130
960315-52-0	13C2 PFDoA	73.1		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-33.d
Lims ID: 460-344047-A-3-B
Client ID: RXSB-16 (0-2)_P
Sample Type: Client
Inject. Date: 05-Feb-2026 21:12:50 ALS Bottle#: 18 Worklist Smp#: 137
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 460-344047-A-3-B
Misc. Info.: Plate: 1 Rack: 1 410-0174796-137
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:51:15
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 4 13C4-PFBA										
216.80 > 171.90	4.181	4.187	-0.006	1.000	1889026	1.71		85.4	5248	
* 5 13C3PFBA										
216.00 > 172.00	4.181	4.187	-0.006		2156343	2.00			5005	
D 8 13C5 PFPeA										
268.30 > 223.00	4.837	4.844	-0.007	0.912	1907197	1.66		83.2	5019	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.121	5.121	0.0	0.804	2319148	9.10		194	1486	
D 15 13C5 PFHxA										
318.00 > 273.00	5.292	5.303	-0.011	0.998	2358644	1.69		84.6	7791	
* 16 13C2 PFHxA										
315.10 > 270.00	5.303	5.303	0.0		6578452	5.00			7856	
D 19 13C3 PFBS										
302.10 > 79.90	5.437	5.437	0.0	0.854	2172881	1.59		85.3	3714	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.486	5.486	0.0	1.035	1429686	1.51		75.3	6437	
D 28 13C4 PFHpA										
367.10 > 322.00	5.722	5.732	-0.010	1.079	2325647	1.71		85.4	6165	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.930	5.930	0.0	0.931	1791383	8.32		175	2781	
* 34 13C4 PFOA										
417.10 > 372.00	6.133	6.143	-0.010		8548995	5.00			7303	
D 35 13C8 PFOA										
421.10 > 376.00	6.133	6.143	-0.010	1.000	3038168	1.74		87.2	4041	
36 PFOA										M
413.00 > 369.00	6.123	6.143	-0.020	0.998	20677	0.0220	Target=1.91		12.7	M
413.00 > 169.00	6.113	6.143	-0.030	0.997	8971		2.30(0.96-2.87)		10.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
40 PFHxS										7M
398.70 > 79.90	6.369	6.369	0.0	1.000	9195	0.0123	Target=3.07		17.1	7M
398.70 > 98.90	6.369	6.369	0.0	1.000	2241		4.10(1.53-4.60)		6.0	
LOD = 0.0125										
* 39 18O2 PFHxS										
403.00 > 83.90	6.369	6.379	-0.010		2035773	1.90			5635	
D 38 13C3 PFHxS										
402.10 > 79.90	6.369	6.379	-0.010	1.000	1838238	1.59		83.9	2883	
D 41 13C9 PFNA										
472.10 > 427.00	6.539	6.549	-0.010	1.000	2245929	1.64		82.1	4495	
* 42 13C5 PFNA										
468.00 > 423.00	6.539	6.560	-0.021		2644616	2.00			6800	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.728	6.737	-0.009	1.056	1372454	6.17		129	2472	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.892	6.899	-0.007	0.955	1819241	4.03		80.5	1939	
* 51 13C2 PFDA										
515.10 > 470.10	6.952	6.970	-0.018		2768132	2.00			5460	
D 52 13C6 PFDA										
519.10 > 474.10	6.962	6.970	-0.008	1.001	2339717	1.71		85.7	10813	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.073	7.090	-0.017	0.980	1496793	3.84		76.7	1391	
58 PFOS										
498.90 > 79.90	7.225	7.232	-0.007	1.001	183840	0.1698	Target=4.60		238	
498.90 > 98.80	7.225	7.232	-0.007	1.001	36128		5.09(2.30-6.91)		95.3	
* 57 13C4 PFOS										
502.80 > 79.90	7.216	7.241	-0.025		1679081	1.92			5562	
D 56 13C8 PFOS										
507.10 > 79.90	7.216	7.241	-0.025	1.000	1531535	1.57		82.0	1989	
D 59 13C7 PFUnA										
570.00 > 525.10	7.370	7.387	-0.017	1.060	2125704	1.56		78.2	4735	
D 81 PFDoA										
615.10 > 570.00	7.779	7.806	-0.027	1.119	1910797	1.46		73.1	4348	
D 65 13C8 FOSA										
506.10 > 77.80	8.038	8.035	0.003	1.114	1706286	1.70		84.8	6007	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.585	8.611	-0.026	1.235	1352311	1.15		57.5	3360	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.901	8.889	0.012	1.233	144550	1.79		35.8	505	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.013	9.002	0.011	1.249	409397	1.28		64.2	2974	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.135	9.125	0.010	1.266	135591	1.56		31.1	440	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.212	9.215	-0.003	1.277	485602	1.18		59.2	1614	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00591 Amount Added: 50.00 Units: uL

Report Date: 05-Feb-2026 22:56:34 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-33.d

Injection Date: 05-Feb-2026 21:12:50 Instrument ID: 30577

Lims ID: 460-344047-A-3-B Lab Sample ID: 410-344047-3

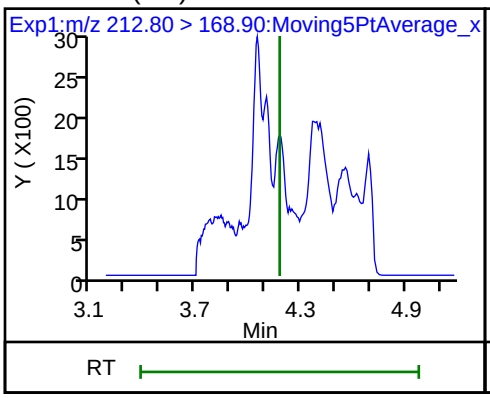
Client ID: RXSB-16 (0-2)_P

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 18 Worklist Smp#: 137

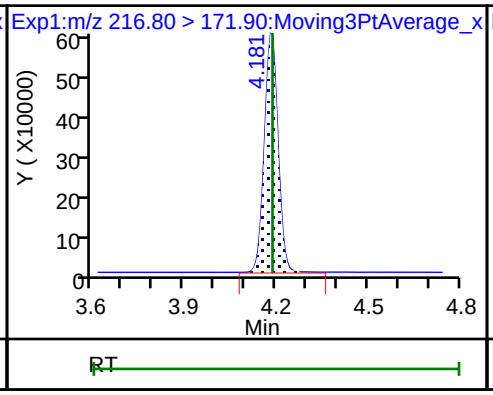
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

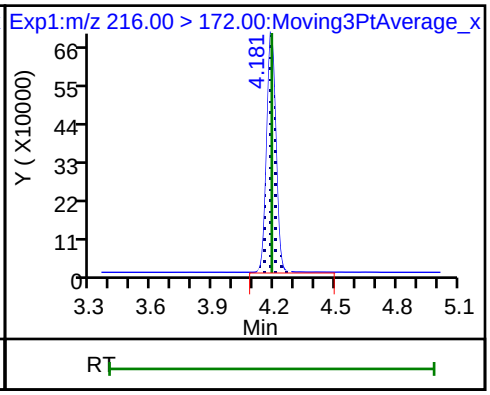
3 PFBA (ND)



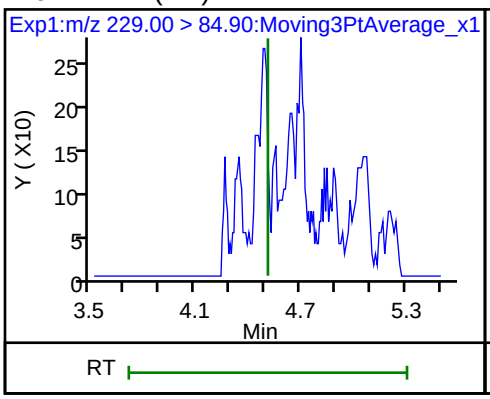
D 4 13C4-PFBA



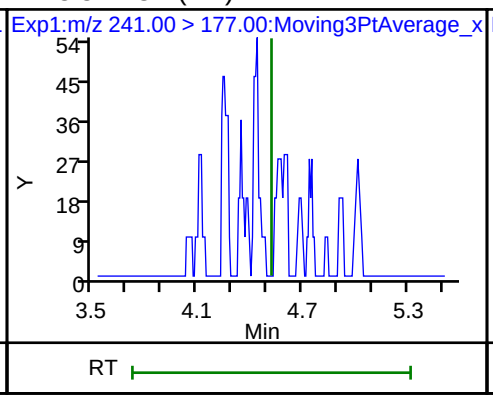
* 5 13C3PFBA



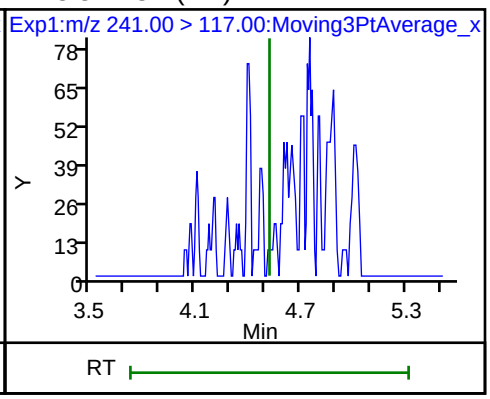
6 PFMPA (ND)



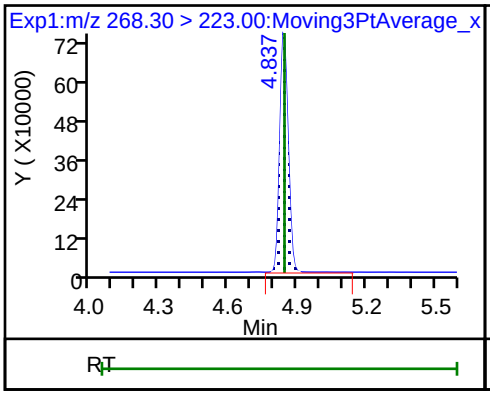
7 3:3 FTCA (ND)



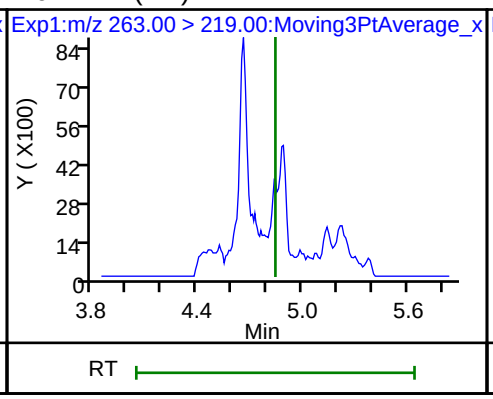
7 3:3 FTCA (ND)



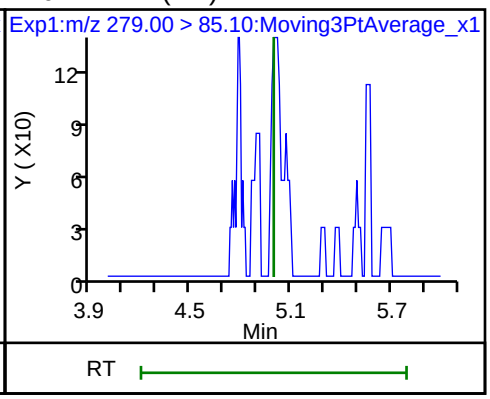
D 8 13C5 PFPeA



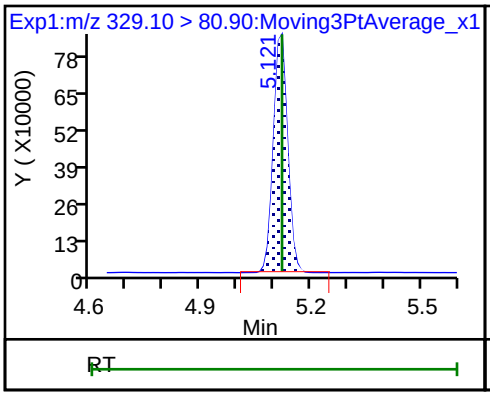
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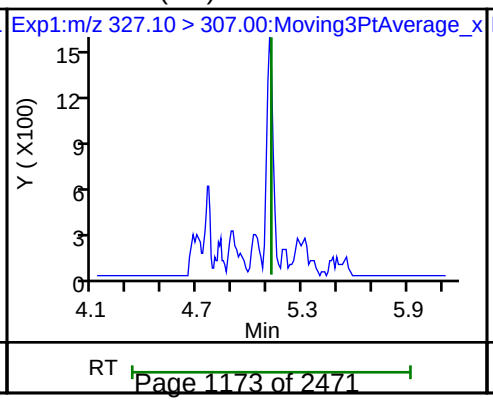
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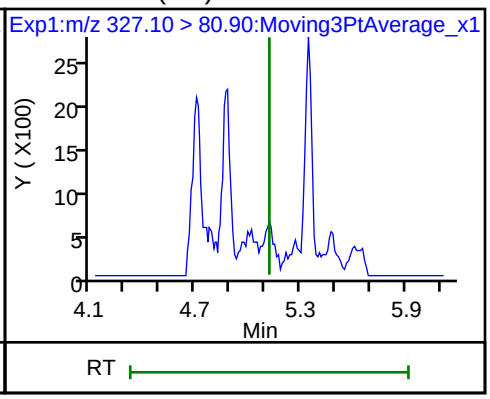
D 11 13C2-4:2FTS



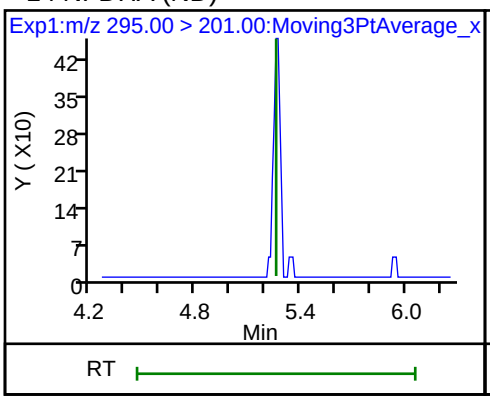
12 4:2FTS (ND)



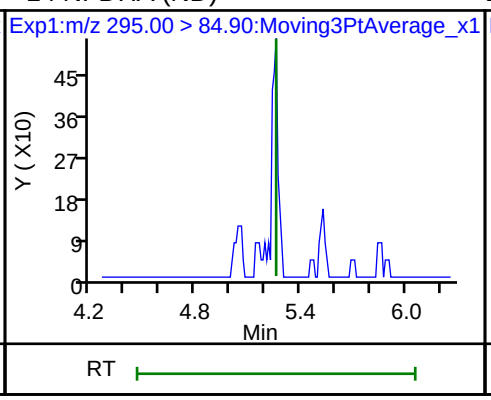
12 4:2FTS (ND)



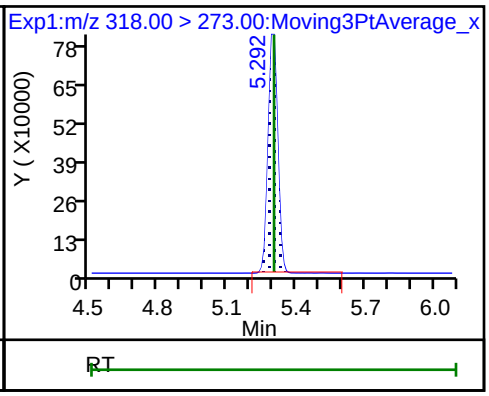
14 NFDHA (ND)



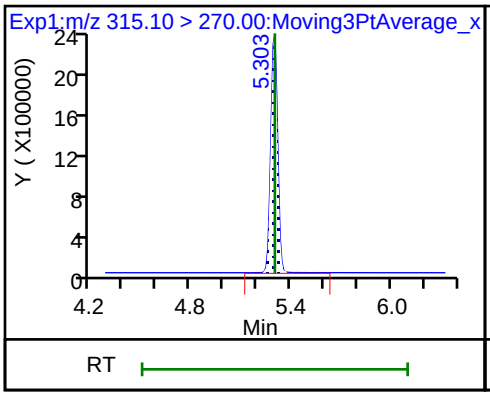
14 NFDHA (ND)



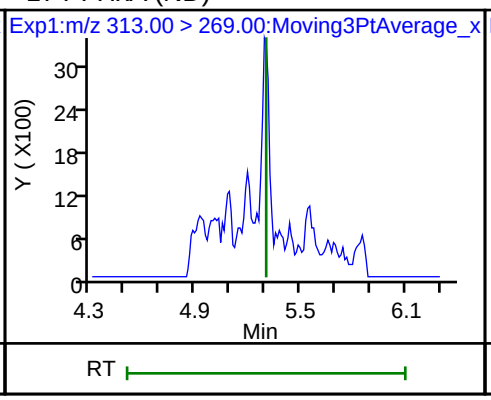
D 15 13C5 PFHxA



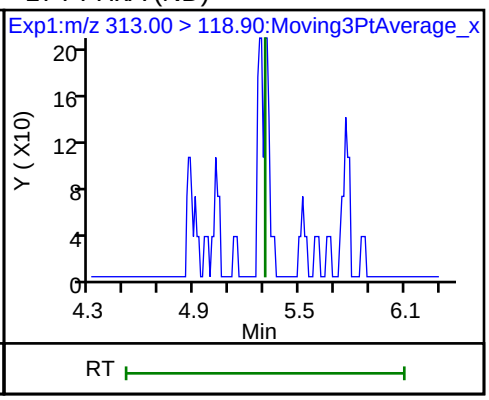
* 16 13C2 PFHxA



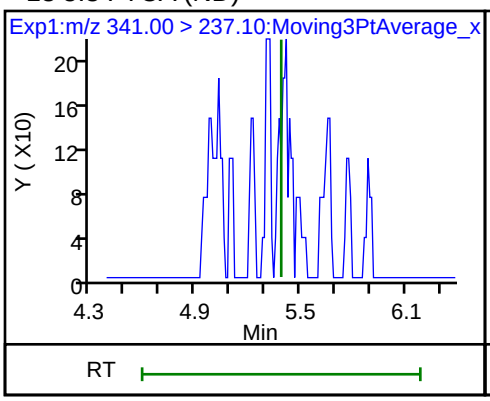
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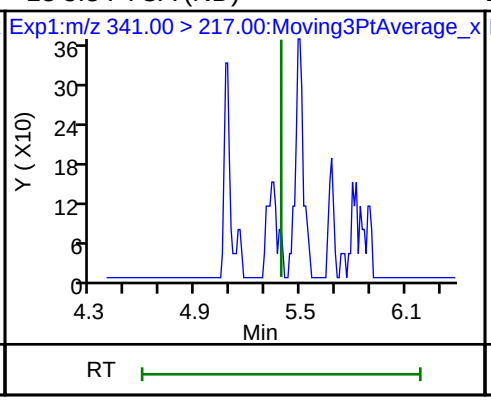
17 PFHxA (ND)



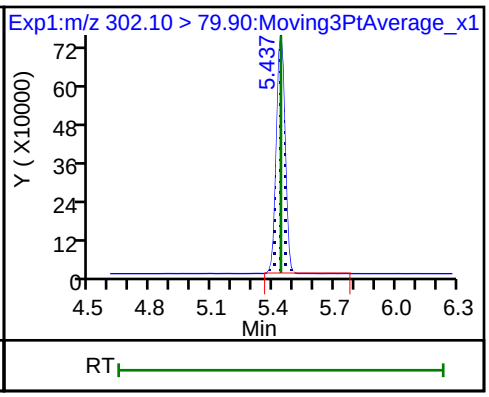
18 5:3 FTCA (ND)



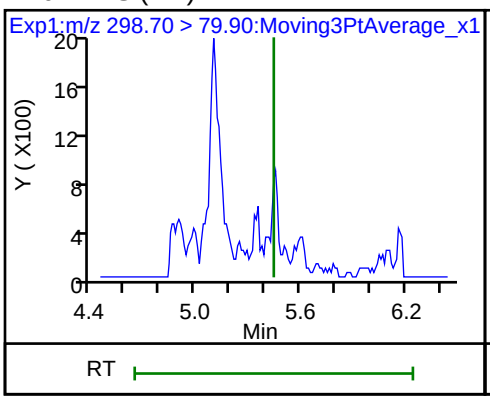
18 5:3 FTCA (ND)



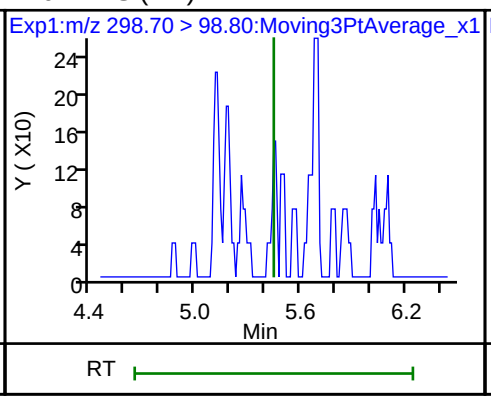
D 19 13C3 PFBS



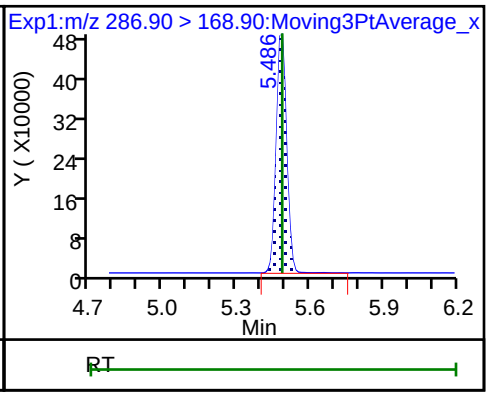
20 PFBS (ND)



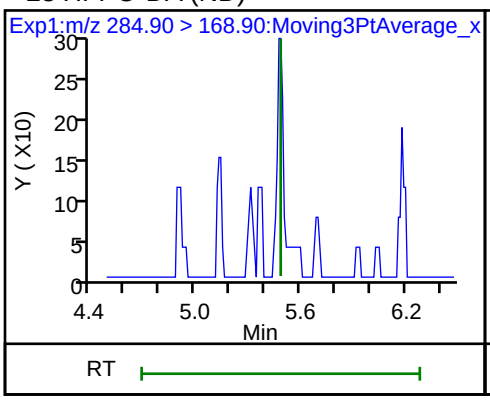
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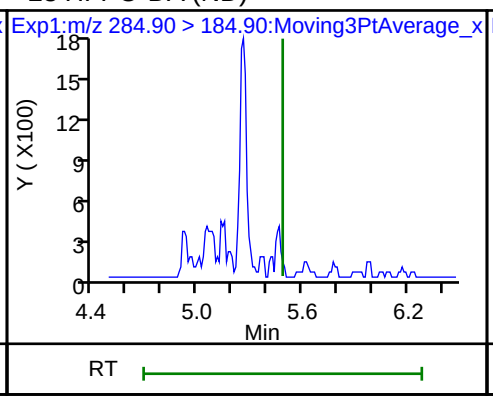
D 22 13C3 HFPO-DA



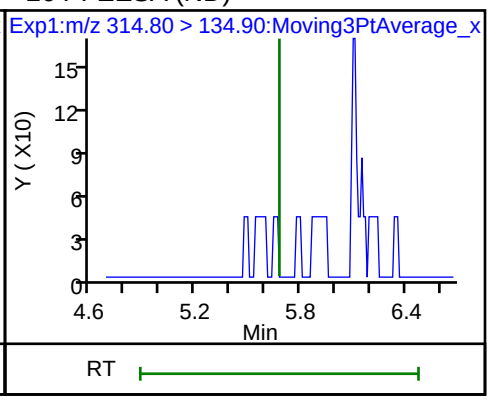
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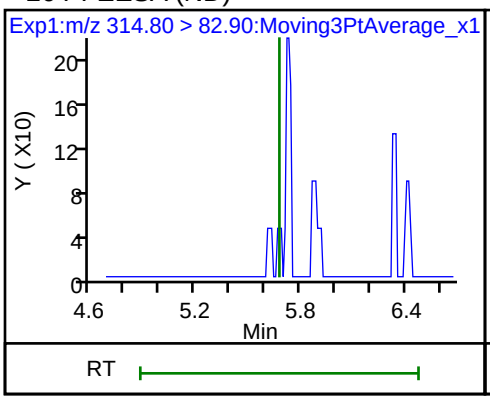
23 HFPO-DA (ND)



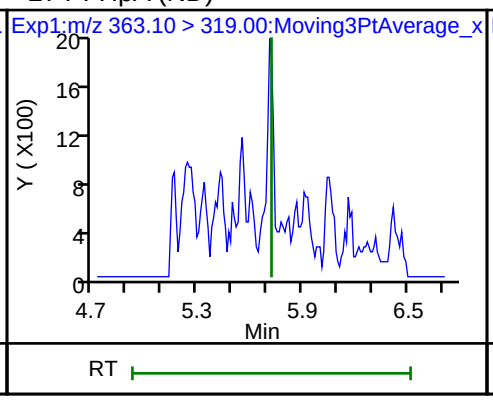
26 PFEESA (ND)



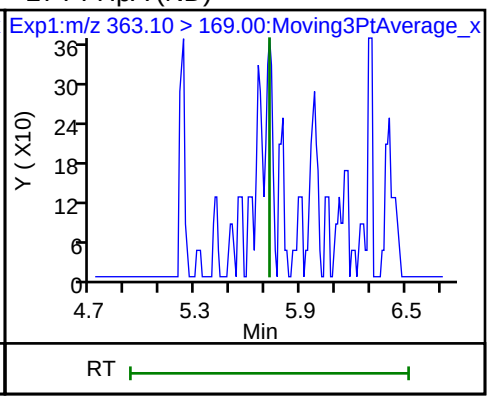
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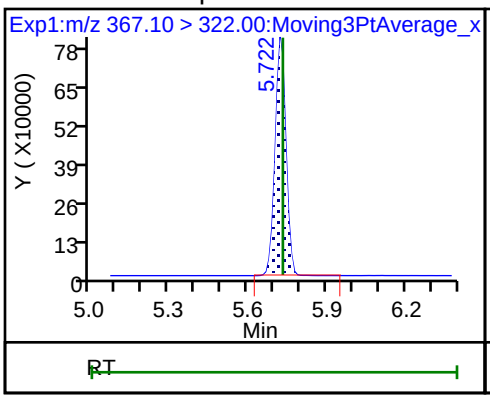
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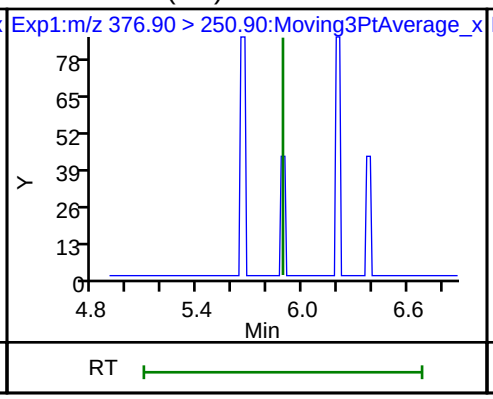
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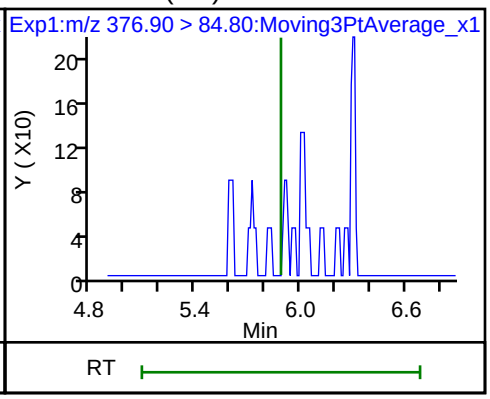
D 28 13C4 PFHpA



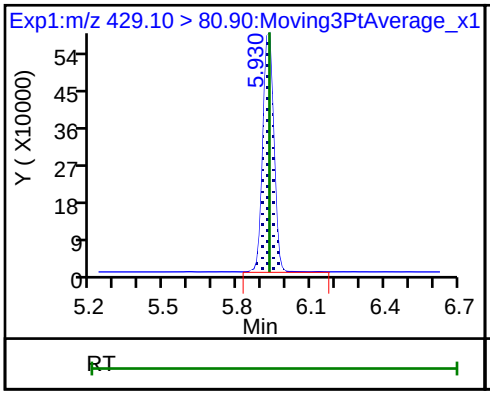
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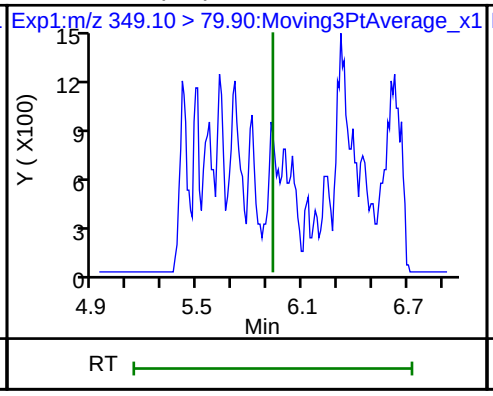
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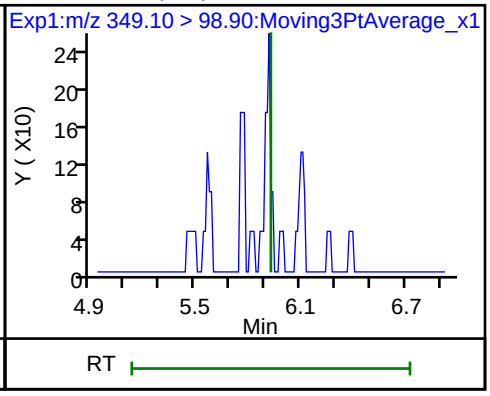
D 32 13C2-6:2FTS



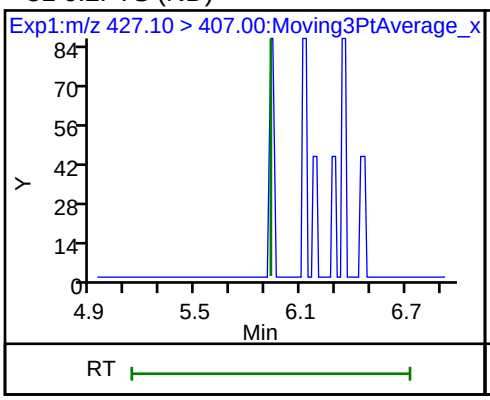
30 PFPeS (ND)



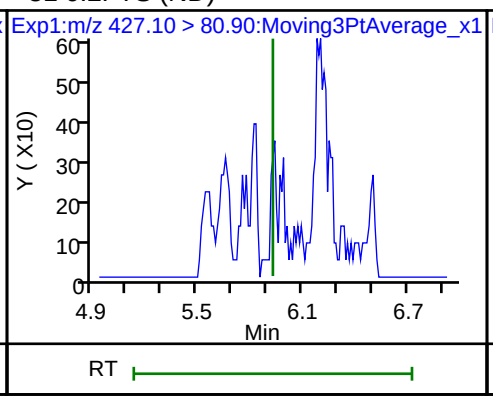
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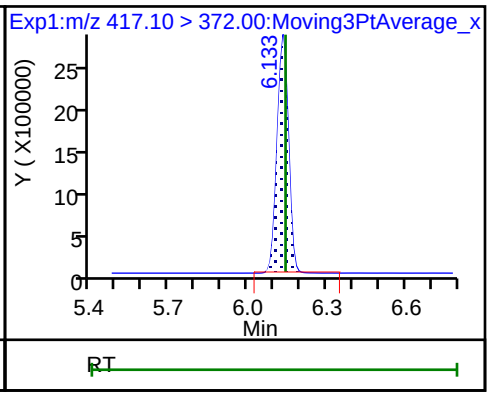
31 6:2FTS (ND)



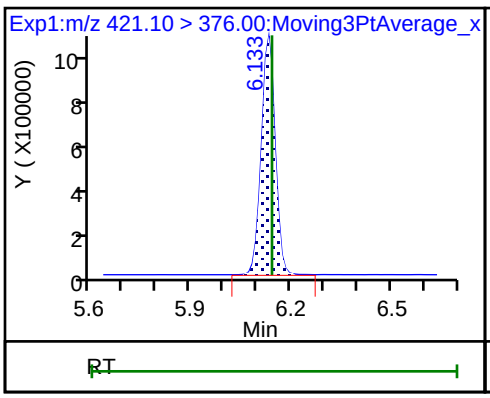
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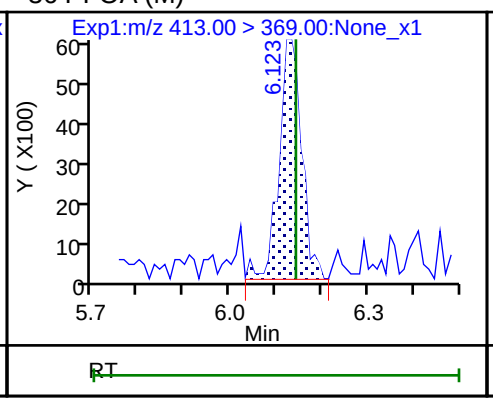
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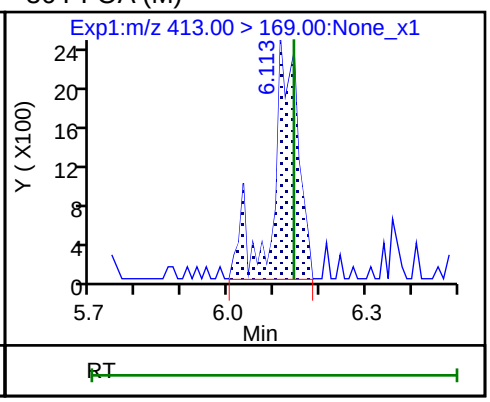
D 35 13C8 PFOA



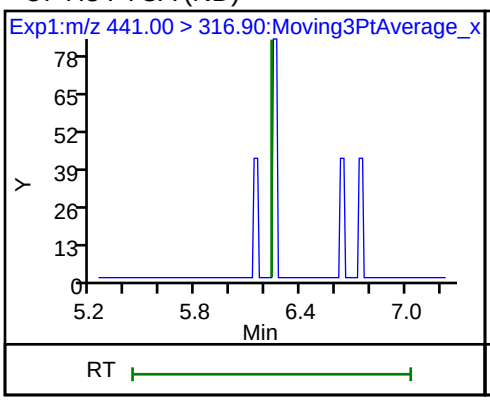
36 PFOA (M)



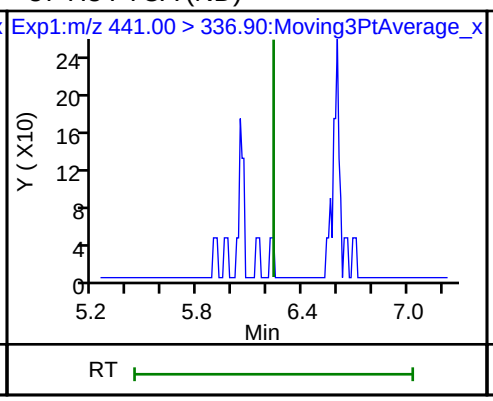
36 PFOA (M)



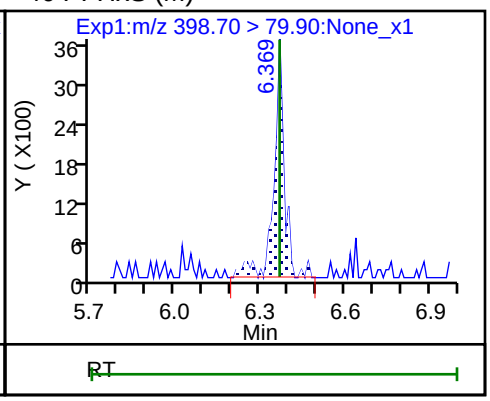
37 7:3 FTCA (ND)



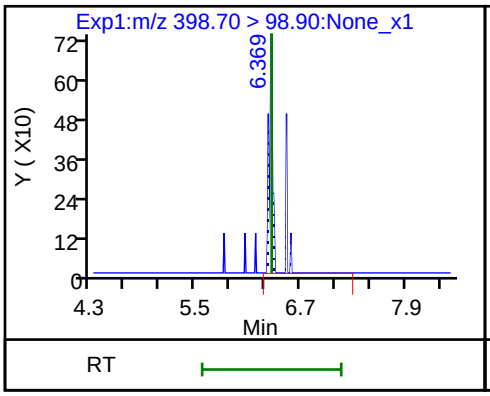
37 7:3 FTCA (ND)



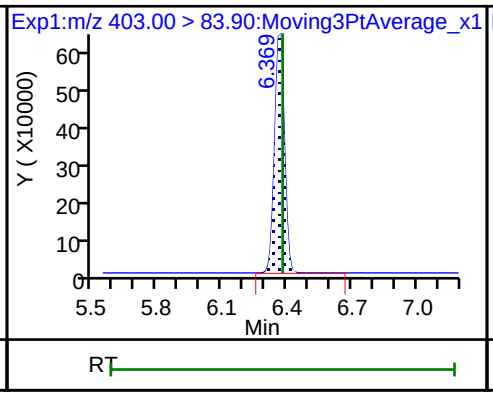
40 PFHxS (M)



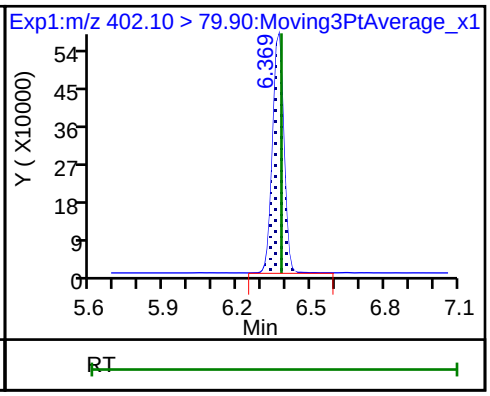
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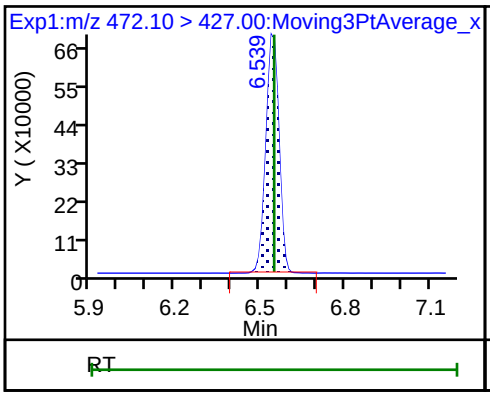
* 39 18O2 PFHxS



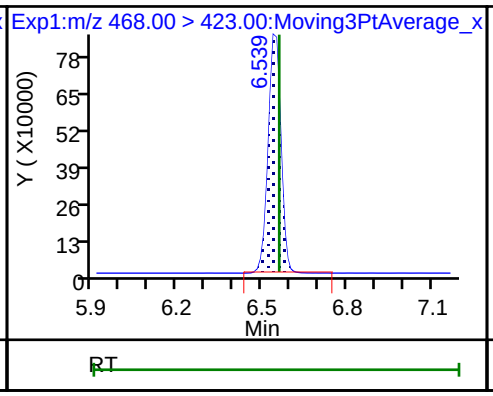
D 38 13C3 PFHxS



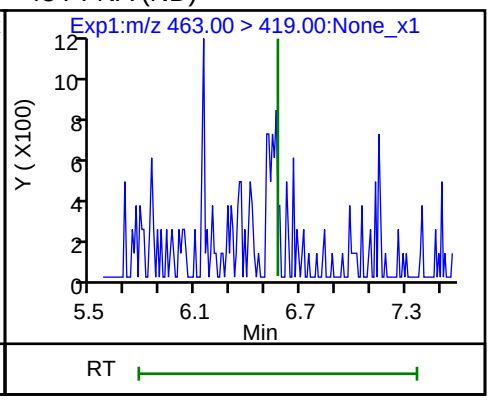
D 41 13C9 PFNA



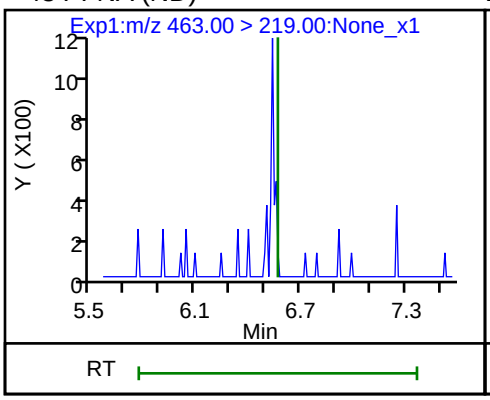
* 42 13C5 PFNA



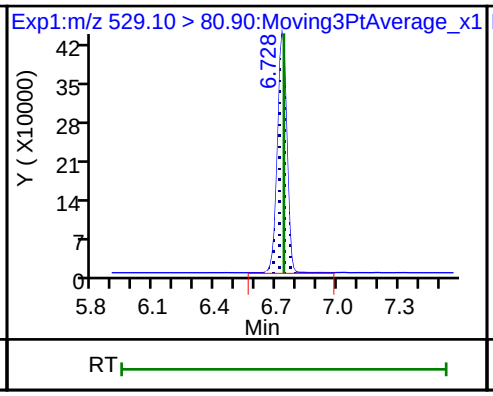
43 PFNA (ND)



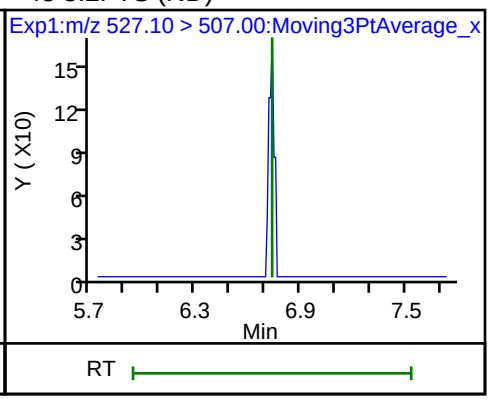
43 PFNA (ND)



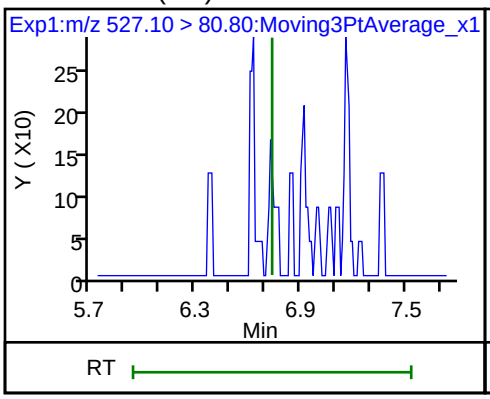
D 44 13C2-8:2FTS



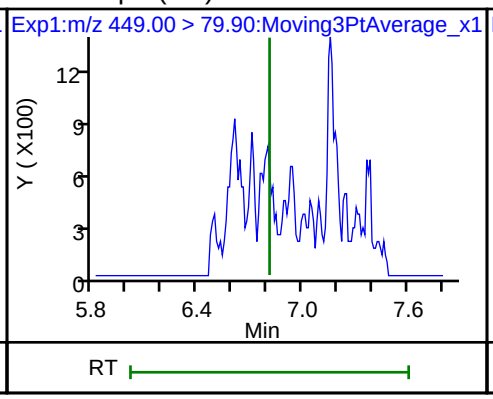
45 8:2FTS (ND)



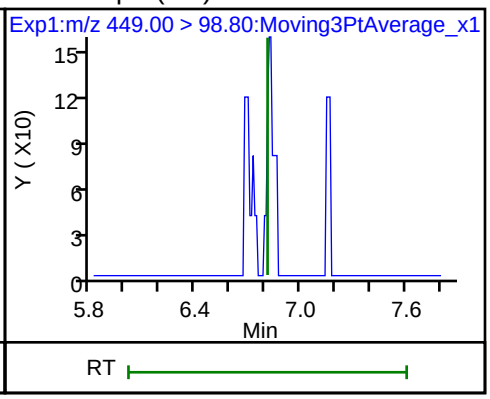
45 8:2FTS (ND)



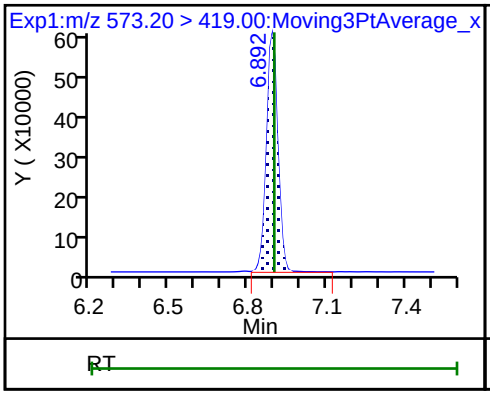
47 PFHpS (ND)



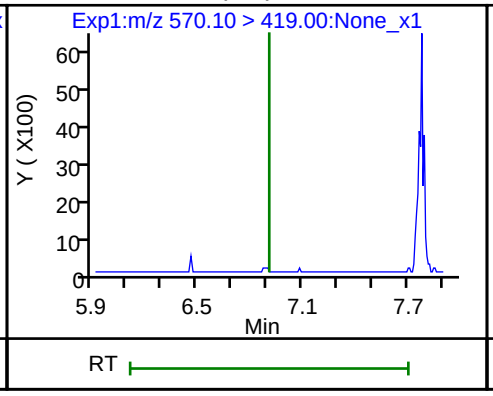
47 PFHpS (ND)



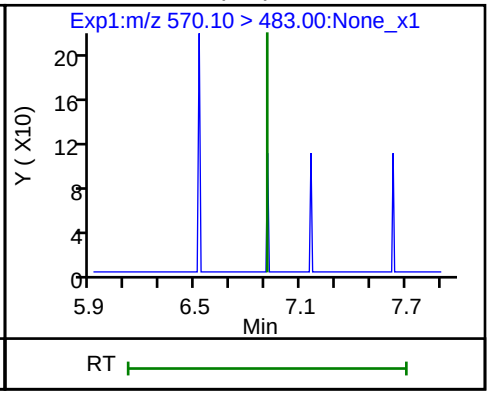
D 49 d3-NMeFOSAA



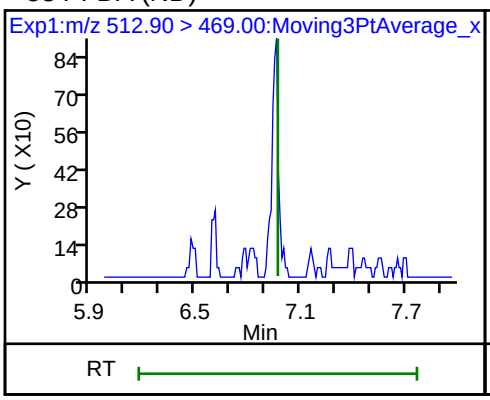
50 NMeFOSAA (ND)



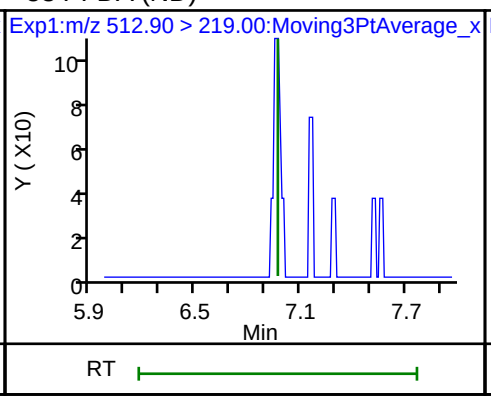
50 NMeFOSAA (ND)



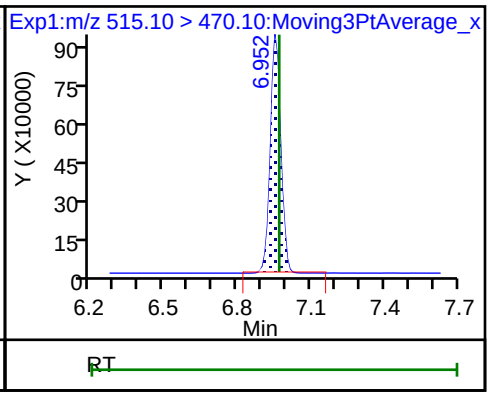
53 PFDA (ND)



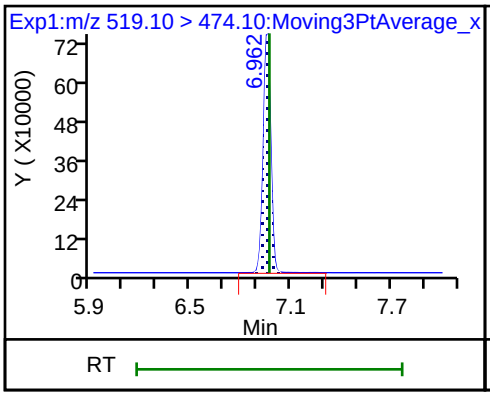
53 PFDA (ND)



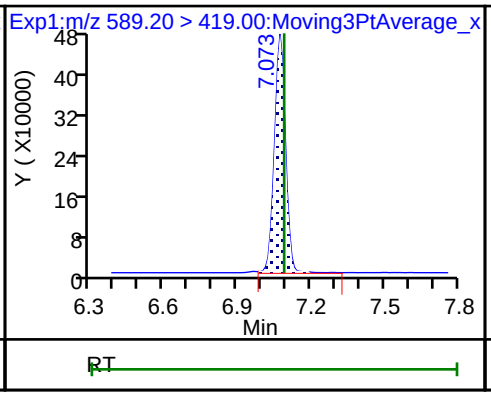
* 51 13C2 PFDA



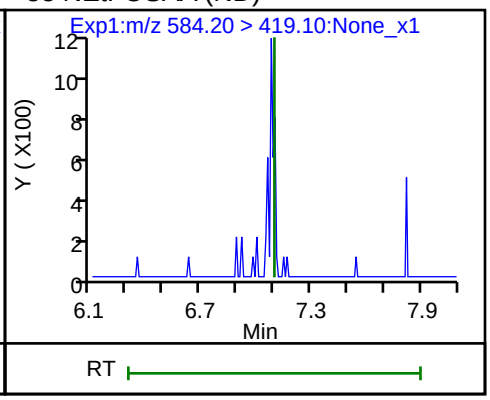
D 52 13C6 PFDA



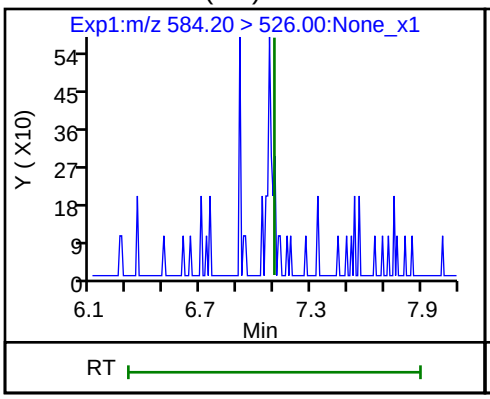
D 54 d5-NEtFOSAA



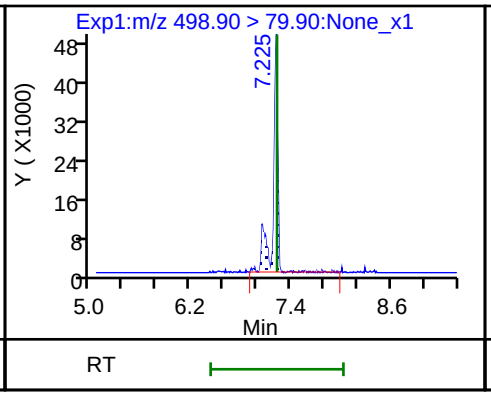
55 NEtFOSAA (ND)



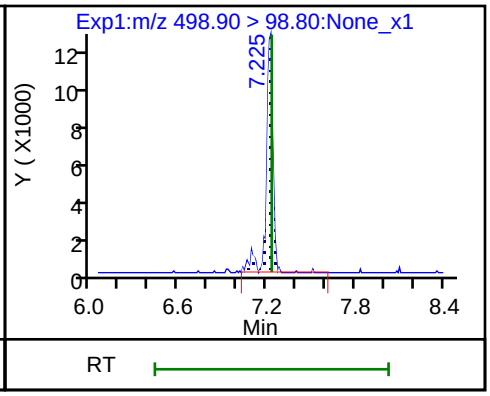
55 NEtFOSAA (ND)



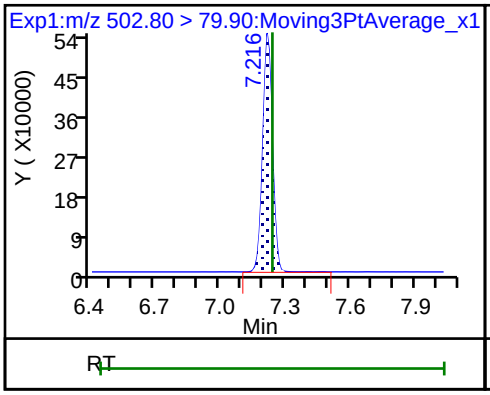
58 PFOS



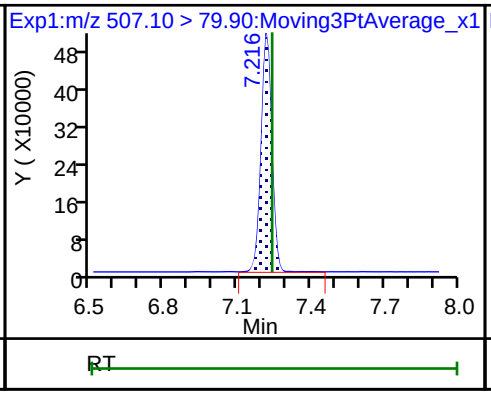
58 PFOS



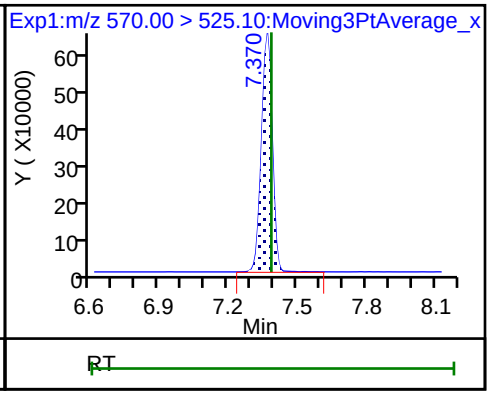
* 57 13C4 PFOS



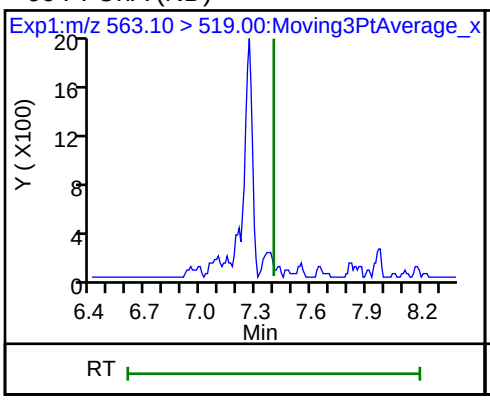
D 56 13C8 PFOS



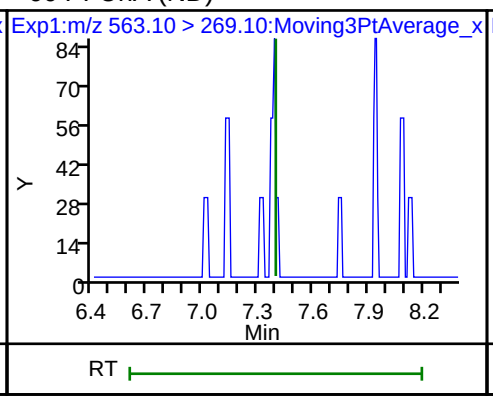
D 59 13C7 PFUnA



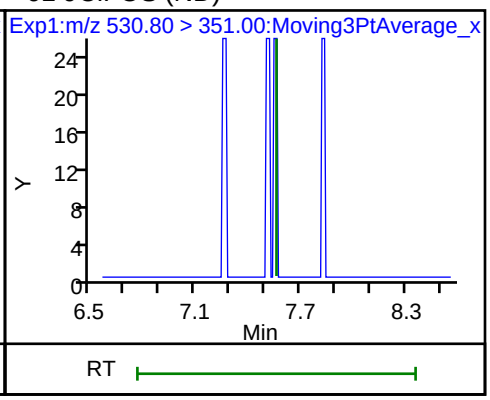
60 PFUnA (ND)



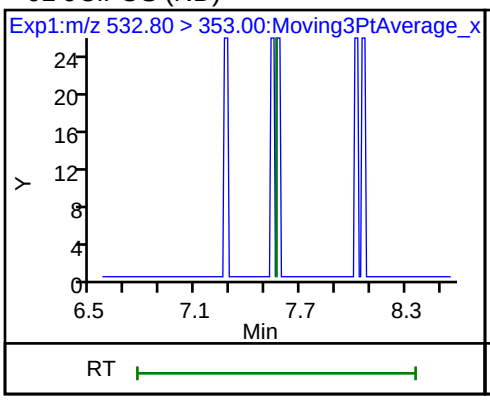
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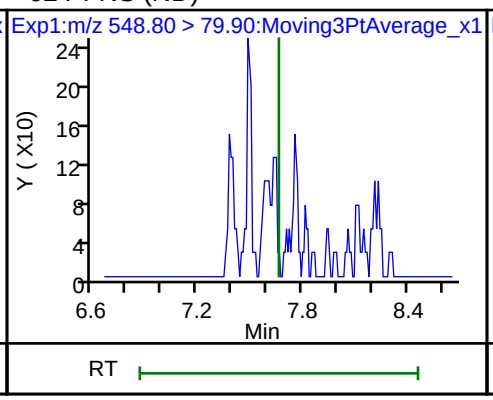
61 9ClFOS (ND)



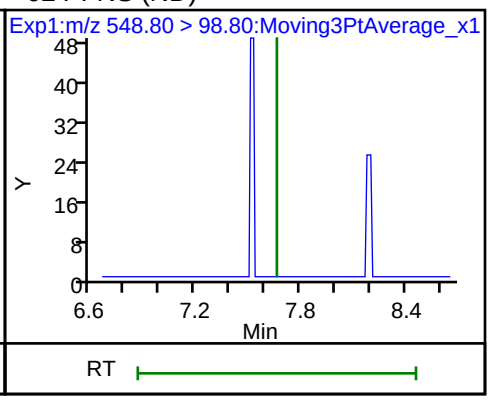
61 9ClFOS (ND)



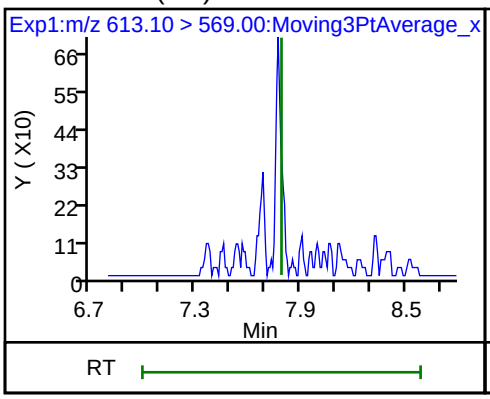
62 PFNS (ND)



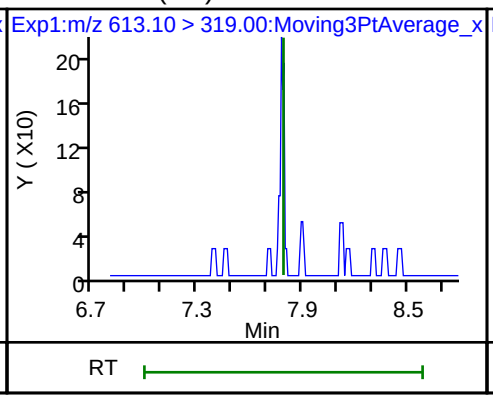
62 PFNS (ND)



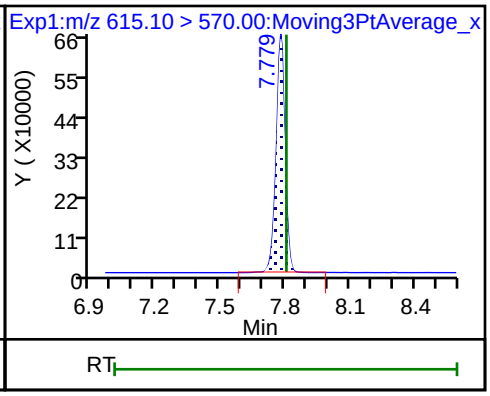
63 PFDoA (ND)



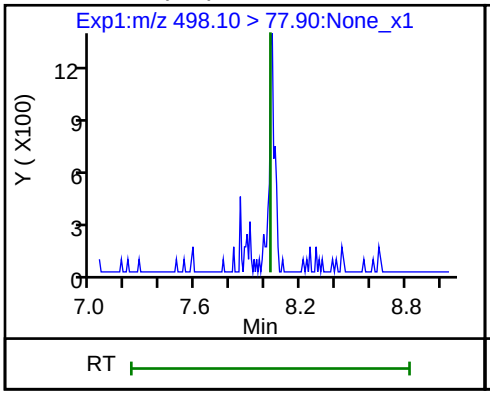
63 PFDoA (ND)



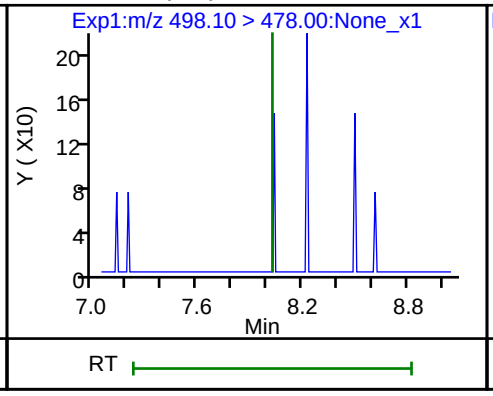
D 81 PFDoA



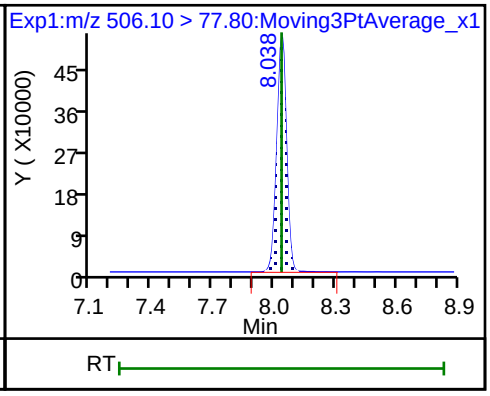
64 PFOSA (ND)



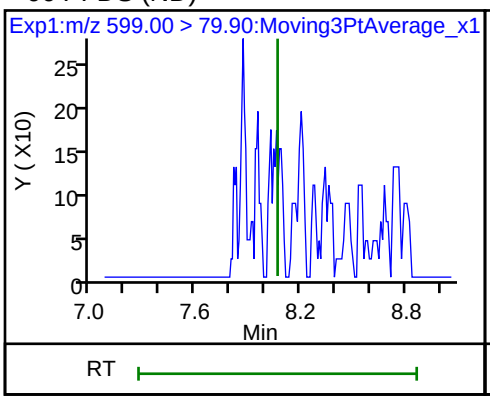
64 PFOSA (ND)



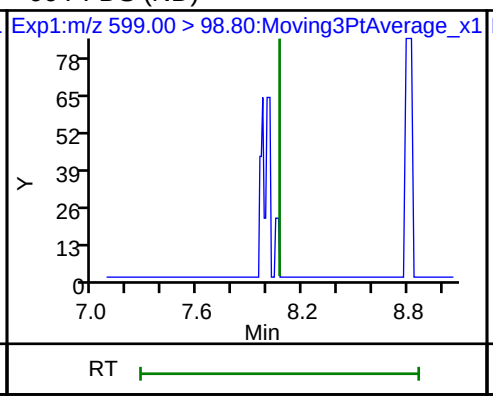
D 65 13C8 FOSA



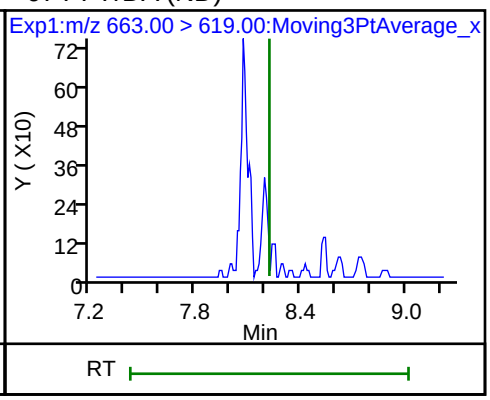
66 PFDS (ND)



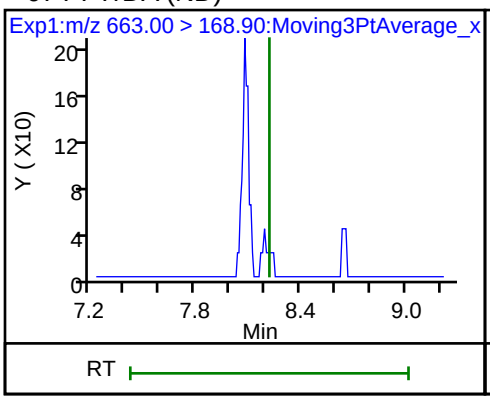
66 PFDS (ND)



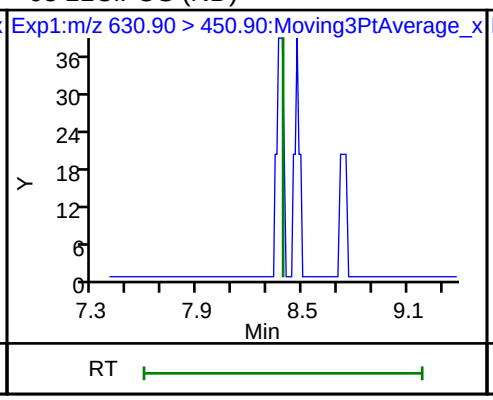
67 PFTrDA (ND)



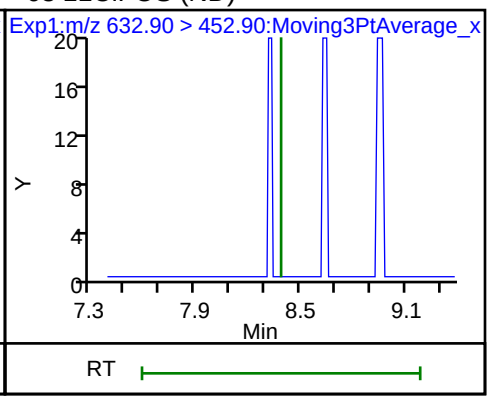
67 PFTrDA (ND)



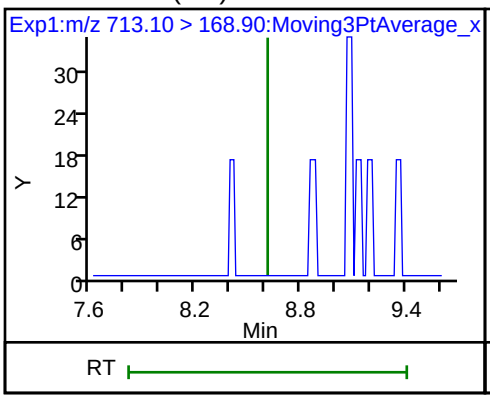
68 11ClFOS (ND)



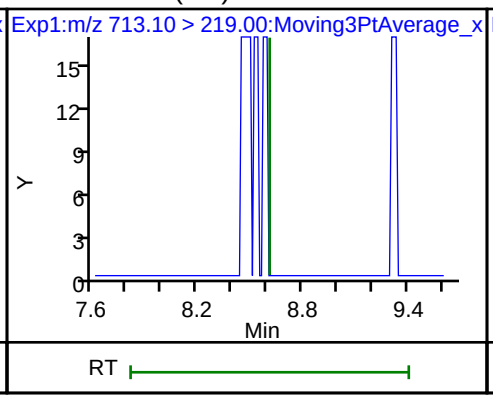
68 11ClFOS (ND)



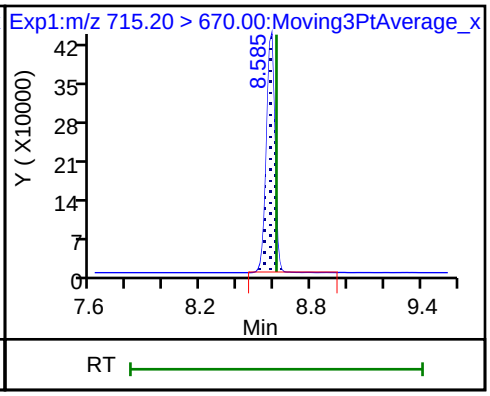
69 PFTeDA (ND)



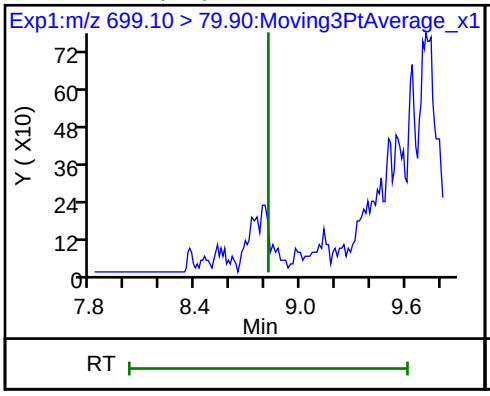
69 PFTeDA (ND)



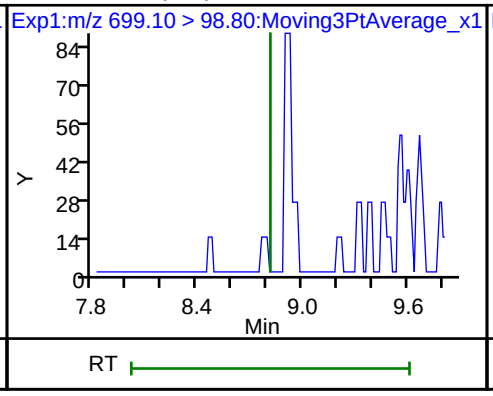
D 70 13C2 PFTeDA



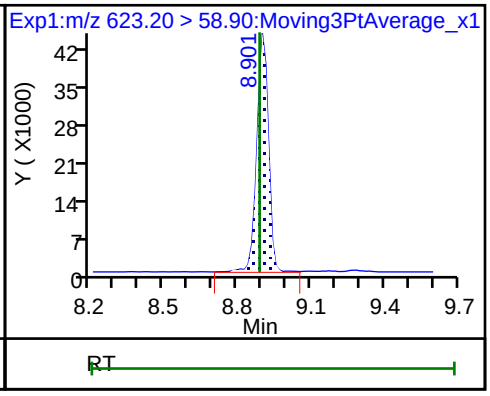
71 PFDoS (ND)



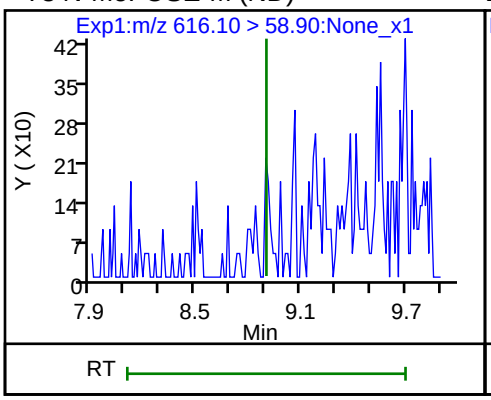
71 PFDoS (ND)



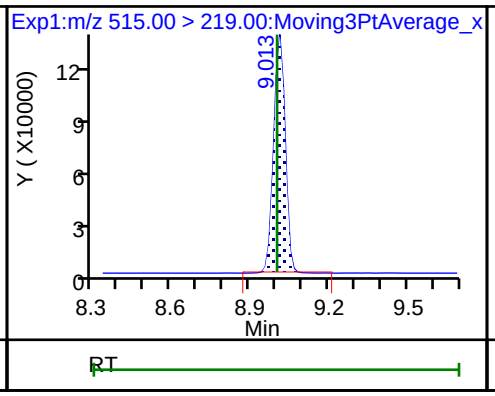
D 72 d7-N-Me-FOSE



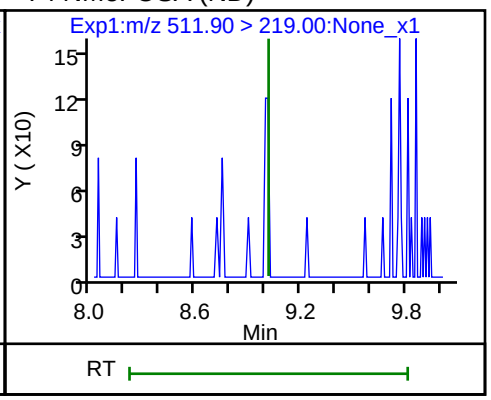
73 N-MeFOSE-M (ND)



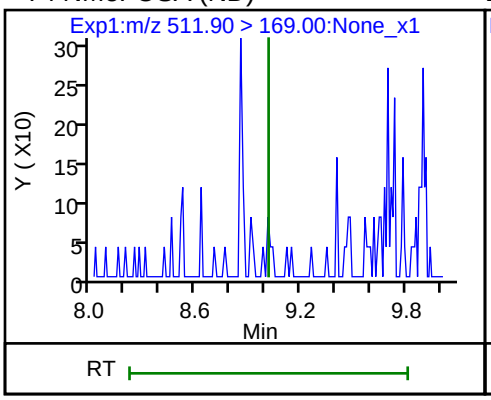
D 75 d3-NMePFOSA



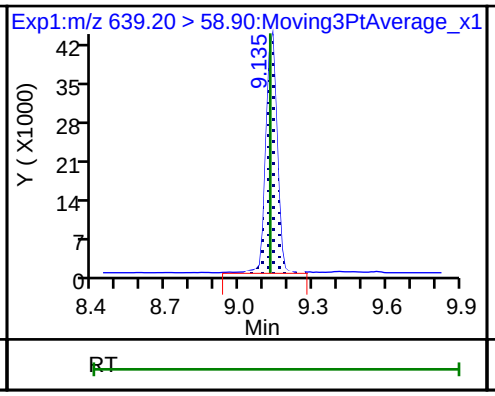
74 NMeFOSA (ND)



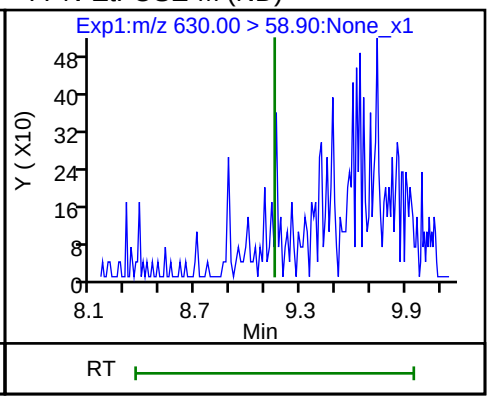
74 NMeFOSA (ND)



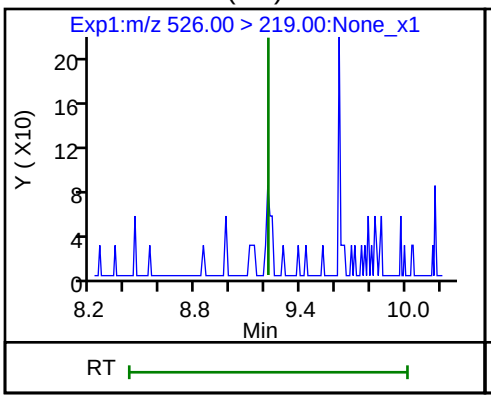
D 76 d9-N-EtFOSE



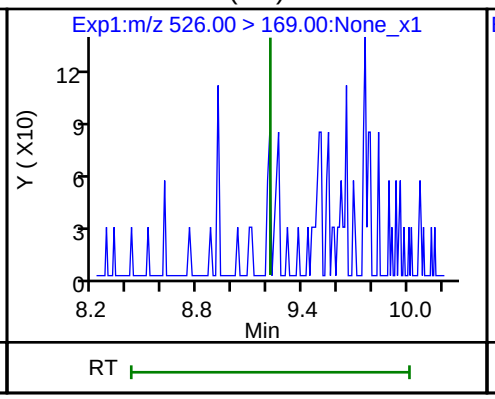
77 N-EtFOSE-M (ND)



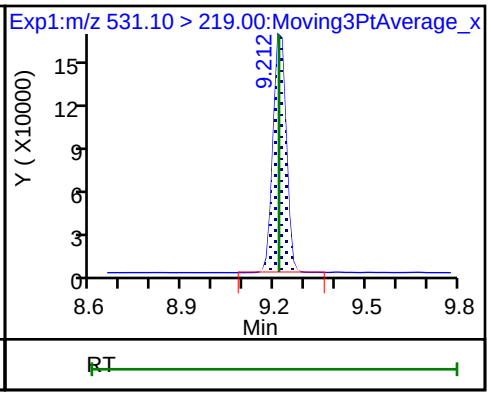
79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



D 78 d5-NEtPFOSA



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

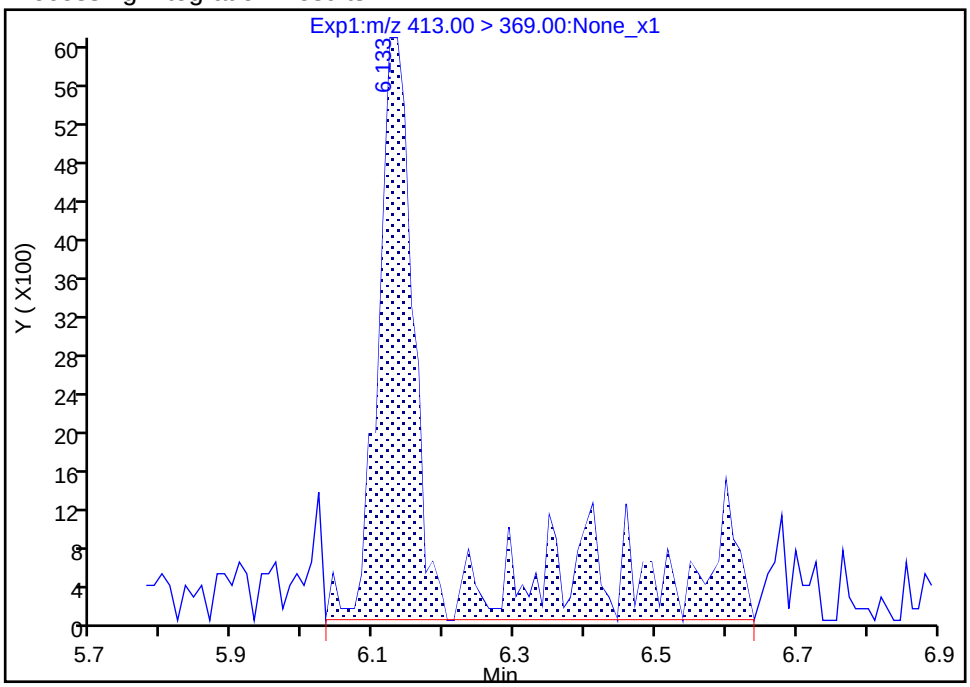
Data File:	\\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-33.d				
Injection Date:	05-Feb-2026 21:12:50	Instrument ID:	30577		
Lims ID:	460-344047-A-3-B	Lab Sample ID:	410-344047-3		
Client ID:	RXSB-16 (0-2)_P				
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	18	Worklist Smp#:	137
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 1

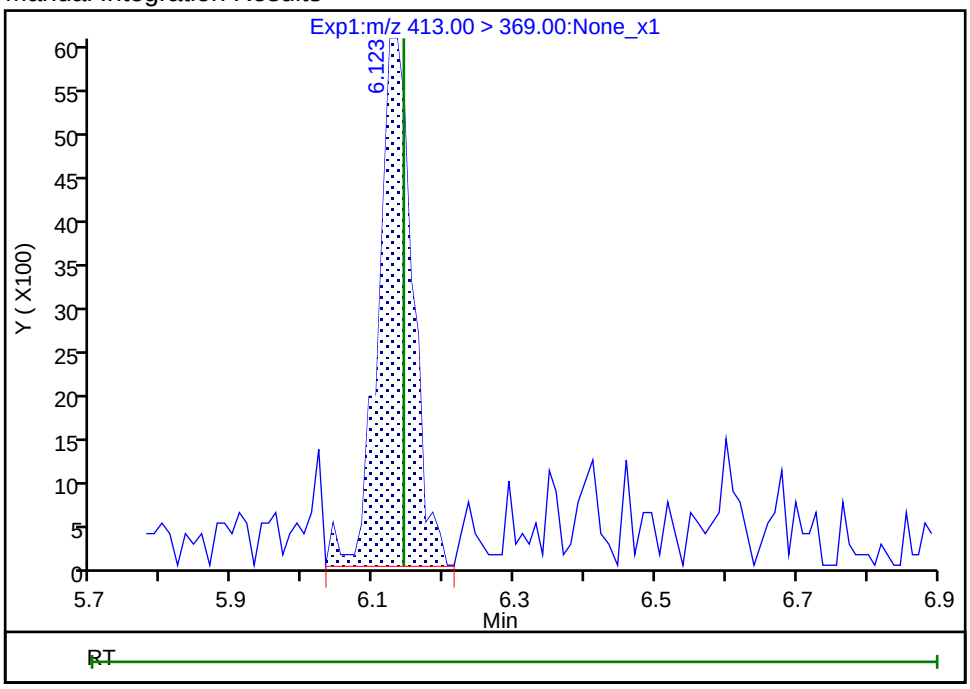
Processing Integration Results

RT: 6.13
Area: 33206
Amount: 0.035258
Amount Units: ng/ml



Manual Integration Results

RT: 6.12
Area: 20677
Amount: 0.021955
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:50:54 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

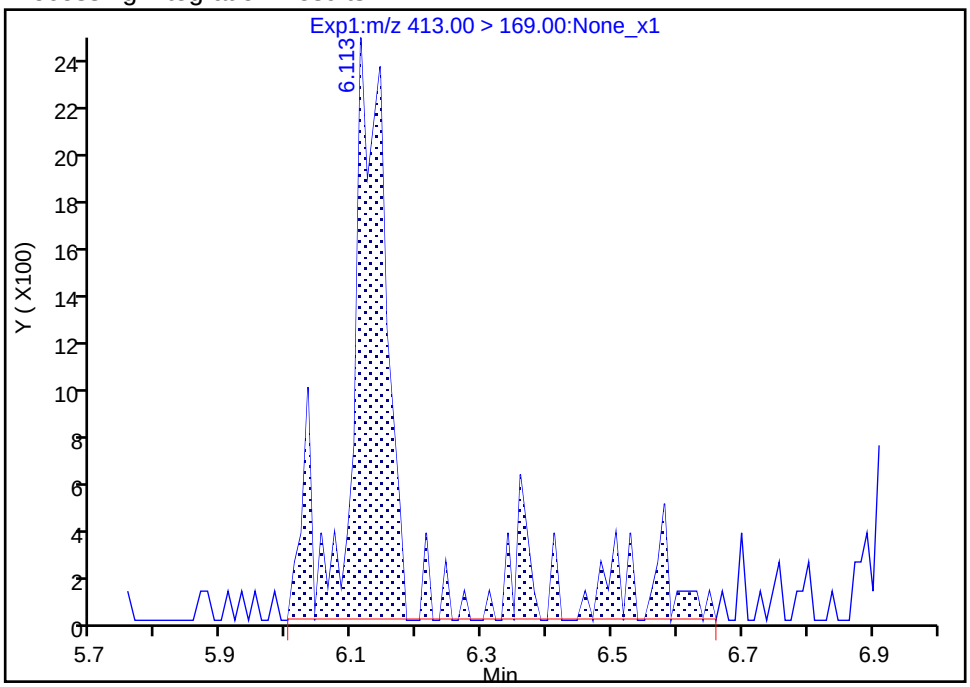
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Injection Date:	05-Feb-2026 21:12:50	Instrument ID:	30577		
Lims ID:	460-344047-A-3-B	Lab Sample ID:	410-344047-3		
Client ID:	RXSB-16 (0-2)_P				
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	18	Worklist Smp#:	137
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 2

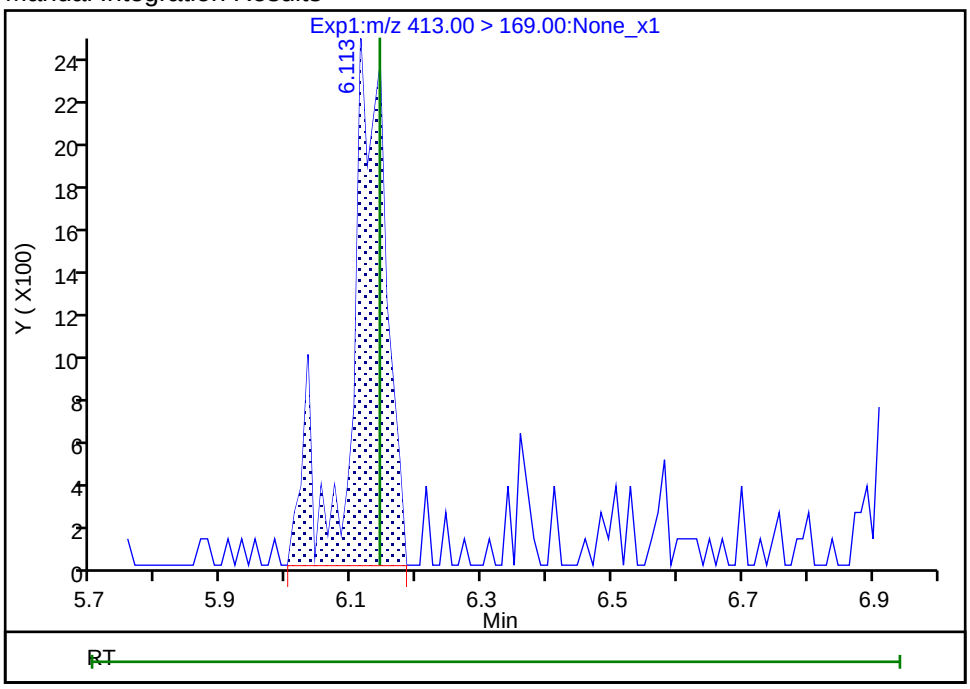
Processing Integration Results

RT: 6.11
Area: 12299
Amount: 0.035258
Amount Units: ng/ml



Manual Integration Results

RT: 6.11
Area: 8971
Amount: 0.021955
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:50:57 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

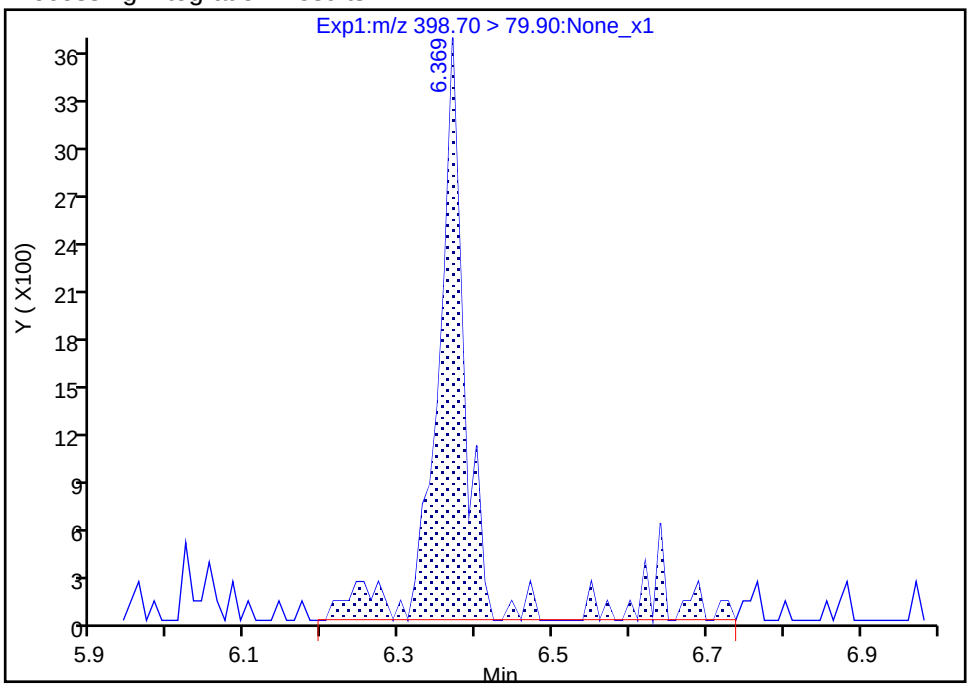
Data File:	\\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-33.d				
Injection Date:	05-Feb-2026 21:12:50	Instrument ID:	30577		
Lims ID:	460-344047-A-3-B	Lab Sample ID:	410-344047-3		
Client ID:	RXSB-16 (0-2)_P				
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	18	Worklist Smp#:	137
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

40 PFHxS, CAS: 355-46-4

Signal: 1

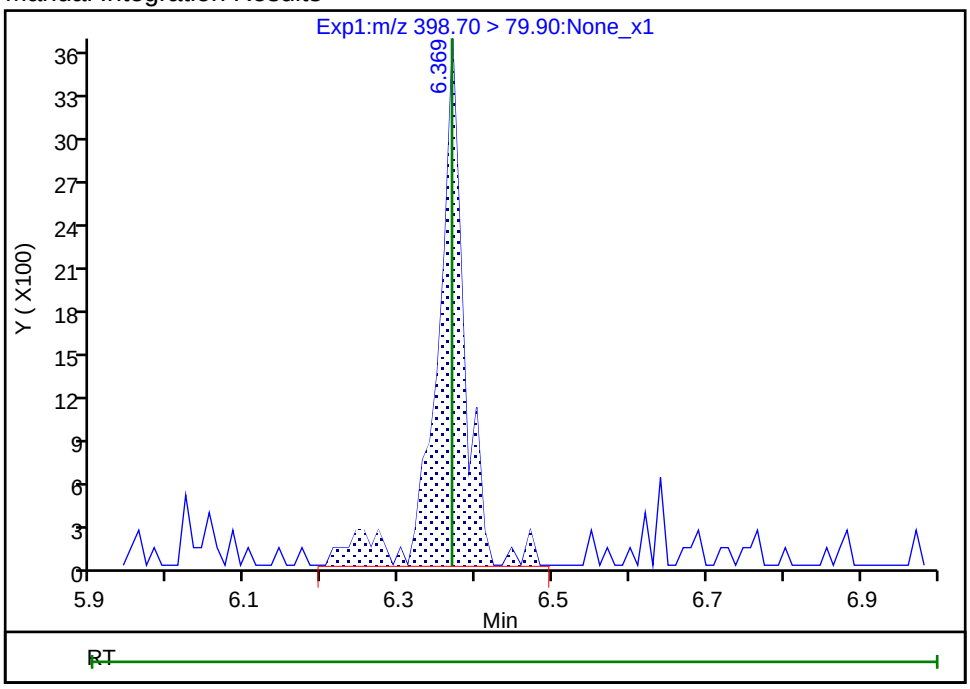
Processing Integration Results

RT: 6.37
Area: 10514
Amount: 0.014034
Amount Units: ng/ml



Manual Integration Results

RT: 6.37
Area: 9195
Amount: 0.012274
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:51:09 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-16 (6-8)_P
Lab Sample ID: 460-344047-4

Matrix: Solid
Lab File ID: 26FEB05JO-34.d

Analysis Method: 1633A
Date Collected: 01/29/2026 12:20

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.27(g)
Date Analyzed: 02/05/2026 21:26

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 8.6 % Solids: 91.4
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.39	U	0.39	0.096
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.19	U	0.19	0.096
307-24-4	Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.096
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.096
335-67-1	Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.058
375-95-1	Perfluorononanoic acid (PFNA)	0.19	U	0.19	0.096
335-76-2	Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.058
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.19	U	0.19	0.096
307-55-1	Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.096
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.19	U	0.19	0.096
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.096
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.096
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.096
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.096
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.096
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.15	J	0.19	0.096
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.096
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.096
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.096
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.39	U	0.39	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.39	U	0.39	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.39	U	0.39	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.096
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.096
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.096

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-16 (6-8)_P
Lab Sample ID: 460-344047-4

Matrix: Solid
Lab File ID: 26FEB05JO-34.d

Analysis Method: 1633A
Date Collected: 01/29/2026 12:20

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.27(g)
Date Analyzed: 02/05/2026 21:26

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 8.6 % Solids: 91.4
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.096
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.096
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.96	U	0.96	0.48
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.96	U	0.96	0.48
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.19	U	0.19	0.096
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.19	U	0.19	0.096
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.19	U	0.19	0.096
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.19	U	0.19	0.096
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.19	U	0.19	0.096
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.19	U	0.19	0.096
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.19	U	0.19	0.096
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.19	U	0.19	0.096
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.39	U	0.39	0.19
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.96	U	0.96	0.48
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.96	U	0.96	0.48

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-16 (6-8)_P
Lab Sample ID: 460-344047-4

Matrix: Solid
Lab File ID: 26FEB05JO-34.d

Analysis Method: 1633A
Date Collected: 01/29/2026 12:20

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.27(g)
Date Analyzed: 02/05/2026 21:26

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 8.6 % Solids: 91.4
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	71.6		8-130
2283397-79-3	13C5 PFPeA	66.5		35-130
2328024-54-8	13C5 PFHxA	62.9		40-130
2328024-55-9	13C4 PFHpA	66.4		40-130
1350614-84-4	13C8 PFOA	54.8		40-130
2283397-80-6	13C9 PFNA	49.5		40-130
2328024-56-0	13C6 PFDA	51.5		40-130
STL02580	13C7 PFUnA	56.2		40-130
STL02116	13C2 PFTeDA	53.0		20-130
2708218-83-9	13C3 PFBS	67.8		40-135
2708218-85-1	13C3 PFHxS	58.4		40-130
2265893-05-6	13C8 PFOS	55.3		40-130
STL01056	13C8 FOSA	43.3		40-130
1400690-70-1	d3-NMeFOSAA	42.0		40-135
1265205-97-7	d5-NEtFOSAA	42.2		40-150
STL02395	13C2 4:2 FTS	101		40-165
STL02279	13C2 6:2 FTS	58.7		40-215
STL02280	13C2 8:2 FTS	45.6		40-275
STL02255	13C3 HFPO-DA	62.1		40-130
STL02277	d7-N-MeFOSE-M	22.8		20-130
STL02278	d9-N-EtFOSE-M	21.4		15-130
STL02704	d5-NEtPFOSA	38.6		10-130
STL02705	d3-NMePFOSA	37.1		10-130
960315-52-0	13C2 PFDoA	59.6		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-34.d
Lims ID: 460-344047-A-4-B
Client ID: RXSB-16 (6-8)_P
Sample Type: Client
Inject. Date: 05-Feb-2026 21:26:26 ALS Bottle#: 19 Worklist Smp#: 138
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 460-344047-A-4-B
Misc. Info.: Plate: 1 Rack: 1 410-0174796-138
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:51:52
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 4 13C4-PFBA										
216.80 > 171.90	4.180	4.187	-0.007	0.998	1526380	1.43		71.6	4428	
* 5 13C3PFBA										
216.00 > 172.00	4.187	4.187	0.0		2076409	2.00			4700	
D 8 13C5 PFPeA										
268.30 > 223.00	4.843	4.844	-0.001	0.914	1401571	1.33		66.5	3936	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.110	5.121	-0.011	0.804	1128930	4.75		101	5903	
D 15 13C5 PFHxA										
318.00 > 273.00	5.302	5.303	-0.001	1.000	1612822	1.26		62.9	4605	
* 16 13C2 PFHxA										
315.10 > 270.00	5.302	5.303	-0.001		6045076	5.00			6681	
D 19 13C3 PFBS										
302.10 > 79.90	5.436	5.437	-0.001	0.855	1610393	1.26		67.8	7984	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.485	5.486	-0.001	1.035	1083022	1.24		62.1	3826	
D 28 13C4 PFHpA										
367.10 > 322.00	5.720	5.732	-0.012	1.079	1660019	1.33		66.4	5557	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.928	5.930	-0.002	0.933	560570	2.79		58.7	3590	
* 34 13C4 PFOA										
417.10 > 372.00	6.132	6.143	-0.011		8095189	5.00			7482	
D 35 13C8 PFOA										
421.10 > 376.00	6.132	6.143	-0.011	1.000	1807575	1.10		54.8	5178	
36 PFOA										M
413.00 > 369.00	6.132	6.143	-0.011	1.000	13345	0.0238	Target=1.91		16.0	M
413.00 > 169.00	6.122	6.143	-0.021	0.998	6905		1.93(0.96-2.87)		15.8	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
40 PFHxS										
398.70 > 79.90	6.378	6.369	0.009	1.002	6668	0.0137	Target=3.07		13.2	
398.70 > 98.90	6.357	6.369	-0.012	0.998	2429		2.75(1.53-4.60)		4.5	
* 39 18O2 PFHxS										
403.00 > 83.90	6.357	6.379	-0.022		1897777	1.90			4455	
D 38 13C3 PFHxS										
402.10 > 79.90	6.368	6.379	-0.011	1.002	1194124	1.11		58.4	6263	
D 41 13C9 PFNA										
472.10 > 427.00	6.536	6.549	-0.013	1.000	1242472	0.9891		49.5	3985	
* 42 13C5 PFNA										
468.00 > 423.00	6.536	6.560	-0.024		2427601	2.00			4047	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.727	6.737	-0.010	1.058	453974	2.19		45.6	1738	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.890	6.899	-0.009	0.955	987228	2.10		42.0	1297	
* 51 13C2 PFDA										
515.10 > 470.10	6.949	6.970	-0.021		2679936	2.00			4441	
D 52 13C6 PFDA										
519.10 > 474.10	6.949	6.970	-0.021	1.000	1360762	1.03		51.5	5386	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.070	7.090	-0.020	0.980	855271	2.11		42.2	4110	
58 PFOS										
498.90 > 79.90	7.223	7.232	-0.009	1.001	46073	0.0607	Target=4.60		84.0	
498.90 > 98.80	7.223	7.232	-0.009	1.001	8769		5.25(2.30-6.91)		28.0	
* 57 13C4 PFOS										
502.80 > 79.90	7.213	7.241	-0.028		1744793	1.92			11660	
D 56 13C8 PFOS										
507.10 > 79.90	7.213	7.241	-0.028	1.000	1073877	1.06		55.3	6192	
D 59 13C7 PFUnA										
570.00 > 525.10	7.356	7.387	-0.031	1.059	1479254	1.12		56.2	4137	
D 81 PFDoA										
615.10 > 570.00	7.770	7.806	-0.036	1.118	1507516	1.19		59.6	3086	
D 65 13C8 FOSA										
506.10 > 77.80	8.027	8.035	-0.008	1.113	904504	0.8652		43.3	4363	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.569	8.611	-0.042	1.233	1206442	1.06		53.0	2125	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.890	8.889	0.001	1.232	95863	1.14		22.8	241	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.003	9.002	0.001	1.248	246089	0.7424		37.1	1464	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.125	9.125	0.0	1.265	96832	1.07		21.4	249	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.216	9.215	0.001	1.278	328994	0.7722		38.6	2698	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00591 Amount Added: 50.00 Units: uL

Report Date: 05-Feb-2026 22:56:39 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-34.d

Injection Date: 05-Feb-2026 21:26:26 Instrument ID: 30577

Lims ID: 460-344047-A-4-B Lab Sample ID: 410-344047-4

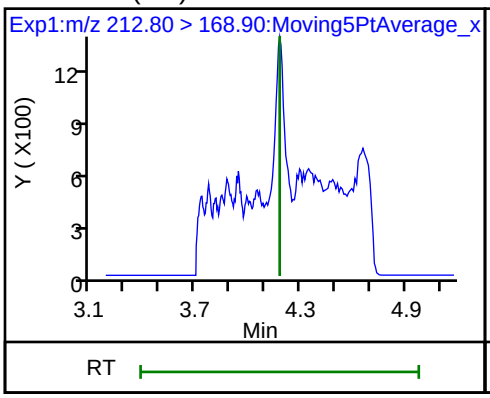
Client ID: RXSB-16 (6-8)_P

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 19 Worklist Smp#: 138

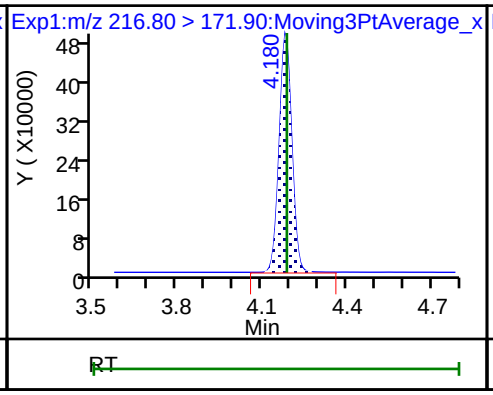
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

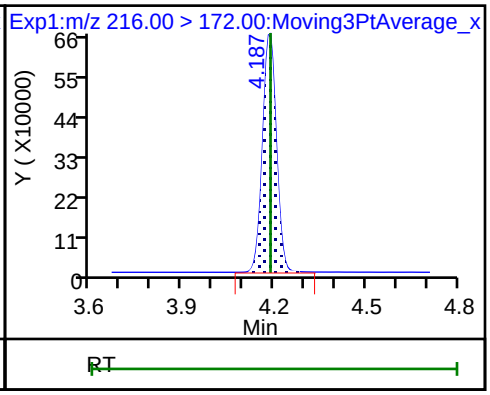
3 PFBA (ND)



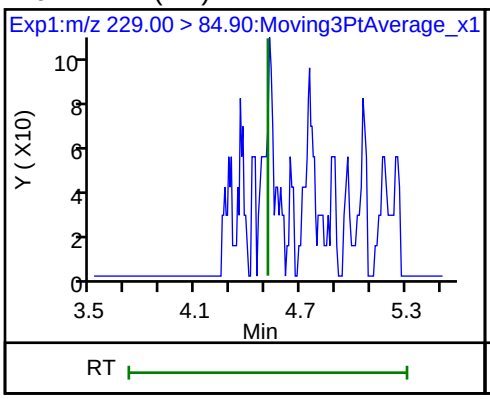
D 4 13C4-PFBA



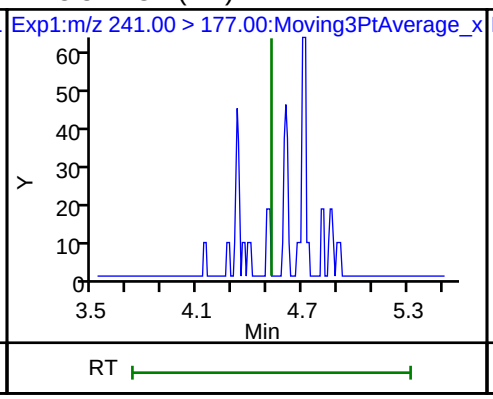
* 5 13C3PFBA



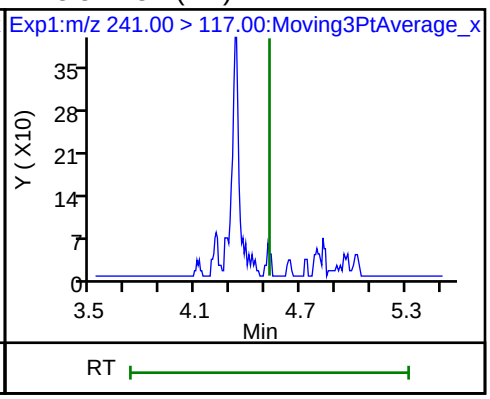
6 PFMPA (ND)



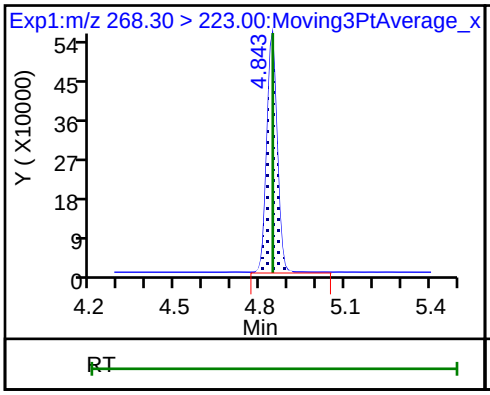
7 3:3 FTCA (ND)



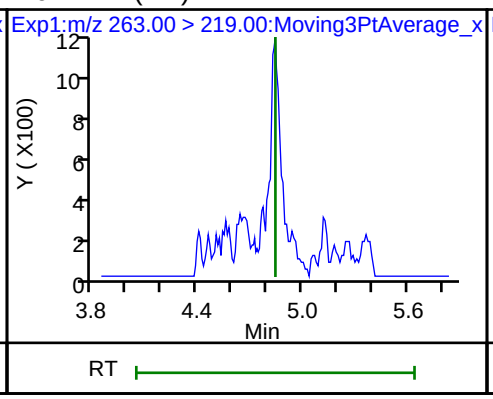
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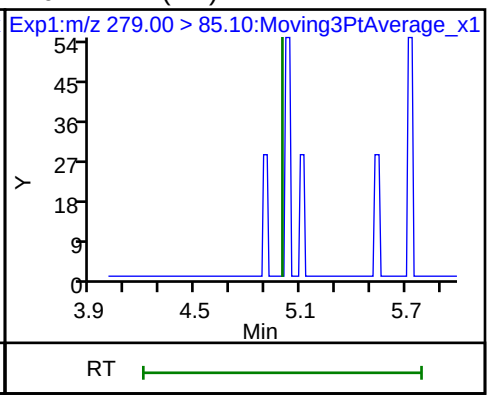
D 8 13C5 PFPeA



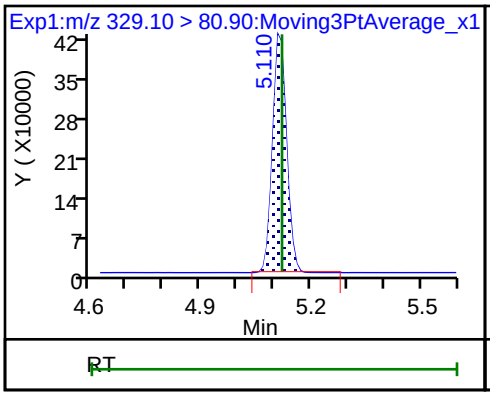
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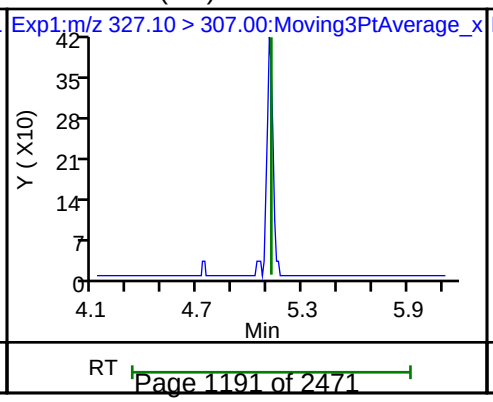
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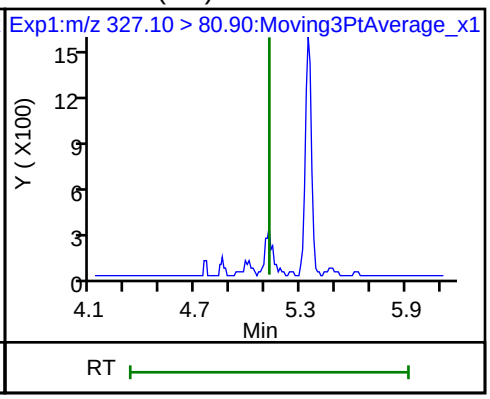
D 11 13C2-4:2FTS



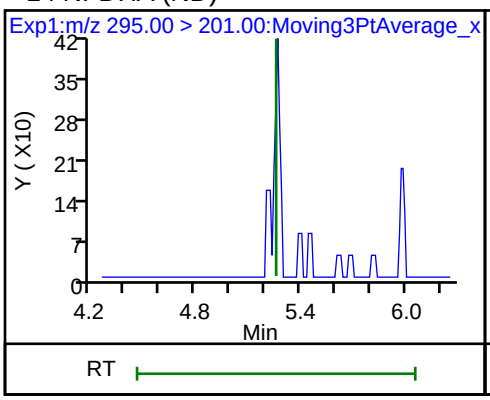
12 4:2FTS (ND)



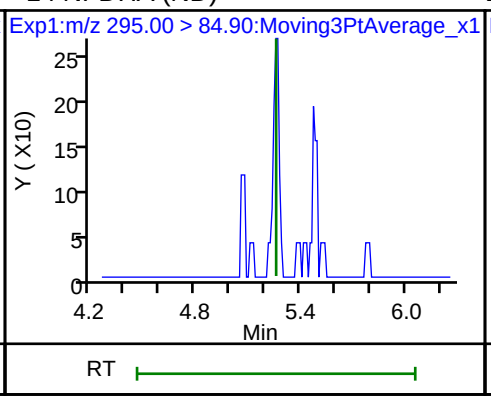
12 4:2FTS (ND)



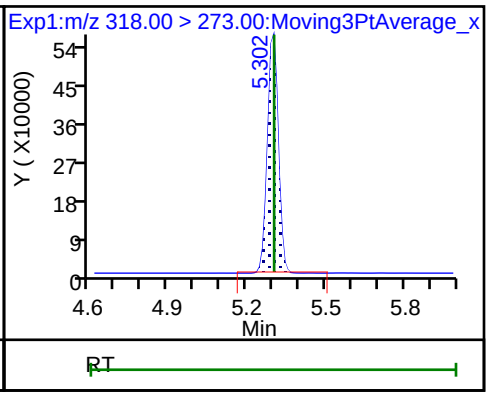
14 NFDHA (ND)



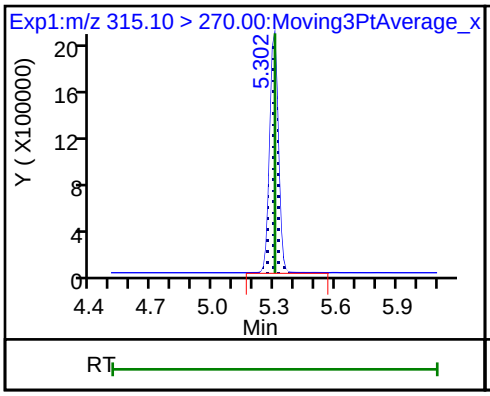
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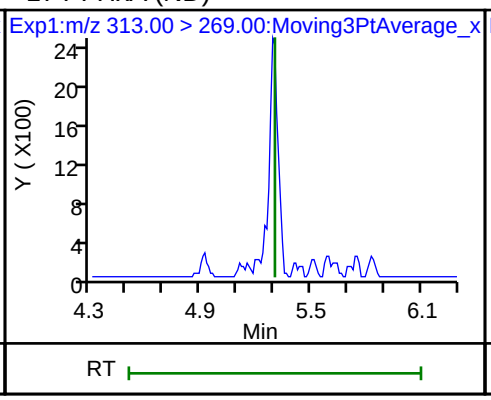
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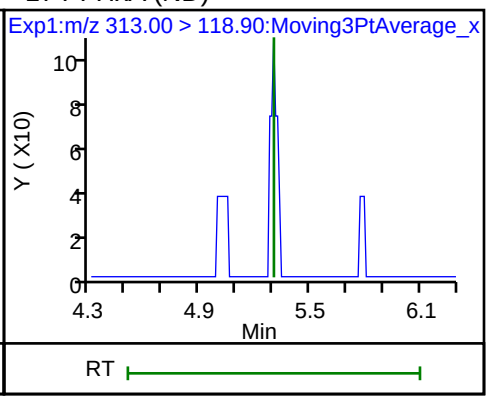
* 16 13C2 PFHxA



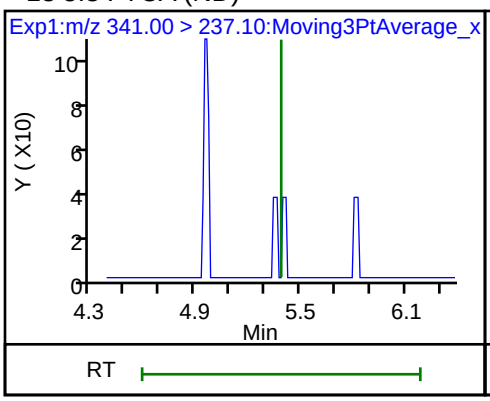
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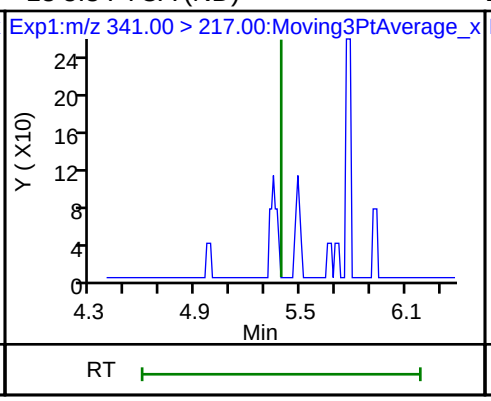
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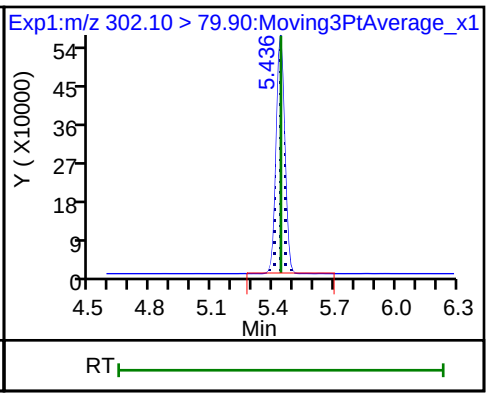
18 5:3 FTCA (ND)



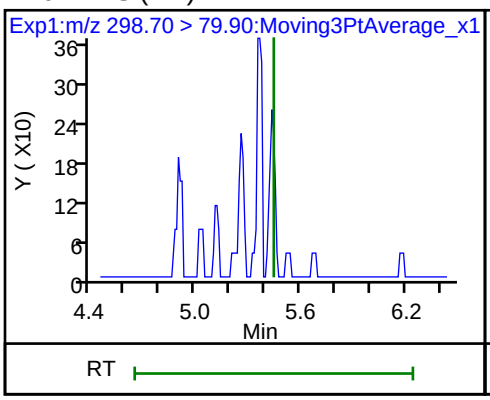
18 5:3 FTCA (ND)



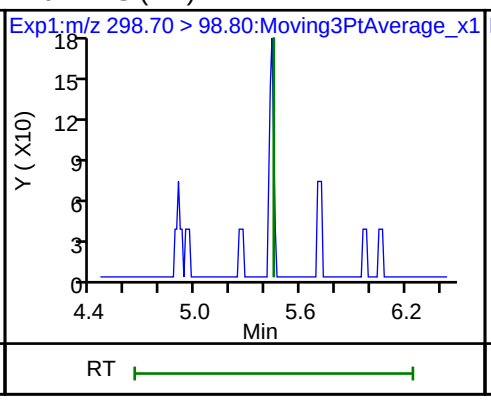
D 19 13C3 PFBS



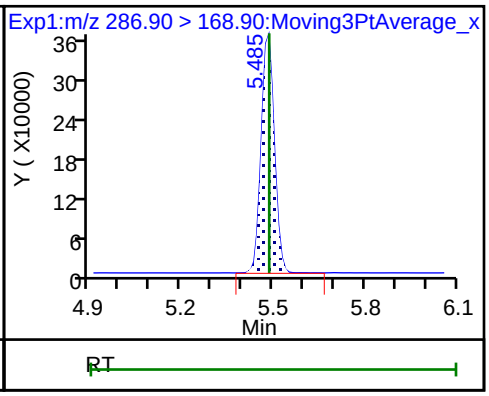
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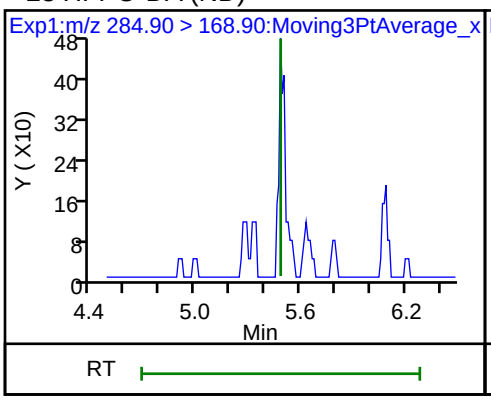
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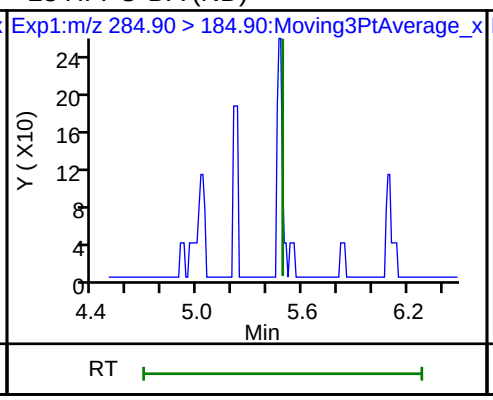
D 22 13C3 HFPO-DA



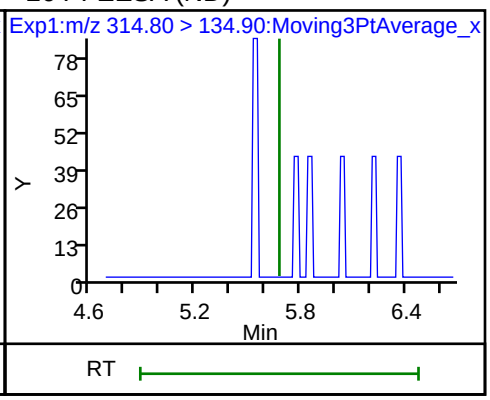
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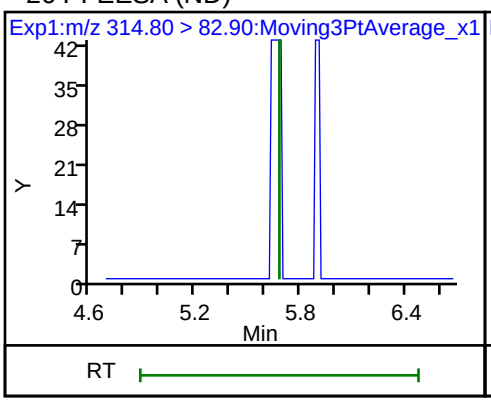
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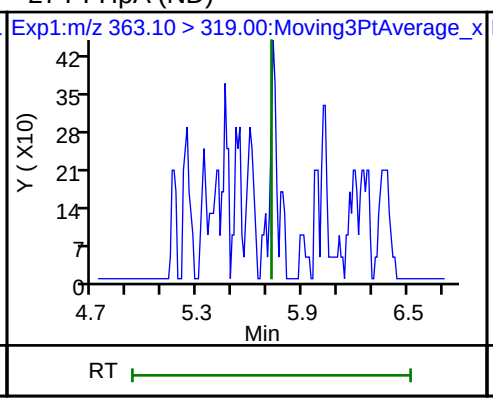
26 PFEESA (ND)



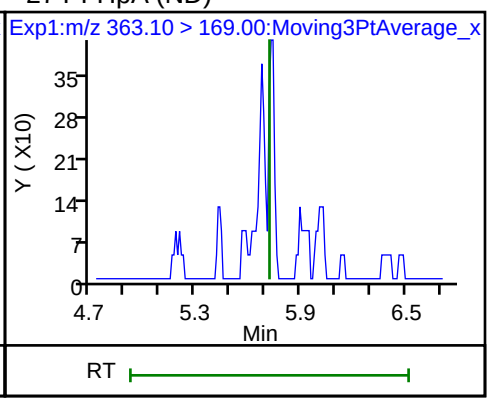
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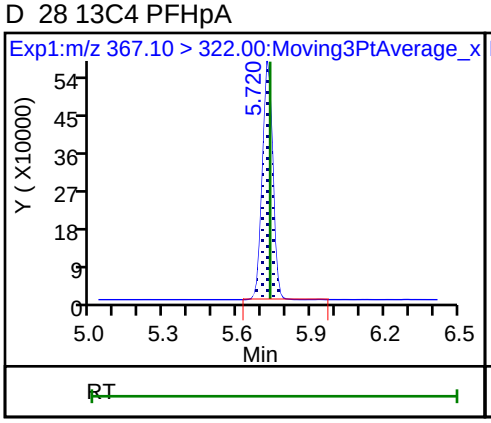
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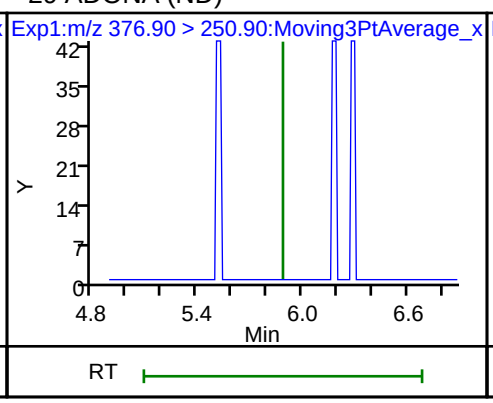
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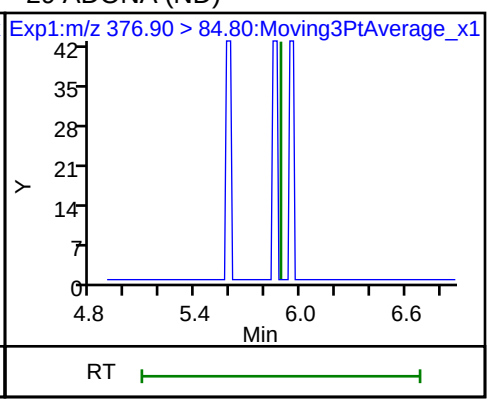
D 28 13C4 PFHpA



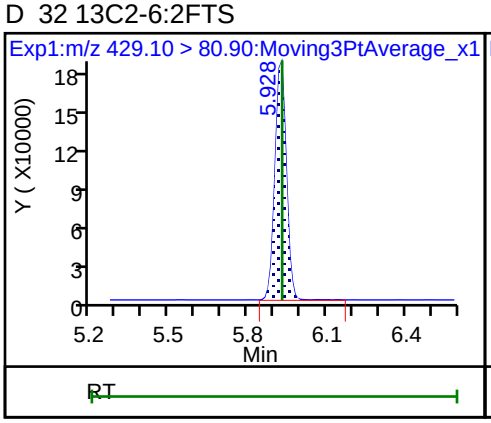
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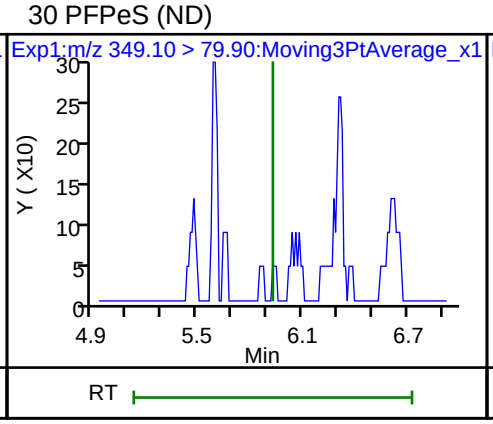
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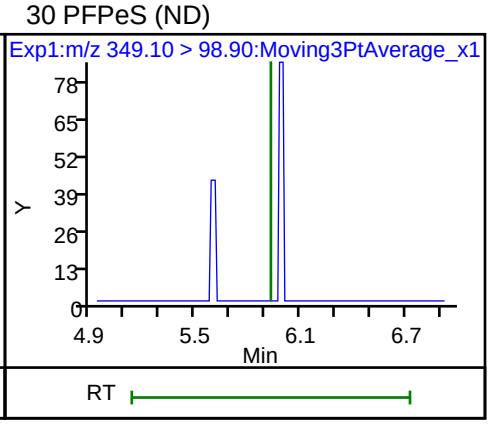
D 32 13C2-6:2FTS



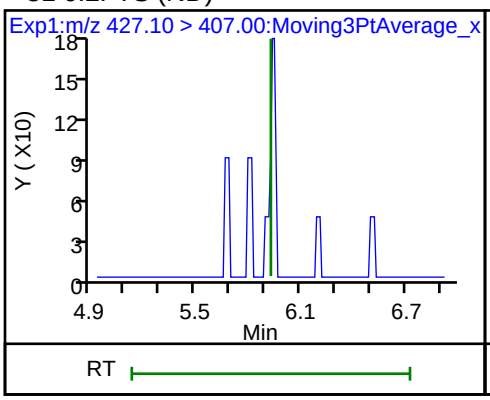
30 PFPeS (ND)



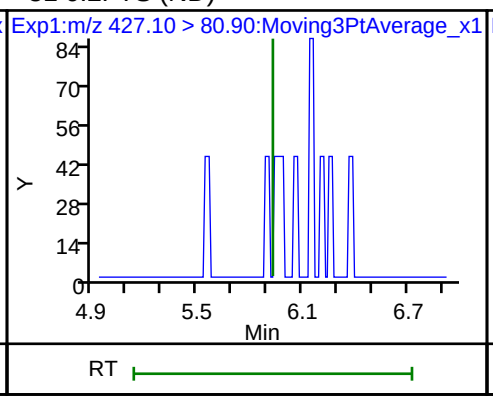
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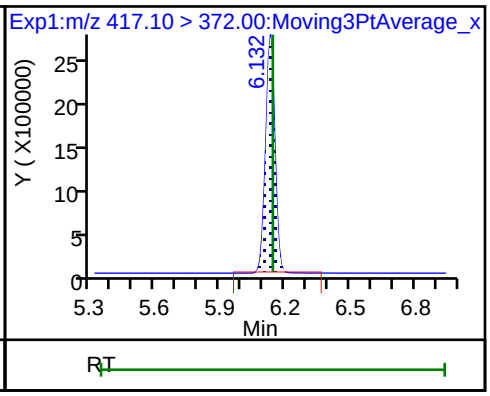
31 6:2FTS (ND)



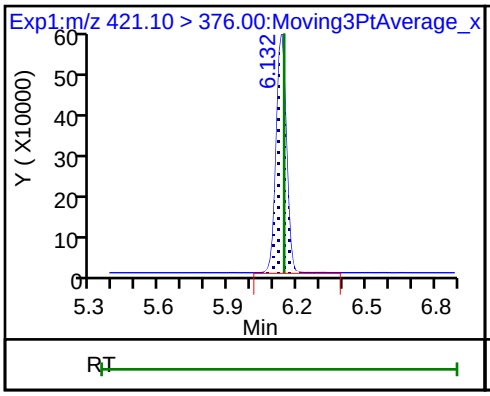
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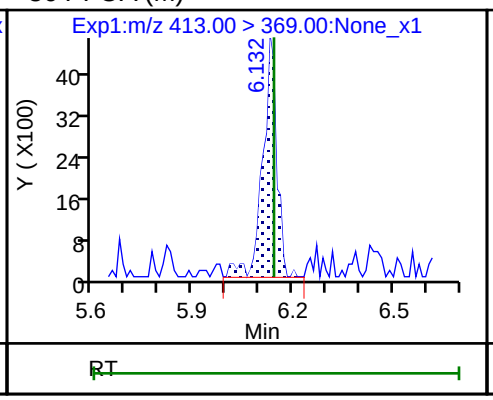
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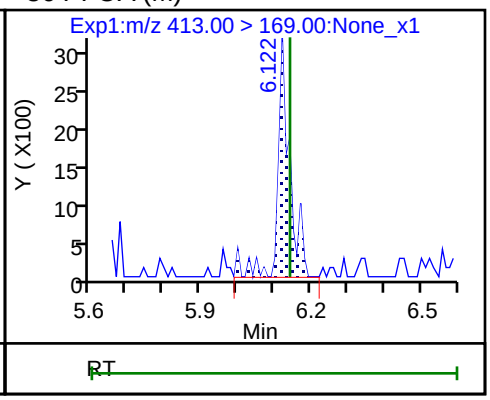
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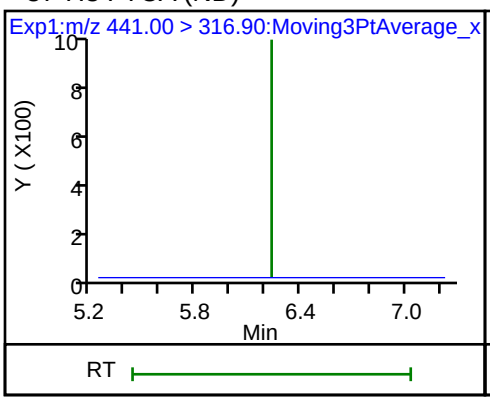
36 PFOA (M)



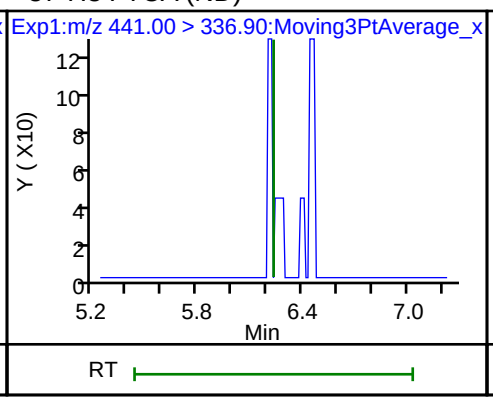
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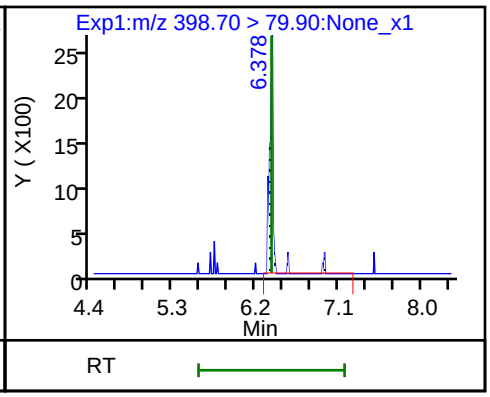
37 7:3 FTCA (ND)



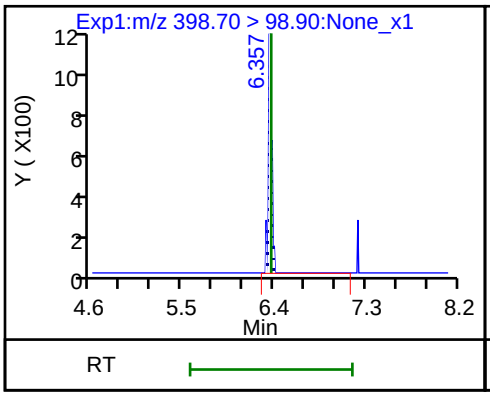
37 7:3 FTCA (ND)



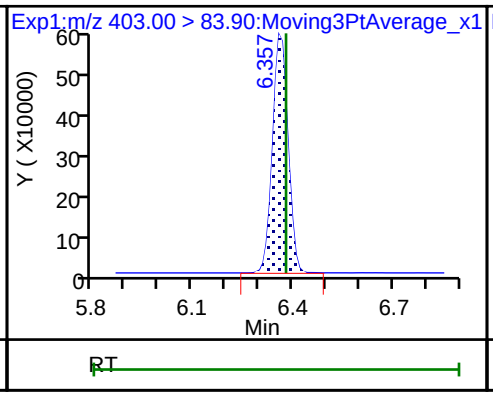
40 PFHxS



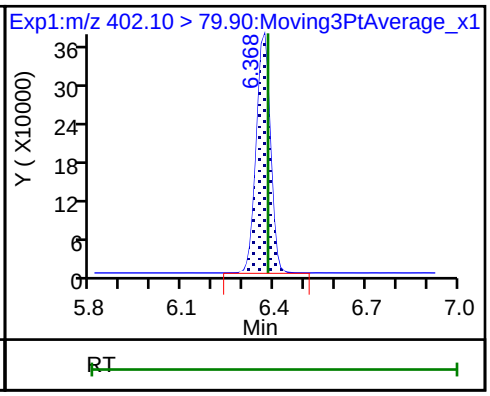
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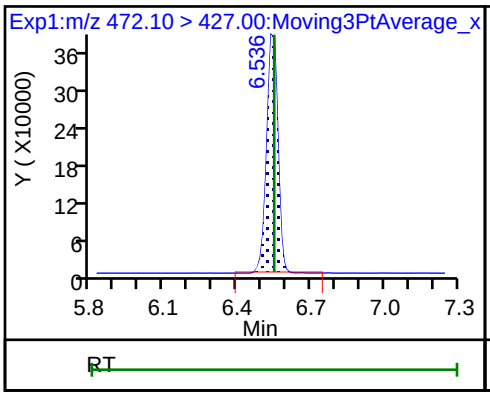
* 39 18O2 PFHxS



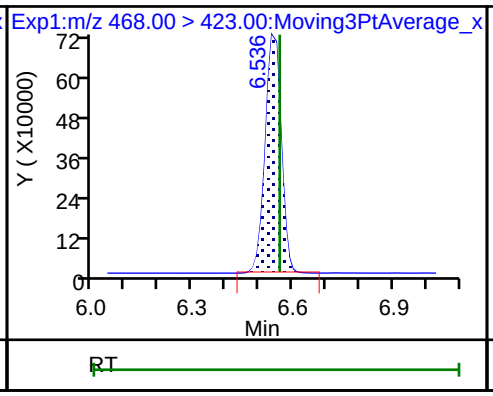
D 38 13C3 PFHxS



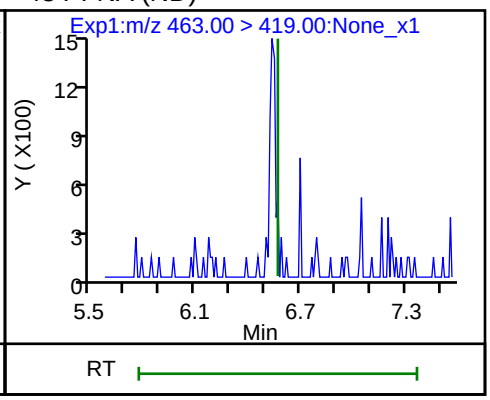
D 41 13C9 PFNA



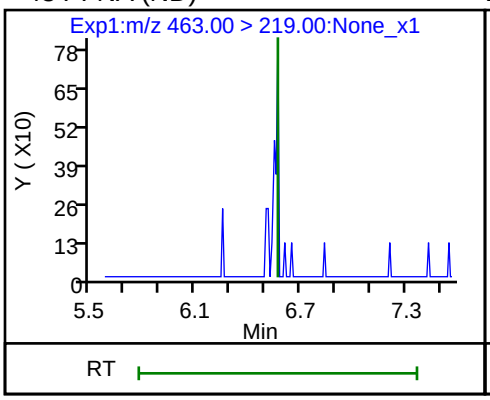
* 42 13C5 PFNA



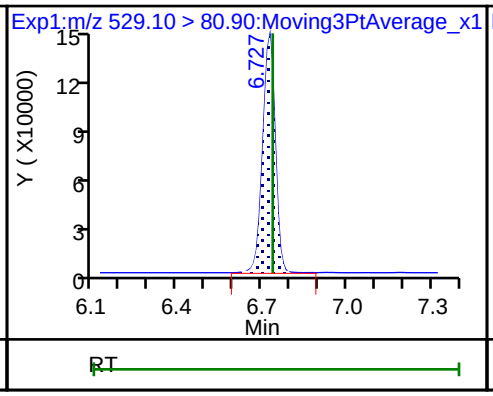
43 PFNA (ND)



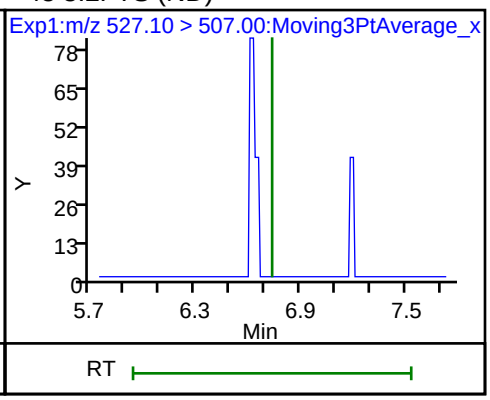
43 PFNA (ND)



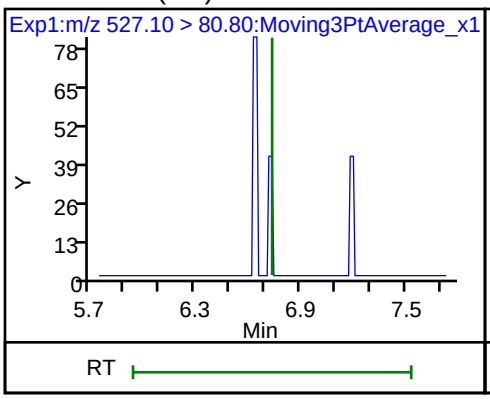
D 44 13C2-8:2FTS



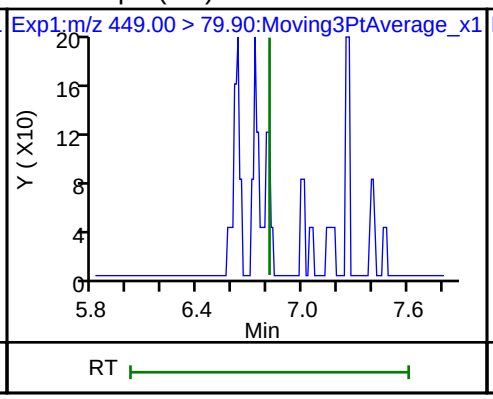
45 8:2FTS (ND)



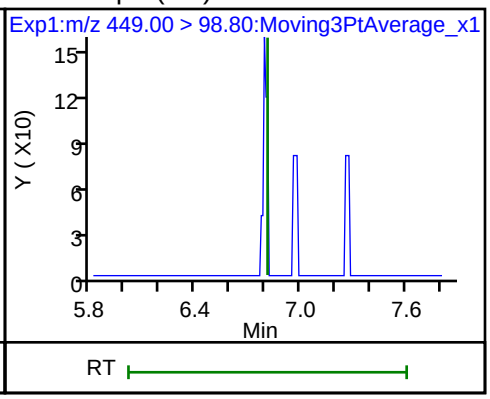
45 8:2FTS (ND)



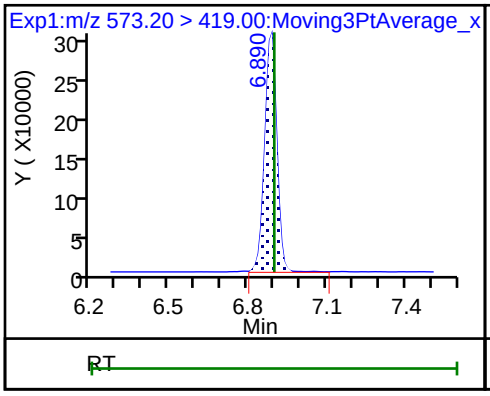
47 PFHpS (ND)



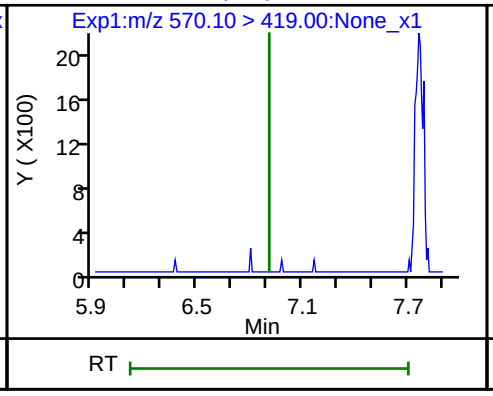
47 PFHpS (ND)



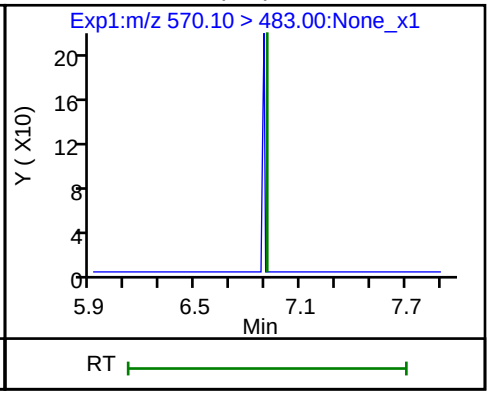
D 49 d3-NMeFOSAA



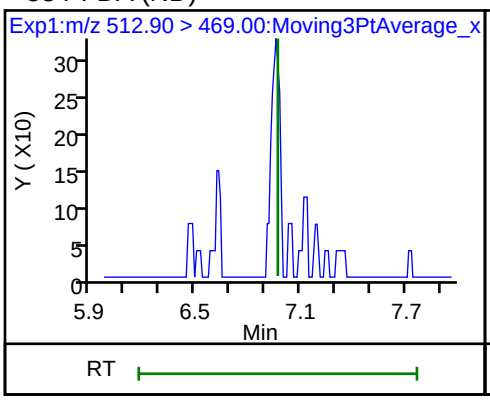
50 NMeFOSAA (ND)



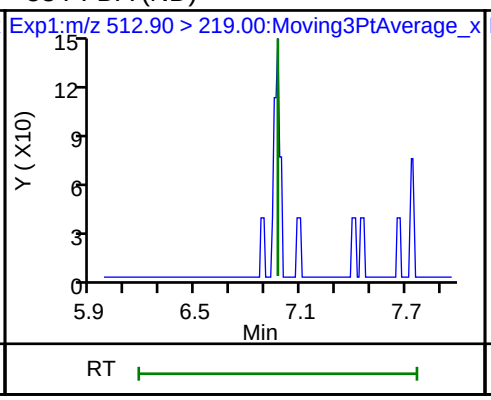
50 NMeFOSAA (ND)



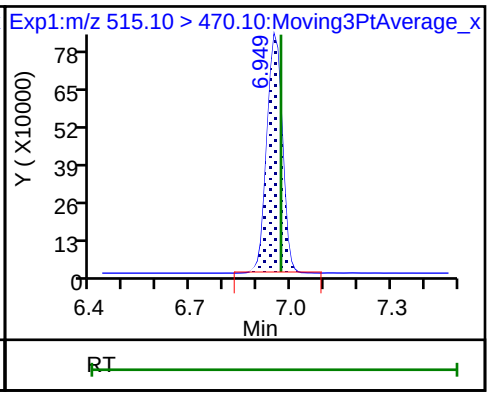
53 PFDA (ND)



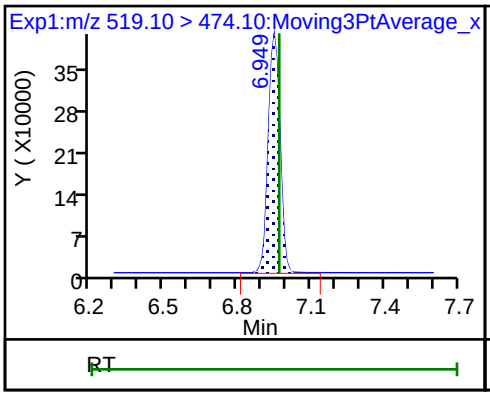
53 PFDA (ND)



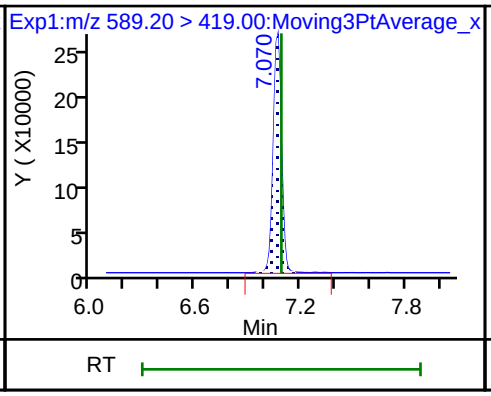
* 51 13C2 PFDA



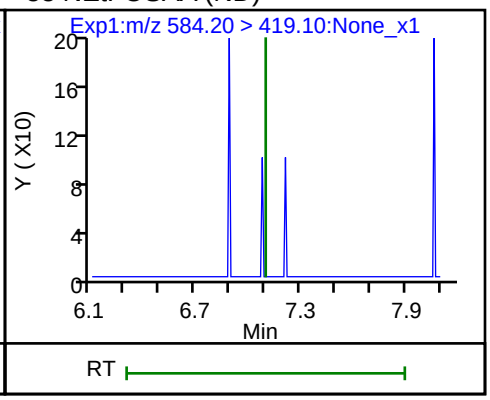
D 52 13C6 PFDA



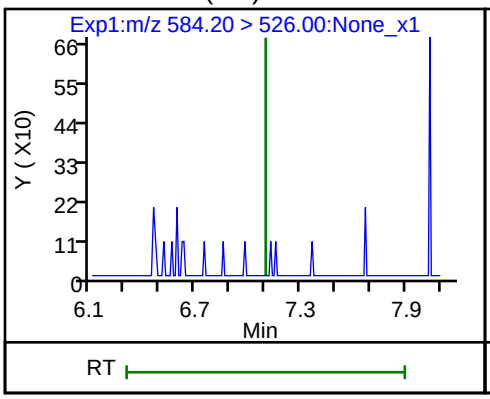
D 54 d5-NEtFOSAA



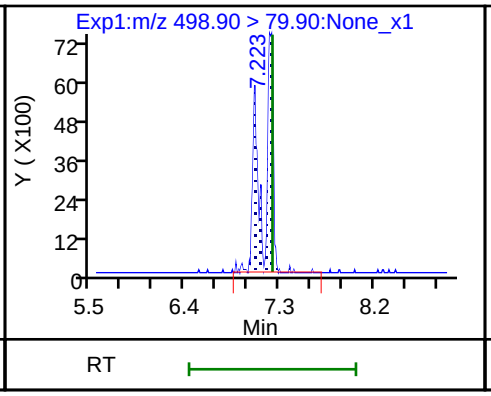
55 NEtFOSAA (ND)



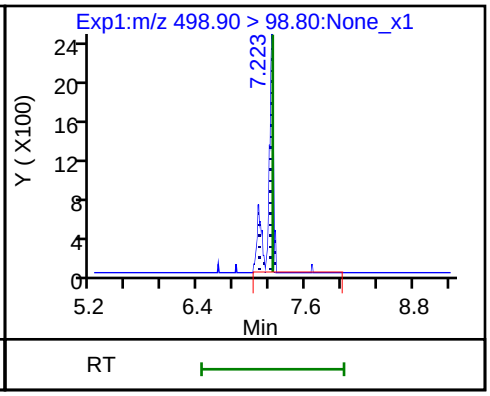
55 NEtFOSAA (ND)



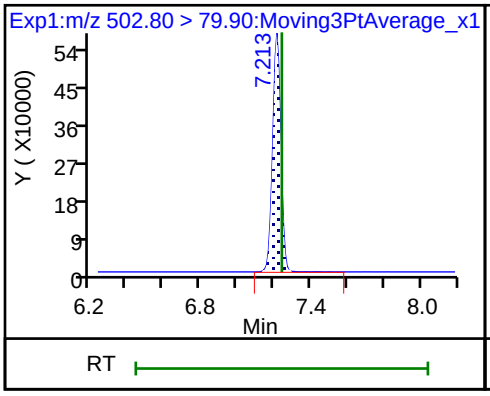
58 PFOS



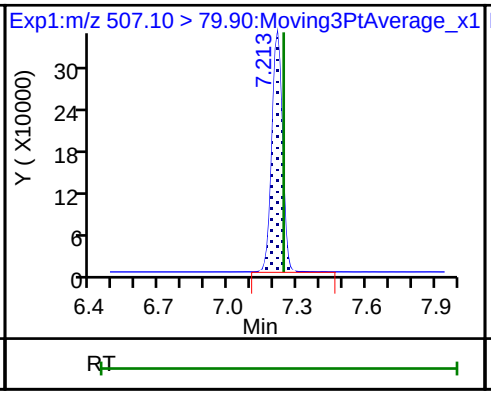
58 PFOS



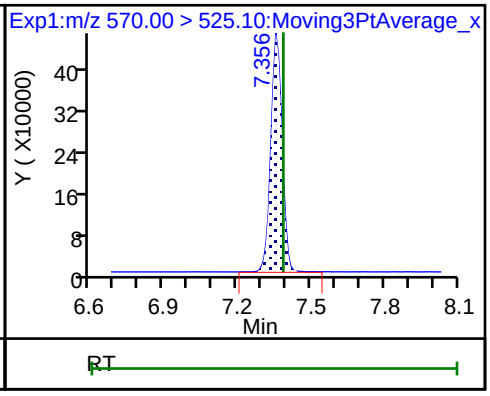
* 57 13C4 PFOS



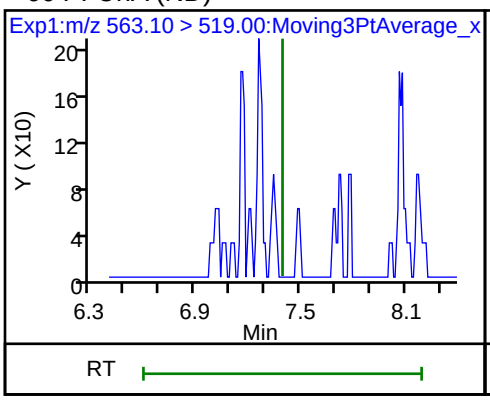
D 56 13C8 PFOS



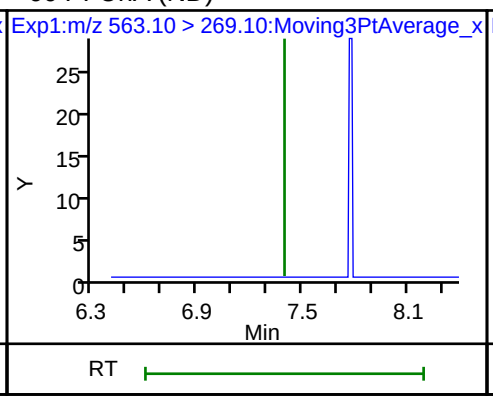
D 59 13C7 PFUnA



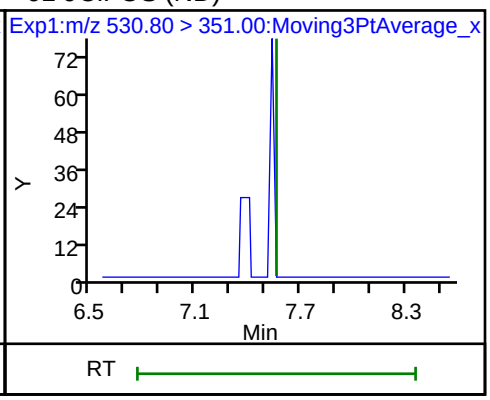
60 PFUnA (ND)



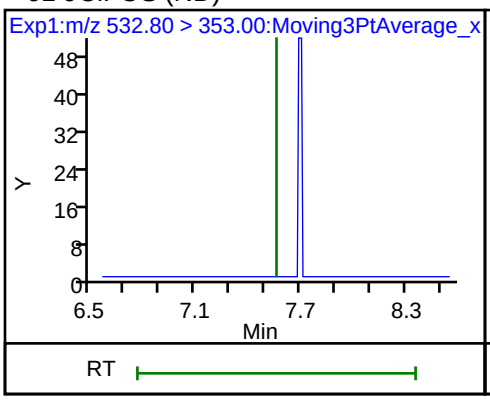
60 PFUnA (ND)



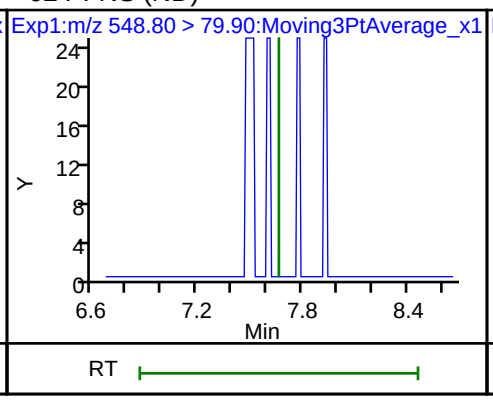
61 9ClFOS (ND)



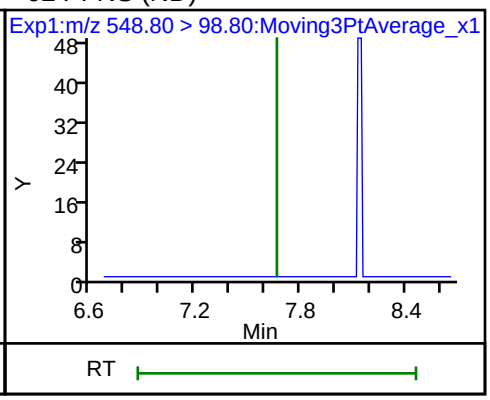
61 9ClFOS (ND)



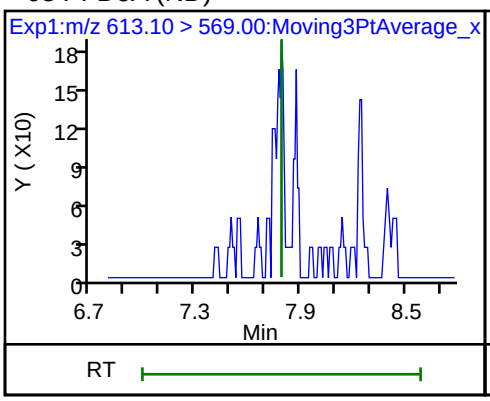
62 PFNS (ND)



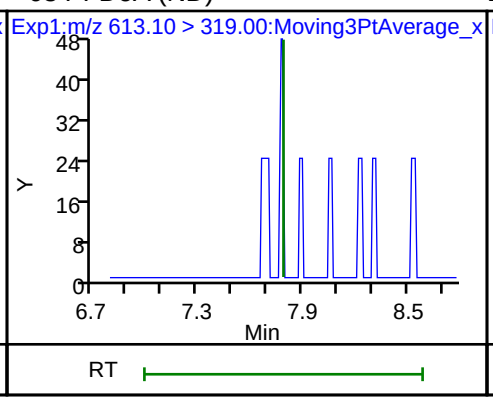
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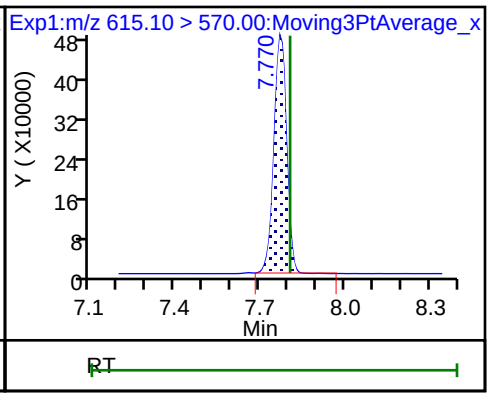
63 PFDoA (ND)



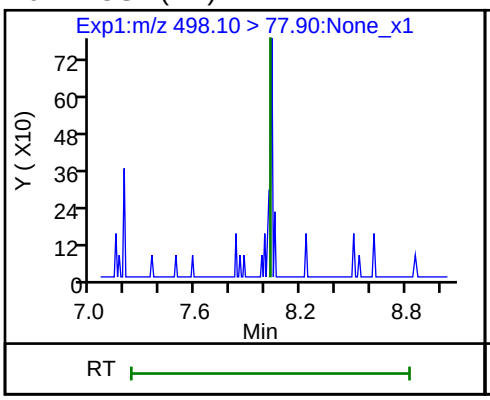
63 PFDoA (ND)



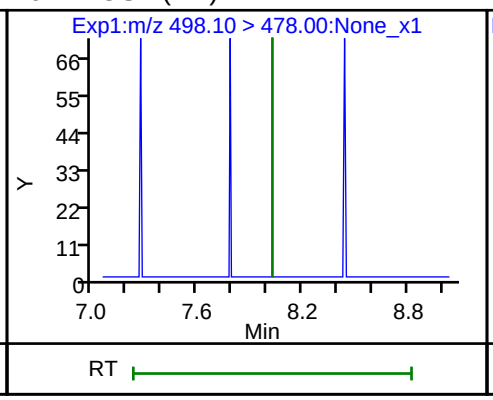
D 81 PFDoA



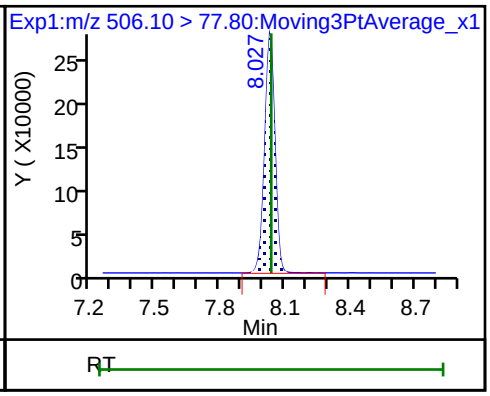
64 PFOSA (ND)



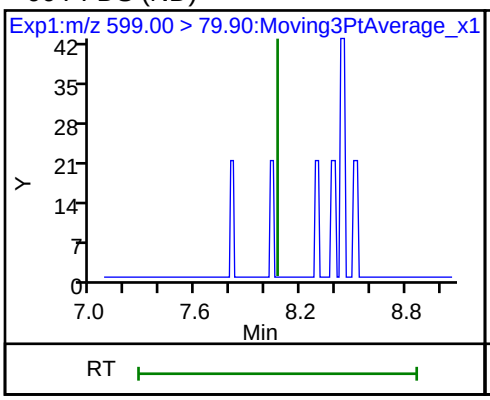
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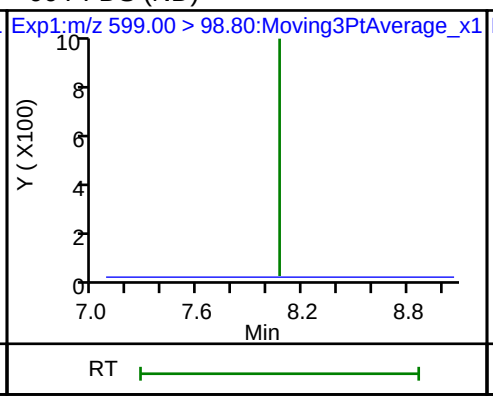
D 65 13C8 FOSA



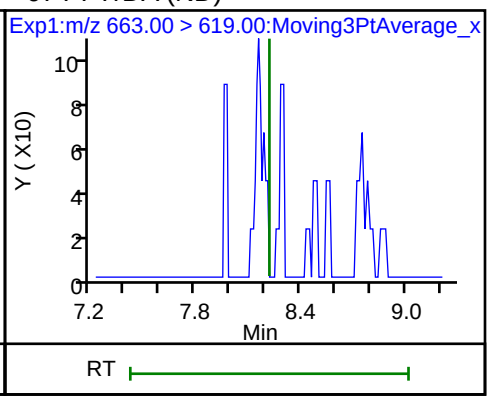
66 PFDS (ND)



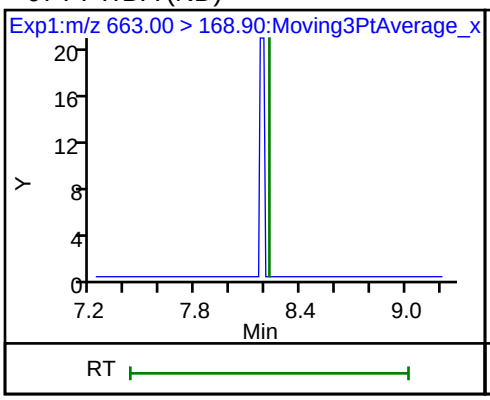
66 PFDS (ND)



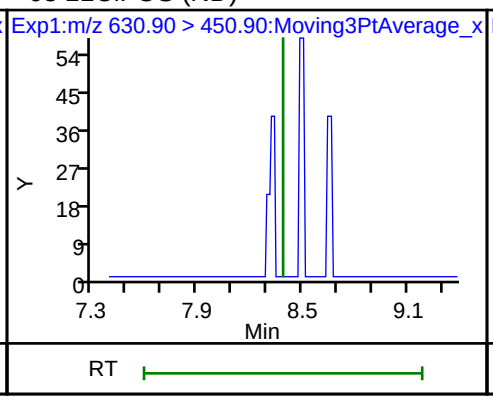
67 PFTrDA (ND)



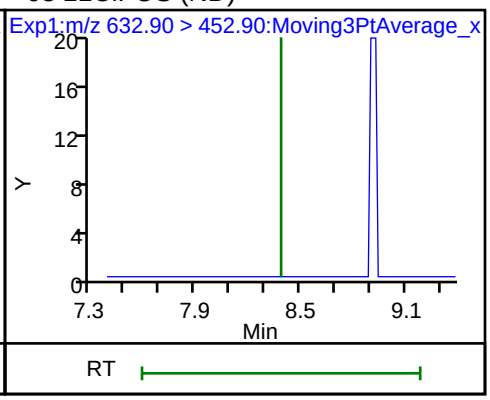
67 PFTrDA (ND)



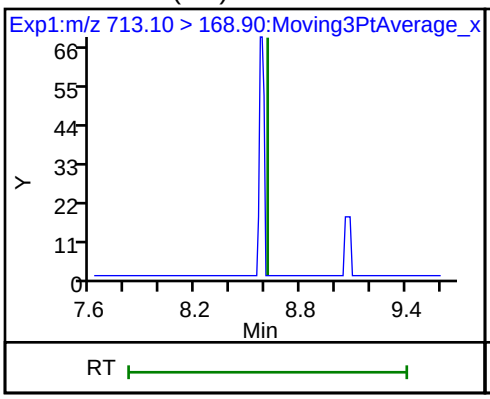
68 11ClFOS (ND)



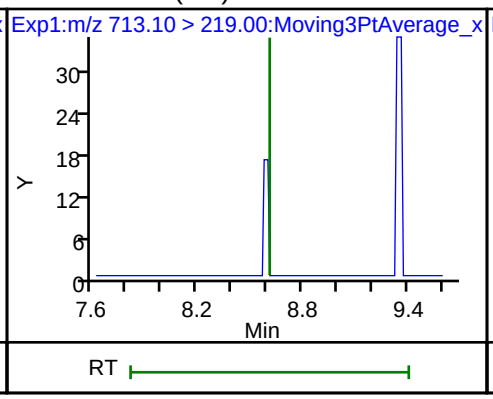
68 11ClFOS (ND)



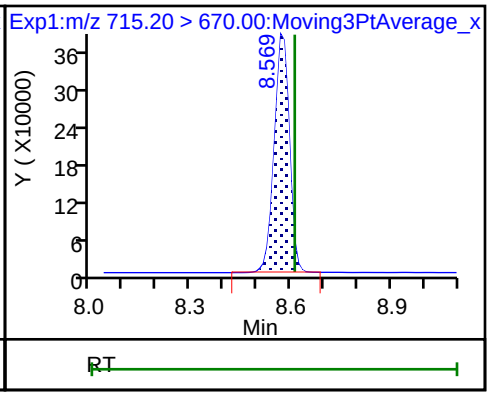
69 PFTeDA (ND)



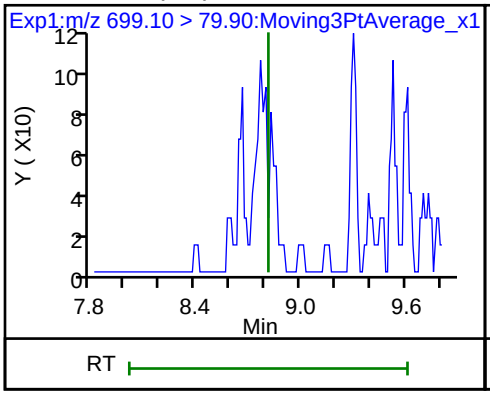
69 PFTeDA (ND)



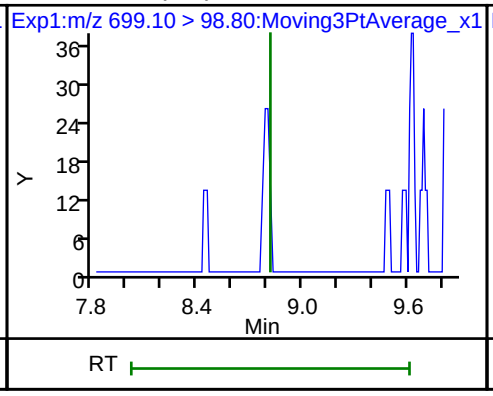
D 70 13C2 PFTeDA



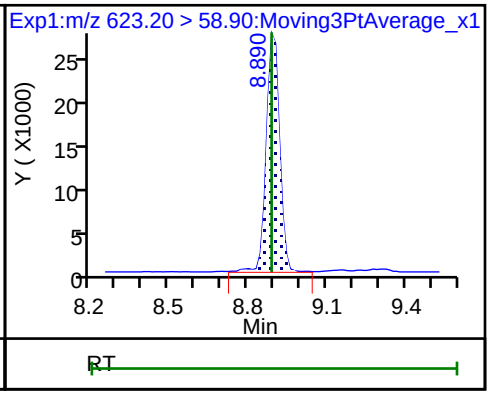
71 PFDoS (ND)



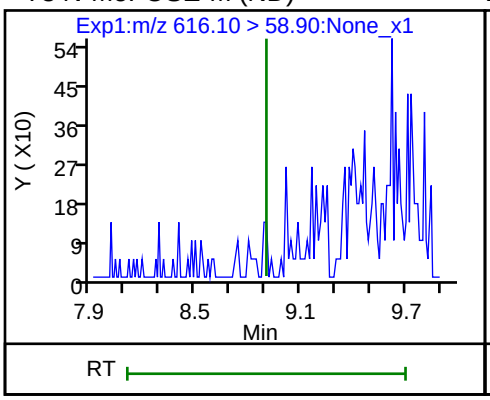
71 PFDoS (ND)



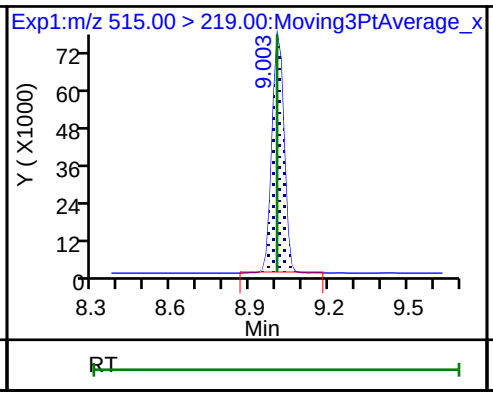
D 72 d7-N-Me-FOSE



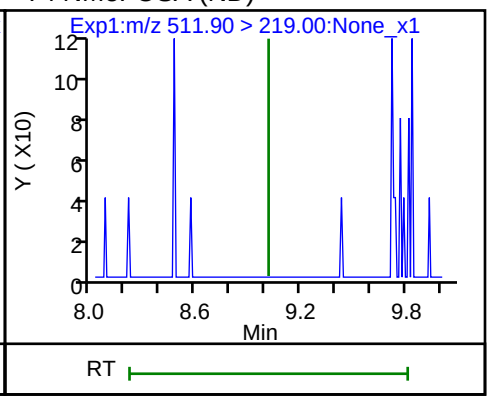
73 N-MeFOSE-M (ND)



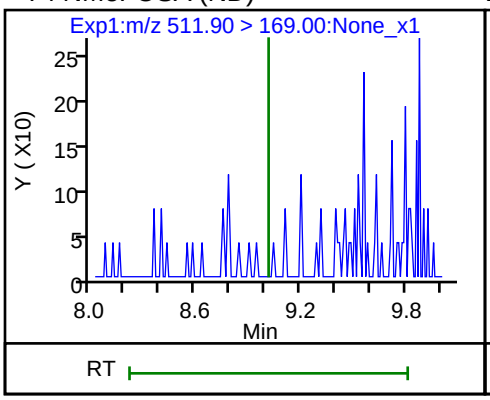
D 75 d3-NMePFOSA



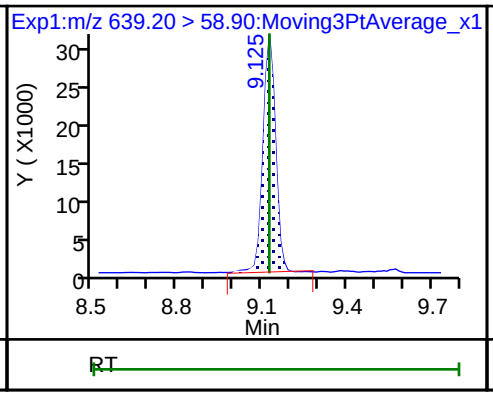
74 NMeFOSA (ND)



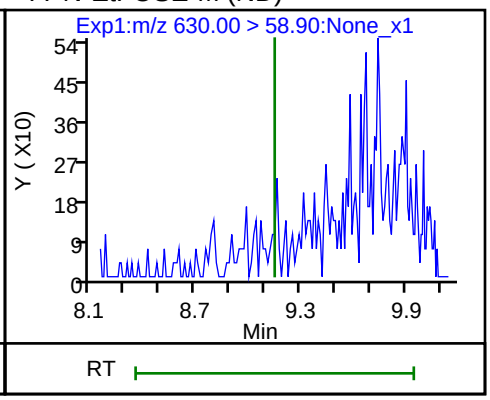
74 NMeFOSA (ND)



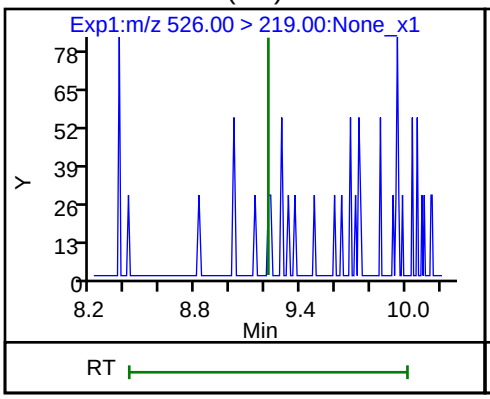
D 76 d9-N-EtFOSE



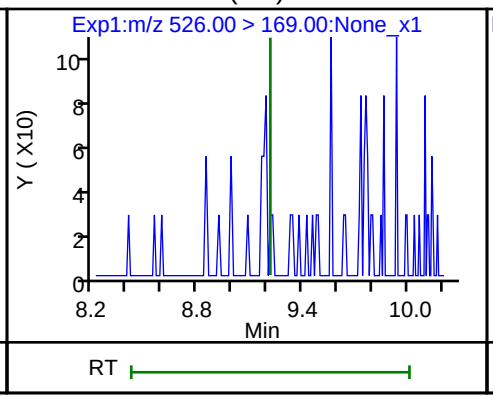
77 N-EtFOSE-M (ND)



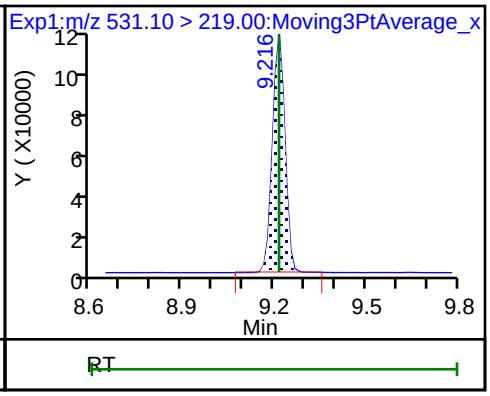
79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



D 78 d5-NEtPFOSA



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

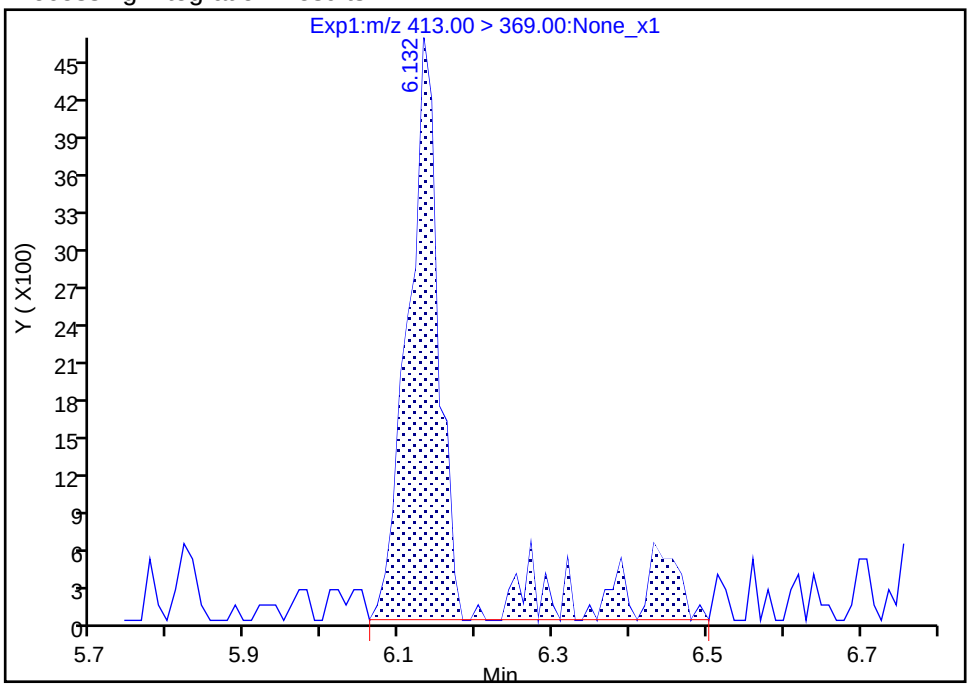
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Injection Date:	05-Feb-2026 21:26:26	Instrument ID:	30577		
Lims ID:	460-344047-A-4-B	Lab Sample ID:	410-344047-4		
Client ID:	RXSB-16 (6-8)_P				
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	19	Worklist Smp#:	138
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 1

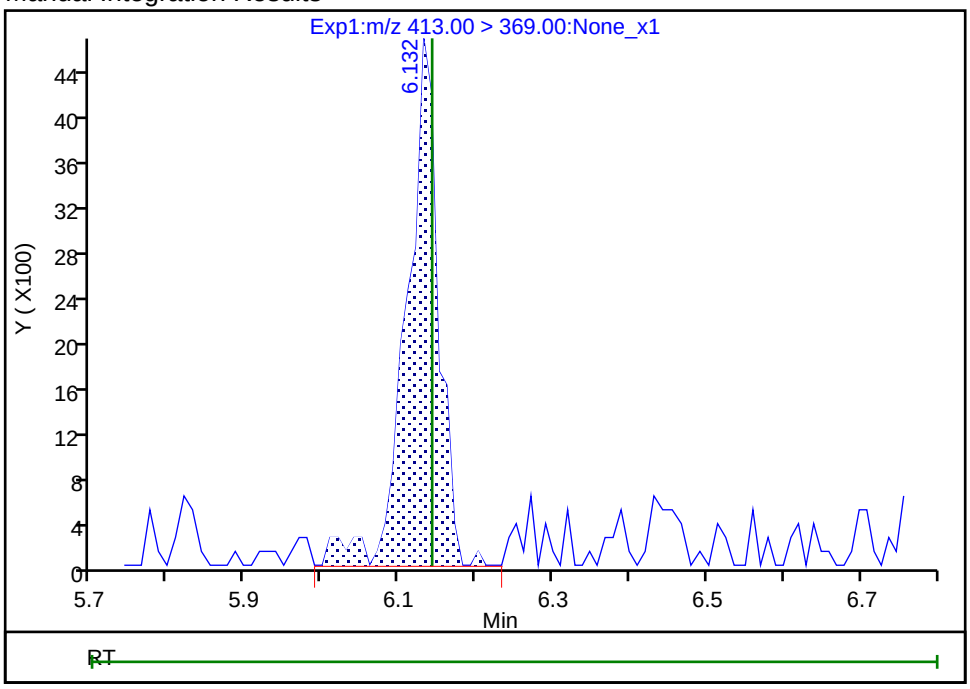
Processing Integration Results

RT: 6.13
Area: 16305
Amount: 0.029099
Amount Units: ng/ml



Manual Integration Results

RT: 6.13
Area: 13345
Amount: 0.023816
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:51:41 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

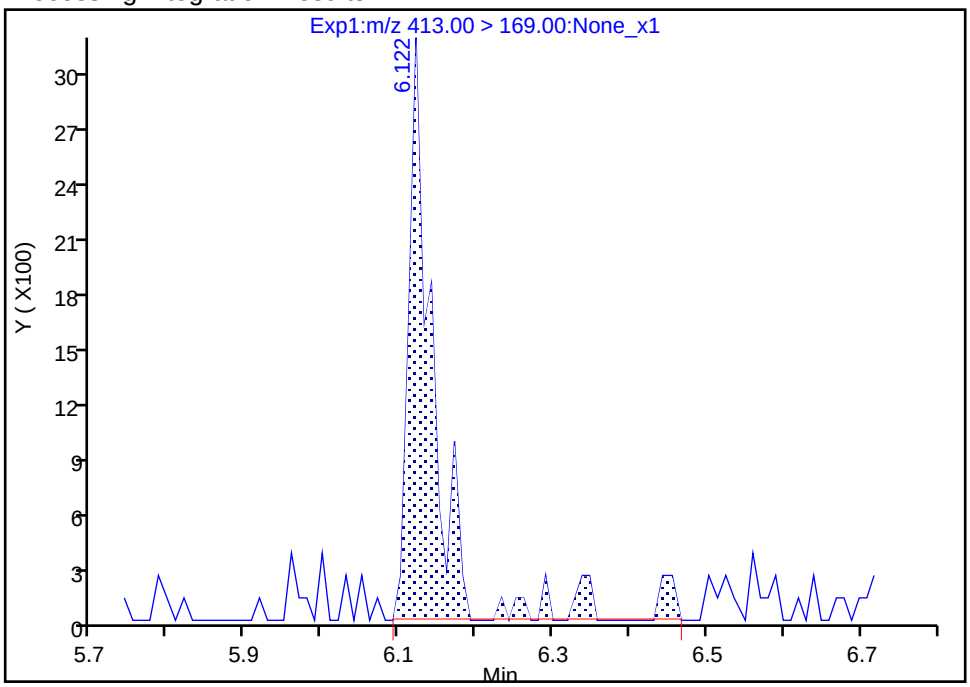
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Injection Date:	05-Feb-2026 21:26:26	Instrument ID:	30577		
Lims ID:	460-344047-A-4-B	Lab Sample ID:	410-344047-4		
Client ID:	RXSB-16 (6-8)_P				
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	19	Worklist Smp#:	138
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 2

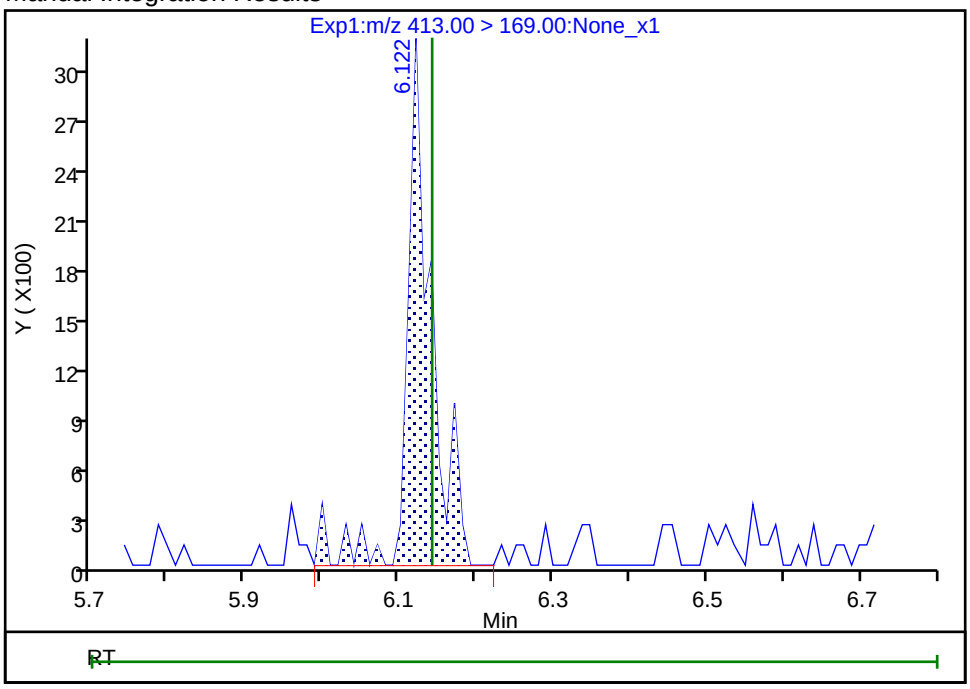
Processing Integration Results

RT: 6.12
Area: 7366
Amount: 0.029099
Amount Units: ng/ml



Manual Integration Results

RT: 6.12
Area: 6905
Amount: 0.023816
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:51:44 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-17 (6-8)_P
Lab Sample ID: 460-344047-5

Matrix: Solid
Lab File ID: 26FEB05JO-35.d

Analysis Method: 1633A
Date Collected: 01/29/2026 13:40

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 1.18(g)
Date Analyzed: 02/05/2026 21:40

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 11.3 % Solids: 88.7
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.38	U	0.38	0.19
307-24-4	Perfluorohexanoic acid (PFHxA)	0.38	U	0.38	0.19
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.38	U	0.38	0.19
335-67-1	Perfluorooctanoic acid (PFOA)	0.13	J	0.38	0.11
375-95-1	Perfluorononanoic acid (PFNA)	0.38	U	0.38	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.38	U	0.38	0.11
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.38	U	0.38	0.19
307-55-1	Perfluorododecanoic acid (PFDoA)	0.38	U	0.38	0.19
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.38	U	0.38	0.19
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.38	U	0.38	0.19
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.38	U	0.38	0.19
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.38	U	0.38	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.38	U	0.38	0.19
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.38	U	0.38	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.38	U	0.38	0.19
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.38	U	0.38	0.19
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.38	U	0.38	0.19
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.38	U	0.38	0.19
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.76	U	0.76	0.38
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.76	U	0.76	0.38
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.76	U	0.76	0.38
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.38	U	0.38	0.19
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.38	U	0.38	0.19
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.38	U	0.38	0.19

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-17 (6-8)_P
Lab Sample ID: 460-344047-5

Matrix: Solid
Lab File ID: 26FEB05JO-35.d

Analysis Method: 1633A
Date Collected: 01/29/2026 13:40

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 1.18(g)
Date Analyzed: 02/05/2026 21:40

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 11.3 % Solids: 88.7
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.38	U	0.38	0.19
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.38	U	0.38	0.19
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.91	U	1.91	0.96
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.91	U	1.91	0.96
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.38	U	0.38	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.38	U	0.38	0.19
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.38	U	0.38	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.38	U	0.38	0.19
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.38	U	0.38	0.19
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.38	U	0.38	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.38	U	0.38	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.38	U	0.38	0.19
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.76	U	0.76	0.38
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.91	U	1.91	0.96
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.91	U	1.91	0.96

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: RXSB-17 (6-8)_P Lab Sample ID: 460-344047-5

Matrix: Solid Lab File ID: 26FEB05JO-35.d

Analysis Method: 1633A Date Collected: 01/29/2026 13:40

Extraction Method: 1633A Date Extracted: 02/05/2026 10:14

Sample wt/vol: 1.18(g) Date Analyzed: 02/05/2026 21:40

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 11.3 % Solids: 88.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196 Units: ug/Kg

Preparation Batch No.: 765112 Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	76.5		8-130
2283397-79-3	13C5 PFPeA	74.8		35-130
2328024-54-8	13C5 PFHxA	73.5		40-130
2328024-55-9	13C4 PFHpA	81.7		40-130
1350614-84-4	13C8 PFOA	80.6		40-130
2283397-80-6	13C9 PFNA	74.0		40-130
2328024-56-0	13C6 PFDA	77.5		40-130
STL02580	13C7 PFUnA	76.9		40-130
STL02116	13C2 PFTeDA	64.4		20-130
2708218-83-9	13C3 PFBS	78.7		40-135
2708218-85-1	13C3 PFHxS	83.0		40-130
2265893-05-6	13C8 PFOS	73.2		40-130
STL01056	13C8 FOSA	71.3		40-130
1400690-70-1	d3-NMeFOSAA	63.3		40-135
1265205-97-7	d5-NEtFOSAA	57.2		40-150
STL02395	13C2 4:2 FTS	74.9		40-165
STL02279	13C2 6:2 FTS	81.2		40-215
STL02280	13C2 8:2 FTS	64.8		40-275
STL02255	13C3 HFPO-DA	82.2		40-130
STL02277	d7-N-MeFOSE-M	31.2		20-130
STL02278	d9-N-EtFOSE-M	32.9		15-130
STL02704	d5-NEtPFOSA	51.6		10-130
STL02705	d3-NMePFOSA	53.4		10-130
960315-52-0	13C2 PFDoA	76.4		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-35.d
Lims ID: 460-344047-A-5-B
Client ID: RXSB-17 (6-8)_P
Sample Type: Client
Inject. Date: 05-Feb-2026 21:40:01 ALS Bottle#: 20 Worklist Smp#: 139
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 460-344047-A-5-B
Misc. Info.: Plate: 1 Rack: 1 410-0174796-139
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:52:47
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 4 13C4-PFBA										
216.80 > 171.90	4.201	4.187	0.014	1.000	1663797	1.53		76.5	4907	
* 5 13C3PFBA										
216.00 > 172.00	4.201	4.187	0.014		2120102	2.00			5274	
D 8 13C5 PFPeA										
268.30 > 223.00	4.853	4.844	0.008	0.915	1610954	1.50		74.8	4963	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.121	5.121	0.0	0.805	866996	3.51		74.9	3734	
D 15 13C5 PFHxA										
318.00 > 273.00	5.303	5.303	0.0	1.000	1923923	1.47		73.5	4589	
* 16 13C2 PFHxA										
315.10 > 270.00	5.303	5.303	0.0		6174044	5.00			8764	
D 19 13C3 PFBS										
302.10 > 79.90	5.437	5.437	0.0	0.855	1944058	1.47		78.7	6486	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.487	5.486	0.001	1.035	1463868	1.64		82.2	5823	
D 28 13C4 PFHpA										
367.10 > 322.00	5.722	5.732	-0.010	1.079	2086184	1.63		81.7	8233	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.920	5.930	-0.010	0.931	806299	3.86		81.2	4096	
* 34 13C4 PFOA										
417.10 > 372.00	6.133	6.143	-0.010		7992477	5.00			7406	
D 35 13C8 PFOA										
421.10 > 376.00	6.133	6.143	-0.010	1.000	2624187	1.61		80.6	6408	
36 PFOA										M
413.00 > 369.00	6.143	6.143	0.0	1.002	21545	0.0265	Target=1.91		22.2	M
413.00 > 169.00	6.123	6.143	-0.020	0.998	9735		2.21(0.96-2.87)		15.7	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 39 18O2 PFHxS										
403.00 > 83.90	6.358	6.379	-0.021		1972809	1.90			9163	
D 38 13C3 PFHxS										
402.10 > 79.90	6.369	6.379	-0.010	1.002	1763442	1.57		83.0	6055	
D 41 13C9 PFNA										
472.10 > 427.00	6.539	6.549	-0.010	1.000	1909043	1.48		74.0	3652	
* 42 13C5 PFNA										
468.00 > 423.00	6.539	6.560	-0.021		2493493	2.00			4703	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.718	6.737	-0.019	1.057	670551	3.11		64.8	3835	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.881	6.899	-0.018	0.954	1423572	3.16		63.3	2132	
* 51 13C2 PFDA										
515.10 > 470.10	6.949	6.970	-0.021		2357650	2.00			6281	
D 52 13C6 PFDA										
519.10 > 474.10	6.949	6.970	-0.021	1.000	1802129	1.55		77.5	5420	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.071	7.090	-0.019	0.980	1111677	2.86		57.2	3513	
58 PFOS										
498.90 > 79.90	7.214	7.232	-0.018	1.000	24196	0.0251	Target=4.60		47.5	
498.90 > 98.80	7.205	7.232	-0.027	0.999	4765		5.08(2.30-6.91)		19.0	
* 57 13C4 PFOS										
502.80 > 79.90	7.214	7.241	-0.027		1671667	1.92			10970	
D 56 13C8 PFOS										
507.10 > 79.90	7.214	7.241	-0.027	1.000	1362223	1.40		73.2	4645	
D 59 13C7 PFUnA										
570.00 > 525.10	7.356	7.387	-0.031	1.059	1781231	1.54		76.9	4830	
D 81 PFDoA										
615.10 > 570.00	7.769	7.806	-0.037	1.118	1701641	1.53		76.4	2529	
D 65 13C8 FOSA										
506.10 > 77.80	8.027	8.035	-0.008	1.113	1427989	1.43		71.3	4690	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.569	8.611	-0.042	1.233	1290090	1.29		64.4	2408	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.890	8.889	0.001	1.232	125654	1.56		31.2	360	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.003	9.002	0.001	1.248	339130	1.07		53.4	2825	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.125	9.125	0.0	1.265	142489	1.64		32.9	373	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.216	9.215	0.001	1.278	421357	1.03		51.6	2615	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated

Reagents:

1633_125_IS_V_00591 Amount Added: 50.00 Units: uL

Report Date: 05-Feb-2026 22:56:45 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-35.d

Injection Date: 05-Feb-2026 21:40:01 Instrument ID: 30577

Lims ID: 460-344047-A-5-B Lab Sample ID: 410-344047-5

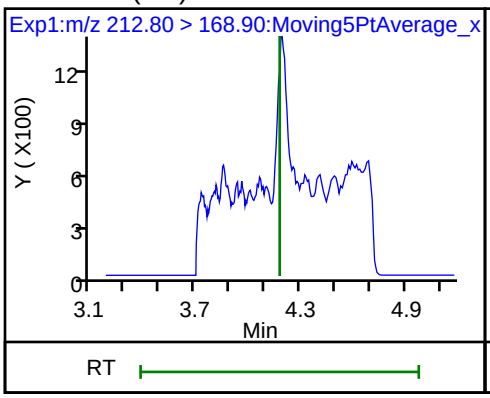
Client ID: RXSB-17 (6-8)_P

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 20 Worklist Smp#: 139

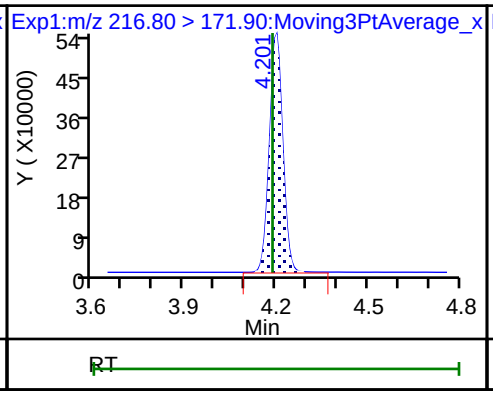
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

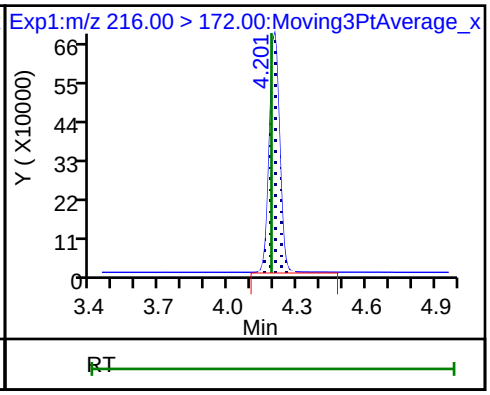
3 PFBA (ND)



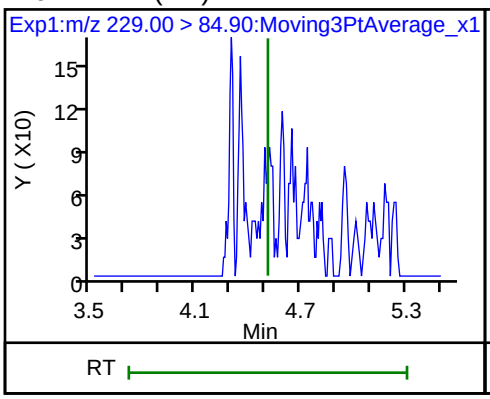
D 4 13C4-PFBA



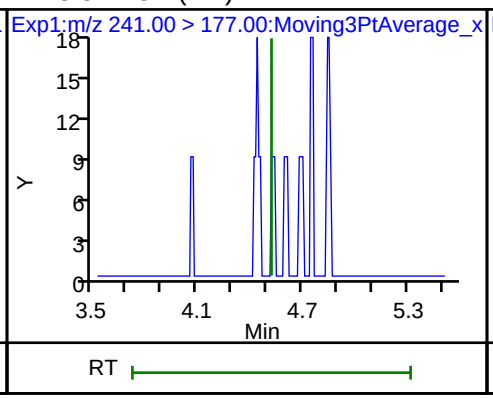
* 5 13C3PFBA



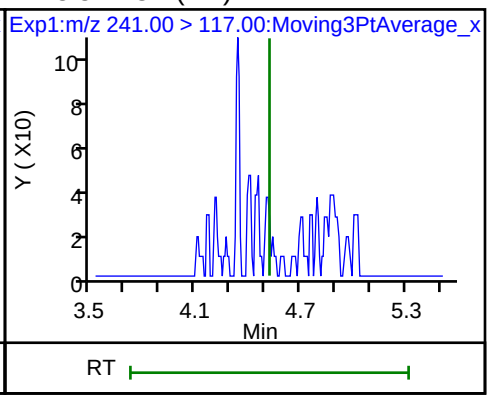
6 PFMPA (ND)



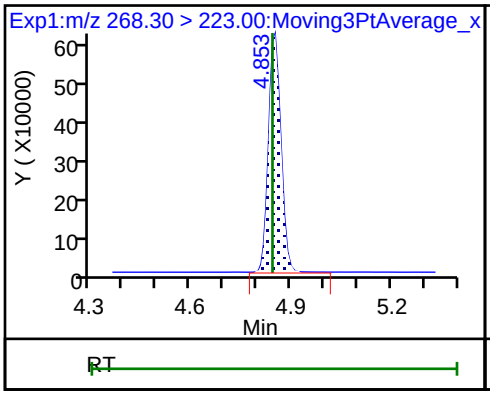
7 3:3 FTCA (ND)



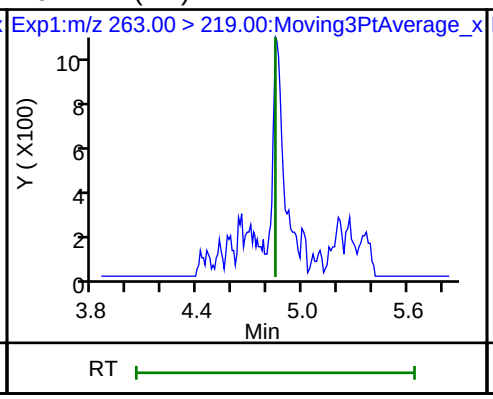
7 3:3 FTCA (ND)



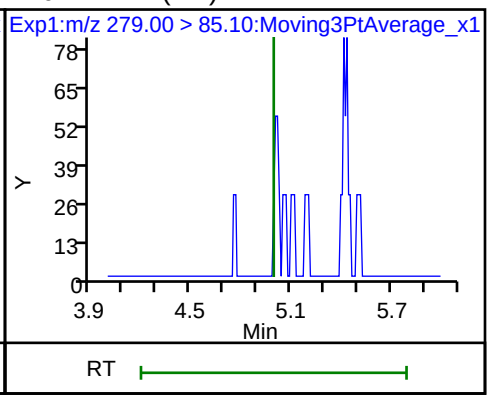
D 8 13C5 PFPeA



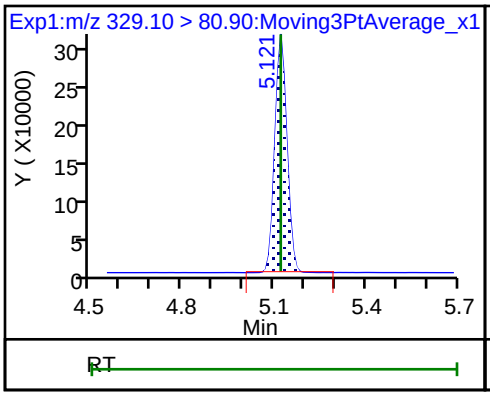
9 PFPA (ND)



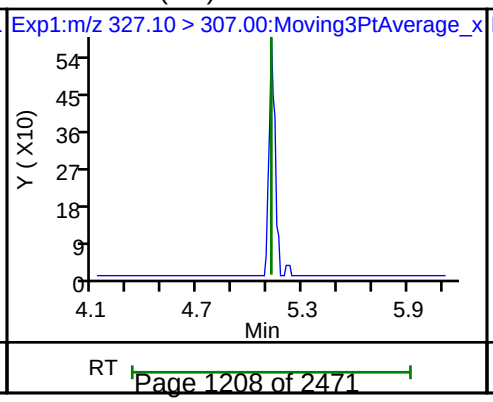
10 PFMBA (ND)



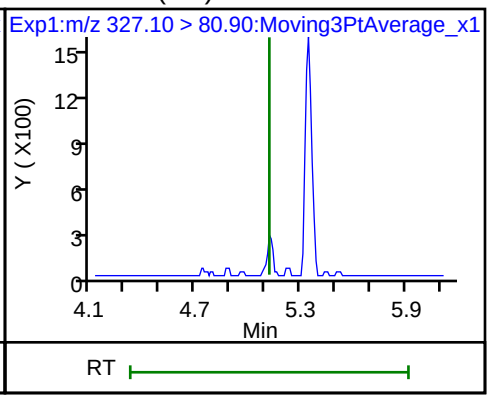
D 11 13C2-4:2FTS



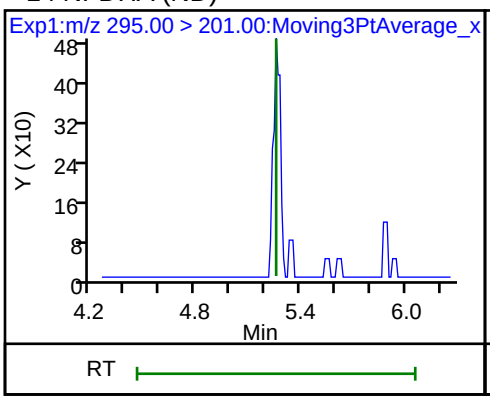
12 4:2FTS (ND)



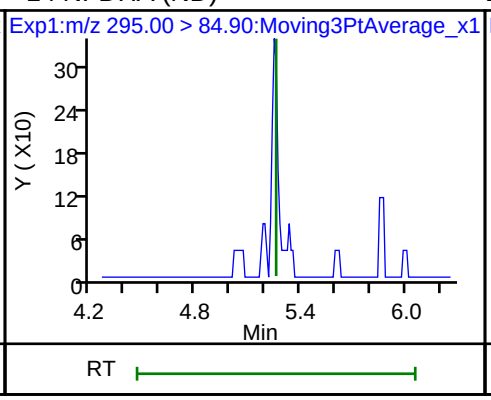
12 4:2FTS (ND)



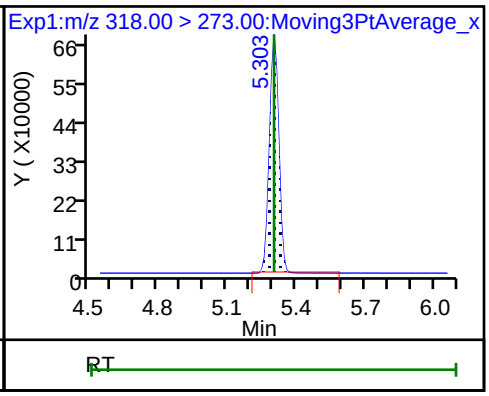
14 NFDHA (ND)



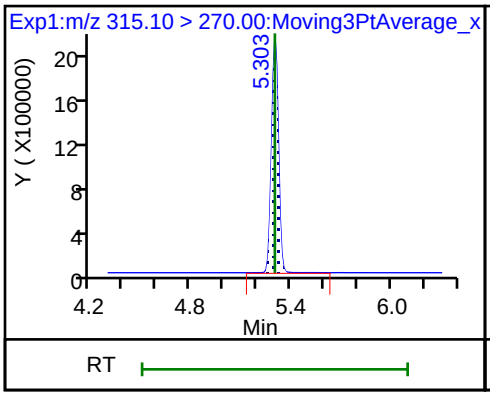
14 NFDHA (ND)



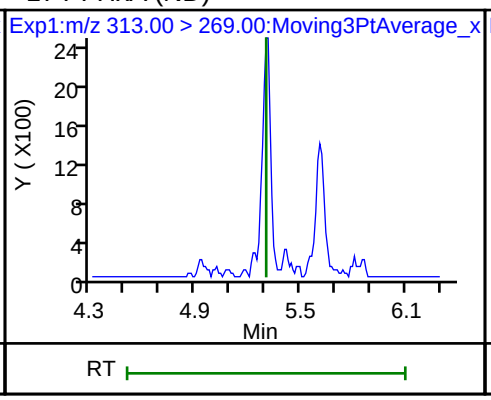
D 15 13C5 PFHxA



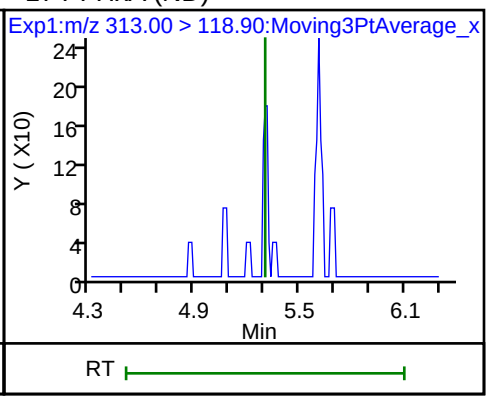
* 16 13C2 PFHxA



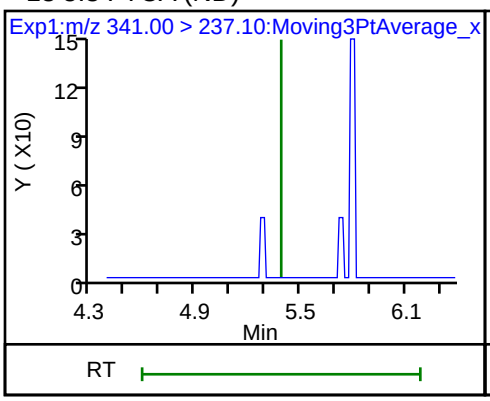
17 PFHxA (ND)



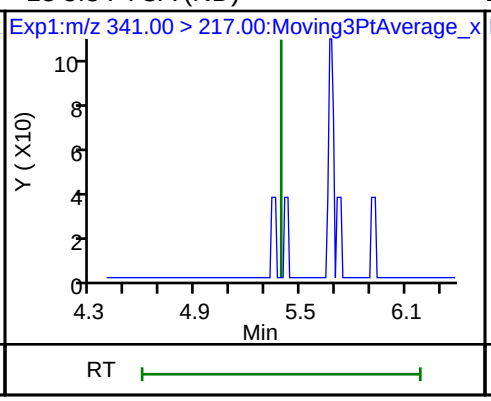
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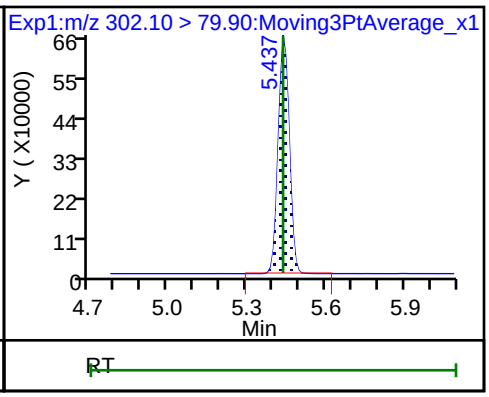
18 5:3 FTCA (ND)



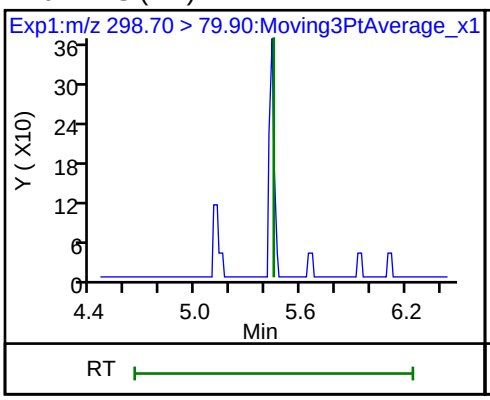
18 5:3 FTCA (ND)



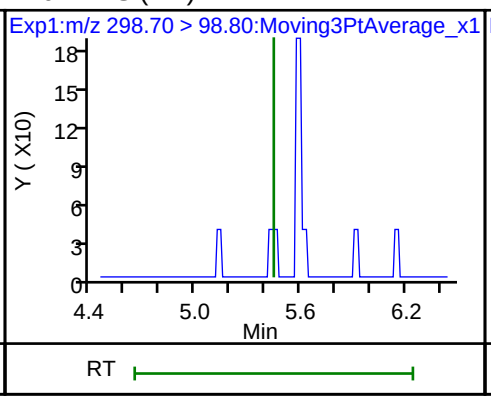
D 19 13C3 PFBS



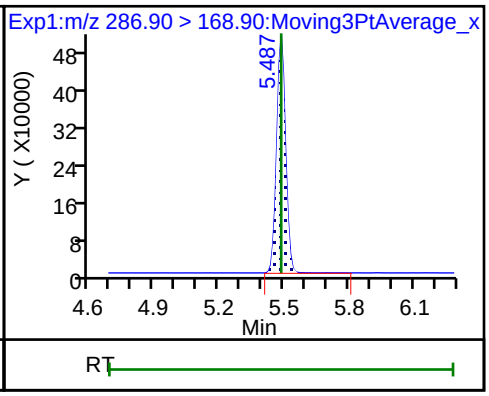
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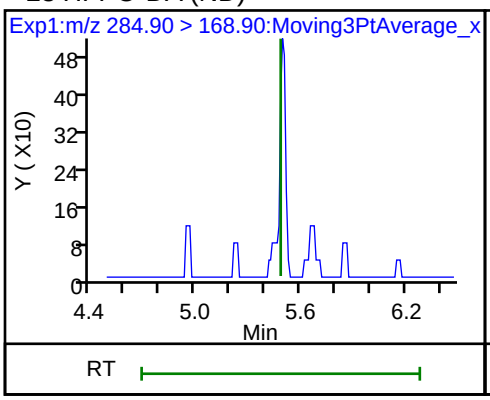
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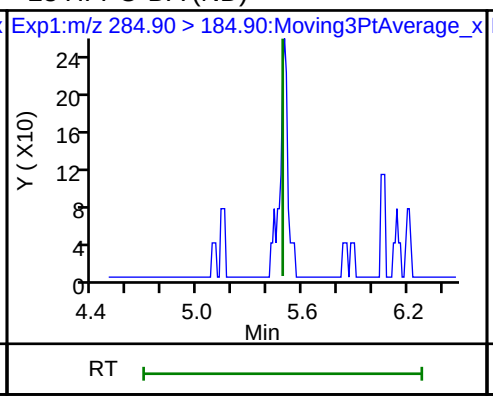
D 22 13C3 HFPO-DA



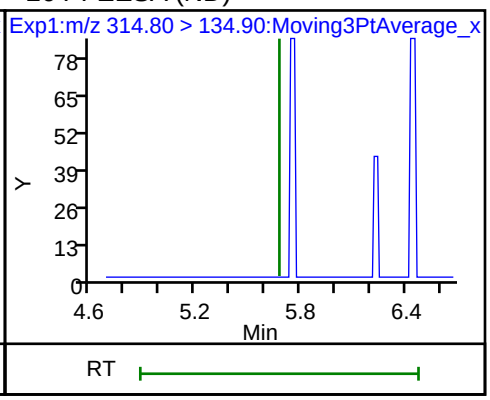
23 HFPO-DA (ND)



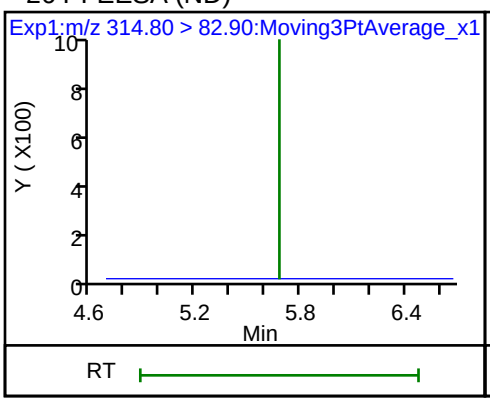
23 HFPO-DA (ND)



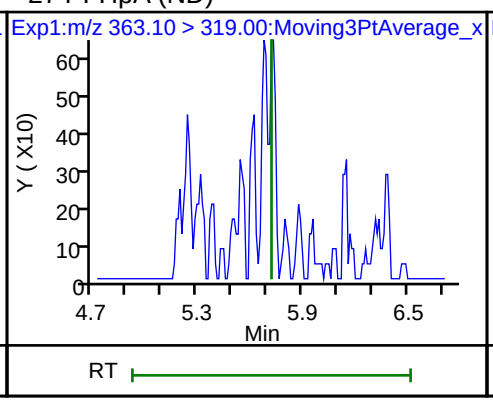
26 PFEESA (ND)



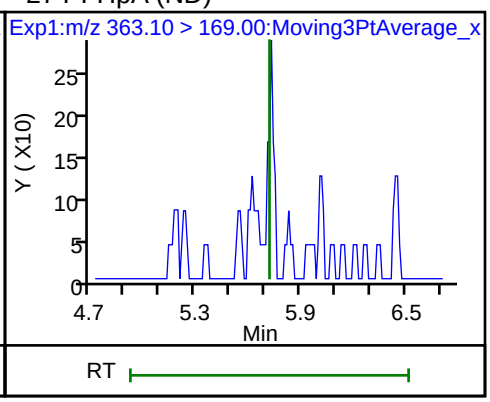
26 PFEESA (ND)



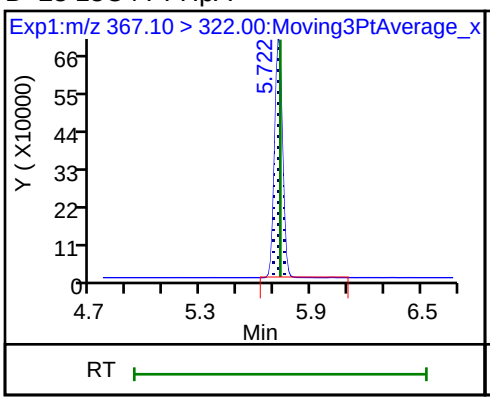
27 PFHpA (ND)



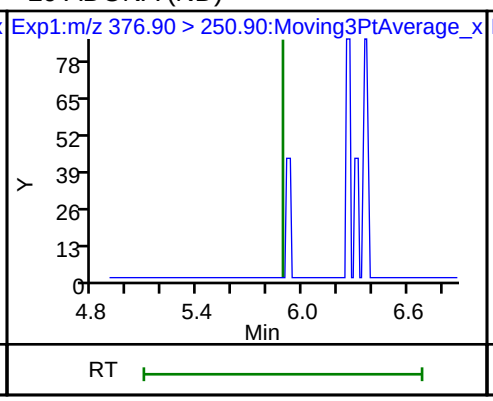
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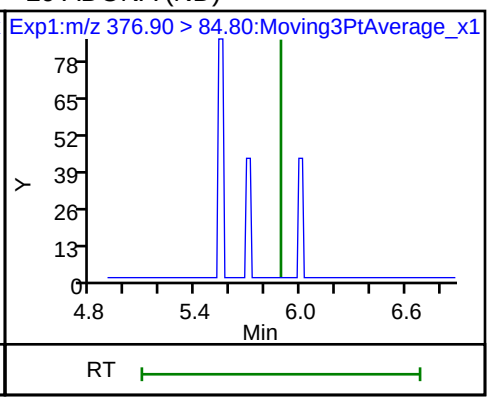
D 28 13C4 PFHpA



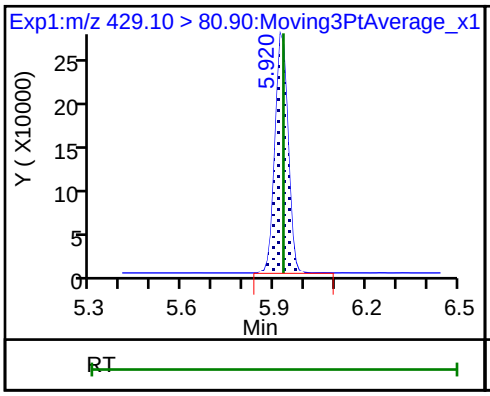
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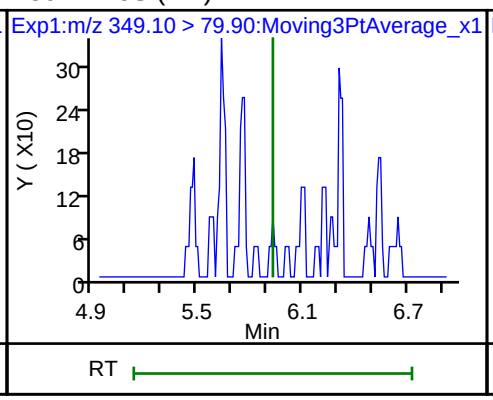
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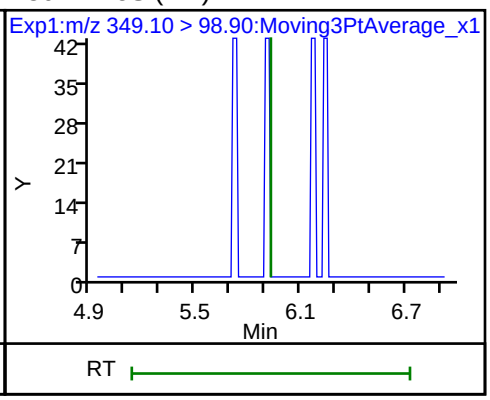
D 32 13C2-6:2FTS



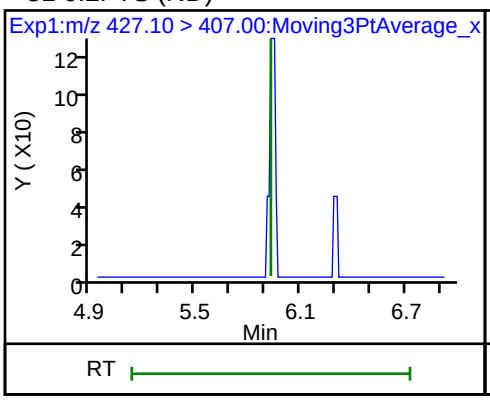
30 PFPeS (ND)



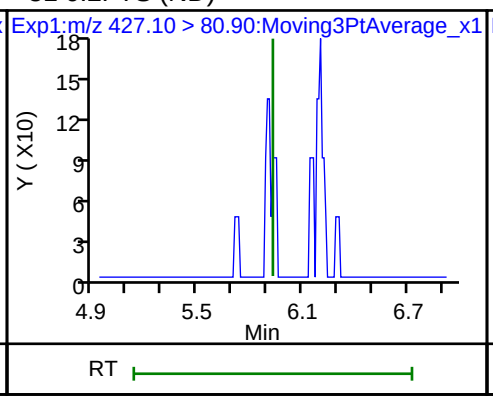
30 PFPeS (ND)



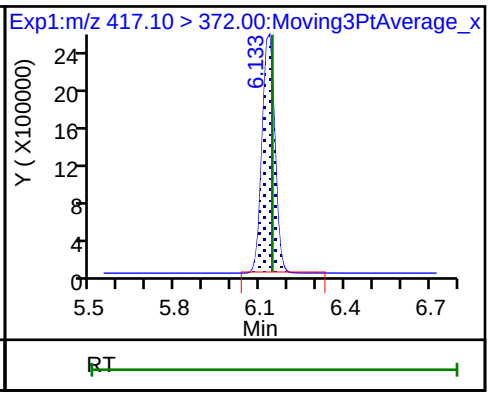
31 6:2FTS (ND)



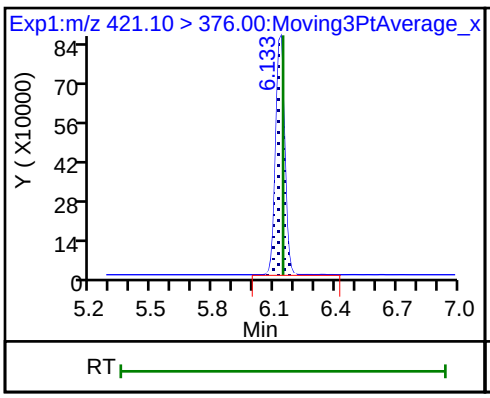
31 6:2FTS (ND)



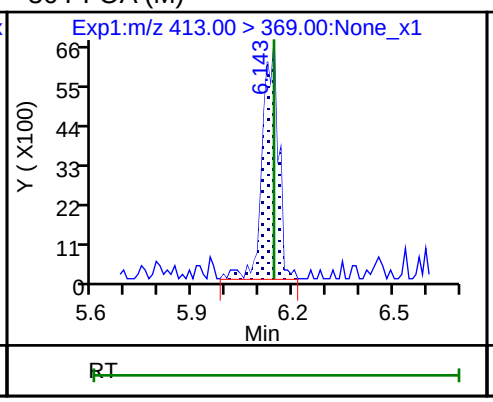
* 34 13C4 PFOA



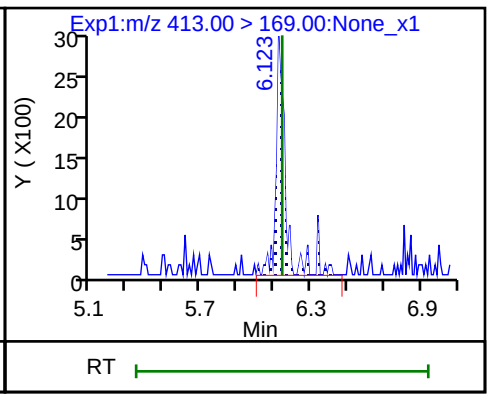
D 35 13C8 PFOA



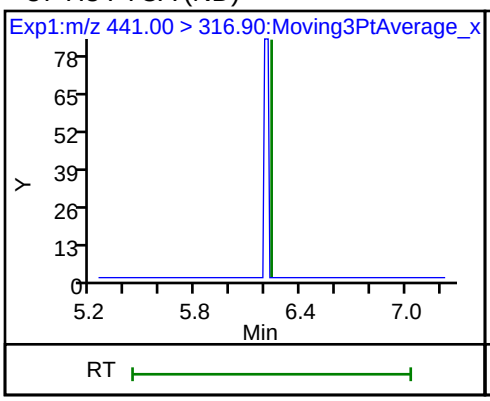
36 PFOA (M)



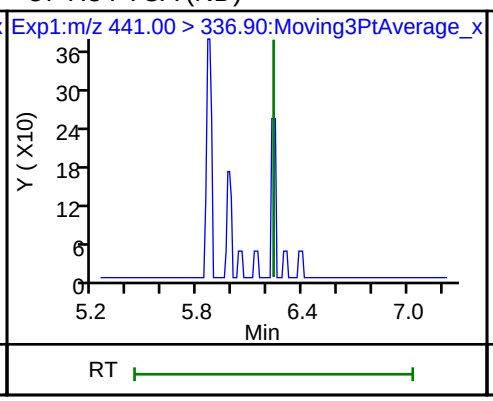
36 PFOA



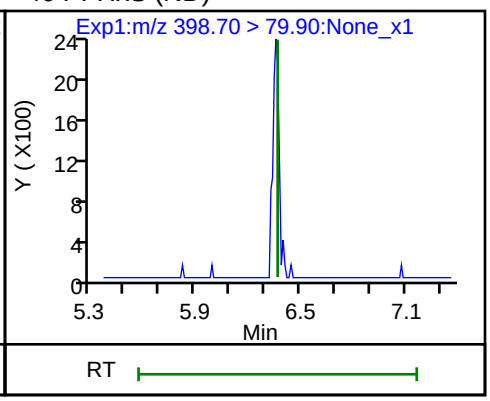
37 7:3 FTCA (ND)



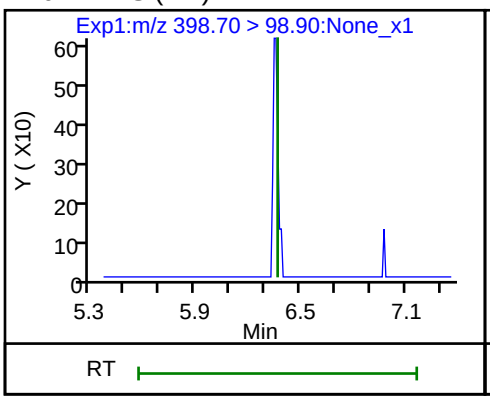
37 7:3 FTCA (ND)



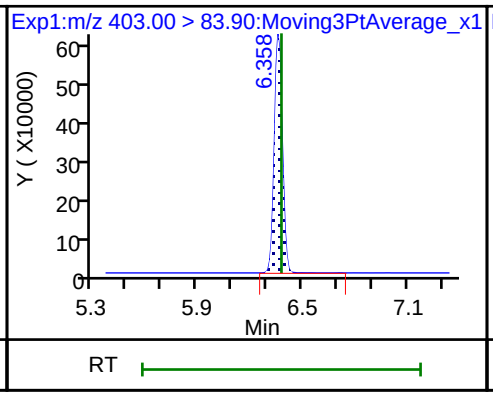
40 PFHxS (ND)



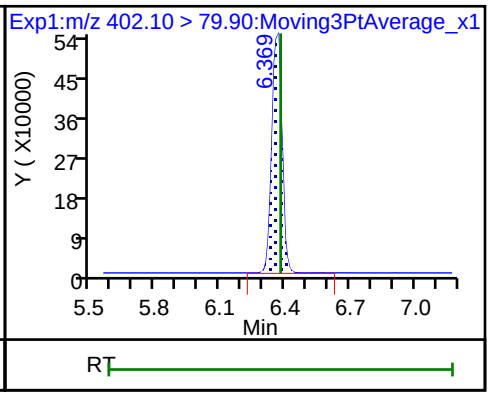
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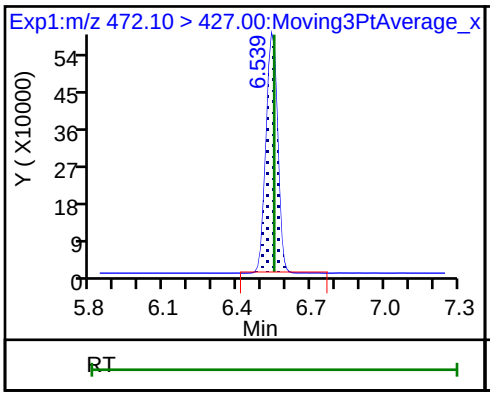
* 39 18O2 PFHxS



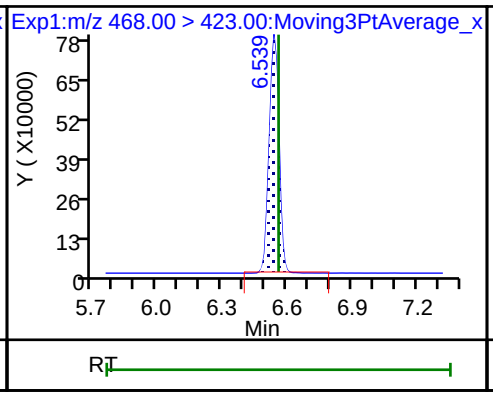
D 38 13C3 PFHxS



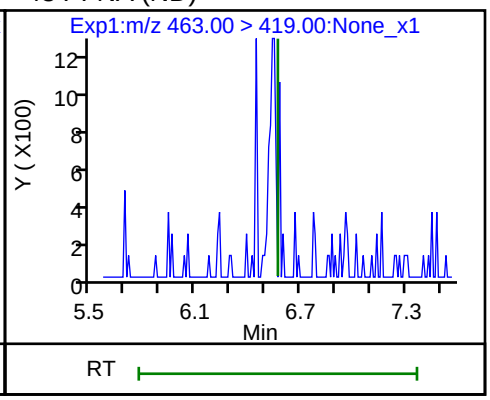
D 41 13C9 PFNA



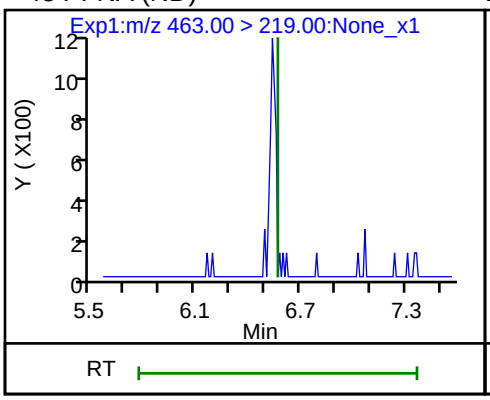
* 42 13C5 PFNA



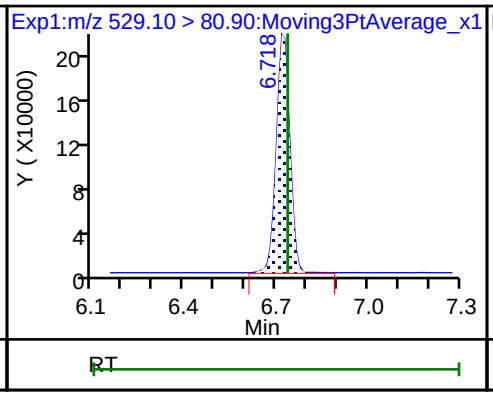
43 PFNA (ND)



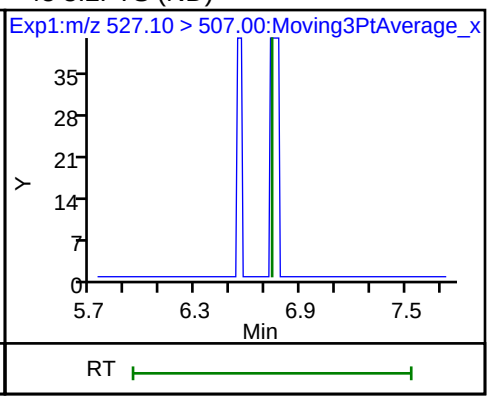
43 PFNA (ND)



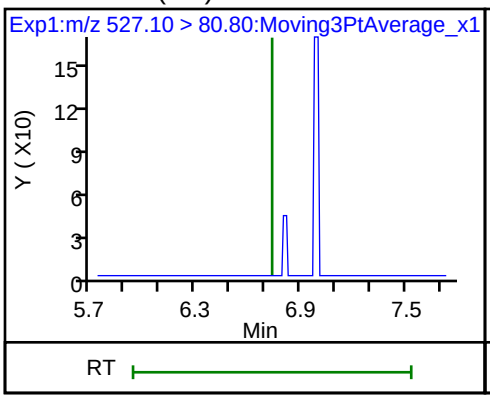
D 44 13C2-8:2FTS



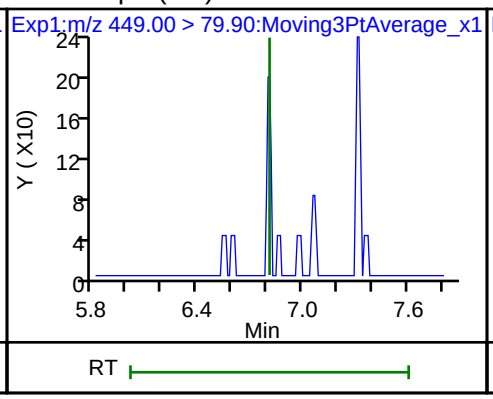
45 8:2FTS (ND)



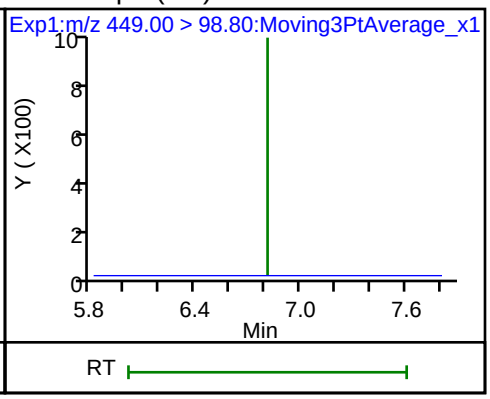
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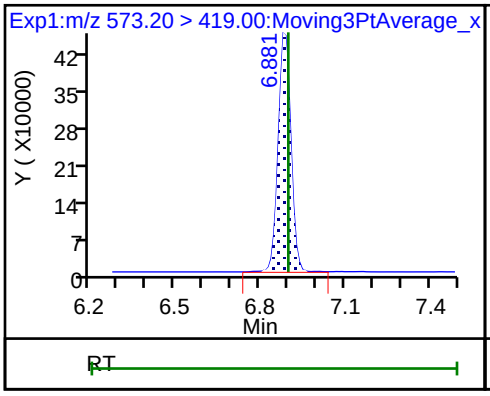
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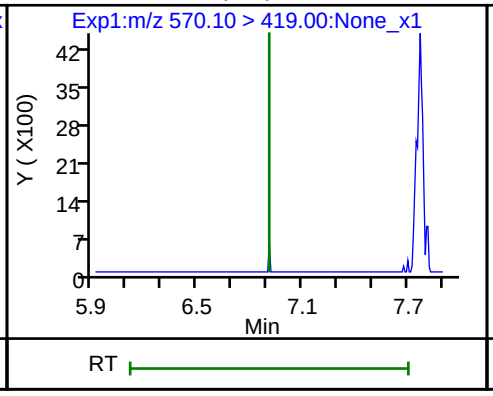
47 PFHpS (ND)



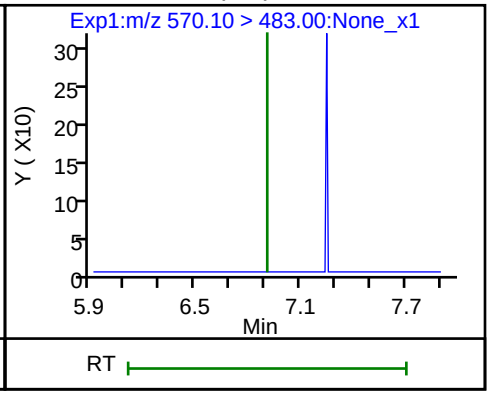
D 49 d3-NMeFOSAA



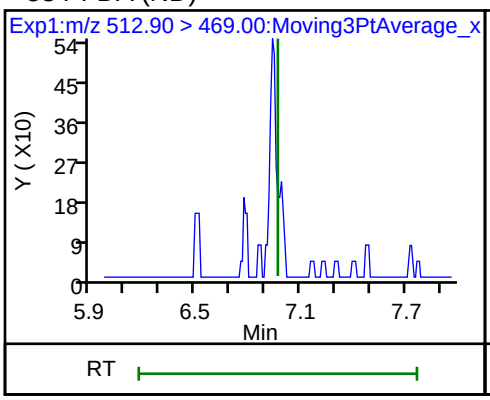
50 NMeFOSAA (ND)



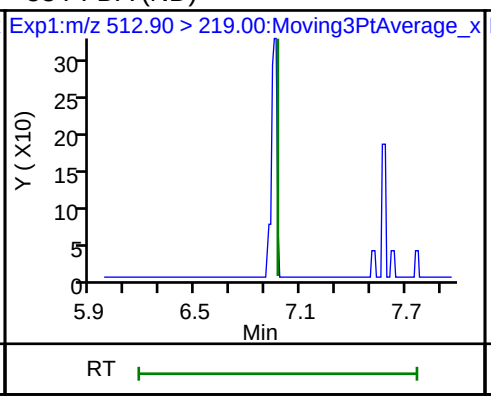
50 NMeFOSAA (ND)



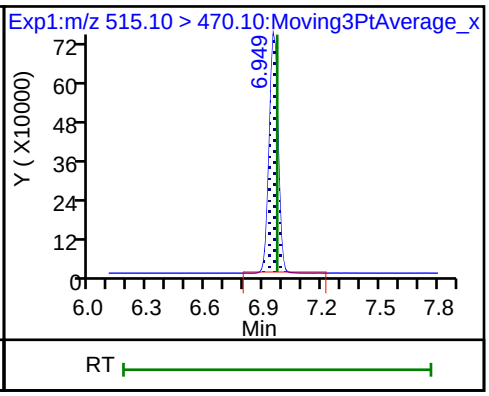
53 PFDA (ND)



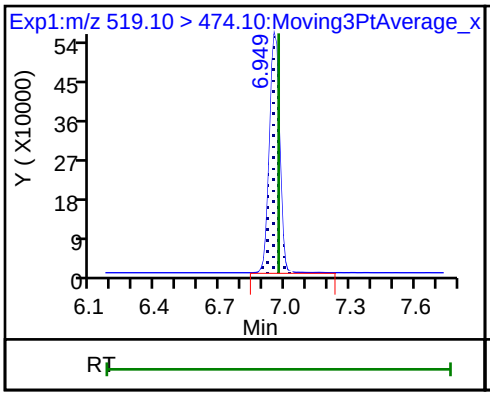
53 PFDA (ND)



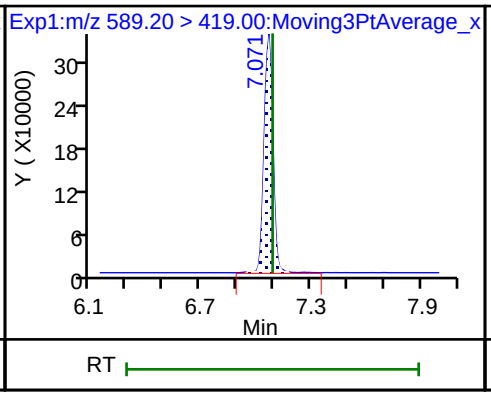
* 51 13C2 PFDA



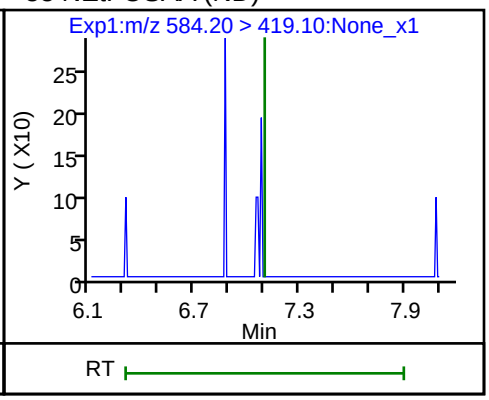
D 52 13C6 PFDA



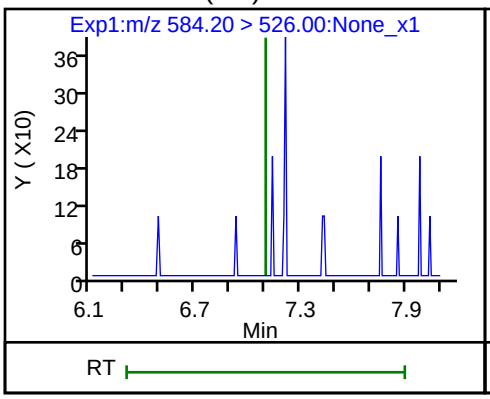
D 54 d5-NEtFOSAA



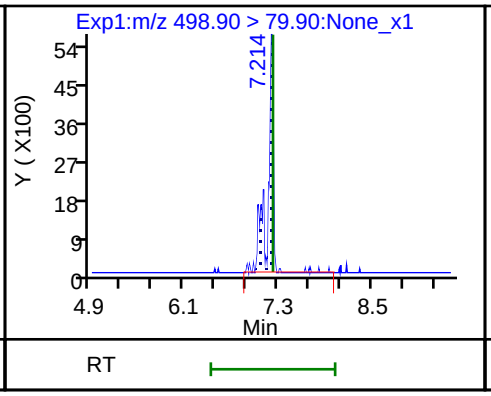
55 NEtFOSAA (ND)



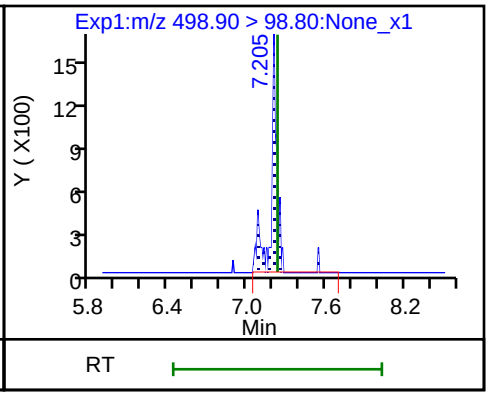
55 NEtFOSAA (ND)



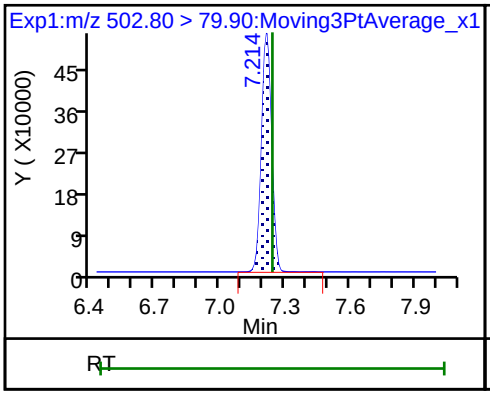
58 PFOS



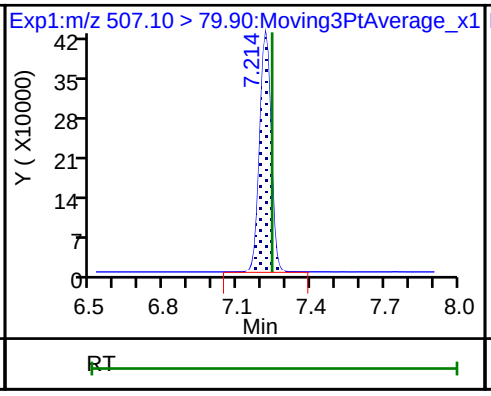
58 PFOS



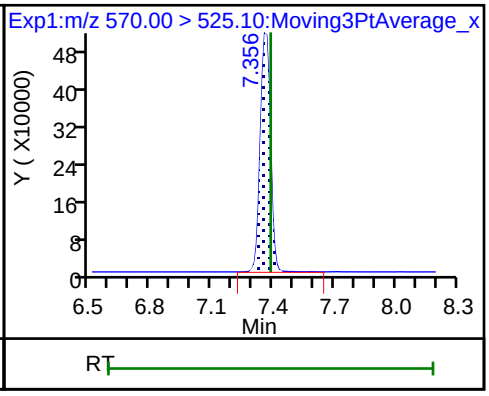
* 57 13C4 PFOS



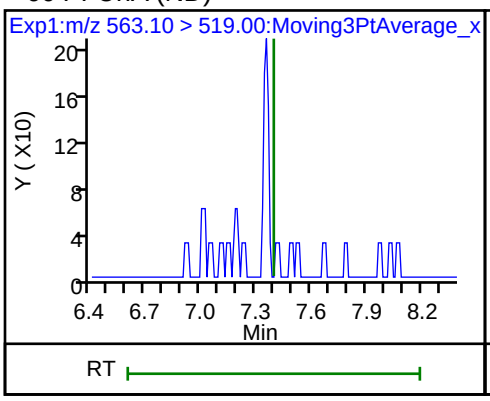
D 56 13C8 PFOS



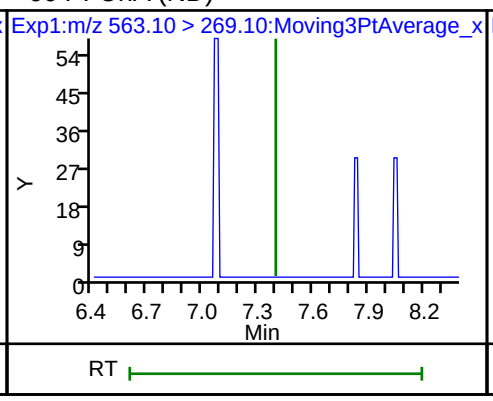
D 59 13C7 PFUnA



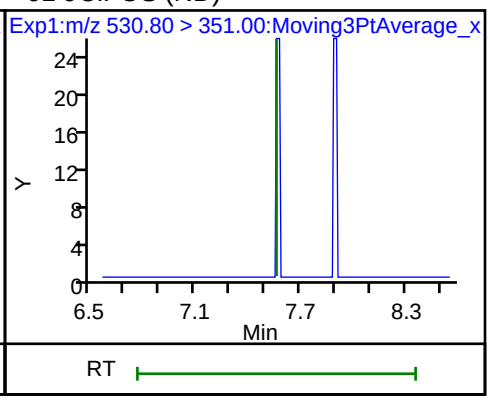
60 PFUnA (ND)



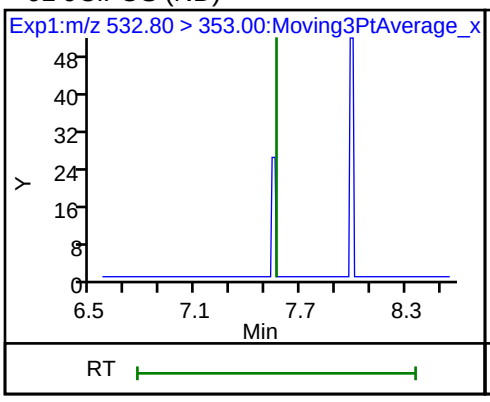
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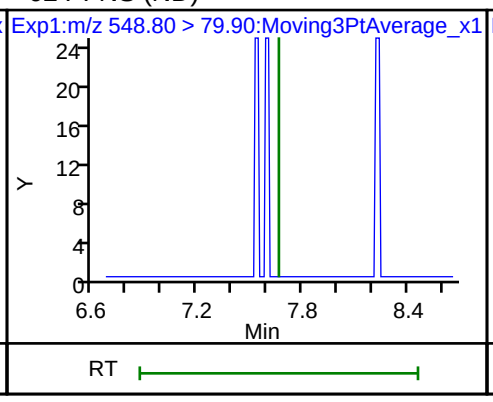
61 9ClFOS (ND)



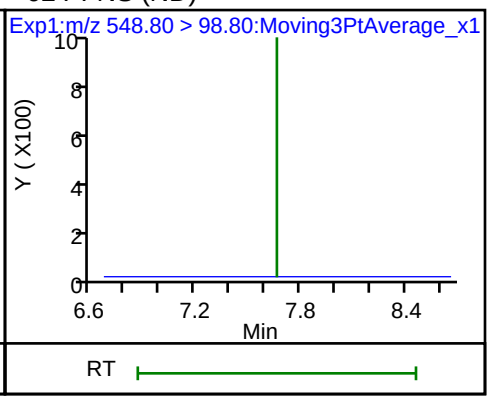
61 9ClFOS (ND)



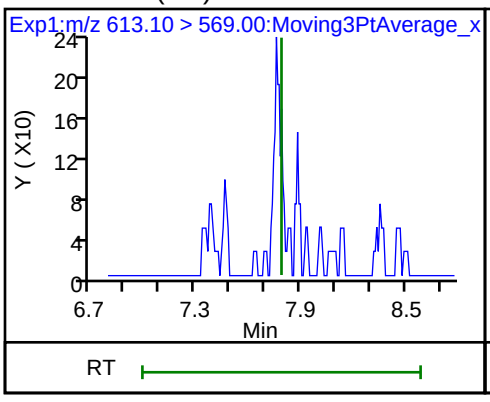
62 PFNS (ND)



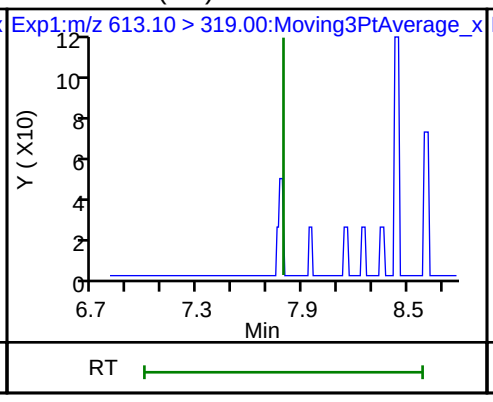
62 PFNS (ND)



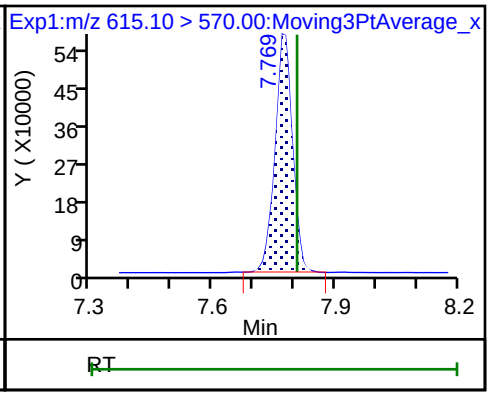
63 PFDoA (ND)



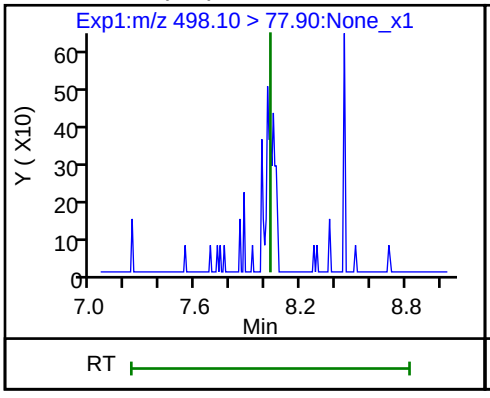
63 PFDoA (ND)



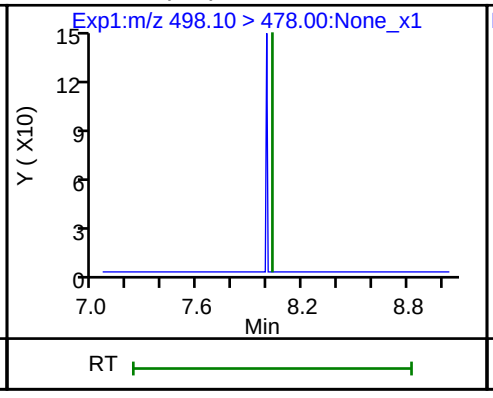
D 81 PFDoA



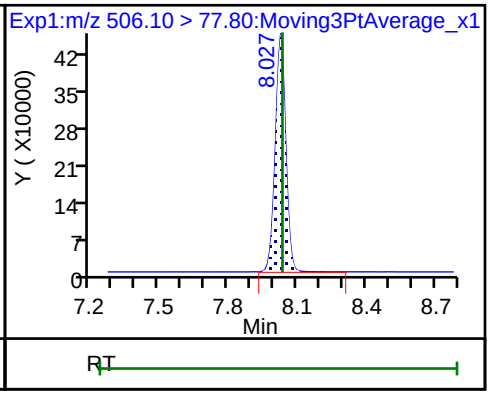
64 PFOSA (ND)



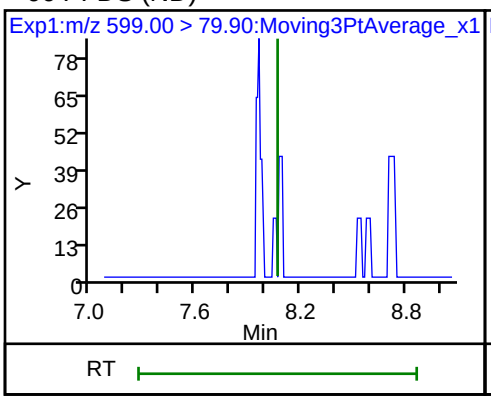
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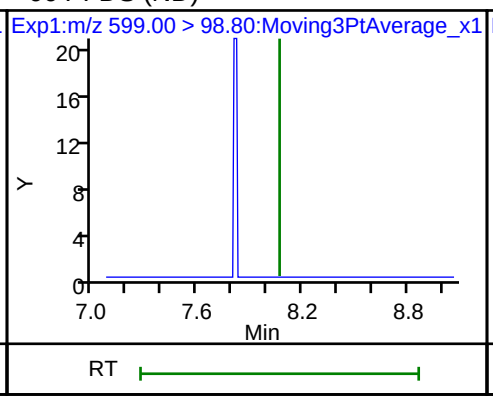
D 65 13C8 FOSA



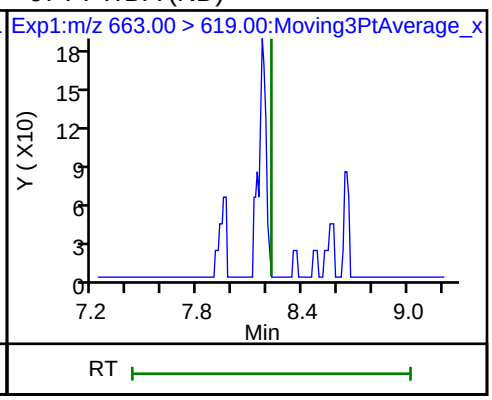
66 PFDS (ND)



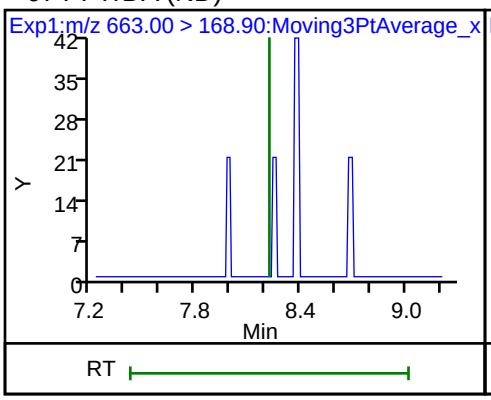
66 PFDS (ND)



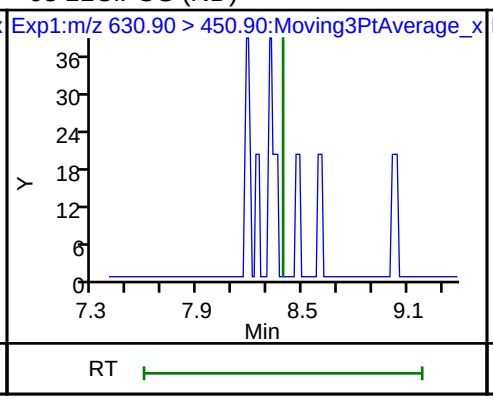
67 PFTrDA (ND)



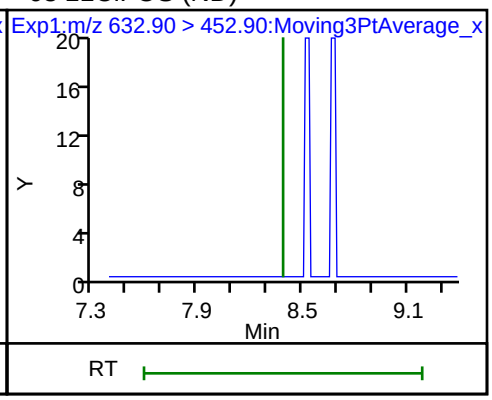
67 PFTrDA (ND)



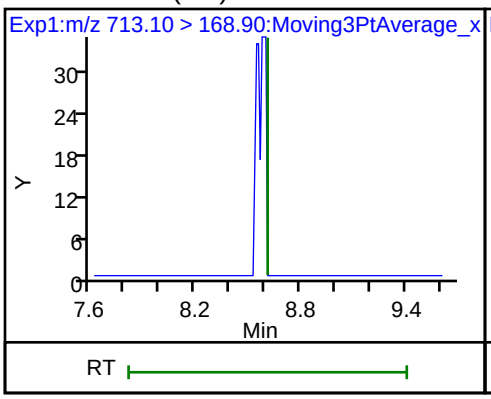
68 11ClFOS (ND)



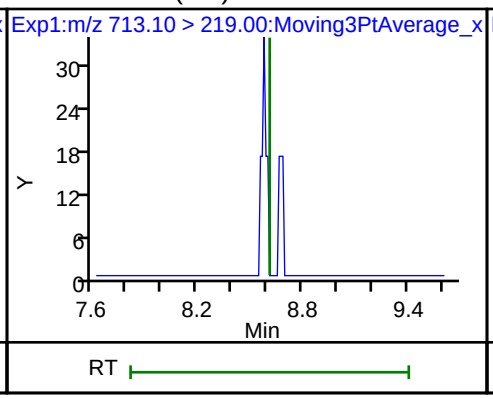
68 11ClFOS (ND)



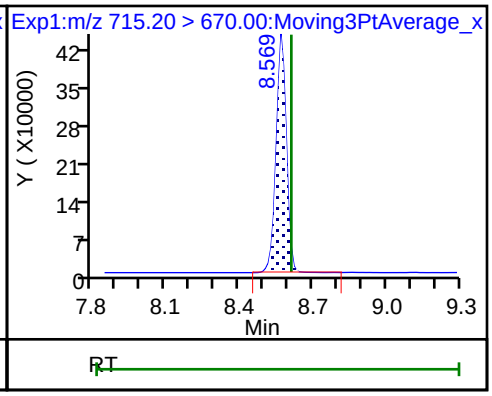
69 PFTeDA (ND)



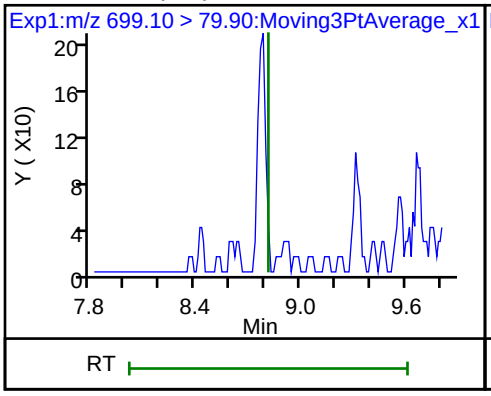
69 PFTeDA (ND)



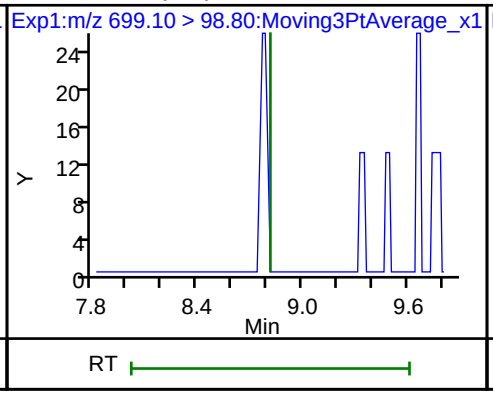
D 70 13C2 PFTeDA



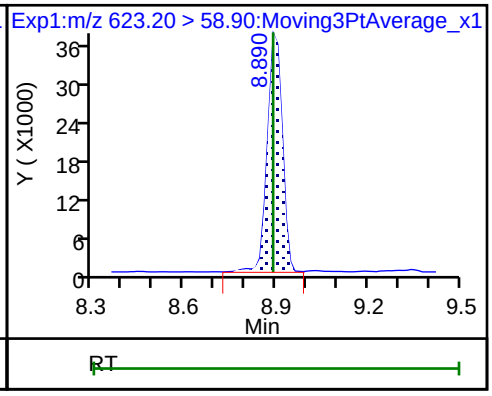
71 PFDoS (ND)



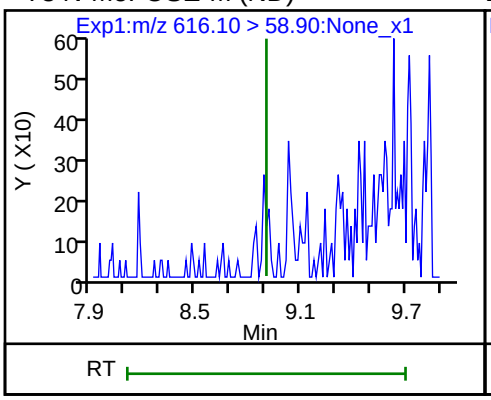
71 PFDoS (ND)



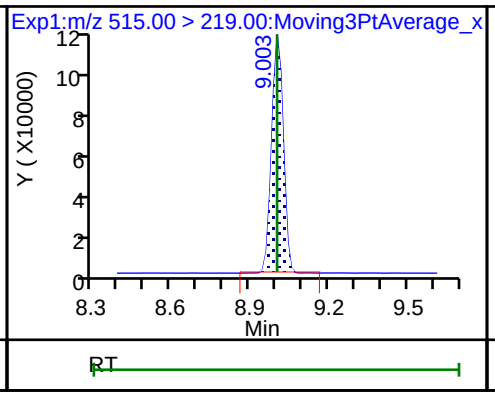
D 72 d7-N-Me-FOSE



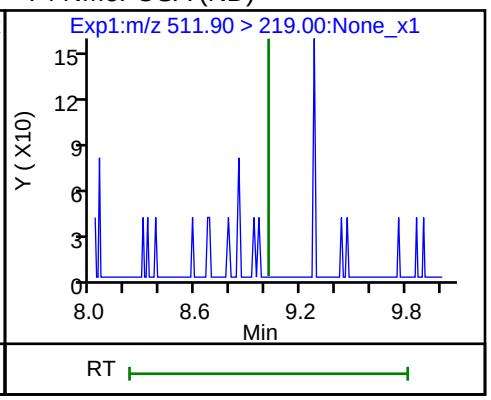
73 N-MeFOSE-M (ND)



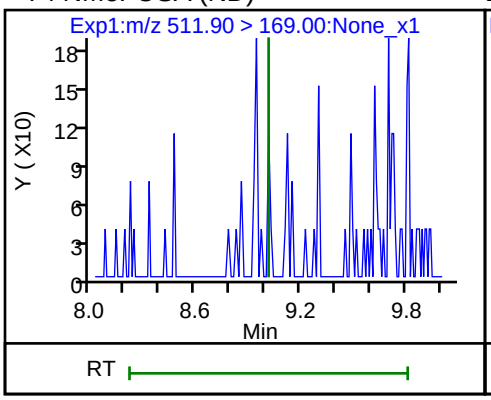
D 75 d3-NMePFOSA



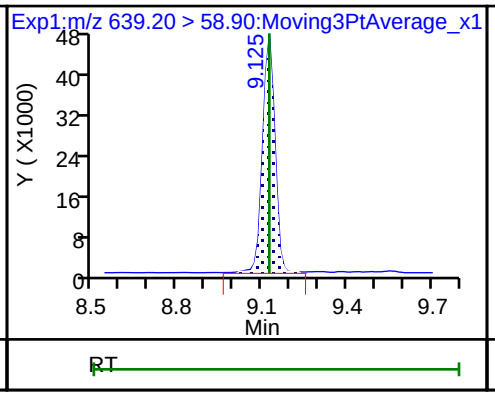
74 NMeFOSA (ND)



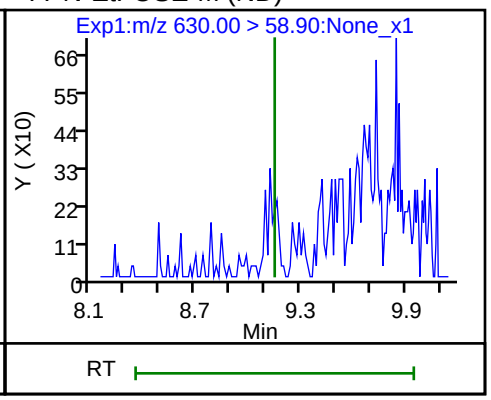
74 NMeFOSA (ND)



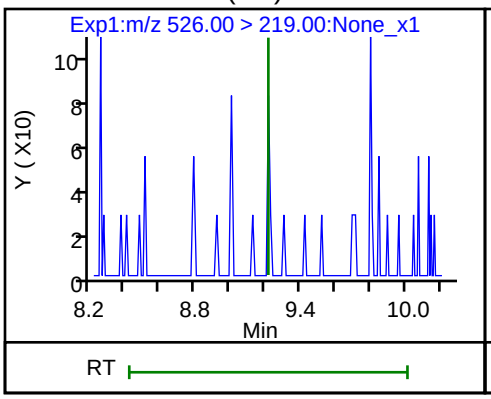
D 76 d9-N-EtFOSE



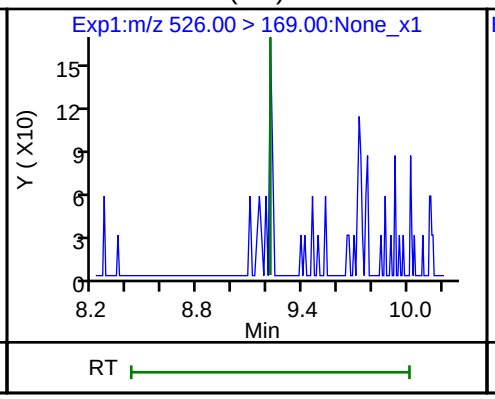
77 N-EtFOSE-M (ND)



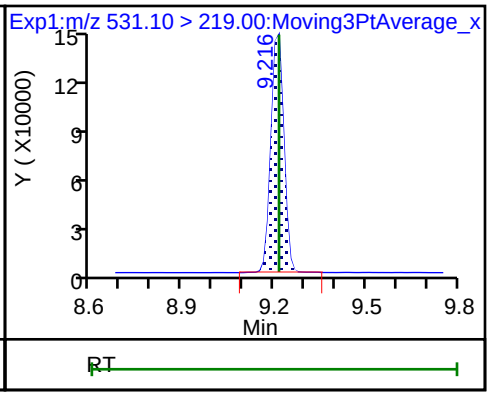
79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



D 78 d5-NEtPFOSA



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

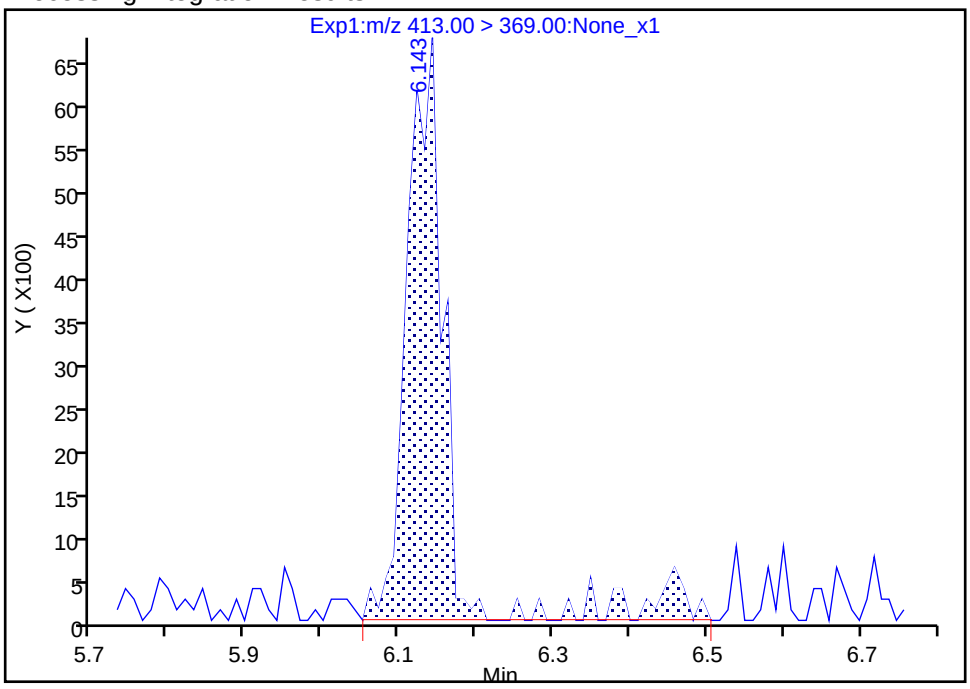
Data File:	\\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-35.d				
Injection Date:	05-Feb-2026 21:40:01	Instrument ID:	30577		
Lims ID:	460-344047-A-5-B	Lab Sample ID:	410-344047-5		
Client ID:	RXSB-17 (6-8)_P				
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	20	Worklist Smp#:	139
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 1

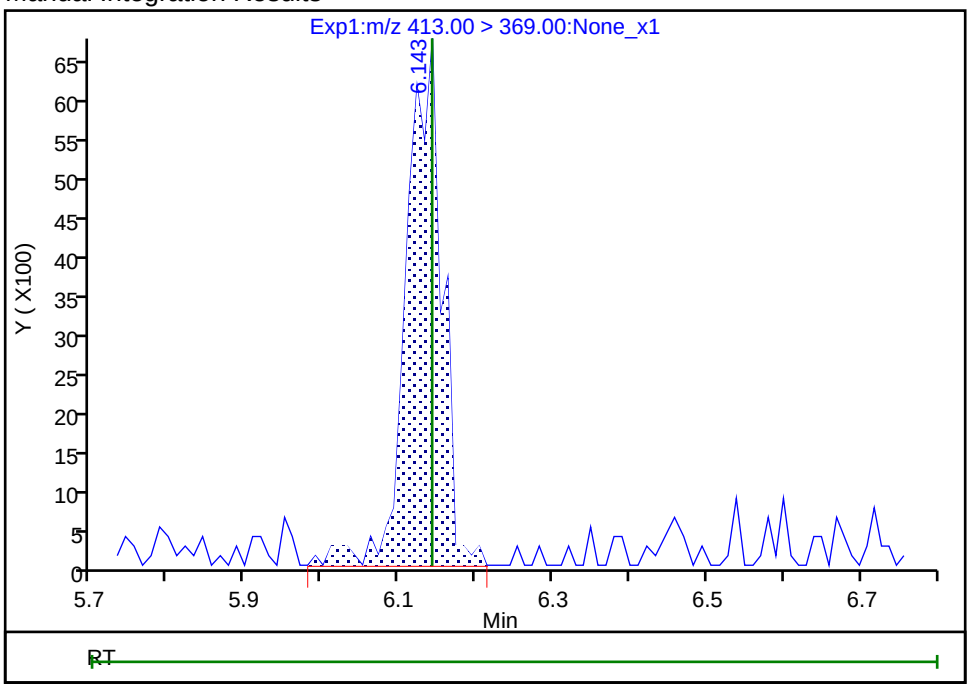
Processing Integration Results

RT: 6.14
Area: 23506
Amount: 0.028896
Amount Units: ng/ml



Manual Integration Results

RT: 6.14
Area: 21545
Amount: 0.026485
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:52:40 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: DUP_012926
Lab Sample ID: 460-344047-6

Matrix: Solid
Lab File ID: 26FEB05JO-36.d

Analysis Method: 1633A
Date Collected: 01/29/2026 11:00

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 1.09(g)
Date Analyzed: 02/05/2026 21:53

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 6.9 % Solids: 93.1
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.79	U	0.79	0.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.39	U	0.39	0.20
307-24-4	Perfluorohexanoic acid (PFHxA)	0.39	U	0.39	0.20
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.39	U	0.39	0.20
335-67-1	Perfluorooctanoic acid (PFOA)	0.39	U	0.39	0.12
375-95-1	Perfluorononanoic acid (PFNA)	0.39	U	0.39	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.39	U	0.39	0.12
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.39	U	0.39	0.20
307-55-1	Perfluorododecanoic acid (PFDoA)	0.39	U	0.39	0.20
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.39	U	0.39	0.20
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.39	U	0.39	0.20
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.39	U	0.39	0.20
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.39	U	0.39	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.39	U	0.39	0.20
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.39	U	0.39	0.20
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.33	J	0.39	0.20
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.39	U	0.39	0.20
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.39	U	0.39	0.20
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.39	U	0.39	0.20
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.79	U	0.79	0.39
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.79	U	0.79	0.39
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.79	U	0.79	0.39
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.39	U	0.39	0.20
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.39	U	0.39	0.20
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.39	U	0.39	0.20

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: DUP_012926
Lab Sample ID: 460-344047-6

Matrix: Solid
Lab File ID: 26FEB05JO-36.d

Analysis Method: 1633A
Date Collected: 01/29/2026 11:00

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 1.09(g)
Date Analyzed: 02/05/2026 21:53

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 6.9 % Solids: 93.1
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.39	U	0.39	0.20
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.39	U	0.39	0.20
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.97	U	1.97	0.99
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.97	U	1.97	0.99
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.39	U	0.39	0.20
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.39	U	0.39	0.20
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.39	U	0.39	0.20
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.39	U	0.39	0.20
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.39	U	0.39	0.20
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.39	U	0.39	0.20
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.39	U	0.39	0.20
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.39	U	0.39	0.20
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.79	U	0.79	0.39
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.97	U	1.97	0.99
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.97	U	1.97	0.99

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: DUP_012926 Lab Sample ID: 460-344047-6

Matrix: Solid Lab File ID: 26FEB05JO-36.d

Analysis Method: 1633A Date Collected: 01/29/2026 11:00

Extraction Method: 1633A Date Extracted: 02/05/2026 10:14

Sample wt/vol: 1.09(g) Date Analyzed: 02/05/2026 21:53

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 6.9 % Solids: 93.1 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 765196 Units: ug/Kg

Preparation Batch No.: 765112 Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	87.3		8-130
2283397-79-3	13C5 PFPeA	85.2		35-130
2328024-54-8	13C5 PFHxA	80.1		40-130
2328024-55-9	13C4 PFHpA	82.1		40-130
1350614-84-4	13C8 PFOA	93.2		40-130
2283397-80-6	13C9 PFNA	78.5		40-130
2328024-56-0	13C6 PFDA	72.8		40-130
STL02580	13C7 PFUnA	78.1		40-130
STL02116	13C2 PFTeDA	58.8		20-130
2708218-83-9	13C3 PFBS	79.2		40-135
2708218-85-1	13C3 PFHxS	81.7		40-130
2265893-05-6	13C8 PFOS	76.3		40-130
STL01056	13C8 FOSA	66.8		40-130
1400690-70-1	d3-NMeFOSAA	59.4		40-135
1265205-97-7	d5-NEtFOSAA	59.6		40-150
STL02395	13C2 4:2 FTS	104		40-165
STL02279	13C2 6:2 FTS	91.4		40-215
STL02280	13C2 8:2 FTS	65.1		40-275
STL02255	13C3 HFPO-DA	75.2		40-130
STL02277	d7-N-MeFOSE-M	28.9		20-130
STL02278	d9-N-EtFOSE-M	26.8		15-130
STL02704	d5-NEtPFOSA	51.9		10-130
STL02705	d3-NMePFOSA	52.9		10-130
960315-52-0	13C2 PFDoA	66.2		40-130

Report Date: 05-Feb-2026 22:56:51 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-36.d
Lims ID: 460-344047-A-6-B
Client ID: DUP_012926
Sample Type: Client
Inject. Date: 05-Feb-2026 21:53:36 ALS Bottle#: 21 Worklist Smp#: 140
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 460-344047-A-6-B
Misc. Info.: Plate: 1 Rack: 1 410-0174796-140
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:53:23
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 4 13C4-PFBA										
216.80 > 171.90	4.194	4.187	0.007	1.000	1947277	1.75		87.3	11766	
* 5 13C3PFBA										
216.00 > 172.00	4.194	4.187	0.007		2172876	2.00			5212	
D 8 13C5 PFPeA										
268.30 > 223.00	4.844	4.844	0.0	0.915	1870667	1.70		85.2	4758	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.111	5.121	-0.010	0.804	1263451	4.87		104	1971	
D 15 13C5 PFHxA										
318.00 > 273.00	5.292	5.303	-0.011	1.000	2139621	1.60		80.1	4524	
* 16 13C2 PFHxA										
315.10 > 270.00	5.292	5.303	-0.011		6299857	5.00			6665	
D 19 13C3 PFBS										
302.10 > 79.90	5.437	5.437	0.0	0.855	2054691	1.48		79.2	9079	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.476	5.486	-0.010	1.035	1366465	1.50		75.2	6142	
D 28 13C4 PFHpA										
367.10 > 322.00	5.722	5.732	-0.010	1.081	2140333	1.64		82.1	5881	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.919	5.930	-0.011	0.931	954327	4.35		91.4	3052	
* 34 13C4 PFOA										
417.10 > 372.00	6.123	6.143	-0.020		8162204	5.00			5702	
D 35 13C8 PFOA										
421.10 > 376.00	6.123	6.143	-0.020	1.000	3098292	1.86		93.2	11334	
* 39 18O2 PFHxS										
403.00 > 83.90	6.358	6.379	-0.021		2072894	1.90			6075	
D 38 13C3 PFHxS										
402.10 > 79.90	6.358	6.379	-0.021	1.000	1823305	1.55		81.7	4645	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 41 13C9 PFNA										
472.10 > 427.00	6.537	6.549	-0.012	1.000	2108435	1.57		78.5	3841	
* 42 13C5 PFNA										
468.00 > 423.00	6.537	6.560	-0.023		2595951	2.00			4698	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.726	6.737	-0.011	1.058	708060	3.13		65.1	3137	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.880	6.899	-0.019	0.954	1362078	2.97		59.4	1276	
* 51 13C2 PFDA										
515.10 > 470.10	6.948	6.970	-0.022		2542928	2.00			6168	
D 52 13C6 PFDA										
519.10 > 474.10	6.948	6.970	-0.022	1.000	1823751	1.46		72.8	4905	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.070	7.090	-0.020	0.980	1180208	2.98		59.6	1539	
58 PFOS										
498.90 > 79.90	7.213	7.232	-0.019	1.000	67882	0.0664	Target=4.60		120	
498.90 > 98.80	7.231	7.232	-0.001	1.003	13858		4.90(2.30-6.91)		24.7	
* 57 13C4 PFOS										
502.80 > 79.90	7.213	7.241	-0.028		1703626	1.92			8509	
D 56 13C8 PFOS										
507.10 > 79.90	7.213	7.241	-0.028	1.000	1445943	1.46		76.3	5836	
D 59 13C7 PFUnA										
570.00 > 525.10	7.367	7.387	-0.021	1.060	1951622	1.56		78.1	5746	
D 81 PFDoA										
615.10 > 570.00	7.777	7.806	-0.029	1.119	1590463	1.32		66.2	3806	
D 65 13C8 FOSA										
506.10 > 77.80	8.035	8.035	0.0	1.114	1363092	1.34		66.8	2891	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.568	8.611	-0.043	1.233	1269606	1.18		58.8	3275	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.904	8.889	0.015	1.234	118518	1.45		28.9	261	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.002	9.002	0.0	1.248	342358	1.06		52.9	3758	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.125	9.125	0.0	1.265	118259	1.34		26.8	321	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.215	9.215	0.0	1.278	432071	1.04		51.9	3449	

QC Flag Legend

Processing Flags

Reagents:

1633_125_IS_V_00591 Amount Added: 50.00 Units: uL

Report Date: 05-Feb-2026 22:56:51 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-36.d

Injection Date: 05-Feb-2026 21:53:36 Instrument ID: 30577

Lims ID: 460-344047-A-6-B Lab Sample ID: 410-344047-6

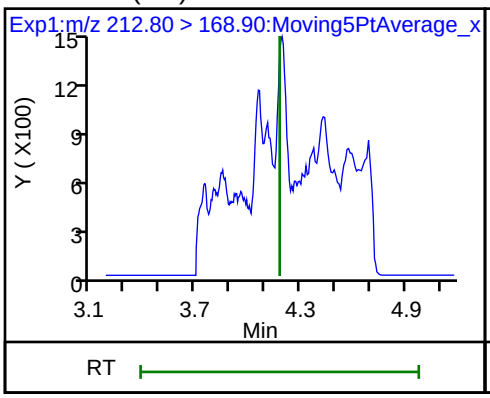
Client ID: DUP_012926

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 21 Worklist Smp#: 140

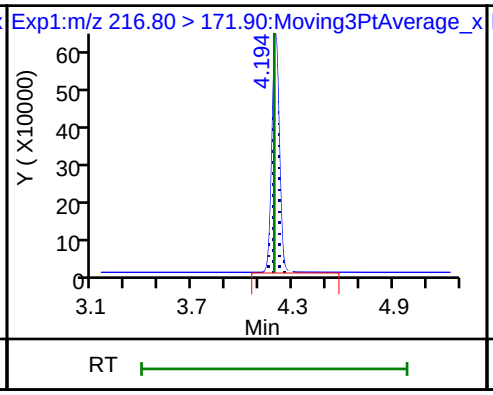
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

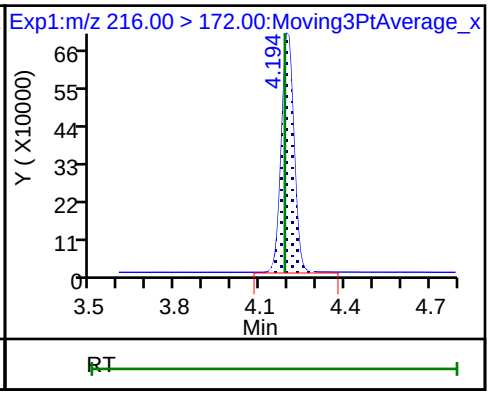
3 PFBA (ND)



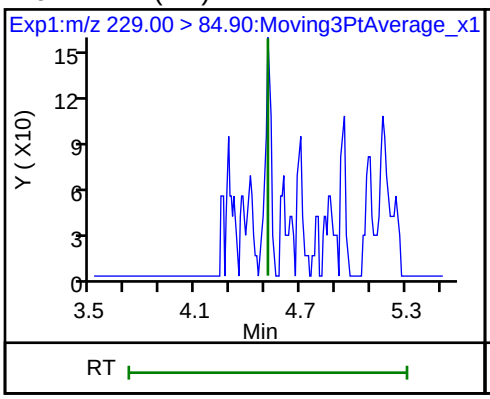
D 4 13C4-PFBA



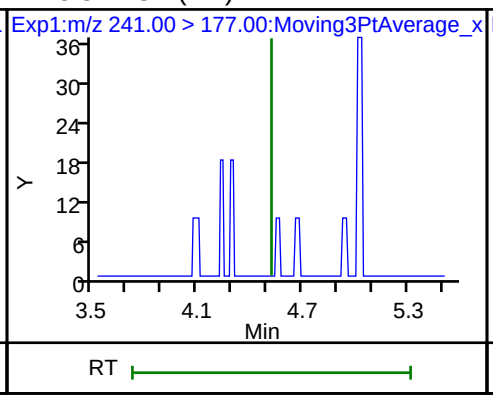
* 5 13C3PFBA



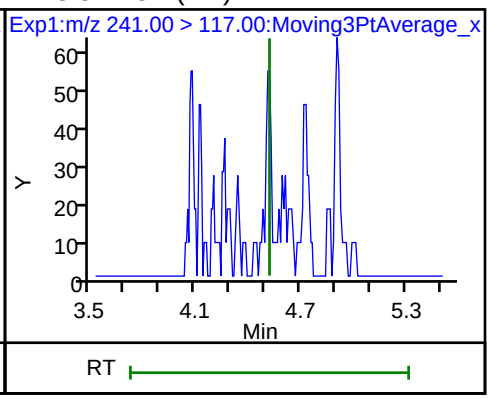
6 PFMPA (ND)



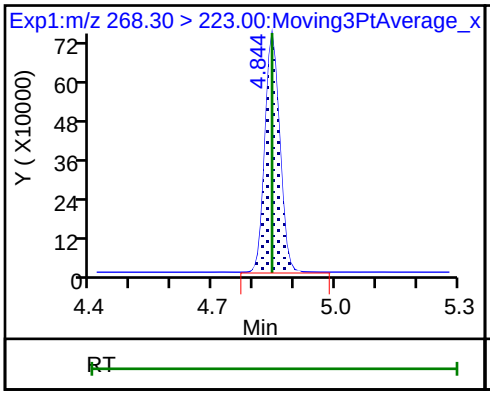
7 3:3 FTCA (ND)



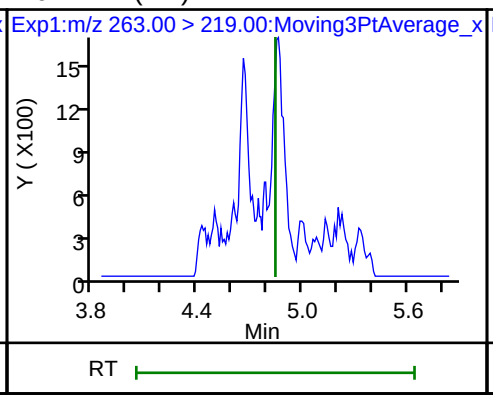
7 3:3 FTCA (ND)



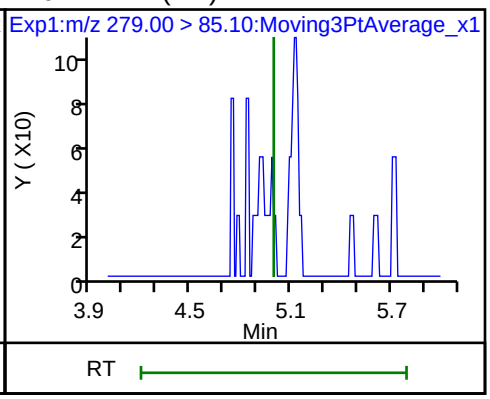
D 8 13C5 PFPeA



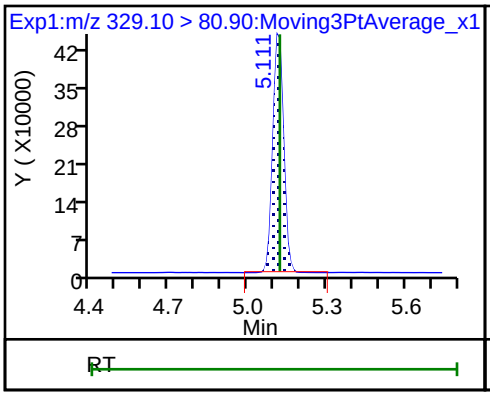
9 PFPA (ND)



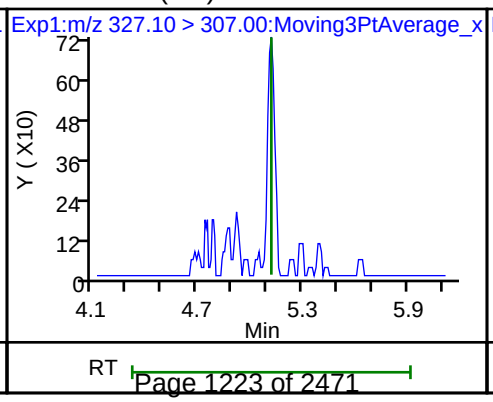
10 PFMBA (ND)



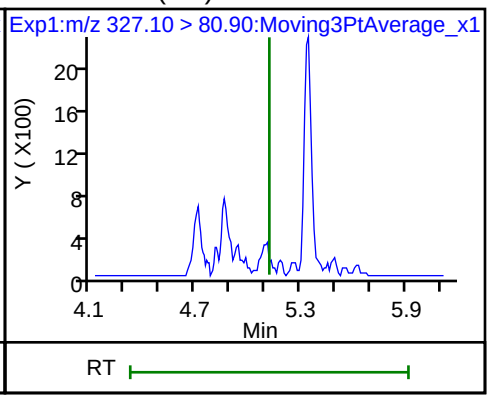
D 11 13C2-4:2FTS



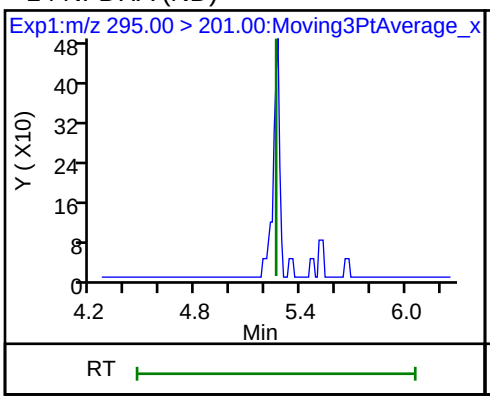
12 4:2FTS (ND)



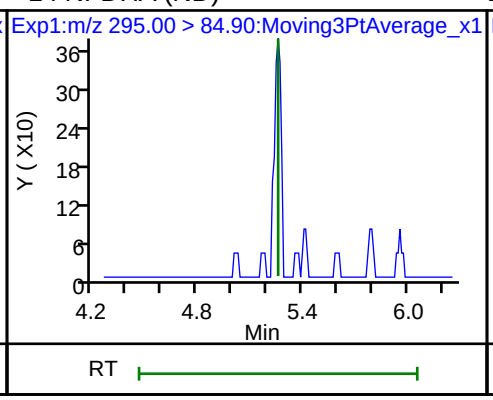
12 4:2FTS (ND)



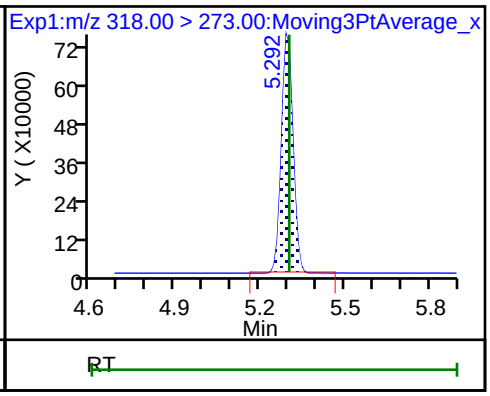
14 NFDHA (ND)



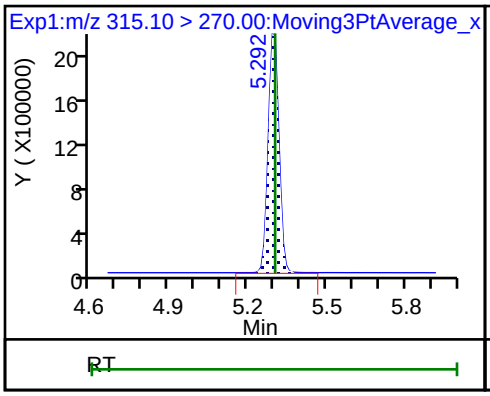
14 NFDHA (ND)



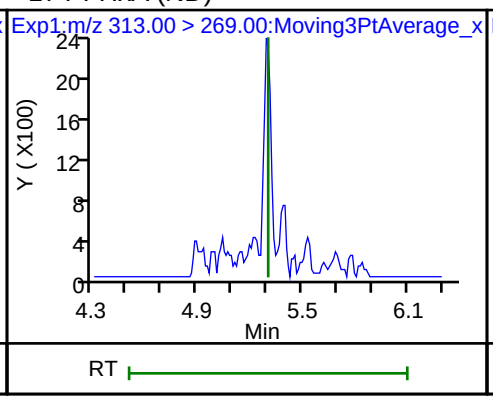
D 15 13C5 PFHxA



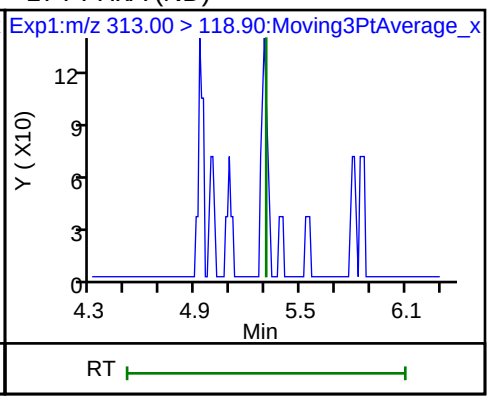
* 16 13C2 PFHxA



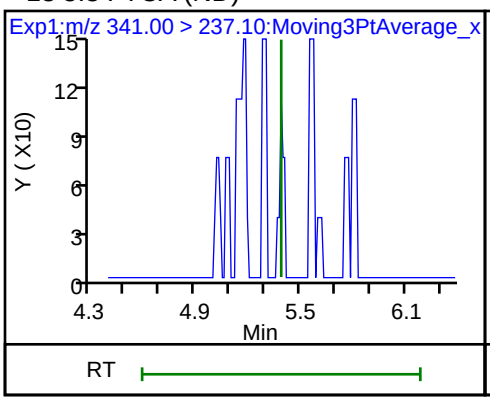
17 PFHxA (ND)



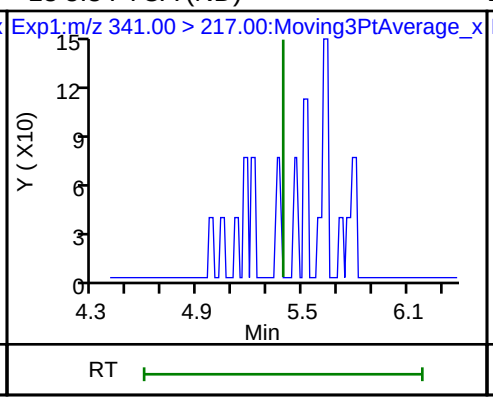
17 PFHxA (ND)



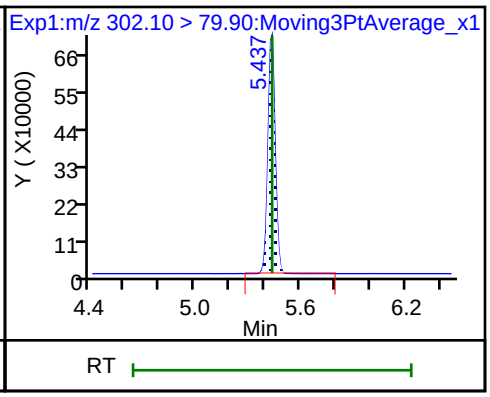
18 5:3 FTCA (ND)



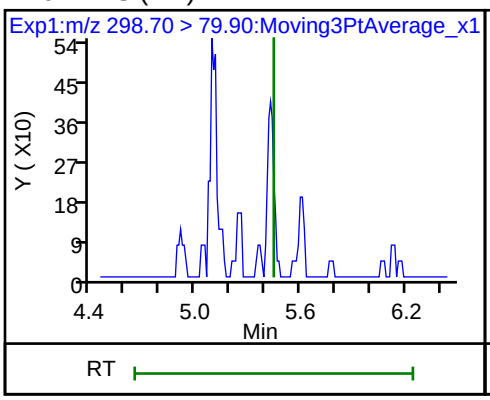
18 5:3 FTCA (ND)



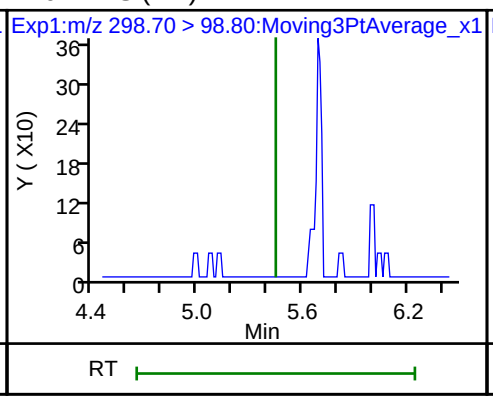
D 19 13C3 PFBS



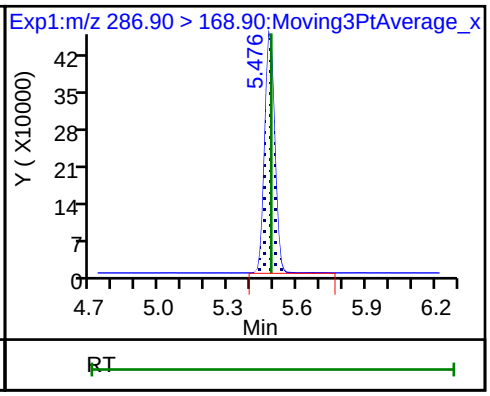
20 PFBS (ND)



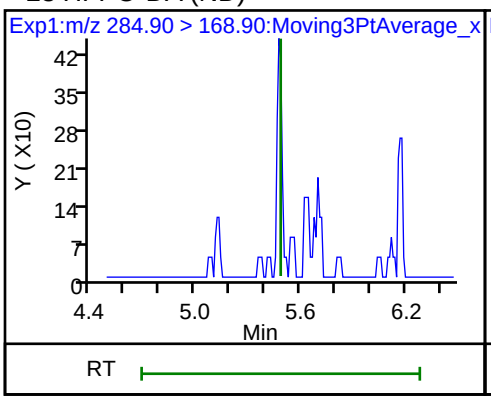
20 PFBS (ND)



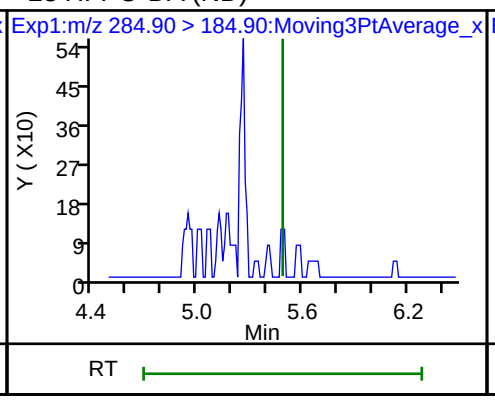
D 22 13C3 HFPO-DA



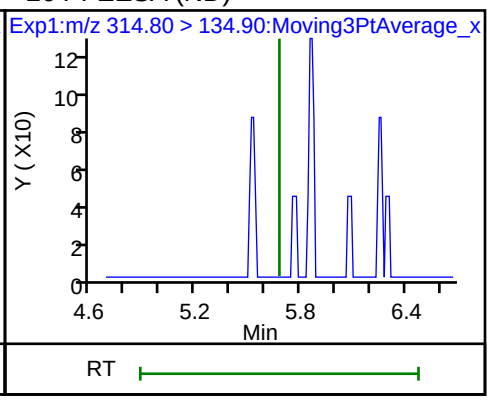
23 HFPO-DA (ND)



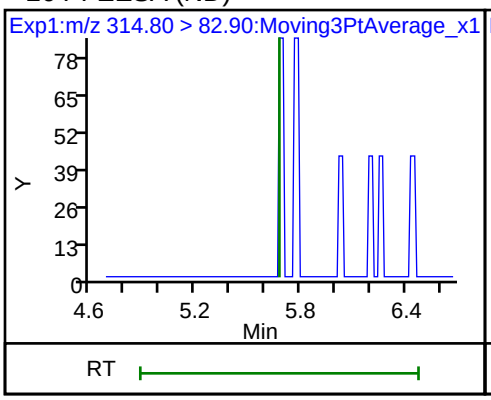
23 HFPO-DA (ND)



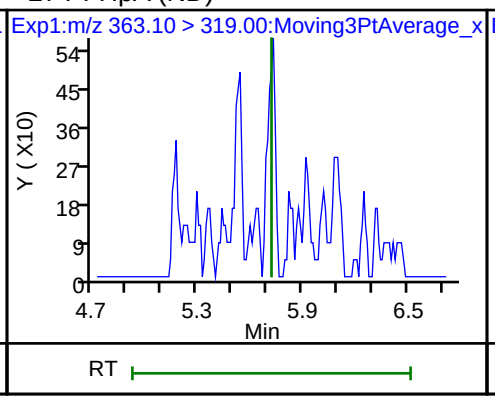
26 PFEESA (ND)



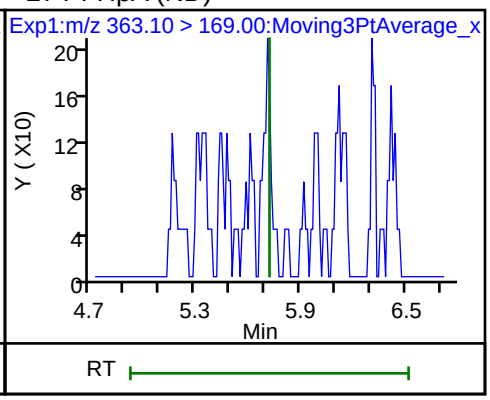
26 PFEESA (ND)



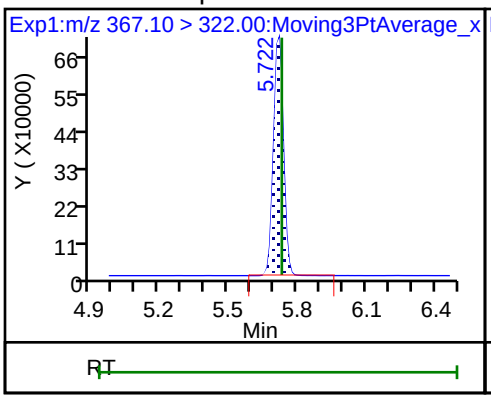
27 PFHpA (ND)



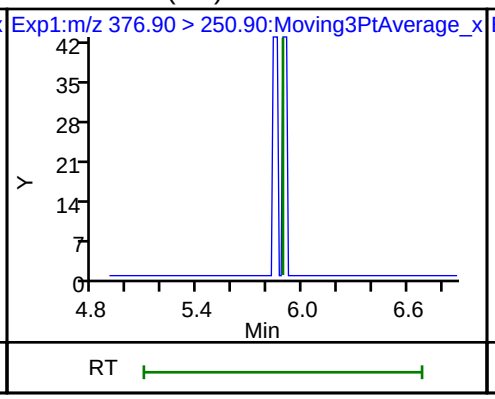
27 PFHpA (ND)



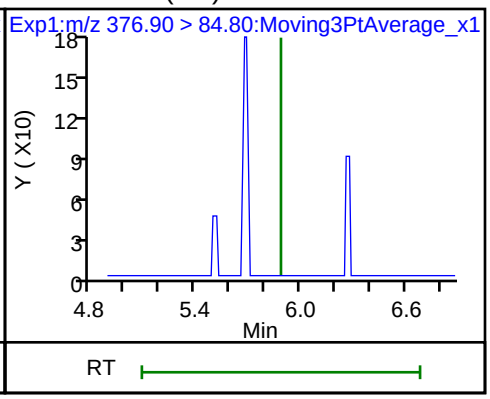
D 28 13C4 PFHpA



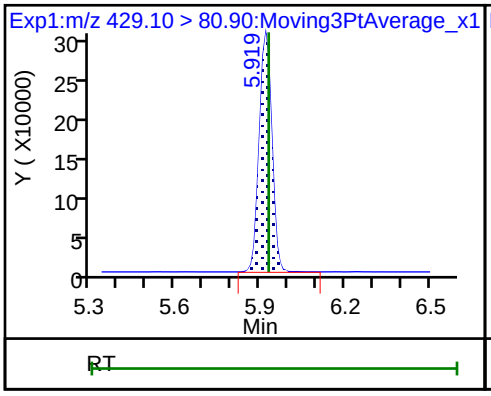
29 ADONA (ND)



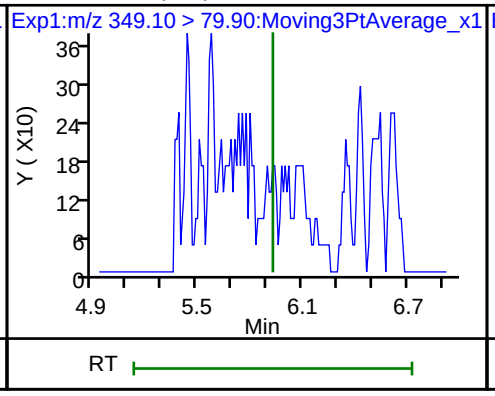
29 ADONA (ND)



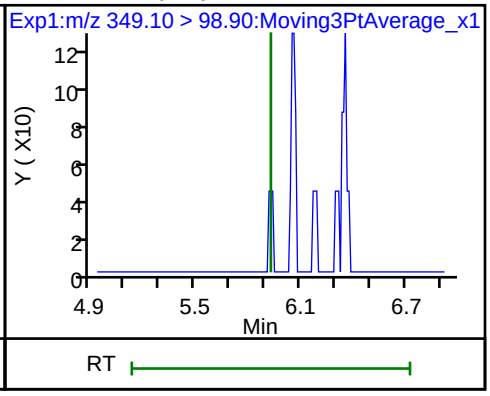
D 32 13C2-6:2FTS



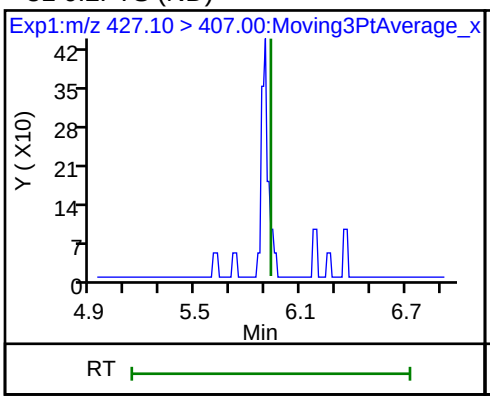
30 PFPeS (ND)



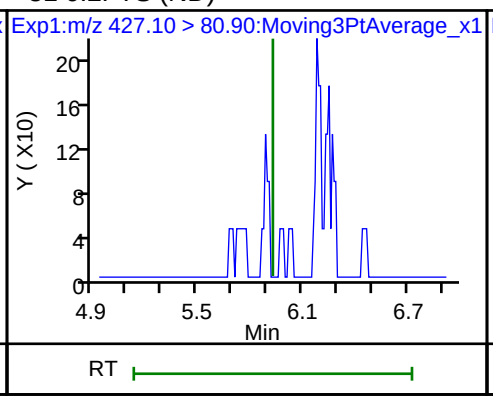
30 PFPeS (ND)



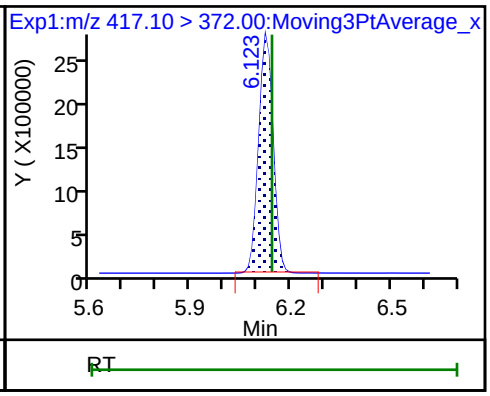
31 6:2FTS (ND)



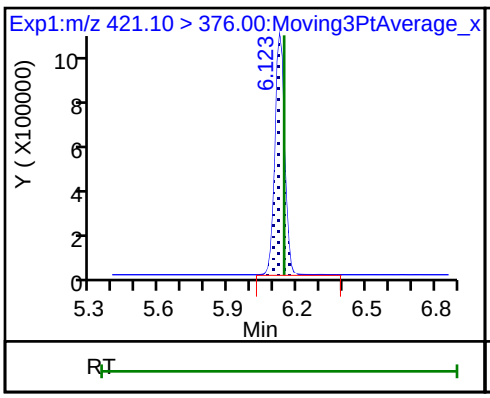
31 6:2FTS (ND)



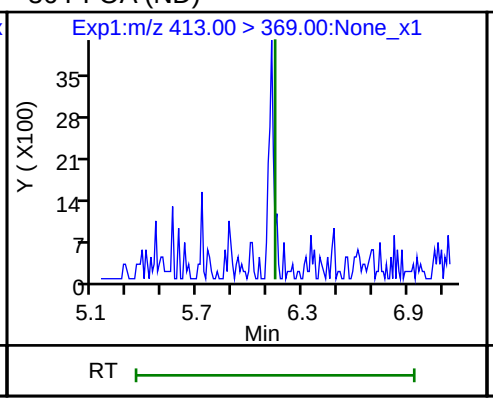
* 34 13C4 PFOA



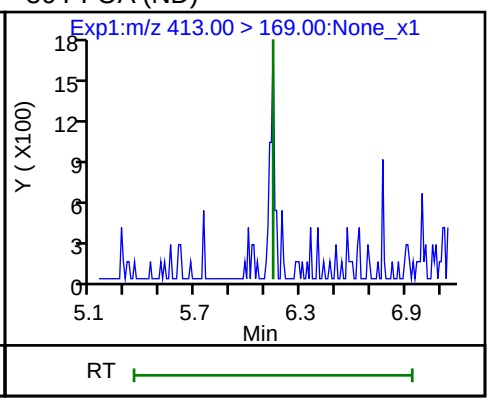
D 35 13C8 PFOA



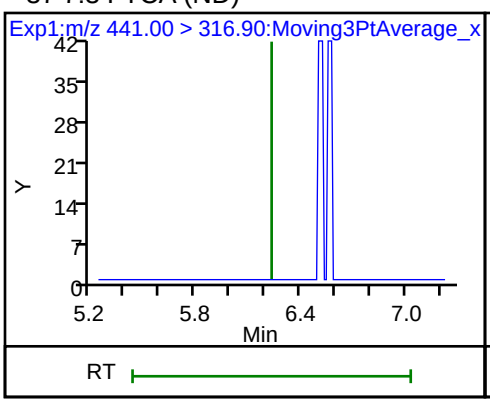
36 PFOA (ND)



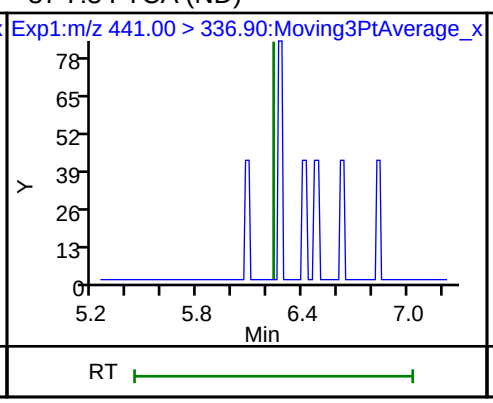
36 PFOA (ND)



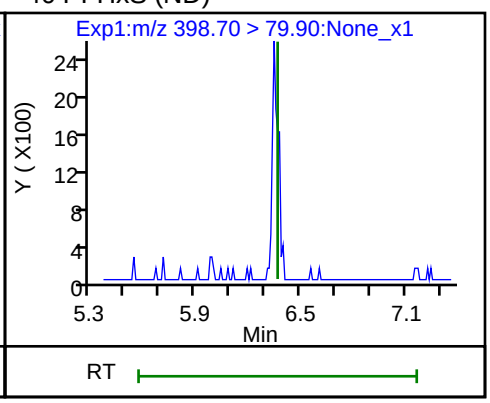
37 7:3 FTCA (ND)



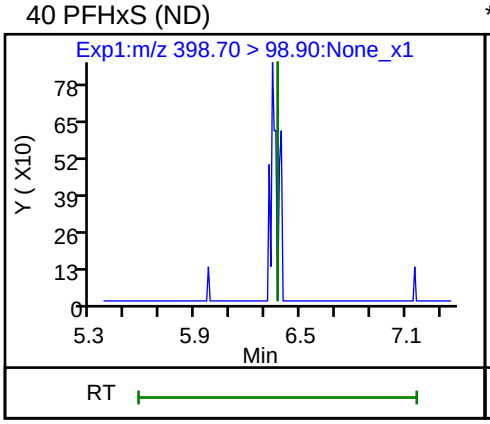
37 7:3 FTCA (ND)



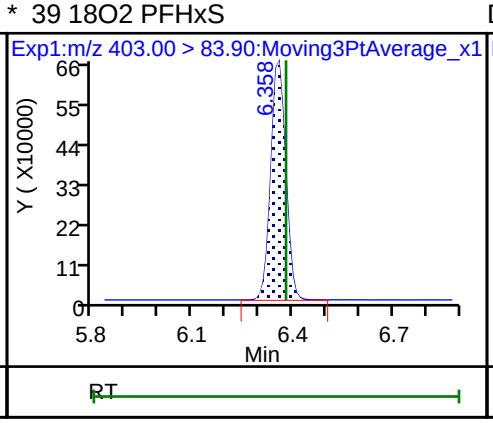
40 PFHxS (ND)



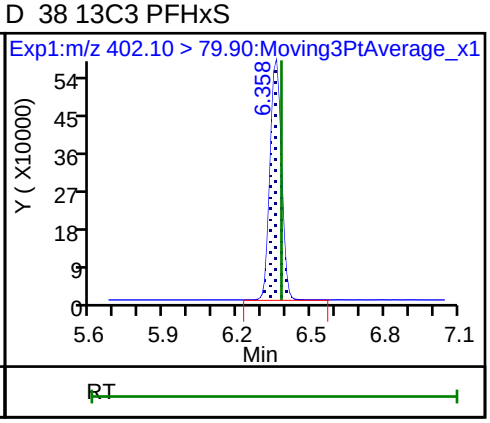
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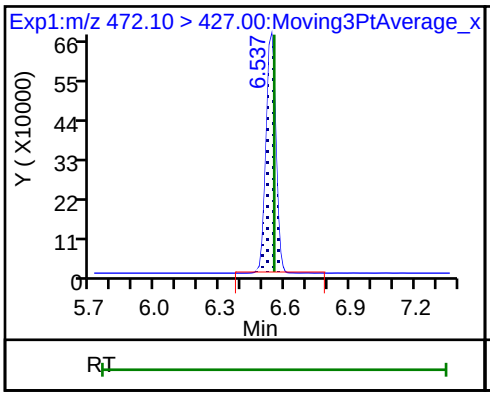
* 39 18O2 PFHxS



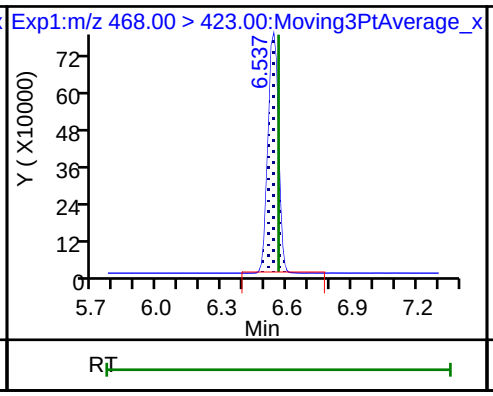
D 38 13C3 PFHxS



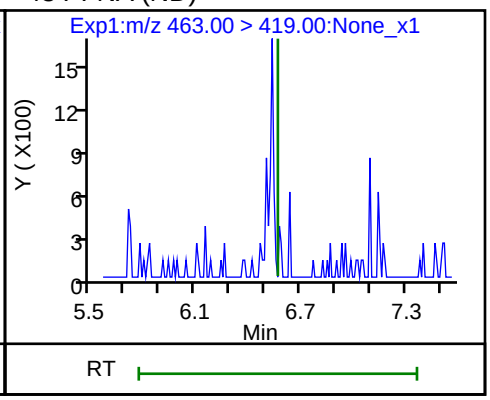
D 41 13C9 PFNA



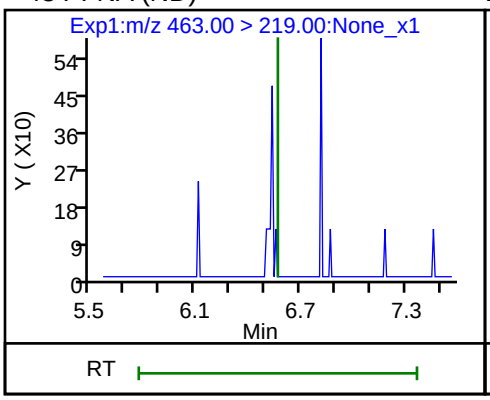
* 42 13C5 PFNA



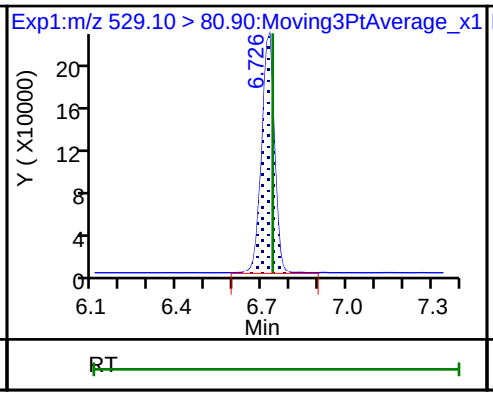
43 PFNA (ND)



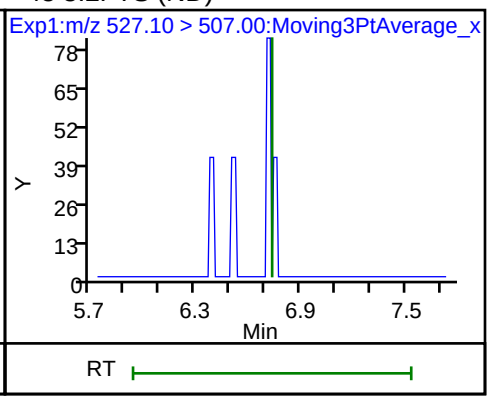
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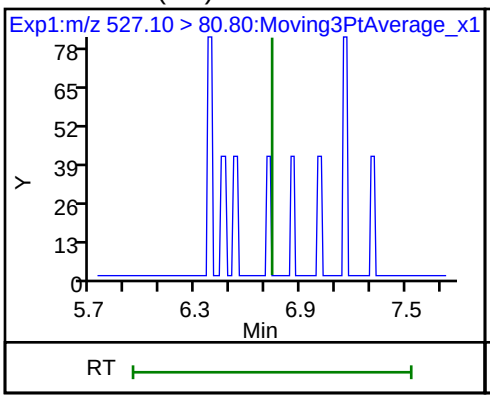
D 44 13C2-8:2FTS



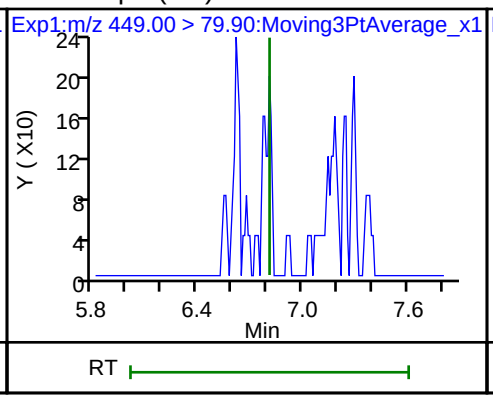
45 8:2FTS (ND)



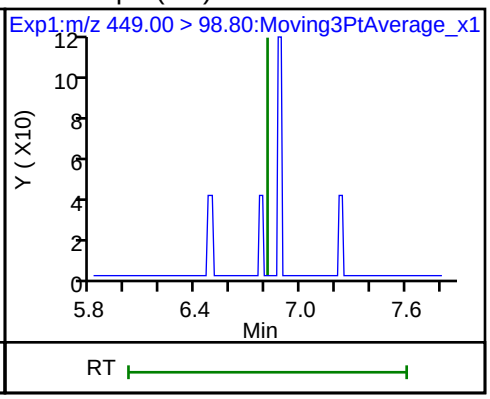
45 8:2FTS (ND)



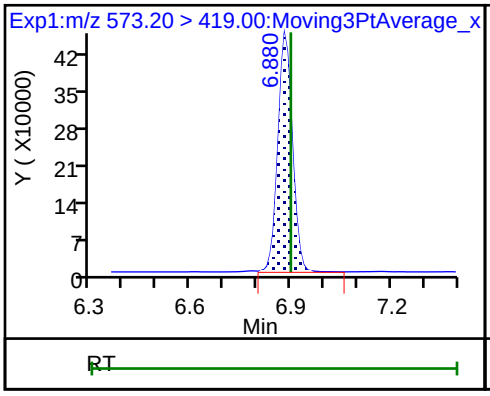
47 PFHpS (ND)



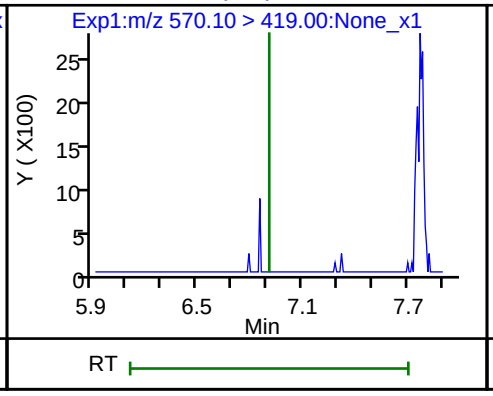
47 PFHpS (ND)



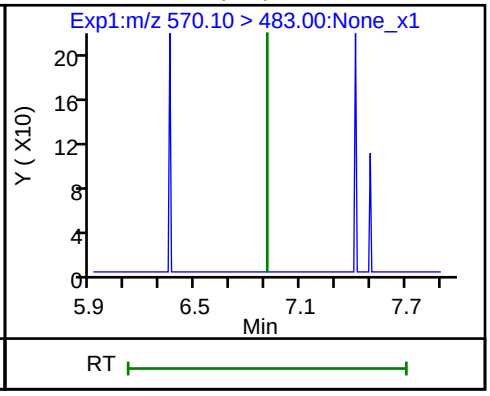
D 49 d3-NMeFOSAA



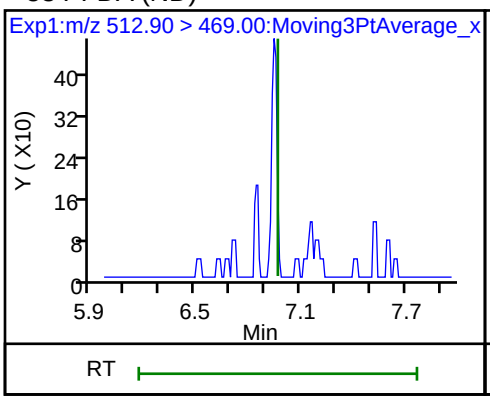
50 NMeFOSAA (ND)



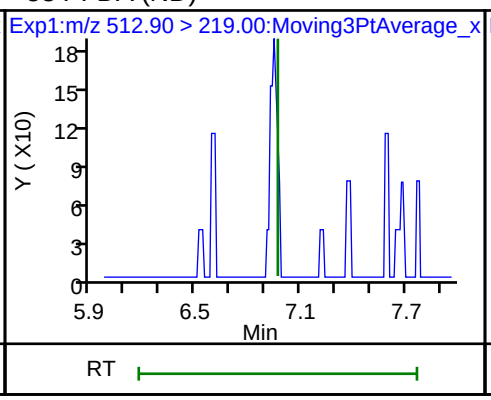
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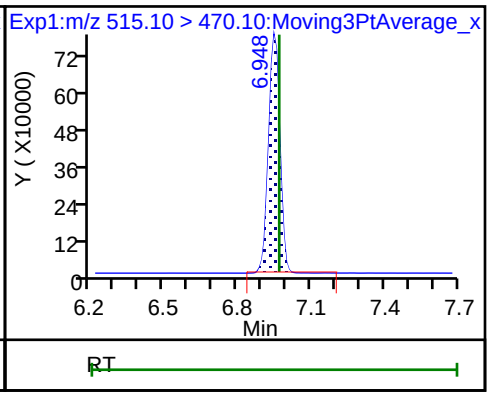
53 PFDA (ND)



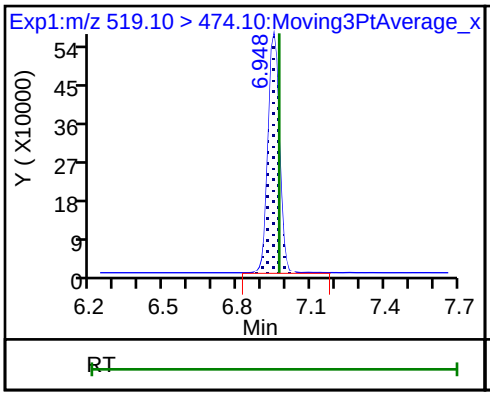
53 PFDA (ND)



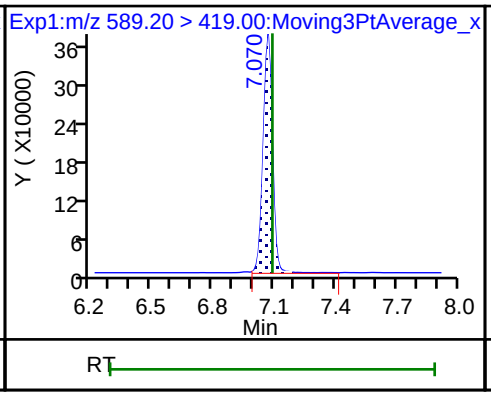
* 51 13C2 PFDA



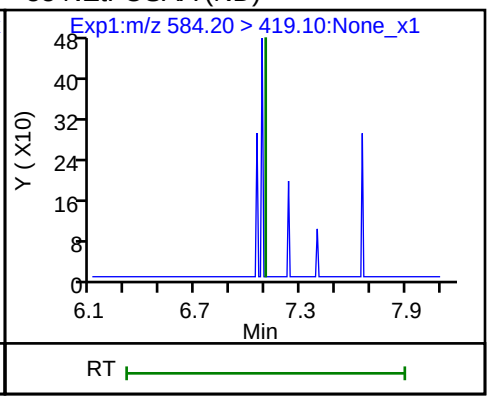
D 52 13C6 PFDA



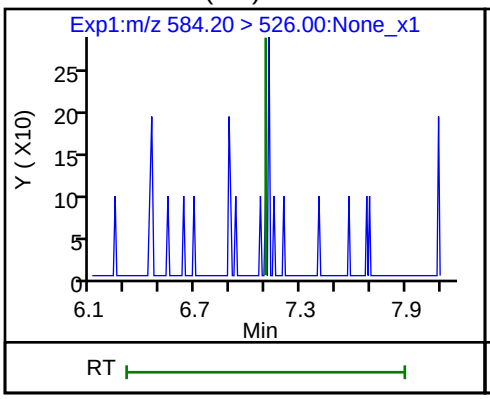
D 54 d5-NEtFOSAA



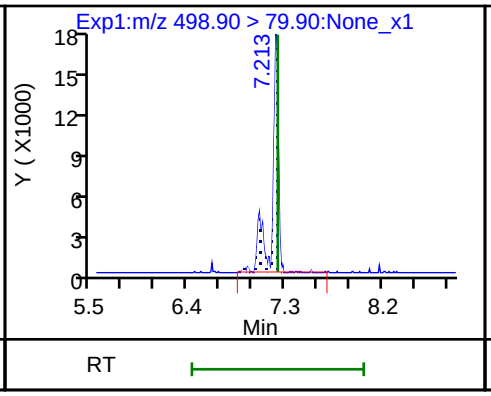
55 NEtFOSAA (ND)



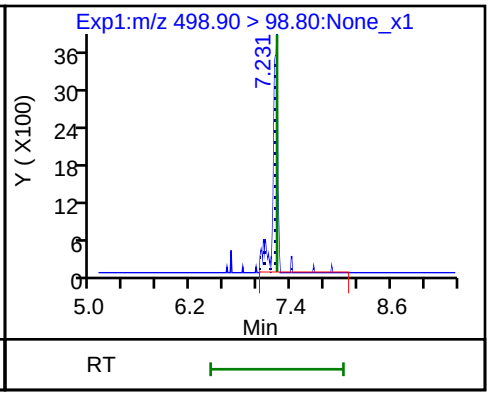
55 NEtFOSAA (ND)



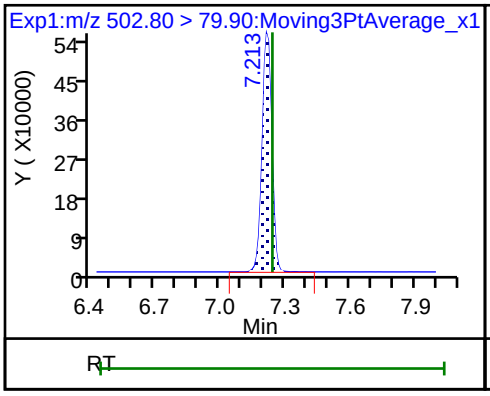
58 PFOS



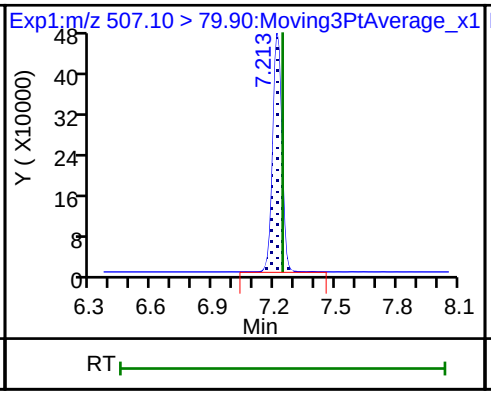
58 PFOS



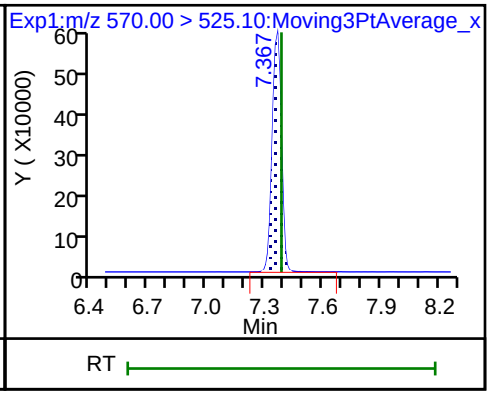
* 57 13C4 PFOS



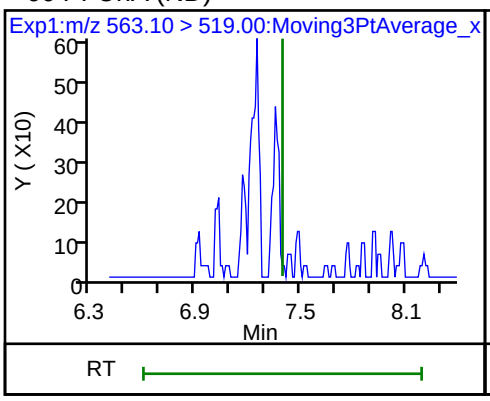
D 56 13C8 PFOS



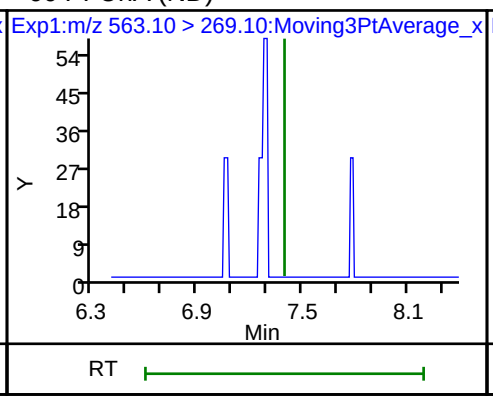
D 59 13C7 PFUnA



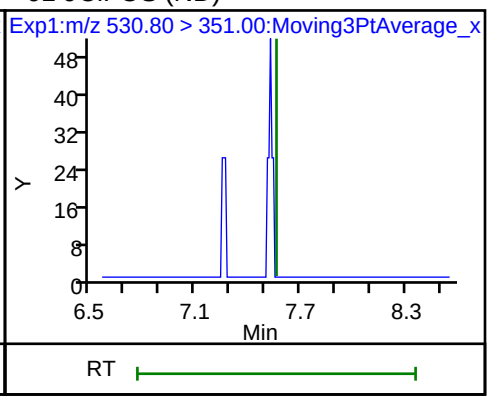
60 PFUnA (ND)



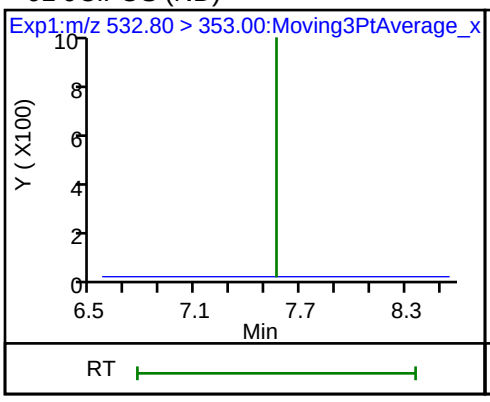
60 PFUnA (ND)



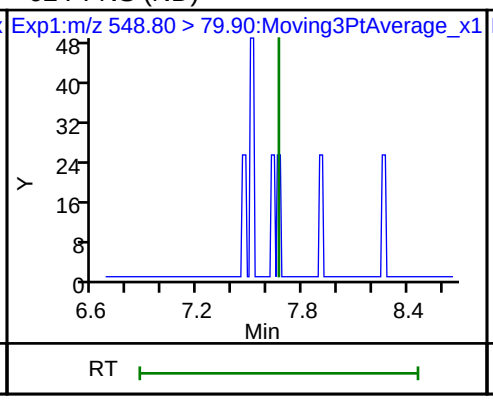
61 9ClFOS (ND)



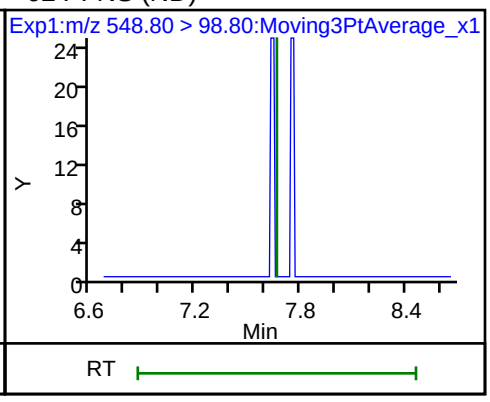
61 9ClFOS (ND)



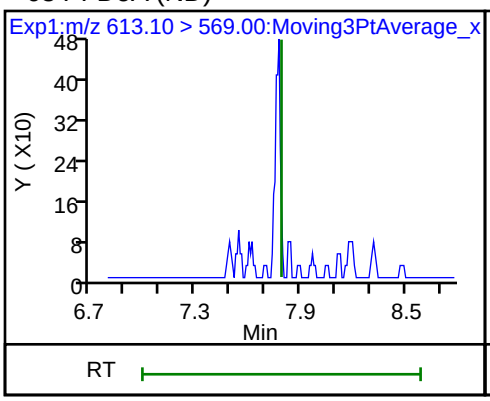
62 PFNS (ND)



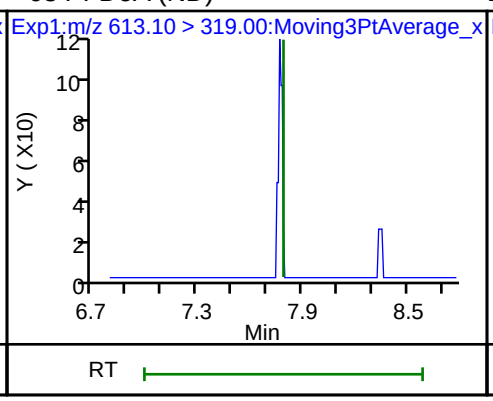
62 PFNS (ND)



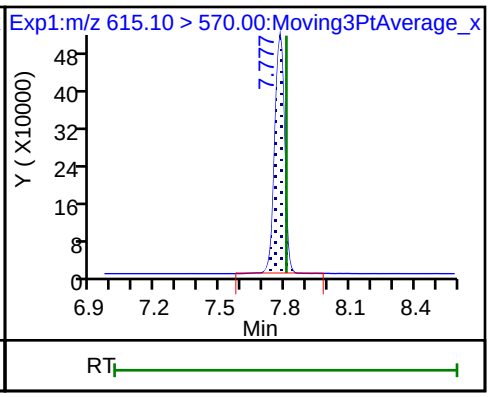
63 PFDoA (ND)



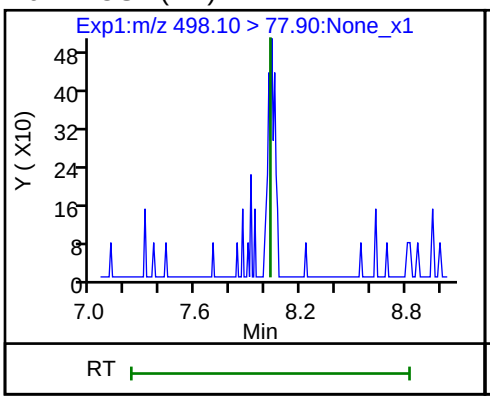
63 PFDoA (ND)



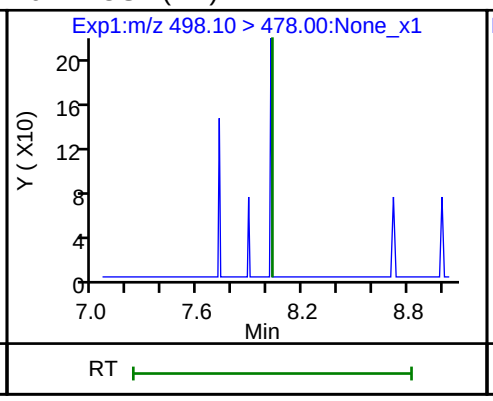
D 81 PFDoA



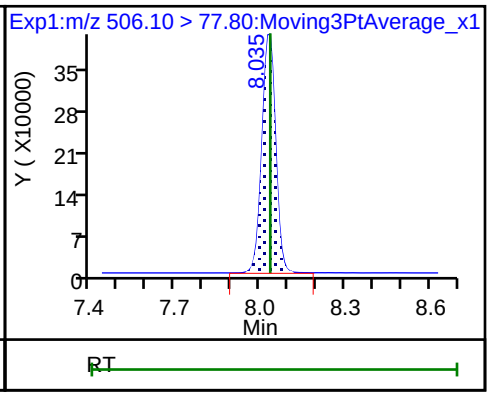
64 PFOSA (ND)



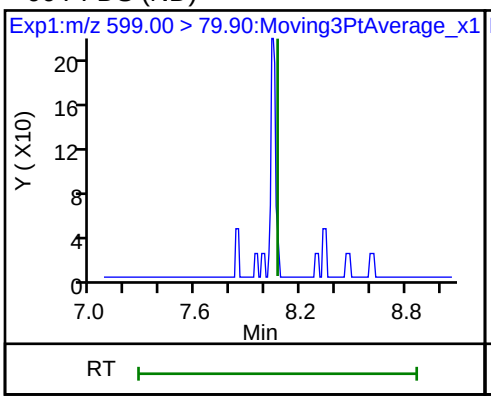
64 PFOSA (ND)



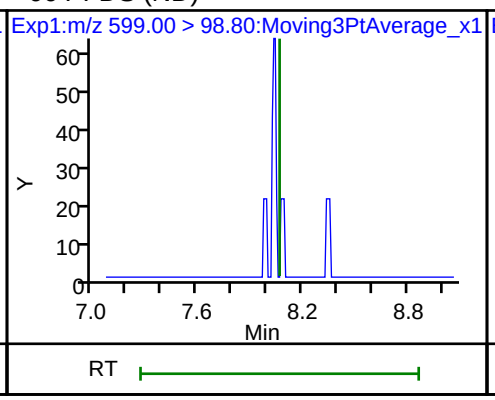
D 65 13C8 FOSA



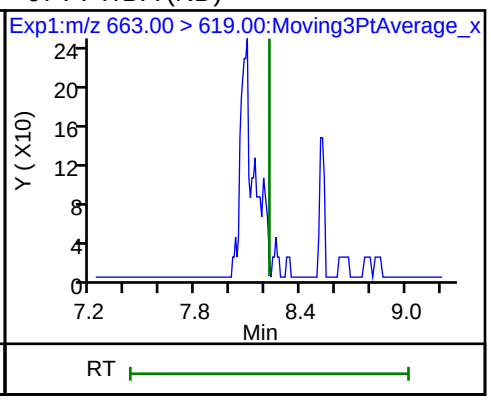
66 PFDS (ND)



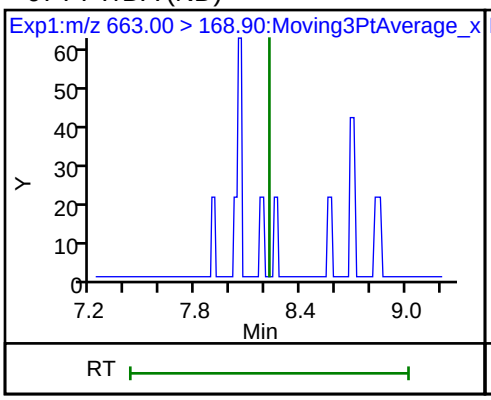
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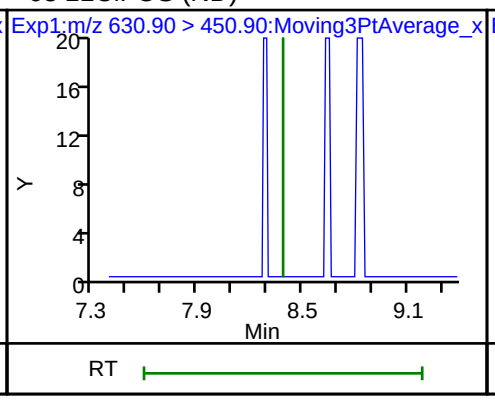
67 PFTrDA (ND)



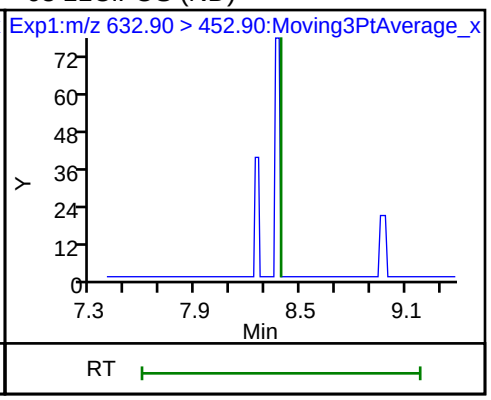
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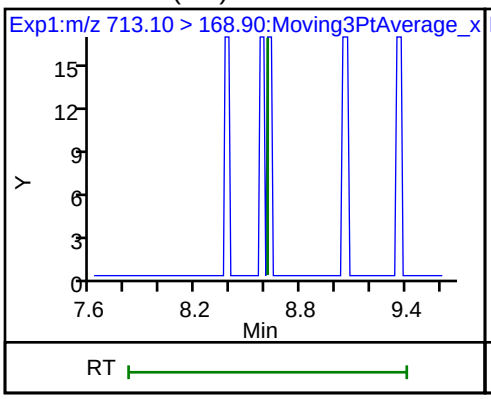
68 11ClFOS (ND)



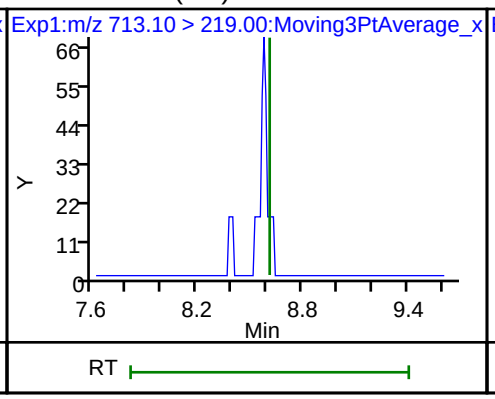
68 11ClFOS (ND)



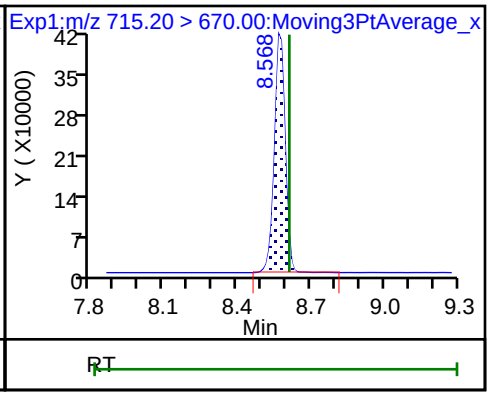
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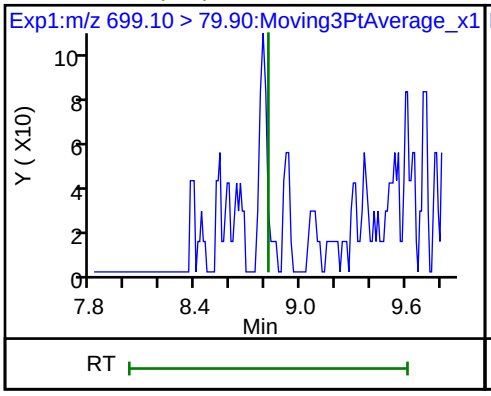
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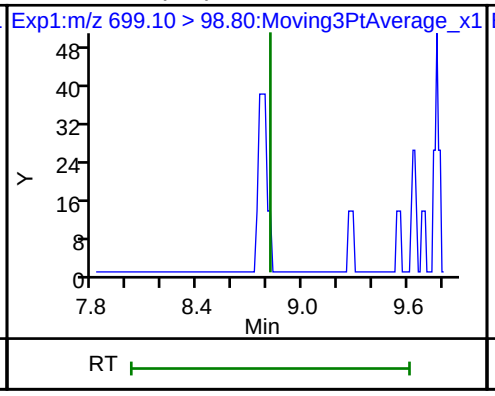
D 70 13C2 PFTeDA



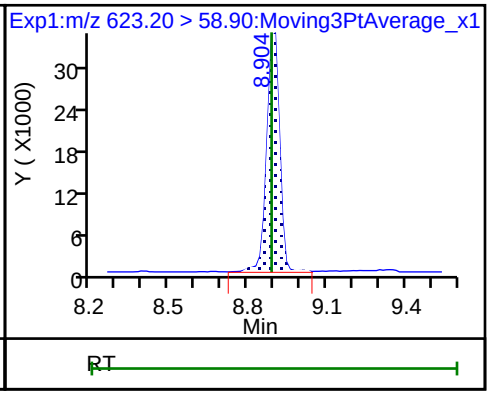
71 PFDoS (ND)



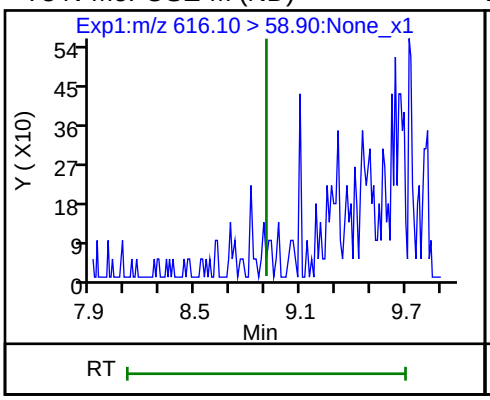
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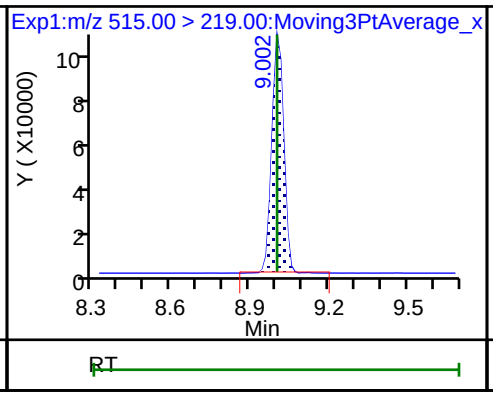
D 72 d7-N-Me-FOSE



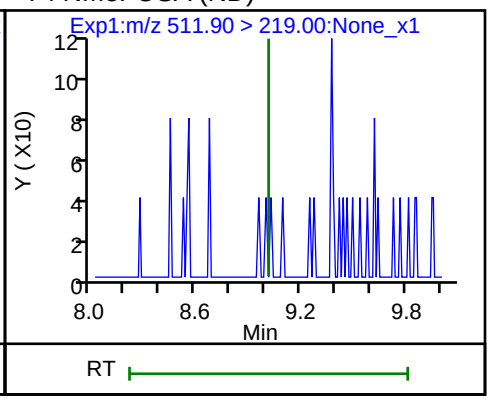
73 N-MeFOSE-M (ND)



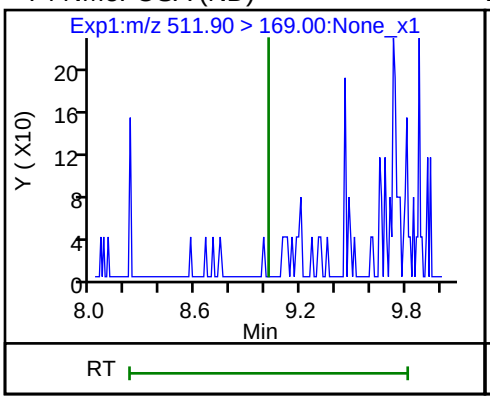
D 75 d3-NMePFOSA



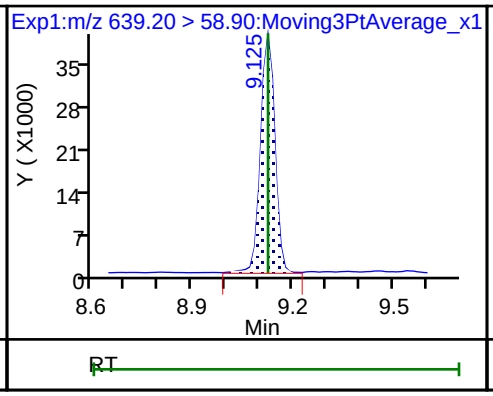
74 NMeFOSA (ND)



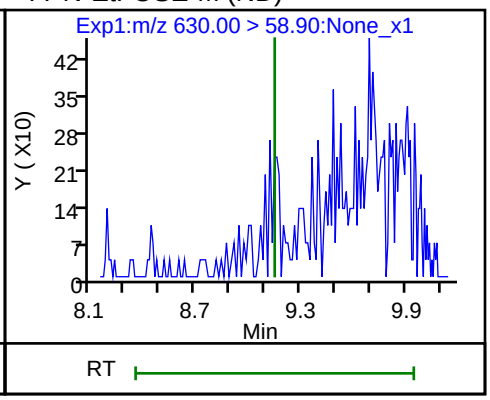
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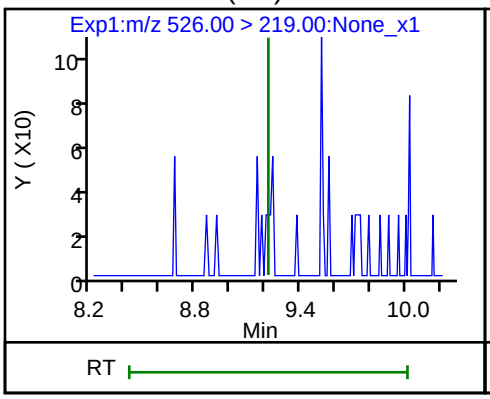
D 76 d9-N-EtFOSE



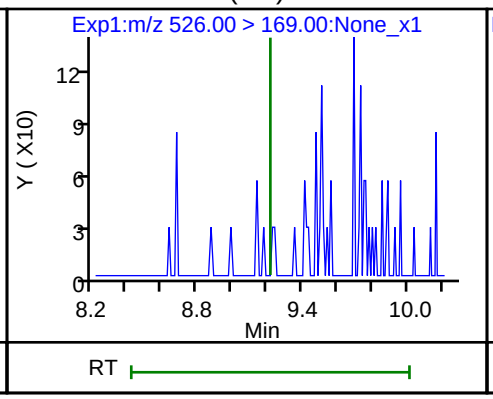
77 N-EtFOSE-M (ND)



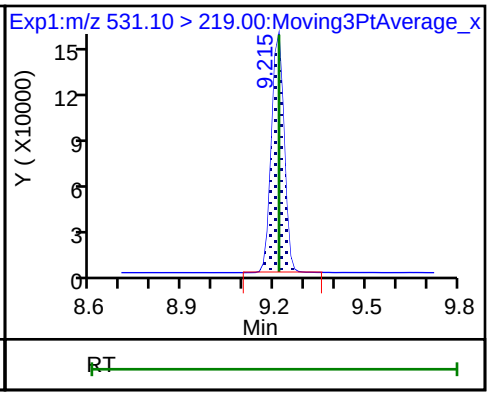
79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



D 78 d5-NEtPFOSA



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: FB_012926_P
Lab Sample ID: 460-344047-7

Matrix: Water
Lab File ID: 26Feb02n-10.d

Analysis Method: 1633A
Date Collected: 01/29/2026 15:00

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 161.4(mL)
Date Analyzed: 02/02/2026 23:32

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	3.10	U	3.10	0.85
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.55	U	1.55	0.46
307-24-4	Perfluorohexanoic acid (PFHxA)	1.55	U	1.55	0.39
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.55	U	1.55	0.62
335-67-1	Perfluorooctanoic acid (PFOA)	1.55	U	1.55	0.70
375-95-1	Perfluorononanoic acid (PFNA)	1.55	U	1.55	0.39
335-76-2	Perfluorodecanoic acid (PFDA)	1.55	U	1.55	0.39
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.55	U	1.55	0.39
307-55-1	Perfluorododecanoic acid (PFDoA)	1.55	U	1.55	0.39
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1.55	U	1.55	0.39
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	1.55	U	1.55	0.39
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.55	U	1.55	0.39
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	1.55	U	1.55	0.39
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.55	U	1.55	0.62
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.55	U	1.55	0.39
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.55	U	1.55	1.01
68259-12-1	Perfluorononanesulfonic acid (PFNS)	1.55	U	1.55	0.39
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.55	U	1.55	0.39
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.55	U	1.55	0.46
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	3.10	U	3.10	0.77
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	3.10	U	3.10	0.77
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	3.10	U	3.10	0.77
754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.55	U	1.55	0.39
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	1.55	U	1.55	0.39
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.55	U	1.55	0.85

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID: FB_012926_P
Lab Sample ID: 460-344047-7

Matrix: Water
Lab File ID: 26Feb02n-10.d

Analysis Method: 1633A
Date Collected: 01/29/2026 15:00

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 161.4(mL)
Date Analyzed: 02/02/2026 23:32

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.55	U	1.55	0.39
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.55	U	1.55	0.39
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	7.74	U	7.74	3.10
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	7.74	U	7.74	3.10
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.55	U	1.55	1.08
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.55	U	1.55	0.39
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	1.55	U	1.55	0.39
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	1.55	U	1.55	0.39
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.55	U	1.55	0.39
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	1.55	U	1.55	0.39
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	1.55	U	1.55	0.39
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.55	U	1.55	0.39
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	3.10	U	3.10	0.77
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	7.74	U	7.74	2.17
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	7.74	U	7.74	1.94

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: FB_012926_P Lab Sample ID: 460-344047-7

Matrix: Water Lab File ID: 26Feb02n-10.d

Analysis Method: 1633A Date Collected: 01/29/2026 15:00

Extraction Method: 1633A Date Extracted: 02/02/2026 14:36

Sample wt/vol: 161.4(mL) Date Analyzed: 02/02/2026 23:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219 Units: ng/L

Preparation Batch No.: 763508 Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	91.4		5-130
2283397-79-3	13C5 PFPeA	90.1		40-130
2328024-54-8	13C5 PFHxA	92.2		40-130
2328024-55-9	13C4 PFHpA	95.6		40-130
1350614-84-4	13C8 PFOA	95.4		40-130
2283397-80-6	13C9 PFNA	93.3		40-130
2328024-56-0	13C6 PFDA	95.9		40-130
STL02580	13C7 PFUnA	94.9		30-130
STL02116	13C2 PFTeDA	76.7		10-130
2708218-83-9	13C3 PFBS	100		40-135
2708218-85-1	13C3 PFHxS	99.4		40-130
2265893-05-6	13C8 PFOS	93.8		40-130
STL01056	13C8 FOSA	82.6		40-130
1400690-70-1	d3-NMeFOSAA	79.2		40-170
1265205-97-7	d5-NEtFOSAA	77.8		25-135
STL02395	13C2 4:2 FTS	104		40-200
STL02279	13C2 6:2 FTS	112		40-200
STL02280	13C2 8:2 FTS	108		40-300
STL02255	13C3 HFPO-DA	89.2		40-130
STL02277	d7-N-MeFOSE-M	57.0		10-130
STL02278	d9-N-EtFOSE-M	53.9		10-130
STL02704	d5-NEtPFOSA	58.4		10-130
STL02705	d3-NMePFOSA	61.9		10-130
960315-52-0	13C2 PFDoA	96.7		10-130

Report Date: 03-Feb-2026 11:39:54 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-10.d
Lims ID: 460-344047-A-7-A
Client ID: FB_012926_P
Sample Type: Client
Inject. Date: 02-Feb-2026 23:32:30 ALS Bottle#: 51 Worklist Smp#: 51
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 460-344047-A-7-A
Misc. Info.: Plate: 1 Rack: 1 410-0174324-051
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 03-Feb-2026 11:37:01 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1674

First Level Reviewer: VGQ7 Date: 03-Feb-2026 11:22:38
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 3 13C4-PFBA										
216.80 > 171.90	4.156	4.161	-0.005	1.000	1396990	1.83		91.4	8724	
* 4 13C3PFBA										
216.00 > 172.00	4.156	4.169	-0.013		1462452	2.00			1165	
D 8 13C5 PFPeA										
268.30 > 223.00	4.817	4.822	-0.005	0.916	925668	1.80		90.1	5777	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.080	5.099	-0.018	0.804	620943	4.90		104	4473	
D 15 13C5 PFHxA										
318.00 > 273.00	5.260	5.282	-0.022	1.000	1861075	1.84		92.2	4972	
* 16 13C2 PFHxA										
315.10 > 270.00	5.260	5.282	-0.022		4418283	5.00			9039	
D 18 13C3 PFBS										
302.10 > 79.90	5.404	5.410	-0.006	0.856	1748655	1.87		100	5793	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.443	5.464	-0.021	1.035	1558814	1.78		89.2	3217	
D 26 13C4 PFHpA										
367.10 > 322.00	5.684	5.707	-0.023	1.081	1905127	1.91		95.6	9461	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.878	5.903	-0.025	0.931	556867	5.34		112	1515	
* 35 13C4 PFOA										
417.10 > 372.00	6.082	6.117	-0.035		5992020	5.00			8519	
D 34 13C8 PFOA										
421.10 > 376.00	6.082	6.117	-0.035	1.000	2288429	1.91		95.4	5717	
D 38 13C3 PFHxS										
402.10 > 79.90	6.315	6.345	-0.030	1.000	1607425	1.88		99.4	7736	
* 37 18O2 PFHxS										
403.00 > 83.90	6.315	6.345	-0.030		1575175	1.90			5440	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 42 13C5 PFNA 468.00 > 423.00	6.492	6.525	-0.033		2075982	2.00			7145	
D 41 13C9 PFNA 472.10 > 427.00	6.492	6.525	-0.033	1.000	1814655	1.87		93.3	5744	
D 45 13C2-8:2FTS 529.10 > 80.90	6.674	6.707	-0.033	1.057	514092	5.17		108	2698	
D 49 d3-NMeFOSAA 573.20 > 419.00	6.844	6.877	-0.033	0.954	888495	3.96		79.2	1081	
D 51 13C6 PFDA 519.10 > 474.10	6.904	6.938	-0.034	1.000	1780283	1.92		95.9	6320	
* 52 13C2 PFDA 515.10 > 470.10	6.904	6.938	-0.034		1836378	2.00			8409	
D 54 d5-NEtFOSAA 589.20 > 419.00	7.022	7.057	-0.035	0.979	753780	3.89		77.8	1373	
D 56 13C8 PFOS 507.10 > 79.90	7.174	7.208	-0.034	1.000	1375661	1.80		93.8	2386	
* 57 13C4 PFOS 502.80 > 79.90	7.174	7.208	-0.034		1444116	1.92			9250	
D 59 13C7 PFUnA 570.00 > 525.10	7.317	7.353	-0.036	1.060	1757345	1.90		94.9	3242	
D 82 PFDoA 615.10 > 570.00	7.735	7.777	-0.042	1.120	1261268	1.93		96.7	1956	
D 64 13C8 FOSA 506.10 > 77.80	7.943	7.965	-0.022	1.107	1416788	1.65		82.6	5804	
D 69 13C2 PFTeDA 715.20 > 670.00	8.476	8.510	-0.034	1.228	830461	1.53		76.7	5318	
D 71 d7-N-Me-FOSE 623.20 > 58.90	8.742	8.738	0.004	1.218	385459	2.85		57.0	252	
D 74 d3-NMePFOSA 515.00 > 219.00	8.837	8.834	0.003	1.232	299778	1.24		61.9	2809	
D 76 d9-N-EtFOSE 639.20 > 58.90	8.930	8.926	0.004	1.245	484048	2.69		53.9	533	
D 78 d5-NEtPFOSA 531.10 > 219.00	8.994	8.991	0.003	1.254	344407	1.17		58.4	2175	

QC Flag Legend

Processing Flags

Reagents:

1633_125_IS_V_00579 Amount Added: 50.00 Units: uL

Report Date: 03-Feb-2026 11:39:54 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-10.d

Injection Date: 02-Feb-2026 23:32:30 Instrument ID: 30576

Lims ID: 460-344047-A-7-A Lab Sample ID: 410-344047-7

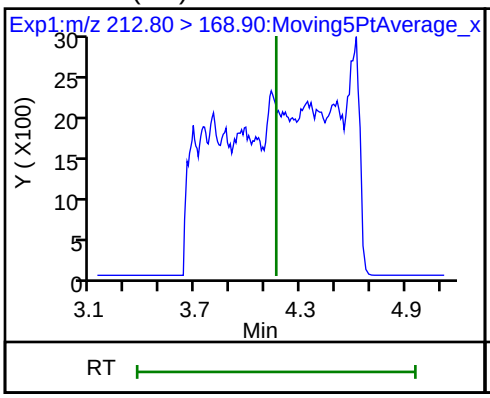
Client ID: FB_012926_P

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 51 Worklist Smp#: 51

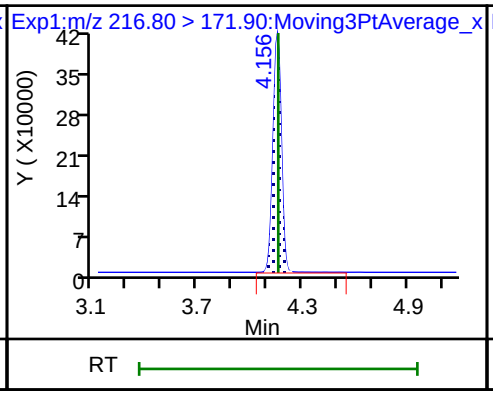
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

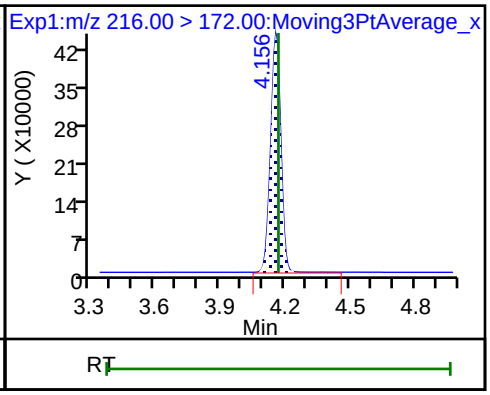
5 PFBA (ND)



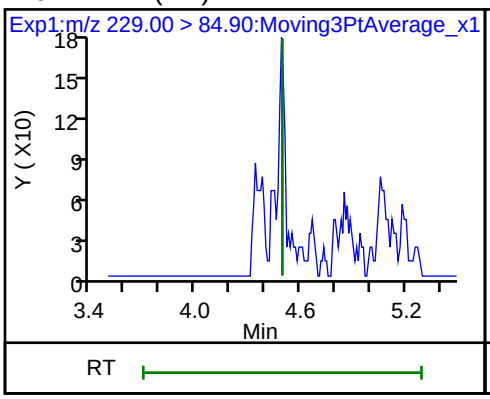
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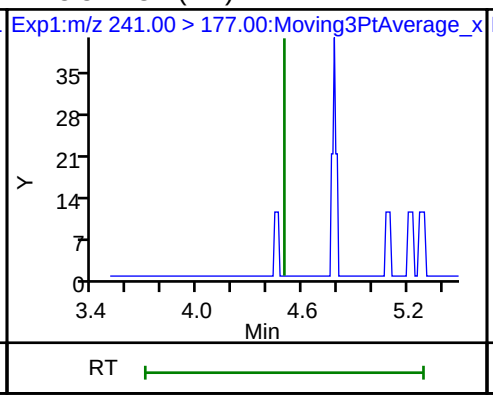
* 4 13C3PFBA



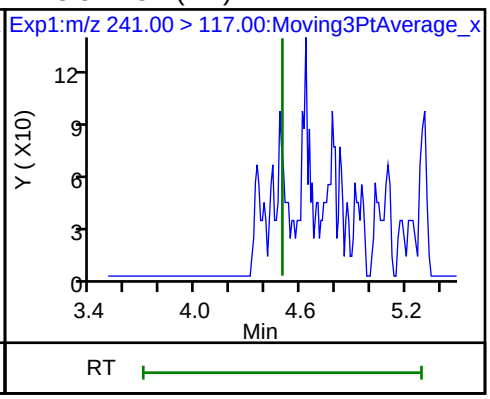
6 PFMPA (ND)



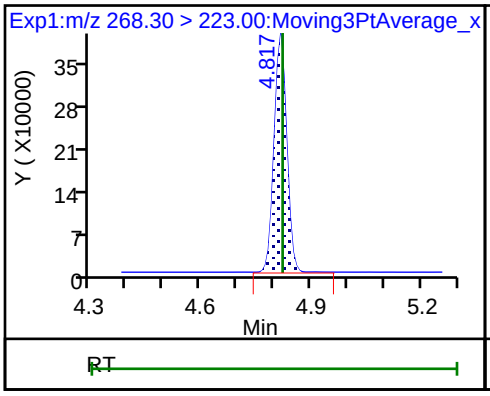
7 3:3 FTCA (ND)



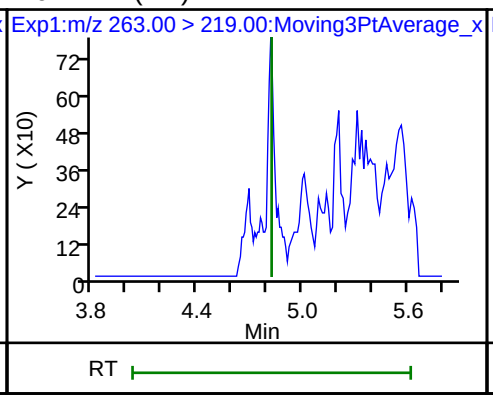
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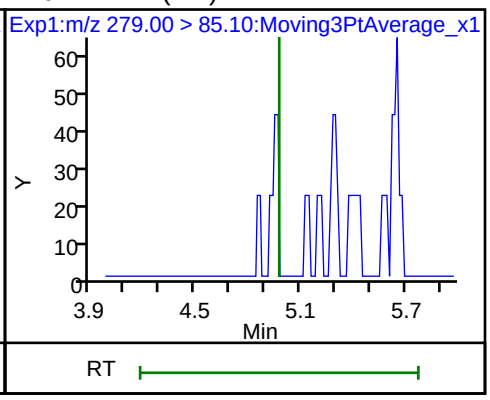
D 8 13C5 PFPeA



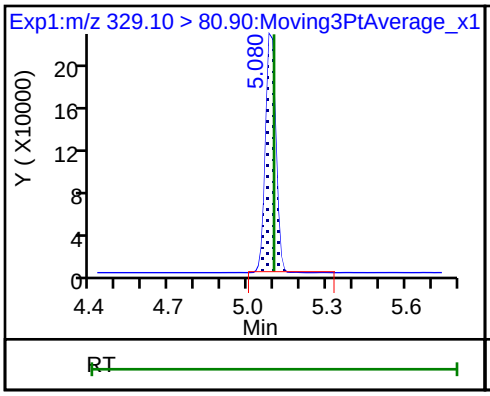
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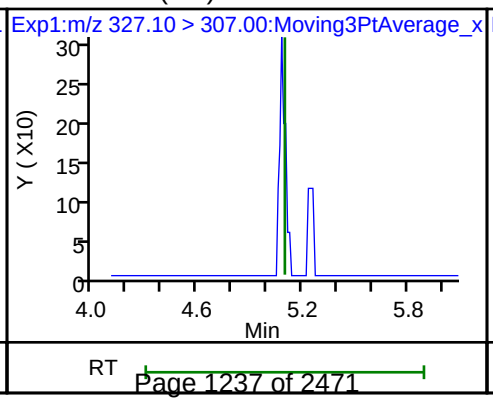
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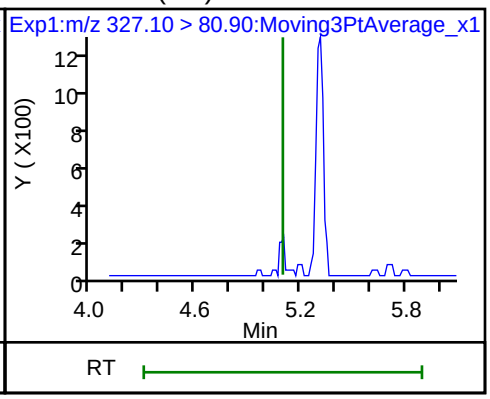
D 11 13C2-4:2FTS



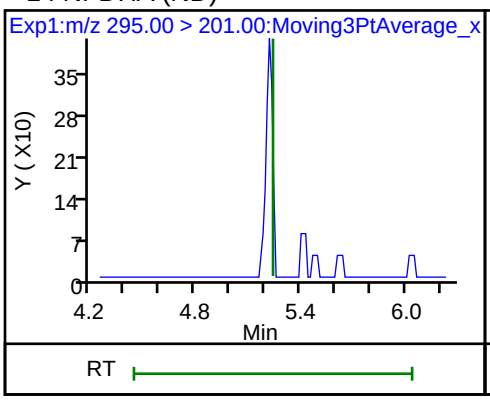
12 4:2FTS (ND)



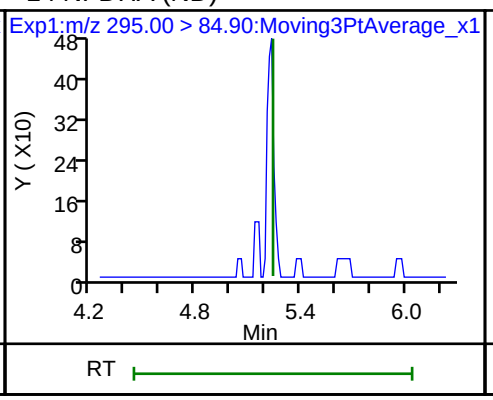
12 4:2FTS (ND)



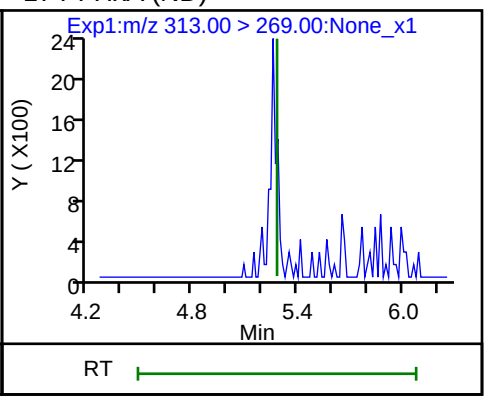
14 NFDHA (ND)



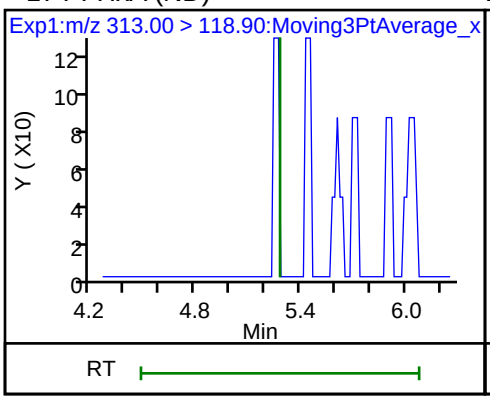
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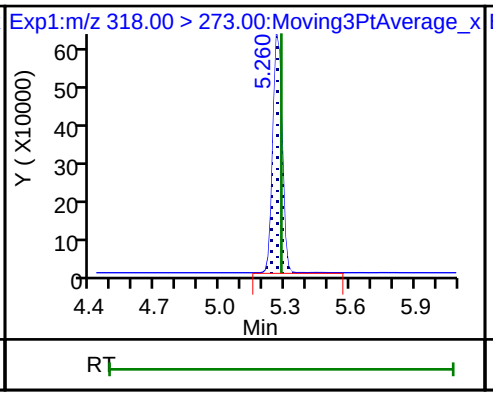
17 PFHxA (ND)



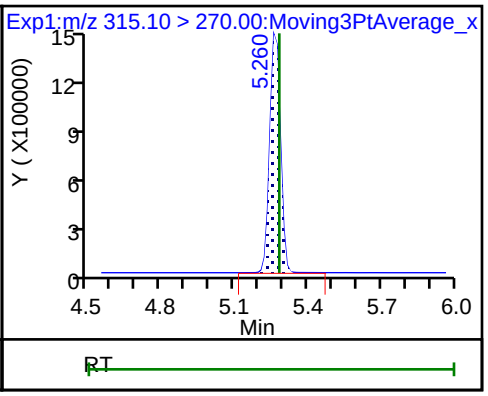
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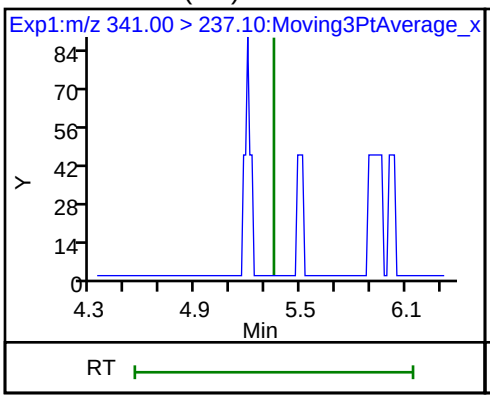
D 15 13C5 PFHxA



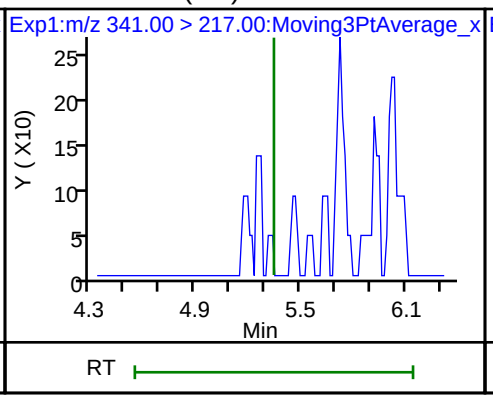
* 16 13C2 PFHxA



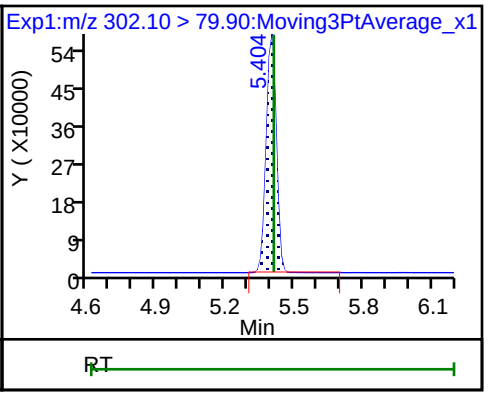
20 5:3 FTCA (ND)



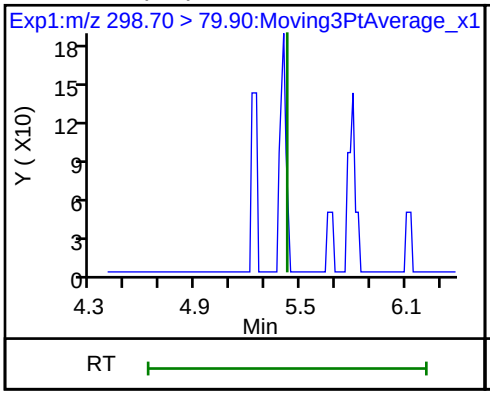
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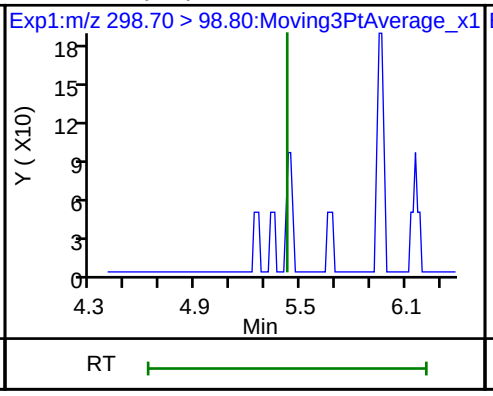
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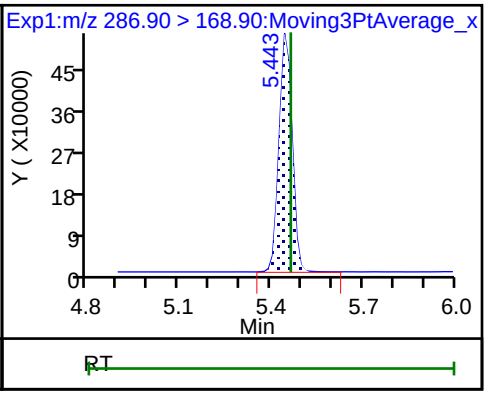
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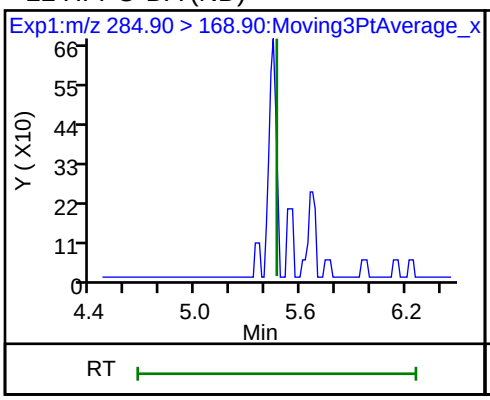
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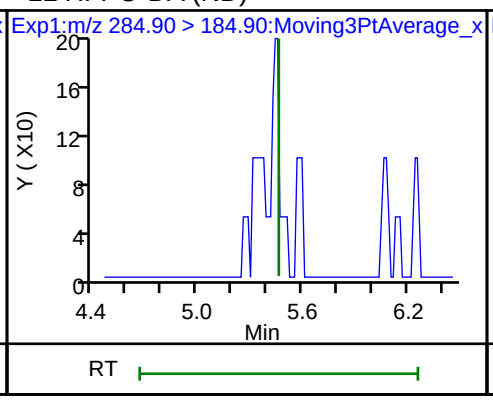
D 21 13C3 HFPO-DA



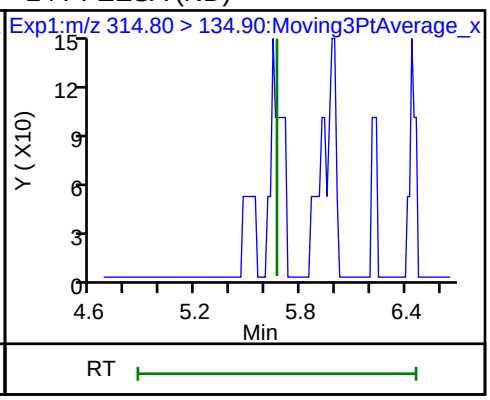
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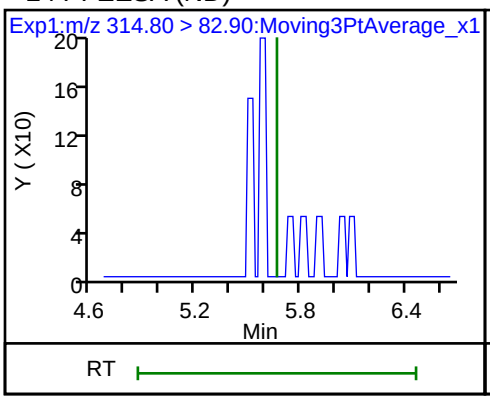
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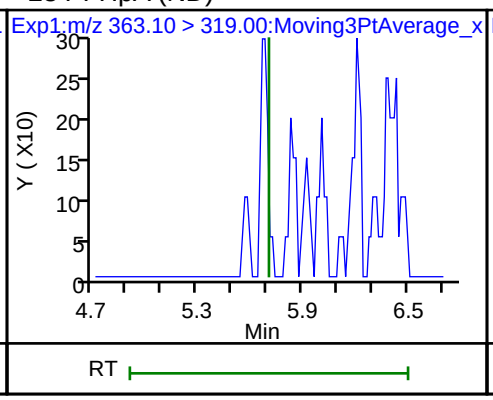
24 PFEESA (ND)



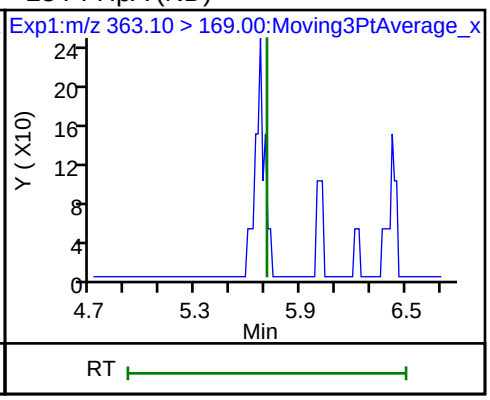
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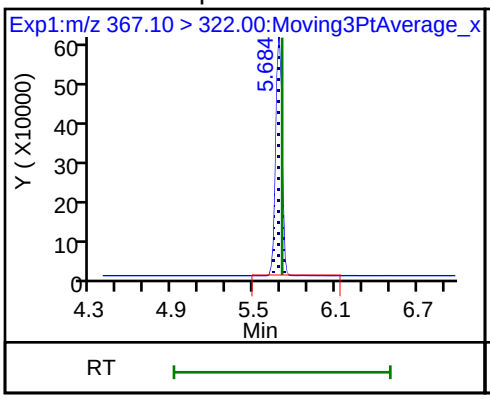
28 PFHpA (ND)



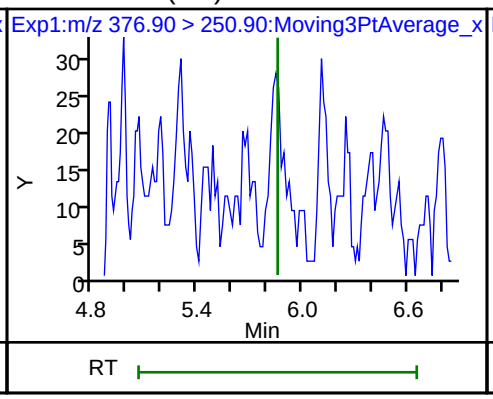
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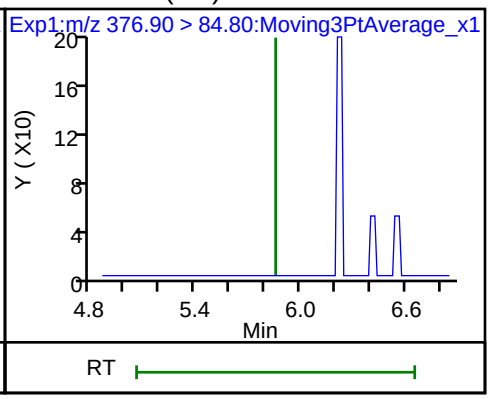
D 26 13C4 PFHpA



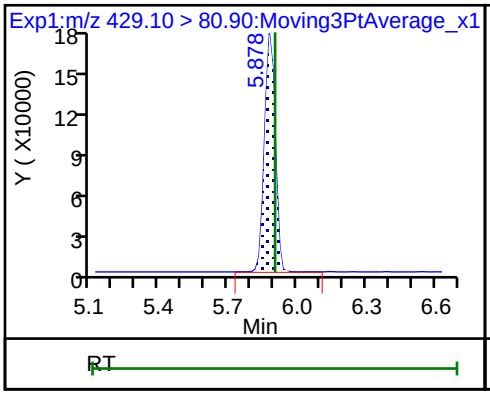
30 ADONA (ND)



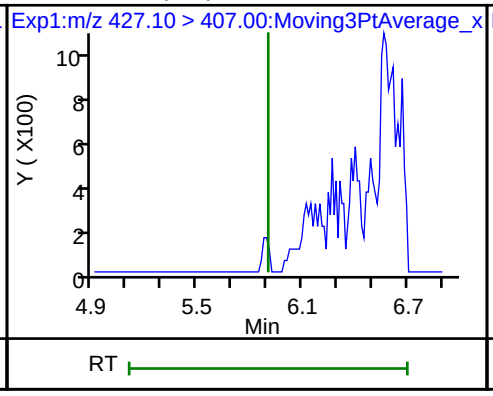
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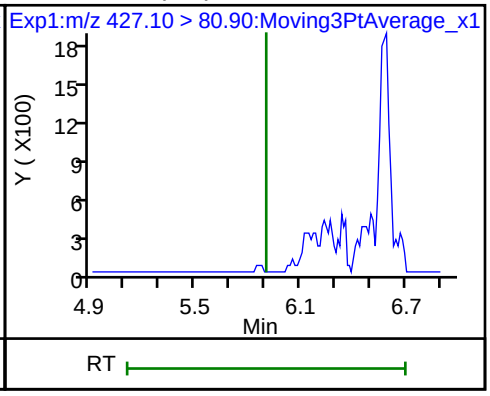
D 31 13C2-6:2FTS



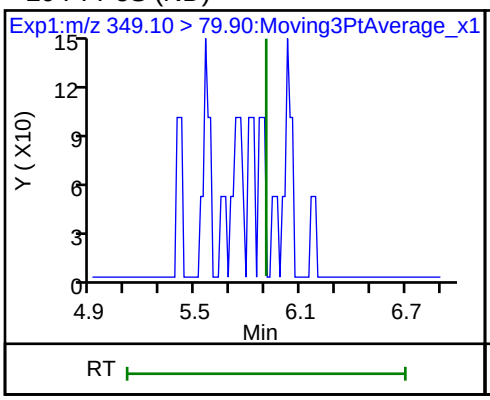
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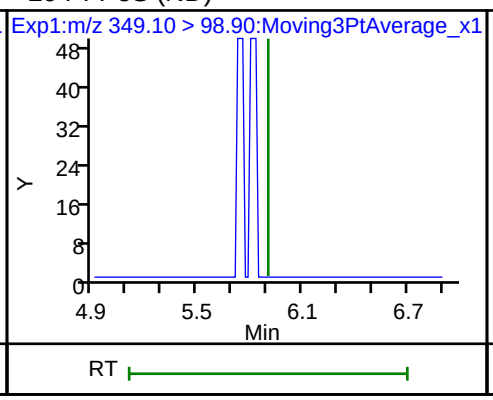
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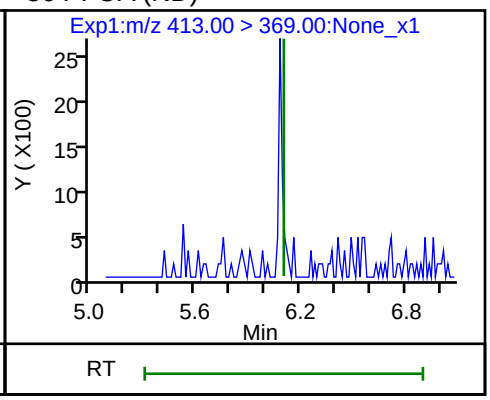
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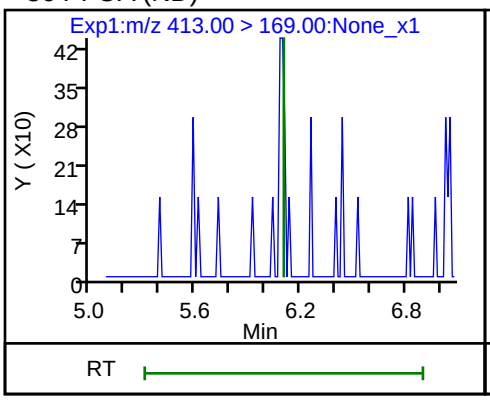
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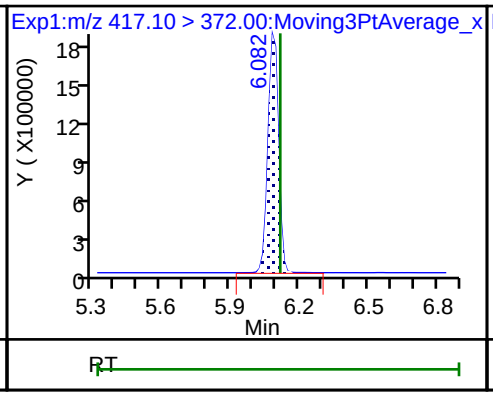
36 PFOA (ND)



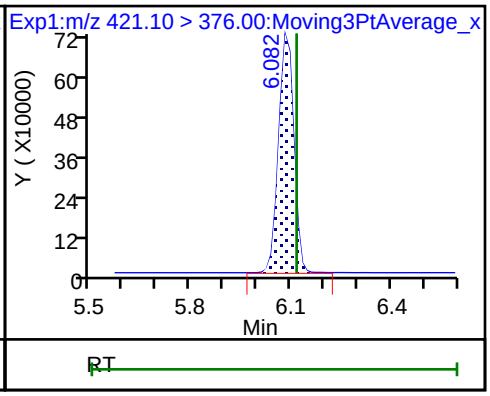
36 PFOA (ND)



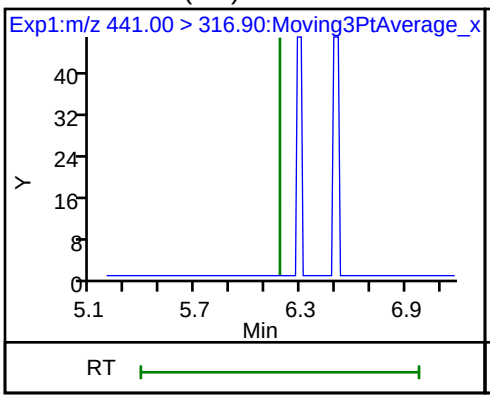
* 35 13C4 PFOA



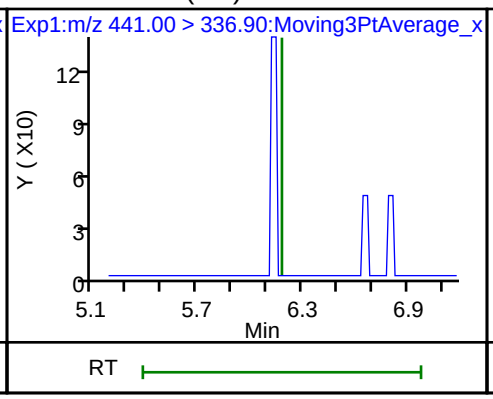
D 34 13C8 PFOA



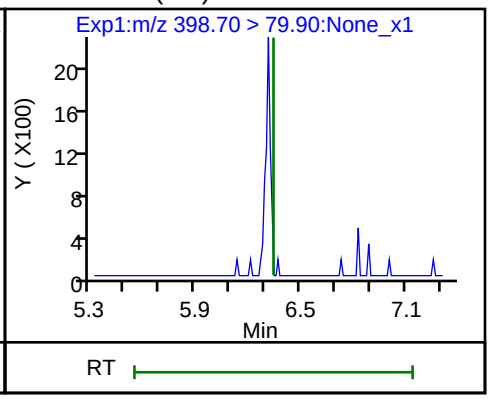
39 7:3 FTCA (ND)



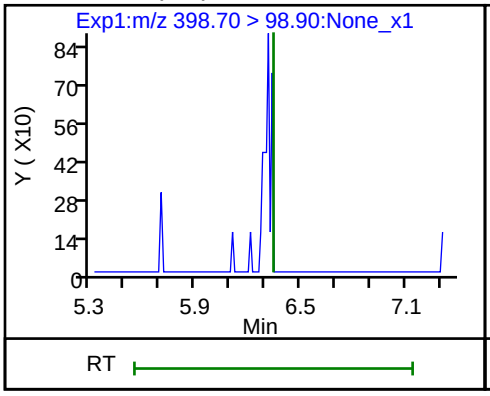
39 7:3 FTCA (ND)



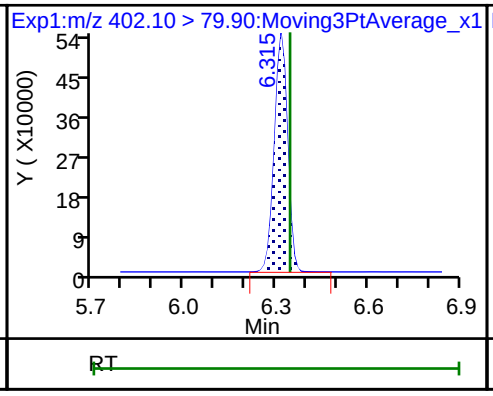
40 PFHxS (ND)



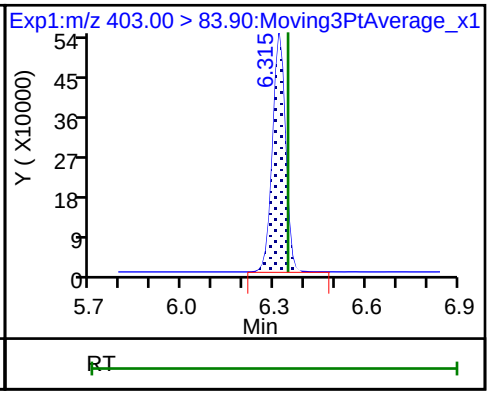
40 PFHxS (ND)



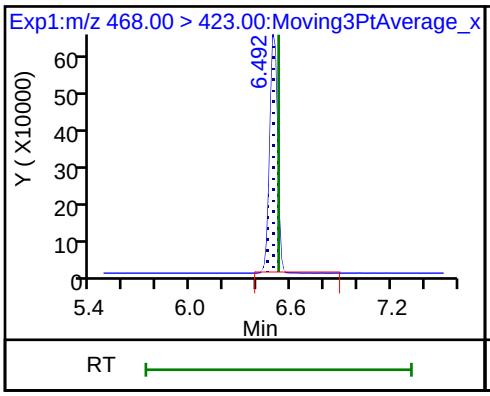
D 38 13C3 PFHxS



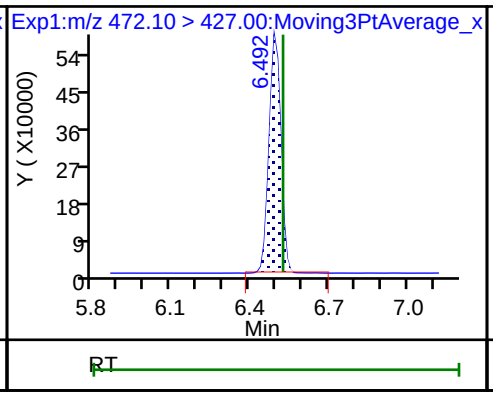
* 37 18O2 PFHxS



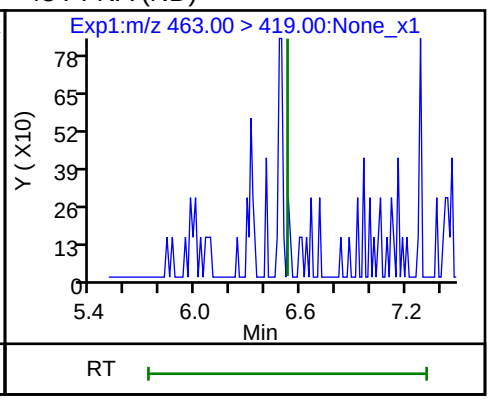
* 42 13C5 PFNA



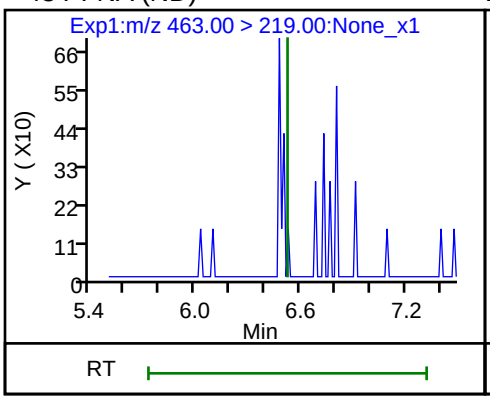
D 41 13C9 PFNA



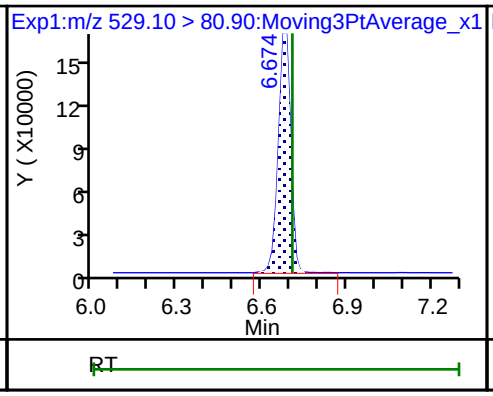
43 PFNA (ND)



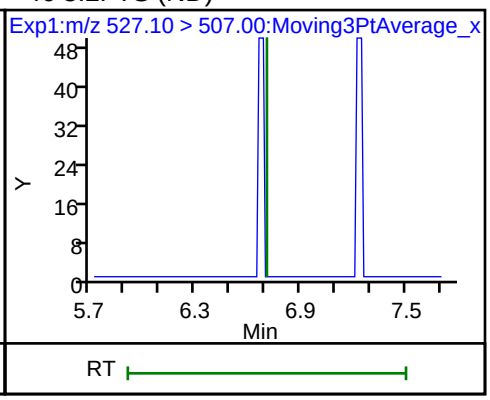
43 PFNA (ND)



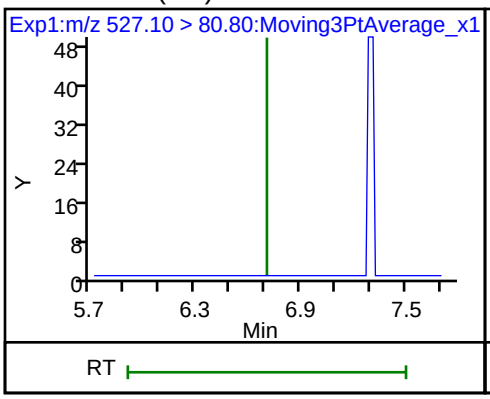
D 45 13C2-8:2FTS



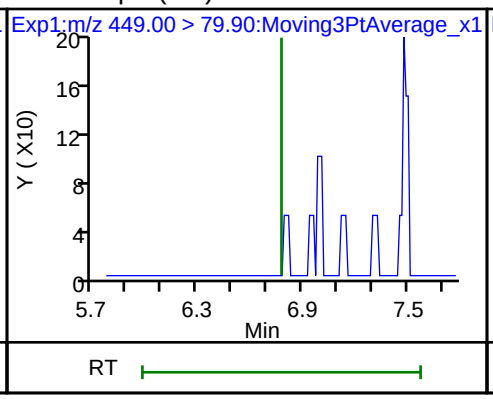
46 8:2FTS (ND)



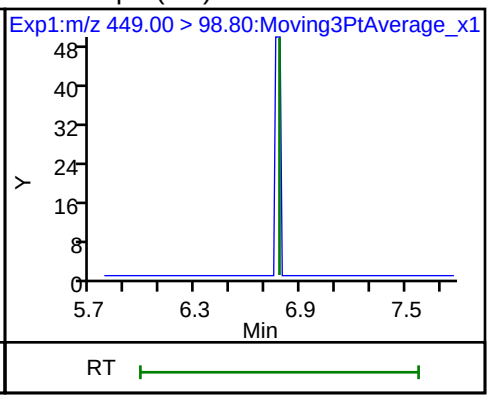
46 8:2FTS (ND)



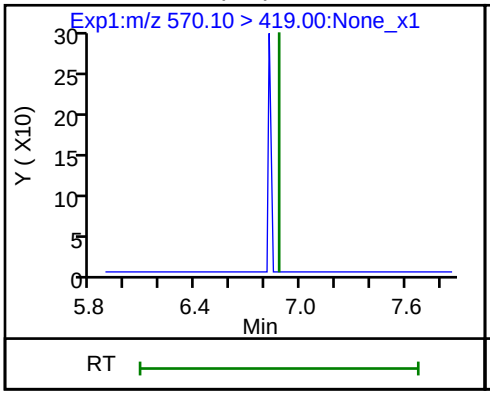
47 PFHpS (ND)



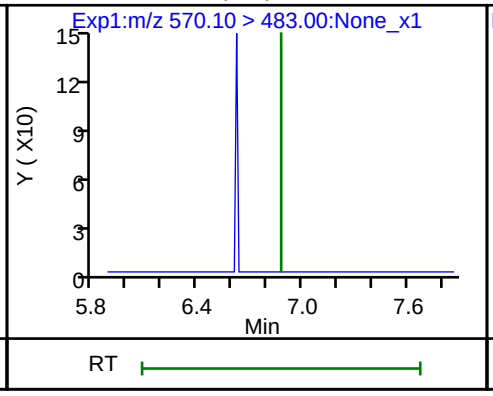
47 PFHpS (ND)



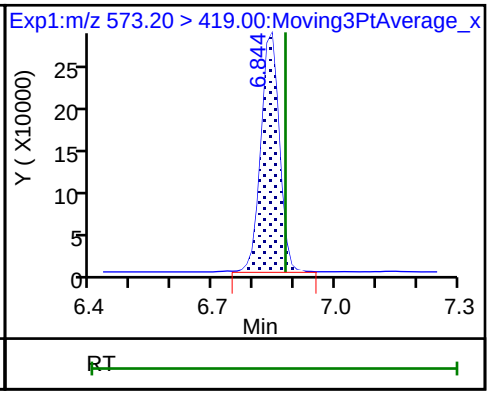
50 NMeFOSAA (ND)



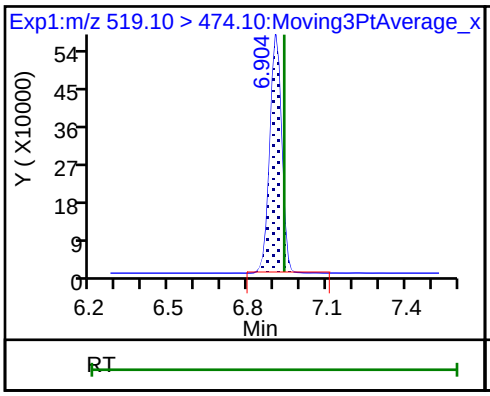
50 NMeFOSAA (ND)



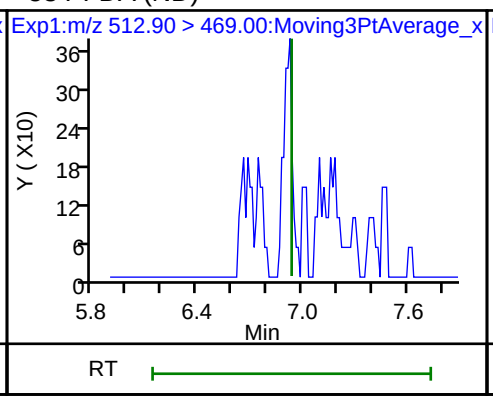
D 49 d3-NMeFOSAA



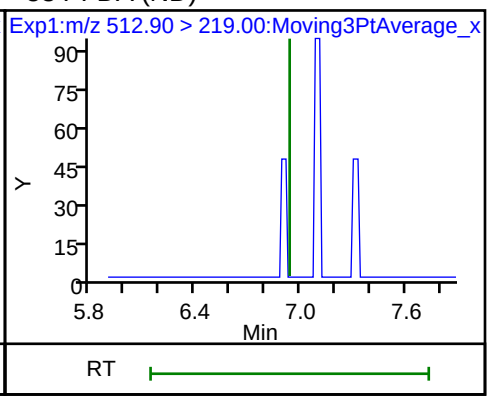
D 51 13C6 PFDA



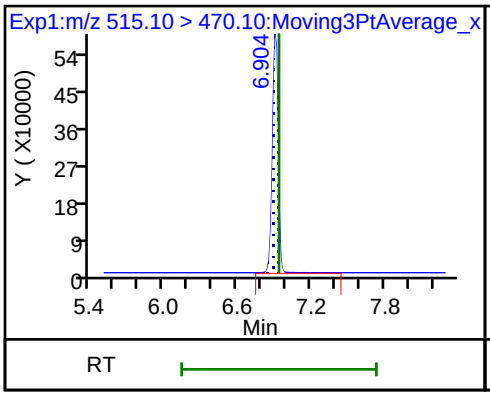
53 PFDA (ND)



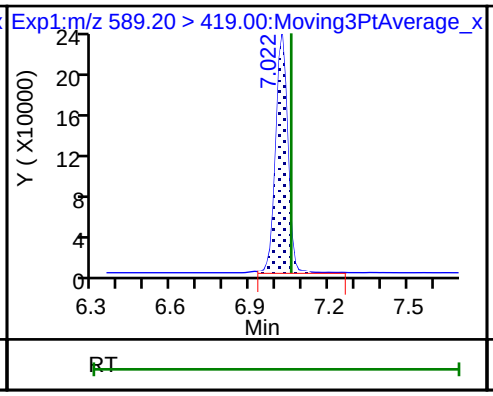
53 PFDA (ND)



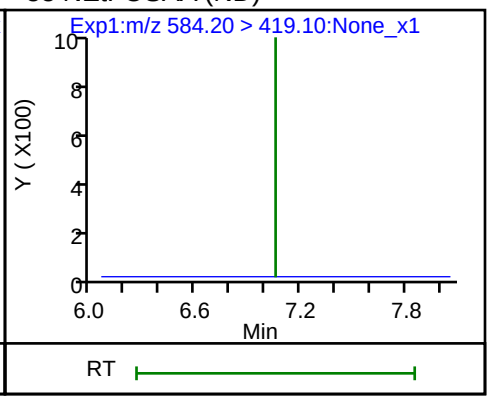
* 52 13C2 PFDA



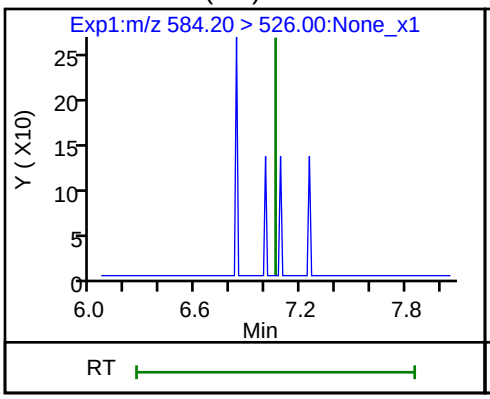
D 54 d5-NEtFOSAA



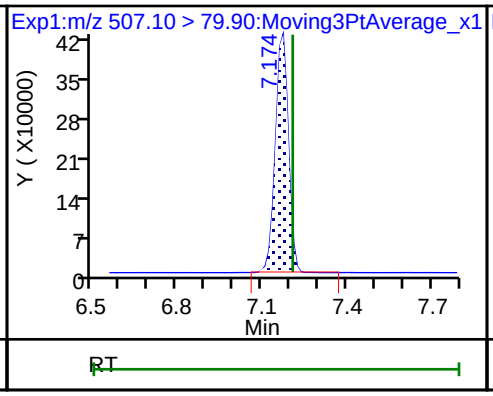
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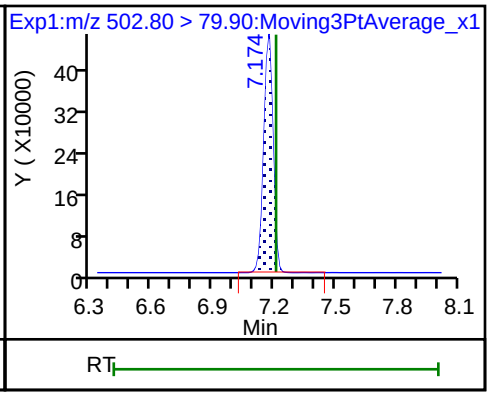
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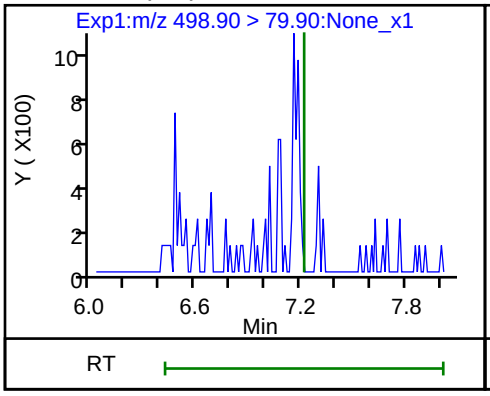
D 56 13C8 PFOS



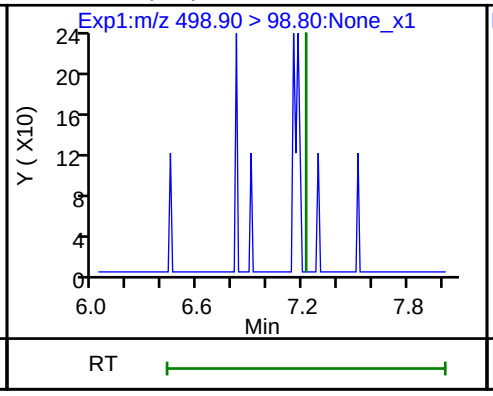
* 57 13C4 PFOS



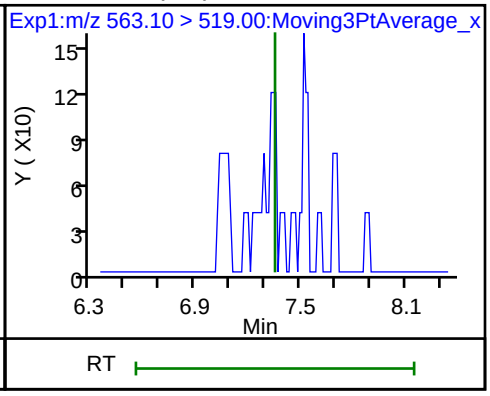
58 PFOS (ND)



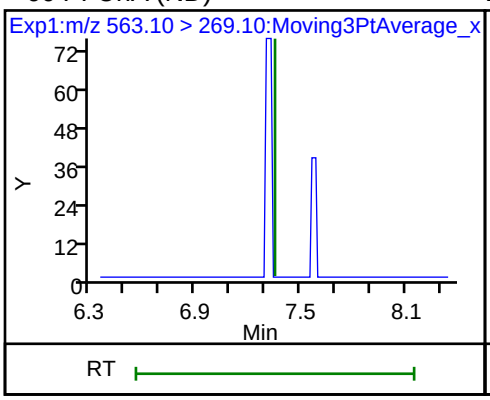
58 PFOS (ND)



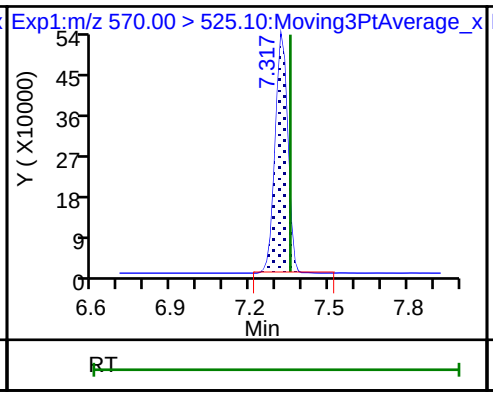
60 PFUnA (ND)



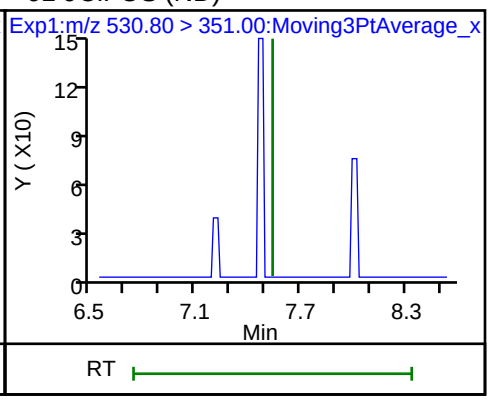
60 PFUnA (ND)



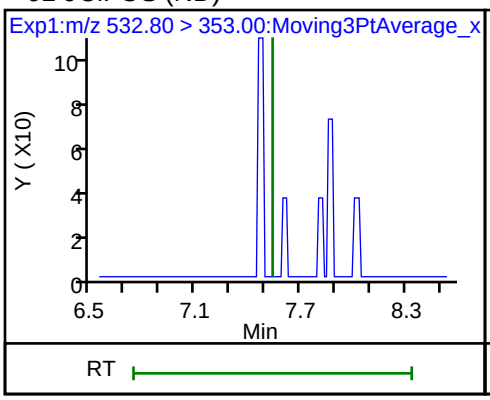
D 59 13C7 PFUnA



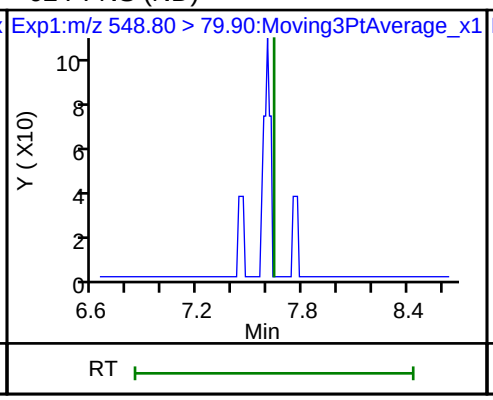
61 9ClFOS (ND)



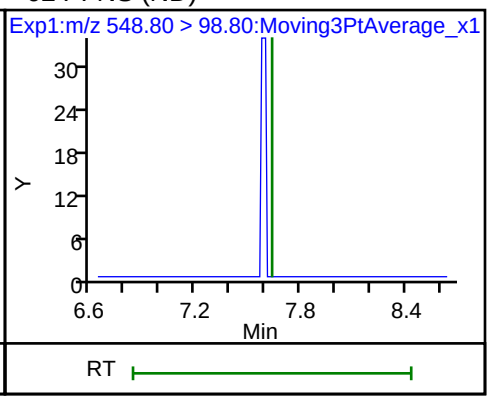
61 9ClFOS (ND)



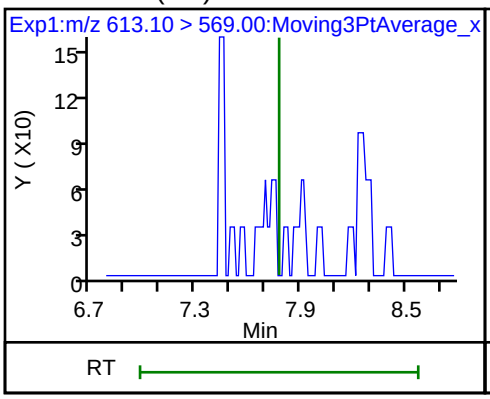
62 PFNS (ND)



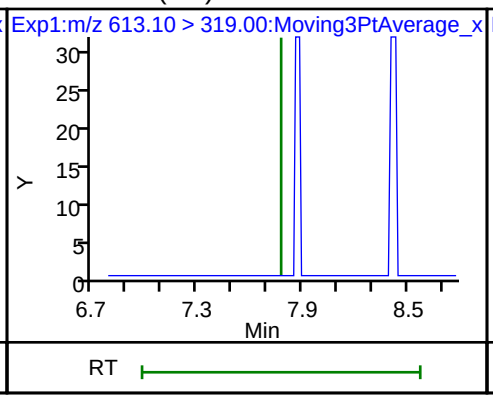
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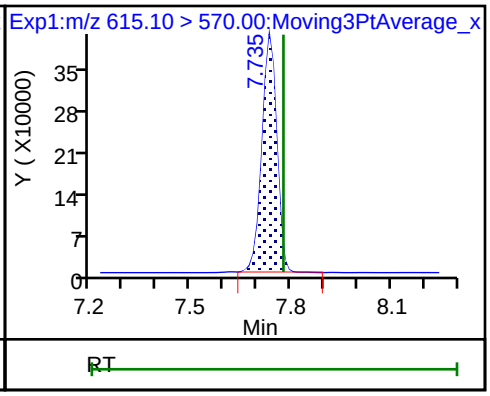
63 PFDoA (ND)



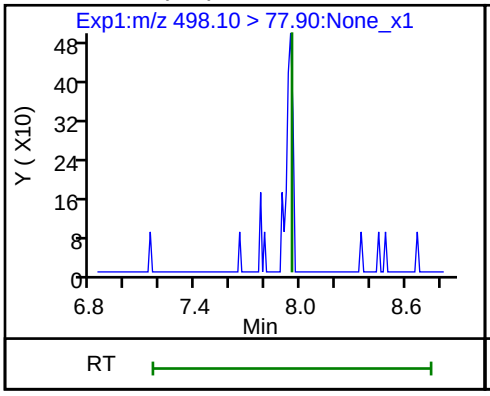
63 PFDoA (ND)



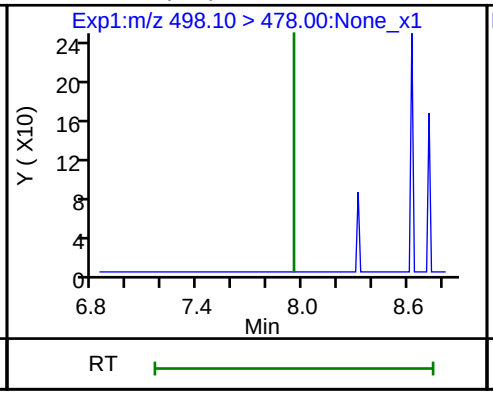
D 82 PFDoA



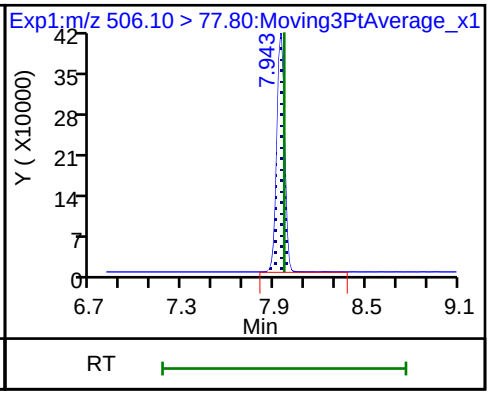
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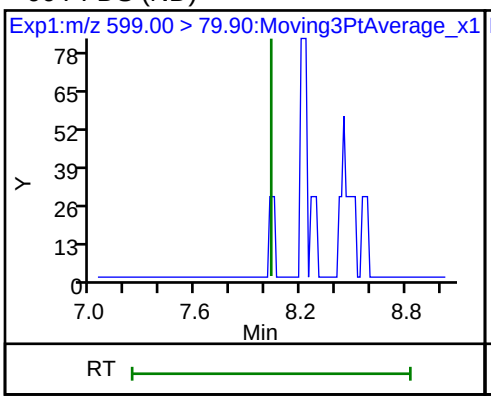
65 PFOSA (ND)



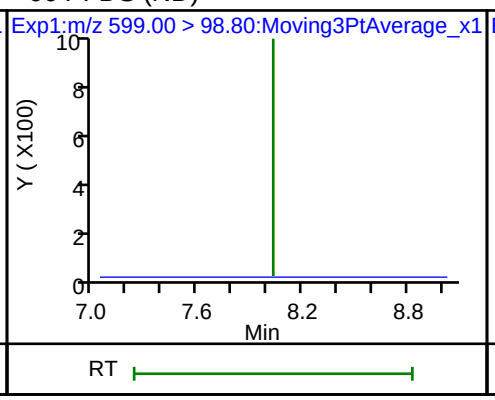
D 64 13C8 FOSA



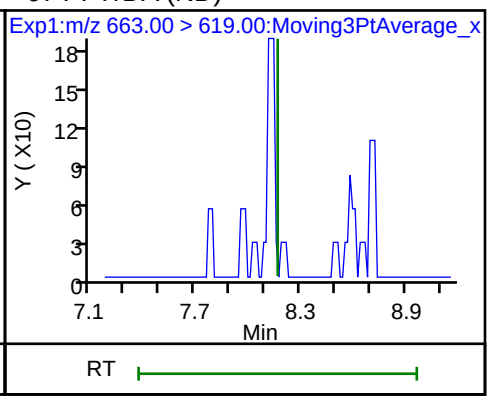
66 PFDS (ND)



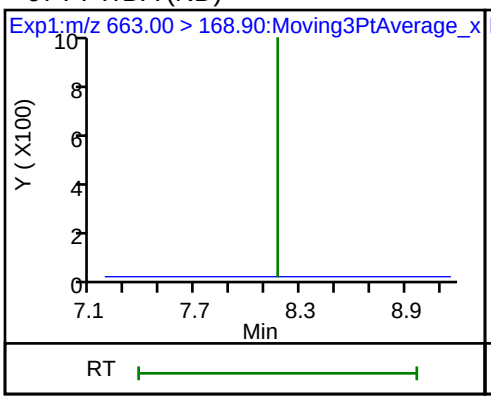
66 PFDS (ND)



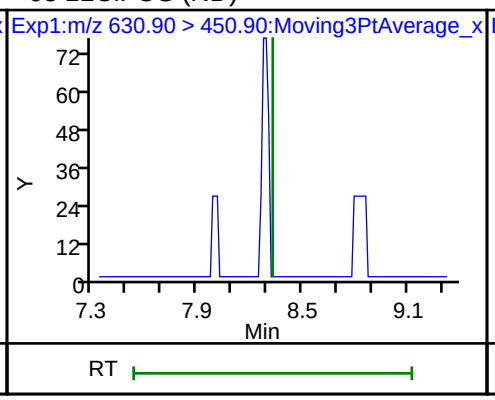
67 PFTrDA (ND)



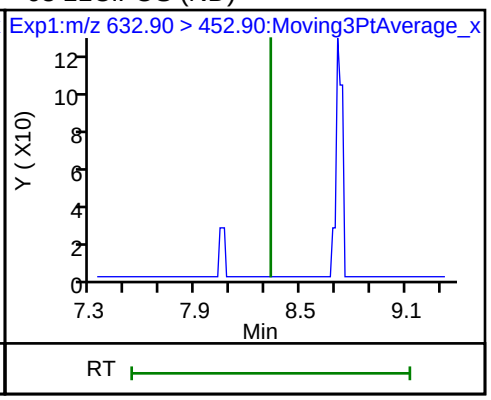
67 PFTrDA (ND)



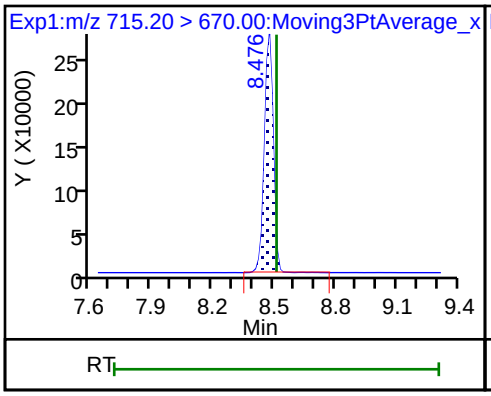
68 11ClFOS (ND)



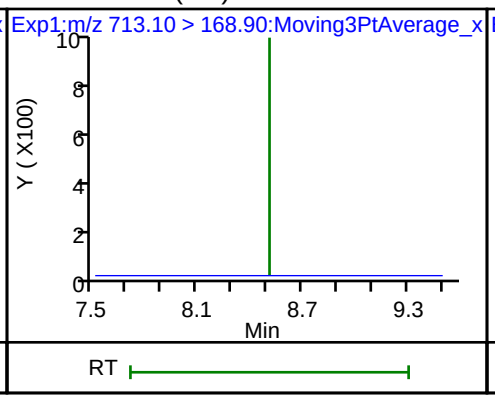
68 11ClFOS (ND)



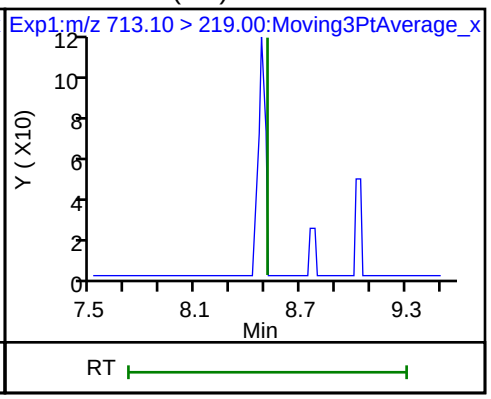
D 69 13C2 PFTeDA



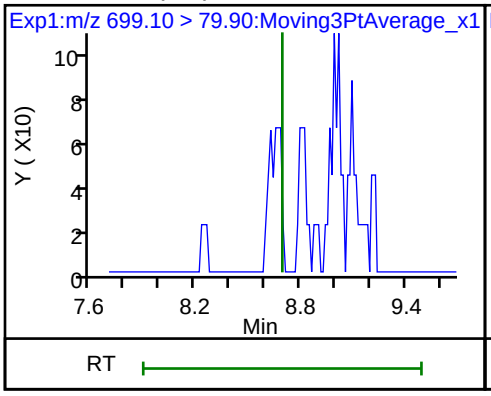
70 PFTeDA (ND)



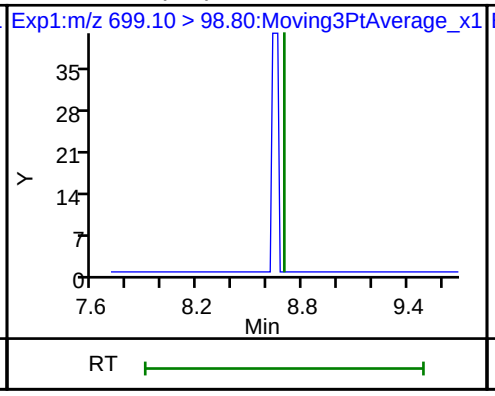
70 PFTeDA (ND)



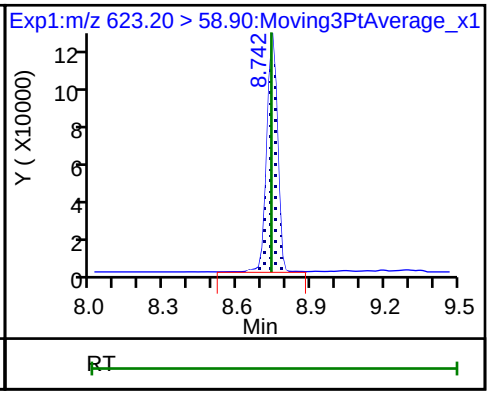
73 PFDoS (ND)



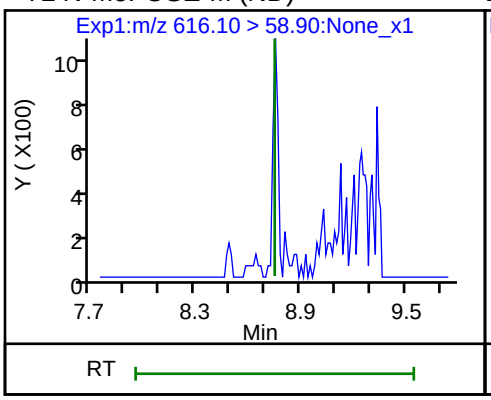
73 PFDoS (ND)



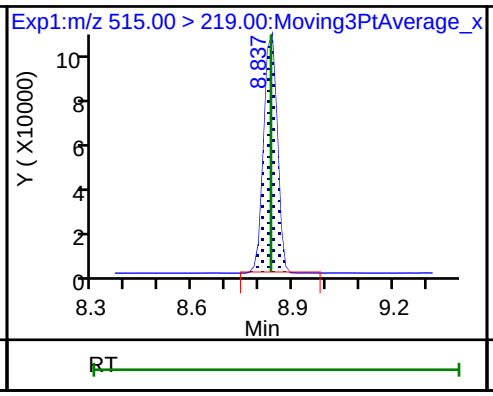
D 71 d7-N-Me-FOSE



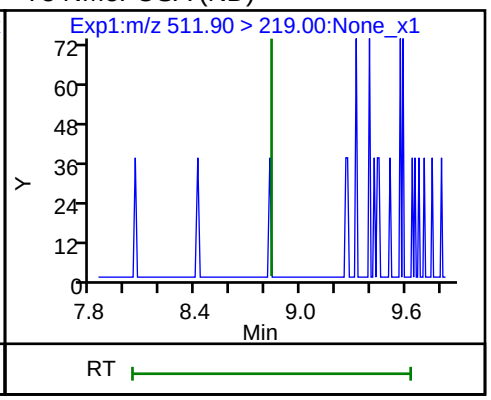
72 N-MeFOSE-M (ND)



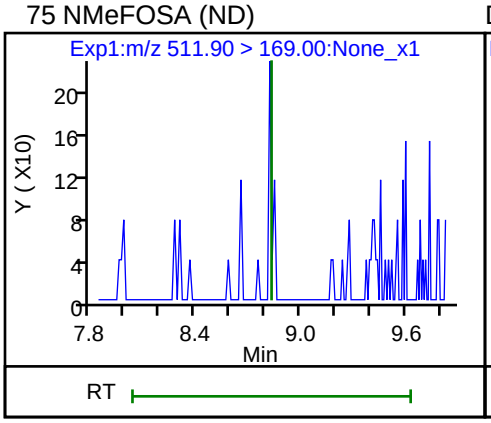
D 74 d3-NMePFOSA



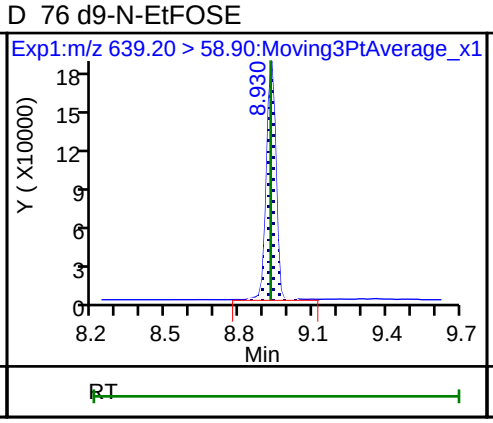
75 NMeFOSA (ND)



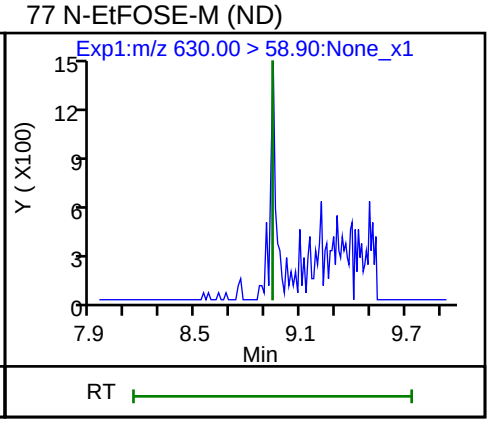
75 NMeFOSA (ND)



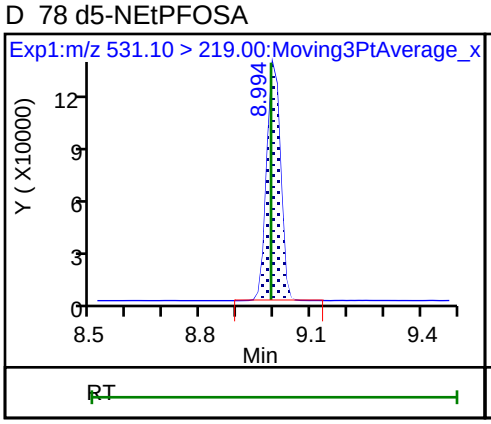
D 76 d9-N-EtFOSE



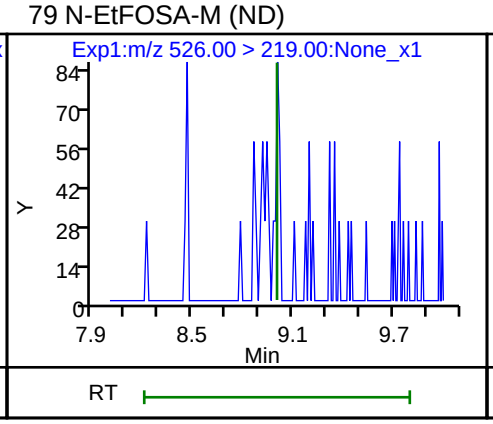
77 N-EtFOSE-M (ND)



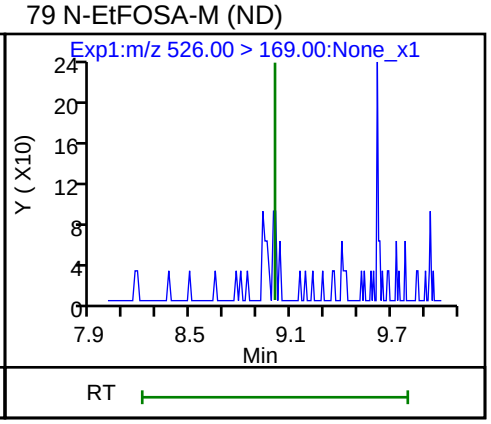
D 78 d5-NEtPFOSA



79 N-EtFOSA-M (ND)



79 N-EtFOSA-M (ND)



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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-763424/1	26Feb02CAL-01.d
Level 2	IC 410-763424/2	26Feb02CAL-02.d
Level 3	IC 410-763424/3	26Feb02CAL-03.d
Level 4	IC 410-763424/4	26Feb02CAL-04.d
Level 5	ICISAV 410-763424/5	26Feb02CAL-05.d
Level 6	IC 410-763424/6	26Feb02CAL-06.d
Level 7	IC 410-763424/7	26Feb02CAL-07.d
Level 8	IC 410-763424/8	26Feb02CAL-60.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluoropropionic acid (PFPrA)	0.9542 0.9210	0.9148 0.9286	0.9032	0.8947	0.9836	AveID		0.9286				3.3		20.0			
Perfluorobutanoic acid (PFBA)	0.9487 0.9140	0.9765 0.9235	0.9097 0.9036	0.9353	0.9995	AveID		0.9389				3.6		20.0			
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.0812 1.0467	1.0427 1.0389	1.0413	1.0942	1.1415	AveID		1.0695				3.6		20.0			
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.0493 0.0526	0.0491 0.0513	0.0523	0.0513	0.0553	AveID		0.0516				4.1		20.0			
Perfluoropentanoic acid (PFPeA)	1.3000 1.0881	1.1037 1.1049	1.0824 1.1237	1.1095	1.2024	AveID		1.1393				6.6		20.0			
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.3422 1.2535	1.2643 1.2733	1.3033	1.2302	1.3575	AveID		1.2892				3.7		20.0			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.7686 1.6664	1.7465 1.6932	1.6310	1.8383	1.7967	AveID		1.7344				4.3		20.0			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.4091 0.3788	0.4218 0.3906	0.3685	0.3874	0.3933	AveID		0.3928				4.6		20.0			
Perfluorohexanoic acid (PFHxA)	1.0908 0.9075	1.0993 0.9389	0.8935 0.9126	0.9072	0.9326	AveID		0.9603				8.8		20.0			
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.1271 0.1212	0.1233 0.1269	0.1145	0.1242	0.1201	AveID		0.1225				3.6		20.0			
Perfluorobutanesulfonic acid (PFBS)	0.8957 0.9406	0.9366 0.9016	0.8161 0.8437	0.9380	0.9722	AveID		0.9056				5.8		20.0			
Perfluorobutanesulfonamide (FBSA)	0.8348 0.8342	0.7924 0.7872	0.7143	0.7898	0.8195	AveID		0.7960				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Hexafluoropropylene oxide dimer acid (HFPO DA)	1.1673 0.9068	1.0238 0.9400	0.9125 0.8575	0.9011	0.9611	AveID		0.9588				10.2		20.0			
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.0046 2.1741	2.2307 2.0173	2.0054	2.1185	2.1111	AveID		2.0945				4.3		20.0			
Perfluoroheptanoic acid (PFHpA)	1.0301 0.9848	1.0048 0.9482	0.9684 0.9449	0.9793	0.9823	AveID		0.9803				2.9		20.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.5909 3.1291	3.4445 3.1653	3.2503 2.8502	3.3113	3.4139	AveID		3.2694				7.0		20.0			
Perfluoropentanesulfonic acid (PFPeS)	1.3061 1.3414	1.2744 1.2996	1.3799 1.1996	1.2457	1.4665	AveID		1.3142				6.3		20.0			
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	2.0829 2.1150	2.0991 2.0617	1.9093	1.9746	2.3362	AveID		2.0827				6.4		20.0			
Bis(trifluoromethane)sulfonamide (TFSI)	2.0208 2.1563	2.1577 2.2524	2.1660	2.0969	2.2251	AveID		2.1536				3.6		20.0			
Perfluorooctanoic acid (PFOA)	0.7665 0.7296	0.8614 0.7634	0.7014 0.6981	0.7446	0.8019	AveID		0.7584				7.1		20.0			
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.1128 0.1142	0.1110 0.1173	0.1066	0.1124	0.1053	AveID		0.1114				3.8		20.0			
Perfluorohexanesulfonic acid (PFHxS)	1.4361 1.2924	1.2687 1.2662	1.2142 1.1760	1.2381	1.3551	AveID		1.2809				6.4		20.0			
Perfluorononanoic acid (PFNA)	0.8852 0.8911	0.9342 0.8076	0.8372 0.8469	0.8688	0.9435	AveID		0.8768				5.3		20.0			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.6348 1.6003	1.6395 1.6667	1.5690	1.6462	1.7359	AveID		1.6418				3.2		20.0			
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.3407 0.3254	0.3545 0.3415	0.3283	0.3024	0.3359	AveID		0.3327				4.9		20.0			
Perfluoroheptanesulfonic acid (PFHpS)	1.0693 1.1672	1.3110 1.2285	1.0888 1.1817	1.2911	1.3187	AveID		1.2070				8.0		20.0			
Perfluorohexanesulfonamide (FHxSA)	1.3495 1.3542	1.3523 1.4168	1.2821	1.3668	1.4683	AveID		1.3700				4.3		20.0			
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.1891 1.1086	1.0919 1.0827	1.1100	1.1235	1.1180	AveID		1.1177				3.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluorodecanoic acid (PFDA)	0.9056 0.8074	0.8657 0.7968	0.7969	0.8207	0.8696	AveID		0.8375				5.1		20.0			
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.8529 0.8376	0.8390 0.8087	0.7957	0.8044	0.8098	AveID		0.8212				2.6		20.0			
Perfluorooctanesulfonic acid (PFOS)	1.3537 1.3408	1.5462 1.4999	1.3462 1.4769	1.4622	1.5092	AveID		1.4419				5.7		20.0			
Perfluoroundecanoic acid (PFUnA)	0.7103 0.7118	0.7563 0.7725	0.7483	0.7105	0.7674	AveID		0.7396				3.8		20.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.6746 2.7668	2.8561 2.9127	2.7179	2.9609	3.0642	AveID		2.8504				4.9		20.0			
Perfluorononanesulfonic acid (PFNS)	1.0788 1.0923	1.2118 1.1378	1.1098	1.1916	1.2311	AveID		1.1504				5.3		20.0			
Perfluorododecanoic acid (PFDoA)	0.8714 0.8829	0.9065 0.8861	0.8654	0.9183	0.9150	AveID		0.8922				2.4		20.0			
Perfluorooctanesulfonamide (FOSA)	0.9238 0.8949	0.9673 0.8911	0.9139	0.8689	0.9613	AveID		0.9173				4.0		20.0			
Perfluorodecanesulfonic acid (PFDS)	1.0542 1.1361	1.2664 1.1846	1.1032	1.2023	1.2431	AveID		1.1700				6.5		20.0			
Perfluorotridecanoic acid (PFTrDA)	1.3148 1.1609	1.2585 1.1737	1.1749	1.1591	1.2593	AveID		1.2145				5.1		20.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0637 2.1373	2.2478 2.2376	2.0913	2.2590	2.3846	AveID		2.2030				5.1		20.0			
Perfluorotetradecanoic acid (PFTeDA)	0.1895 0.1714	0.1791 0.1802	0.1652	0.1665	0.1697	AveID		0.1745				5.0		20.0			
Perfluorododecanesulfonic acid (PFDoS)	0.6312 0.6734	0.7344 0.7249	0.6405	0.6914	0.7568	AveID		0.6932				6.9		20.0			
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.7446 2.6680	2.7985 2.6350	2.5598	2.5957	2.8062	AveID		2.6868				3.6		20.0			
N-methylperfluorooctane sulfonamide (NMeFOSA)	1.1076 0.9950	1.0310 1.0124	0.9804	0.9870	1.0508	AveID		1.0234				4.4		20.0			
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	4.0614 3.7378	4.1647 3.8821	3.7409	3.8806	4.1912	AveID		3.9512				4.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.9826 0.9095	1.0137 0.9381	0.8905	0.8947	0.9653	AveInn		0.9421				5.0		20.0			
Perfluoro-n-octadecanoic acid (PFODA)	1.0190 0.9417	0.9919 1.0625	0.8657	0.8301	0.9315	AveInn		0.9489				8.7		20.0			
13C3-PFPrA	0.7232 0.7313	0.7272 0.7409	0.7157 +++++	0.7394	0.6963	Ave		0.7248				2.1		20.0			
13C4 PFBA	1.2215 1.2065	1.2035 1.2359	1.2013 1.2045	1.2380	1.1526	Ave		1.2080				2.2		20.0			
13C5 PFPeA	0.8054 0.8316	0.8457 0.8415	0.8073 0.7927	0.8159	0.8185	Ave		0.8198				2.3		20.0			
M2-4:2 FTS	0.2692 0.2424	0.2531 0.2355	0.2757 +++++	0.2444	0.2501	Ave		0.2529				5.8		20.0			
13C5 PFHxA	1.1669 1.1463	1.1146 1.1670	1.1679 1.1138	1.1414	1.2275	Ave		1.1557				3.2		20.0			
13C3 PFBS	1.2926 1.2436	1.2946 1.2745	1.3689 1.1804	1.2422	1.2883	Ave		1.2731				4.3		20.0			
13C3 HFPO-DA	0.7198 0.8232	0.7633 0.8126	0.7840 0.8318	0.7848	0.8091	Ave		0.7911				4.6		20.0			
13C4 PFHpA	1.0583 1.1460	1.1355 1.1717	1.0968 1.1126	1.1512	1.1909	Ave		1.1329				3.8		20.0			
M2-6:2 FTS	0.1610 0.1373	0.1573 0.1279	0.1608 +++++	0.1561	0.1505	Ave		0.1501				8.5		20.0			
13C8 PFOA	0.9583 1.0057	1.0211 1.0303	1.0029 1.0160	1.0356	0.9271	Ave		0.9996				3.8		20.0			
13C3 PFHxS	1.0092 0.9877	1.0121 0.9896	0.9983 1.0408	1.0120	0.9620	Ave		1.0015				2.3		20.0			
13C9 PFNA	1.0362 0.9588	1.0623 1.0335	1.0043 1.0005	1.0126	0.9271	Ave		1.0044				4.3		20.0			
M2-8:2 FTS	0.1490 0.1465	0.1393 0.1471	0.1473 +++++	0.1498	0.1441	Ave		0.1462				2.4		20.0			
d3-NMeFOSAA	0.3331 0.3851	0.3538 0.4152	0.3714 +++++	0.3701	0.3760	Ave		0.3721				6.9		20.0			
13C6 PFDA	0.9663 1.0284	0.9689 1.0522	1.0948 +++++	1.0638	0.9670	Ave		1.0202				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
d5-NEtFOSAA	0.3070 0.3239	0.3089 0.3621	0.3284 +++++	0.3289	0.3418	Ave		0.3287				5.8		20.0			
13C8 PFOS	0.9503 0.9543	0.9023 0.9399	0.9631 0.9225	0.8953	0.8779	Ave		0.9257				3.4		20.0			
13C7 PFUnA	1.1995 1.2748	1.2285 1.2081	1.2232 +++++	1.3205	1.1305	Ave		1.2265				4.9		20.0			
13C2 PFDoA	1.0413 1.1141	1.0583 1.1606	1.0902 +++++	1.1110	1.0351	Ave		1.0872				4.2		20.0			
13C8 FOSA	1.1022 1.1656	1.1385 1.2593	1.0869 +++++	1.1511	1.0975	Ave		1.1430				5.2		20.0			
13C2 PFTeDA	0.5228 0.6201	0.5711 0.6414	0.6148 +++++	0.6516	0.5792	Ave		0.6001				7.5		20.0			
d7-N-MeFOSE-M	0.1623 0.1689	0.1597 0.1906	0.1603 +++++	0.1676	0.1631	Ave		0.1675				6.4		20.0			
d3-NMePFOSA	0.2482 0.2630	0.2657 0.2794	0.2542 +++++	0.2597	0.2489	Ave		0.2599				4.2		20.0			
d9-N-EtFOSE-M	0.1602 0.1807	0.1632 0.1856	0.1699 +++++	0.1707	0.1626	Ave		0.1704				5.6		20.0			
d5-NEtPFOSA	0.3087 0.3239	0.3099 0.3400	0.3140 +++++	0.3181	0.3048	Ave		0.3171				3.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 460-344047-1 | Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 | GC Column: Gemini C18 ID: 3(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 | Calibration End Date: 02/02/2026 16:40 | Calibration ID: 81396

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-763424/1	26Feb02CAL-01.d
Level 2	IC 410-763424/2	26Feb02CAL-02.d
Level 3	IC 410-763424/3	26Feb02CAL-03.d
Level 4	IC 410-763424/4	26Feb02CAL-04.d
Level 5	ICISAV 410-763424/5	26Feb02CAL-05.d
Level 6	IC 410-763424/6	26Feb02CAL-06.d
Level 7	IC 410-763424/7	26Feb02CAL-07.d
Level 8	IC 410-763424/8	26Feb02CAL-60.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Perfluoropropionic acid (PFPrA)		AveID	191823 18347988	463624 35595948	1857428	3811752	9840827	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorobutanoic acid (PFBA)		AveID	128836 12017466	327643 23619846	1256127 79939334	2668703	6620870	0.100 10.0	0.250 20.0	1.00 100	2.00	5.00
Perfluoro-3-methoxypropanoic acid (PFMPA)		AveID	53973 5265717	135312 10394919	523925	1139261	2819217	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
3-Perfluoropropylpropanoic acid (3:3 FTCA)		AveID	4923 529700	12745 1025653	52627	106728	272966	0.100 10.0	0.250 20.0	1.00	2.00	5.00
Perfluoropentanoic acid (PFPeA)		AveID	64895 5473948	143226 11055241	544652 44674500	1155115	2969518	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
Perfluoro-4-methoxybutanoic acid (PFMBA)		AveID	66997 6306308	164073 12740458	655802	1280809	3352567	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)		AveID	40828 3446554	96598 6529279	384908	807693	1921085	0.0938 9.38	0.235 18.8	0.938	1.88	4.69
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		AveID	29588 2626726	72138 5419946	268234	564171	1456527	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorohexanoic acid (PFHxA)		AveID	78887 6293324	188020 13027924	650394 50985542	1321218	3454282	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
3-Perfluoropentylpropanoic acid (5:3 FTCA)		AveID	45974 4200925	105404 8807541	416827	904393	2224438	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorobutanesulfonic acid (PFBS)		AveID	46996 4724783	125418 8907787	452566 30792531	991621	2534754	0.0444 4.44	0.111 8.88	0.444 44.4	0.888	2.22
Perfluorobutanesulfonamide (FBSA)		AveID	49328	119486	446080	940296	2406134	0.0500	0.125	0.500	1.00	2.50

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			4719043	8758574				5.00	10.0			
Hexafluoropropylene oxide dimer acid (HFPO DA)		AveID	39055 3386882	89934 6811368	334412 35776652	676800	1759843	0.0375 3.75	0.0938 7.50	0.375 50.0	0.750	1.88
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)		AveID	129321 13448156	340326 24968942	1302173	2752201	6974665	0.0446 4.46	0.112 8.92	0.446	0.892	2.23
Perfluoroheptanoic acid (PFHpA)		AveID	67566 6827189	175067 13209493	661972 52730122	1438515	3529873	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveID	151543 14740553	381644 28929041	1502469 84368534	3137006	7884700	0.0473 4.73	0.118 9.46	0.473 35.5	0.946	2.37
Perfluoropentanesulfonic acid (PFPeS)		AveID	56639 5664698	141230 10553637	590741 40865762	1135624	3022539	0.0470 4.70	0.118 9.40	0.470 47.0	0.940	2.35
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		AveID	29183 2514735	73232 4382041	266748	562420	1525478	0.0952 9.52	0.238 19.0	0.952	1.90	4.76
Bis(trifluoromethane)sulfonamide (TFSI)		AveID	91270 9483852	249039 19049826	965777	1990945	4776274	0.0490 4.90	0.122 9.79	0.490	0.979	2.45
Perfluorooctanoic acid (PFOA)		AveID	64589 6372690	182849 13084845	610603 54358173	1352414	3509912	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
3-Perfluoroheptylpropanoic acid (7:3 FTCA)		AveID	40789 3961065	94901 8140278	388022	818640	1950080	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorohexanesulfonic acid (PFHxS)		AveID	60424 5295247	136402 9975990	504315 38867345	1095101	2709799	0.0456 4.56	0.114 9.12	0.456 45.6	0.912	2.28
Perfluorononanoic acid (PFNA)		AveID	64911 6410956	176780 12243666	630745 53452237	1398822	3381913	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)		AveID	21382 2047062	51086 4109263	202494	453809	1094614	0.0960 9.60	0.240 19.2	0.960	1.92	4.80
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)		AveID	14523 1350771	38612 2725652	138158	270966	680486	0.0462 4.62	0.116 9.24	0.462	0.924	2.31
Perfluoroheptanesulfonic acid (PFHpS)		AveID	42619 4460896	121801 8638480	437920 32584874	993194	2407449	0.0477 4.77	0.119 9.54	0.477 47.7	0.954	2.39
Perfluorohexanesulfonamide (FHxSA)		AveID	62256 6083519	159424 12239999	583911	1325547	3219342	0.0500 5.00	0.125 10.0	0.500	1.00	2.50

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveID	17415 1792195	41691 3525334	180451	374457	916410	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorodecanoic acid (PFDA)		AveID	66688 6025453	157464 11827432	666884	1351168	3423534	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveID	11510 1139081	27968 2296236	114391	238269	603451	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveID	52598 4995607	140032 10281147	527790 39698565	1096571	2685914	0.0465 4.65	0.116 9.30	0.465 46.5	0.930	2.33
Perfluoroundecanoic acid (PFUnA)		AveID	64929 6584536	174434 13165380	699625	1452005	3531904	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O		AveID	104366 10353175	259778 20051598	1070173	2230002	5476822	0.0467 4.67	0.117 9.34	0.467	0.934	2.34
Perfluorononanesulfonic acid (PFNS)		AveID	43358 4209844	113523 8067541	450096	924334	2266375	0.0481 4.81	0.120 9.62	0.481	0.962	2.41
Perfluorododecanoic acid (PFDoA)		AveID	69146 7137322	180086 14509100	721134	1578827	3855950	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorooctanesulfonamide (FOSA)		AveID	44764 4379297	118856 8799999	434811	900785	2300012	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	42459 4387814	118891 8416905	448361	934607	2293186	0.0482 4.82	0.121 9.64	0.482	0.964	2.41
Perfluorotridecanoic acid (PFTrDA)		AveID	78357 7304148	192481 14918045	765625	1580773	4138235	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF		AveID	81390 8083091	206642 15568488	832259	1719584	4307749	0.0472 4.72	0.118 9.44	0.472	0.944	2.36
Perfluorotetradecanoic acid (PFTeDA)		AveID	7552 770998	19205 1630354	77634	167840	400166	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorododecanesulfonic acid (PFDoS)		AveID	25580 2616776	69373 5182622	261917	540773	1404830	0.0485 4.85	0.121 9.70	0.485	0.970	2.43
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)		AveID	97887 9458142	241229 19688191	898219	1959508	4987990	0.250 25.0	0.625 50.0	2.50	5.00	12.5
N-methylperfluorooctane sulfonamide (NMeFOSA)		AveID	12084	29571	109082	230829	570195	0.0500	0.125	0.500	1.00	2.50

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 460-344047-1 | Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 | GC Column: Gemini C18 ID: 3(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 | Calibration End Date: 02/02/2026 16:40 | Calibration ID: 81396

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			1098739	2217920				5.00	10.0			
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)		AveID	143050 14176138	366687 28245248	1390902	2982887	7426028	0.250 25.0	0.625 50.0	2.50	5.00	12.5
N-ethylperfluorooctane sulfonamide (NEtFOSA)		AveID	13337 1236800	33907 2501256	122388	256301	641492	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	40599 4237134	106343 9613451	406792	836995	2196468	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
13C3-PFPrA	13C3PFBA	Ave	1608171 1593795	1621849 1533361	1645190 +++++	1704090	1600708	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
13C4 PFBA	13C3PFBA	Ave	2716028 2629643	2684165 2557702	2761611 1769316	2853201	2649798	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C5 PFPeA	PFHxA	Ave	1996702 2012315	2076364 2001119	2012670 1590316	2082289	1975768	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
M2-4:2 FTS	PFHxS	Ave	1154273 1034125	1106176 964066	1179941 +++++	1098403	1069212	4.69 4.69	4.69 4.69	4.69 +++++	4.69	4.69
13C5 PFHxA	PFHxA	Ave	2892934 2773862	2736629 2775135	2911762 2234657	2912880	2963040	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C3 PFBS	PFHxS	Ave	2202736 2108815	2248706 2073929	2328180 1532156	2219097	2189227	1.86 1.86	1.86 1.86	1.86 1.86	1.86	1.86
13C3 HFPO-DA	PFHxA	Ave	1784435 1991911	1873985 1932218	1954578 1668805	2002913	1953115	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C4 PFHpA	PFHxA	Ave	2623767 2773060	2787718 2786329	2734403 2232134	2937982	2874716	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
M2-6:2 FTS	PFHxS	Ave	700522 594499	697735 531365	698551 +++++	712051	652981	4.76 4.76	4.76 4.76	4.76 +++++	4.76	4.76
13C8 PFOA	PFOA	Ave	3370762 3493877	3396255 3427872	3482298 3114619	3632480	3501614	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C3 PFHxS	PFHxS	Ave	1749401 1703545	1788184 1637974	1727016 1374187	1838796	1662870	1.90 1.90	1.90 1.90	1.90 1.90	1.90	1.90
13C9 PFNA	PFNA	Ave	2933040 2877768	3027572 3032084	3013766 2524652	3220001	2867428	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
M2-8:2 FTS	PFHxS	Ave	653949 639586	623183 616389	645293 +++++	689176	630560	4.80 4.80	4.80 4.80	4.80 +++++	4.80	4.80
d3-NMeFOSAA	PFOS	Ave	1464553 1616653	1527232 1628092	1625634 +++++	1666482	1639421	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
13C6 PFDA	PFDA	Ave	2945593	2910412	3347197	3292675	3149568	2.00	2.00	2.00	2.00	2.00

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			2985012	2968739	+++++			2.00	2.00	+++++		
d5-NEtFOSAA	PFOS	Ave	1349510 1359926	1333414 1419720	1437705 +++++	1481028	1490298	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
13C8 PFOS	PFOS	Ave	1600975 1535223	1492693 1412203	1615489 1107567	1545005	1466647	1.92 1.92	1.92 1.92	1.92 1.92	1.92	1.92
13C7 PFUnA	PFDA	Ave	3656251 3699965	3690148 3408605	3740043 +++++	4087266	3682140	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
13C2 PFDoA	PFDA	Ave	3173999 3233567	3178687 3274670	3333331 +++++	3438660	3371420	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
13C8 FOSA	PFOS	Ave	1938264 1957375	1966070 1975083	1903054 +++++	2073462	1914006	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
13C2 PFTeDA	PFDA	Ave	1593746 1799704	1715367 1809567	1879696 +++++	2016701	1886419	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
d7-N-MeFOSE-M	PFOS	Ave	713313 709006	689602 747186	701793 +++++	754892	711008	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
d3-NMePFOSA	PFOS	Ave	436399 441724	458904 438166	445062 +++++	467729	434116	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
d9-N-EtFOSE-M	PFOS	Ave	704442 758528	704379 727574	743622 +++++	768669	708731	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
d5-NEtPFOSA	PFOS	Ave	542907 543957	535183 533251	549760 +++++	572941	531619	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00

Curve Type Legend:
Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-763424/1	26Feb02CAL-01.d
Level 2	IC 410-763424/2	26Feb02CAL-02.d
Level 3	IC 410-763424/3	26Feb02CAL-03.d
Level 4	IC 410-763424/4	26Feb02CAL-04.d
Level 5	ICISAV 410-763424/5	26Feb02CAL-05.d
Level 6	IC 410-763424/6	26Feb02CAL-06.d
Level 7	IC 410-763424/7	26Feb02CAL-07.d
Level 8	IC 410-763424/8	26Feb02CAL-60.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Perfluoropropionic acid (PFPrA)	2.8 0.0	-1.5	-2.7	-3.6	5.9	-0.8	30 30	30	30	30	30	30
Perfluorobutanoic acid (PFBA)	1.0 -1.6	4.0 -3.8	-3.1	-0.4	6.5	-2.6	30 30	30 30	30	30	30	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.1 -2.9	-2.5	-2.6	2.3	6.7	-2.1	30 30	30	30	30	30	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	-4.4 -0.7	-4.8	1.4	-0.6	7.1	2.0	30 30	30	30	30	30	30
Perfluoropentanoic acid (PFPeA)	14.1 -3.0	-3.1 -1.4	-5.0	-2.6	5.5	-4.5	30 30	30 30	30	30	30	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.1 -1.2	-1.9	1.1	-4.6	5.3	-2.8	30 30	30	30	30	30	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.0 -2.4	0.7	-6.0	6.0	3.6	-3.9	30 30	30	30	30	30	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.2 -0.5	7.4	-6.2	-1.4	0.1	-3.6	30 30	30	30	30	30	30
Perfluorohexanoic acid (PFHxA)	13.6 -2.2	14.5 -5.0	-7.0	-5.5	-2.9	-5.5	30 30	30 30	30	30	30	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	3.8 3.7	0.6	-6.5	1.4	-1.9	-1.1	30 30	30	30	30	30	30
Perfluorobutanesulfonic acid (PFBS)	-1.1 -0.4	3.4 -6.8	-9.9	3.6	7.4	3.9	30 30	30 30	30	30	30	30
Perfluorobutanesulfonamide (FBSA)	4.9 -1.1	-0.5	-10.3	-0.8	2.9	4.8	30 30	30	30	30	30	30
Hexafluoropropylene oxide dimer acid (HFPO DA)	21.7 -2.0	6.8 -10.6	-4.8	-6.0	0.2	-5.4	30 30	30 30	30	30	30	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	-4.3 -3.7	6.5	-4.3	1.1	0.8	3.8	30 30	30	30	30	30	30

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Perfluoroheptanoic acid (PFHpA)	5.1 -3.3	2.5 -3.6	-1.2	-0.1	0.2	0.5	30 30	30 30	30	30	30	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.8 -3.2	5.4 -12.8	-0.6	1.3	4.4	-4.3	30 30	30 30	30	30	30	30
Perfluoropentanesulfonic acid (PFPeS)	-0.6 -1.1	-3.0 -8.7	5.0	-5.2	11.6	2.1	30 30	30 30	30	30	30	30
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.0 -1.0	0.8	-8.3	-5.2	12.2	1.6	30 30	30	30	30	30	30
Bis(trifluoromethane)sulfonamide (TFSI)	-6.2 4.6	0.2	0.6	-2.6	3.3	0.1	30 30	30	30	30	30	30
Perfluorooctanoic acid (PFOA)	1.1 0.7	13.6 -7.9	-7.5	-1.8	5.7	-3.8	30 30	30 30	30	30	30	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.3 5.3	-0.4	-4.3	0.9	-5.5	2.6	30 30	30	30	30	30	30
Perfluorohexanesulfonic acid (PFHxS)	12.1 -1.1	-1.0 -8.2	-5.2	-3.3	5.8	0.9	30 30	30 30	30	30	30	30
Perfluorononanoic acid (PFNA)	1.0 -7.9	6.5 -3.4	-4.5	-0.9	7.6	1.6	30 30	30 30	30	30	30	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	-0.4 1.5	-0.1	-4.4	0.3	5.7	-2.5	30 30	30	30	30	30	30
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	2.4 2.6	6.6	-1.3	-9.1	1.0	-2.2	30 30	30	30	30	30	30
Perfluoroheptanesulfonic acid (PFHpS)	-11.4 1.8	8.6 -2.1	-9.8	7.0	9.2	-3.3	30 30	30 30	30	30	30	30
Perfluorohexanesulfonamide (FHxSA)	-1.5 3.4	-1.3	-6.4	-0.2	7.2	-1.2	30 30	30	30	30	30	30
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	6.4 -3.1	-2.3	-0.7	0.5	0.0	-0.8	30 30	30	30	30	30	30
Perfluorodecanoic acid (PFDA)	8.1 -4.9	3.4	-4.8	-2.0	3.8	-3.6	30 30	30	30	30	30	30
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.9 -1.5	2.2	-3.1	-2.0	-1.4	2.0	30 30	30	30	30	30	30
Perfluorooctanesulfonic acid (PFOS)	-6.1 4.0	7.2 2.4	-6.6	1.4	4.7	-7.0	30 30	30 30	30	30	30	30
Perfluoroundecanoic acid (PFUnA)	-4.0 4.4	2.3	1.2	-3.9	3.8	-3.8	30 30	30	30	30	30	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-6.2 2.2	0.2	-4.7	3.9	7.5	-2.9	30 30	30	30	30	30	30

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 763424

SDG No.:

Instrument ID: 30575 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2026 11:43 Calibration End Date: 02/02/2026 16:40 Calibration ID: 81396

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Perfluorononanesulfonic acid (PFNS)	-6.2 -1.1	5.3	-3.5	3.6	7.0	-5.1	30 30	30	30	30	30	30
Perfluorododecanoic acid (PFDoA)	-2.3 -0.7	1.6	-3.0	2.9	2.6	-1.0	30 30	30	30	30	30	30
Perfluorooctanesulfonamide (FOSA)	0.7 -2.9	5.4	-0.4	-5.3	4.8	-2.4	30 30	30	30	30	30	30
Perfluorodecanesulfonic acid (PFDS)	-9.9 1.2	8.2	-5.7	2.8	6.2	-2.9	30 30	30	30	30	30	30
Perfluorotridecanoic acid (PFTrDA)	8.3 -3.4	3.6	-3.3	-4.6	3.7	-4.4	30 30	30	30	30	30	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-6.3 1.6	2.0	-5.1	2.5	8.2	-3.0	30 30	30	30	30	30	30
Perfluorotetradecanoic acid (PFTeDA)	8.6 3.3	2.6	-5.3	-4.6	-2.8	-1.8	30 30	30	30	30	30	30
Perfluorododecanesulfonic acid (PFDoS)	-8.9 4.6	5.9	-7.6	-0.3	9.2	-2.9	30 30	30	30	30	30	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.1 -1.9	4.2	-4.7	-3.4	4.4	-0.7	30 30	30	30	30	30	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	8.2 -1.1	0.7	-4.2	-3.6	2.7	-2.8	30 30	30	30	30	30	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.8 -1.7	5.4	-5.3	-1.8	6.1	-5.4	30 30	30	30	30	30	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.3 -0.4	7.6	-5.5	-5.0	2.5	-3.5	30 30	30	30	30	30	30
Perfluoro-n-octadecanoic acid (PFODA)	7.4 12.0	4.5	-8.8	-12.5	-1.8	-0.8	30 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-01.d
Lims ID: IC CAL 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 02-Feb-2026 11:43:40 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 1
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:56:14 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: P7EB Date: 02-Feb-2026 12:10:58
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 2 13C3PFPrA										
166.00 > 121.00	2.106	2.106	0.0	0.485	1608171	2.00		99.8	1048	
1 Perfluoropropionic acid										
163.00 > 119.00	2.122	2.122	0.0	1.007	191823	0.2569		103	91.7	
5 PFBA										
212.80 > 168.90	4.338	4.338	0.0	0.998	128836	0.1010		101	245	
D 6 13C4-PFBA										
216.80 > 171.90	4.346	4.346	0.0	1.000	2716028	2.02		101	7830	
* 7 13C3PFBA										
216.00 > 172.00	4.346	4.346	0.0		2223575	2.00			6633	
9 PFMPA										
229.00 > 84.90	4.637	4.637	0.0	0.933	53973	0.0505		101	254	
10 3:3 FTCA										
241.00 > 177.00	4.647	4.647	0.0	0.935	4923	0.0956	Target=1.27	95.6	122	
241.00 > 117.00	4.647	4.647	0.0	0.935	3768		1.31(0.63-1.90)	95.6	43.7	
D 11 13C5 PFPeA										
268.30 > 223.00	4.968	4.968	0.0	0.915	1996702	1.96		98.2	19403	
12 PFPA										
263.00 > 219.00	4.968	4.968	0.0	1.000	64895	0.0571		114	104	
13 PFMBA										
279.00 > 85.10	5.125	5.125	0.0	1.031	66997	0.0521		104	361	
15 4:2FTS										M
327.10 > 307.00	5.253	5.253	0.0	1.000	40828	0.0956	Target=1.60	102	302	
327.10 > 80.90	5.240	5.253	-0.013	0.998	24535		1.66(0.80-2.40)	102	22.6	M
D 14 13C2-4:2FTS										
329.10 > 80.90	5.253	5.253	0.0	0.812	1154273	4.99		106	6522	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.391	5.391	0.0	0.992	29588	0.0521	Target=1.47	104	163	
295.00 > 84.90	5.391	5.391	0.0	0.992	20164		1.47(0.74-2.21)	104	134	
D 17 13C5 PFHxA										
318.00 > 273.00	5.432	5.432	0.0	1.000	2892934	2.02		101	19930	
* 18 13C2 PFHxA										
315.10 > 270.00	5.432	5.432	0.0		6198075	5.00			10548	
19 PFHxA										
313.00 > 269.00	5.432	5.432	0.0	1.000	78887	0.0568	Target=11.71	114	176	
313.00 > 118.90	5.432	5.432	0.0	1.000	7016		11.24(5.85-17.56)	114	35.5	
22 5:3 FTCA										
341.00 > 237.10	5.514	5.514	0.0	1.015	45974	0.2595	Target=0.90	104	178	
341.00 > 217.00	5.514	5.514	0.0	1.015	48316		0.95(0.45-1.35)	104	274	
21 PFBS										
298.70 > 79.90	5.569	5.569	0.0	1.000	46996	0.0439	Target=2.89	98.9	236	
298.70 > 98.80	5.569	5.569	0.0	1.000	17249		2.72(1.44-4.33)	98.9	101	
D 20 13C3 PFBS										
302.10 > 79.90	5.569	5.569	0.0	0.860	2202736	1.89		102	12426	
28 FBSA										
297.90 > 78.00	5.583	5.583	0.0	1.003	49328	0.0524		105	249	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.626	5.626	0.0	1.036	1784435	1.82		91.0	4724	
24 HFPO-DA										
284.90 > 168.90	5.626	5.626	0.0	1.000	39055	0.0457	Target=2.42	122	143	
284.90 > 184.90	5.626	5.626	0.0	1.000	13281		2.94(1.21-3.62)	122	64.8	
25 PFEESA										
314.80 > 134.90	5.807	5.807	0.0	1.069	129321	0.0427	Target=13.09	95.7	444	
314.80 > 82.90	5.807	5.807	0.0	1.069	10526		12.29(6.55-19.64)	95.7	66.3	
27 PFHpA										
363.10 > 319.00	5.857	5.857	0.0	1.000	67566	0.0525	Target=2.35	105	149	
363.10 > 169.00	5.857	5.857	0.0	1.000	30398		2.22(1.17-3.52)	105	167	
D 26 13C4 PFHpA										
367.10 > 322.00	5.857	5.857	0.0	1.078	2623767	1.87		93.4	5997	
29 ADONA										
376.90 > 250.90	5.999	5.999	0.0	1.066	151543	0.0520	Target=1.85	110	524	
376.90 > 84.80	5.999	5.999	0.0	1.066	76850		1.97(0.92-2.77)	110	325	
32 PFPeS										
349.10 > 79.90	6.033	6.033	0.0	0.932	56639	0.0467	Target=3.28	99.4	217	
349.10 > 98.90	6.044	6.033	0.011	0.934	20124		2.81(1.64-4.92)	99.4	121	
31 6:2FTS										
427.10 > 407.00	6.044	6.044	0.0	1.000	29183	0.0952	Target=1.80	100	137	
427.10 > 80.90	6.044	6.044	0.0	1.000	16888		1.73(0.90-2.70)	100	119	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.044	6.044	0.0	0.934	700522	5.10		107	3358	
33 BTS										
280.00 > 147.00	6.199	6.199	0.0	0.958	91270	0.0459		93.8	471	
D 35 13C8 PFOA										
421.10 > 376.00	6.245	6.245	0.0	1.000	3370762	1.92		95.9	9510	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.245	6.245	0.0		8793946	5.00			13115	
36 PFOA										M
413.00 > 369.00	6.245	6.245	0.0	1.000	64589	0.0505	Target=2.11	101	2207	M
413.00 > 169.00	6.245	6.245	0.0	1.000	29829		2.17(1.06-3.17)	101	3302	
39 7:3 FTCA										
441.00 > 316.90	6.308	6.308	0.0	1.161	40789	0.2532	Target=0.82	101	230	
441.00 > 336.90	6.308	6.308	0.0	1.161	47943		0.85(0.41-1.23)	101	182	
40 PFHxS										
398.70 > 79.90	6.472	6.472	0.0	1.000	60424	0.0511	Target=3.44	112	91.9	
398.70 > 98.90	6.472	6.472	0.0	1.000	17784		3.40(1.72-5.16)	112	13.7	
* 38 18O2 PFHxS										
403.00 > 83.90	6.472	6.472	0.0		1733382	1.90			6096	
D 37 13C3 PFHxS										
402.10 > 79.90	6.472	6.472	0.0	1.000	1749401	1.91		101	8766	
* 41 13C5 PFNA										
468.00 > 423.00	6.632	6.632	0.0		2830465	2.00			5100	
43 PFNA										M
463.00 > 419.00	6.632	6.632	0.0	1.000	64911	0.0505	Target=2.84	101	6672	M
463.00 > 219.00	6.632	6.632	0.0	1.000	22004		2.95(1.42-4.26)	101	6085	
D 42 13C9 PFNA										
472.10 > 427.00	6.632	6.632	0.0	1.000	2933040	2.06		103	7708	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.801	6.801	0.0	1.051	653949	4.89		102	4216	
45 8:2FTS										
527.10 > 507.00	6.812	6.812	0.0	1.002	21382	0.0956	Target=1.52	99.6	102	
527.10 > 80.80	6.801	6.812	-0.011	1.000	14810		1.44(0.76-2.28)	99.6	97.1	
46 PFECHS										
461.00 > 381.00	6.846	6.846	0.0	1.058	14523	0.0473	Target=0.31	102	63.1	
461.00 > 99.00	6.846	6.846	0.0	1.058	43321		0.34(0.16-0.47)	102	89.0	
47 PFHpS										
449.00 > 79.90	6.880	6.880	0.0	0.945	42619	0.0423	Target=3.44	88.6	168	
449.00 > 98.80	6.868	6.880	-0.012	0.944	14198		3.00(1.72-5.16)	88.6	93.6	
53 FHxSA										
397.90 > 78.00	6.891	6.891	0.0	1.065	62256	0.0493		98.5	210	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.965	6.965	0.0	0.957	1464553	4.48		89.5	2547	
49 NMeFOSAA										
570.10 > 419.00	6.965	6.965	0.0	1.000	17415	0.0532	Target=1.84	106	43.9	
570.10 > 483.00	6.965	6.965	0.0	1.000	10429		1.67(0.92-2.76)	106	25.9	
D 50 13C6 PFDA										
519.10 > 474.10	7.028	7.028	0.0	1.000	2945593	1.89		94.7	7890	
* 52 13C2 PFDA										
515.10 > 470.10	7.028	7.028	0.0		3048196	2.00			7229	
51 PFDA										
512.90 > 469.00	7.028	7.028	0.0	1.000	66688	0.0541	Target=4.61	108	190	
512.90 > 219.00	7.028	7.028	0.0	1.000	15059		4.43(2.31-6.92)	108	91.2	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.138	7.138	0.0	0.981	1349510	4.67		93.4	4767	
55 NEtFOSAA										
584.20 > 419.10	7.138	7.138	0.0	1.000	11510	0.0519	Target=1.44	104	37.1	
584.20 > 526.00	7.138	7.138	0.0	1.000	8636		1.33(0.72-2.16)	104	10.0	
58 PFOS										
498.90 > 79.90	7.278	7.278	0.0	1.000	52598	0.0437	Target=4.21	93.9	11841	
498.90 > 98.80	7.291	7.278	0.013	1.002	13098		4.02(2.11-6.32)	93.9	32.1	
D 56 13C8 PFOS										
507.10 > 79.90	7.278	7.278	0.0	1.000	1600975	1.97		103	3463	
* 57 13C4 PFOS										
502.80 > 79.90	7.278	7.278	0.0		1684658	1.92			8951	
D 59 13C7 PFUnA										
570.00 > 525.10	7.419	7.419	0.0	1.056	3656251	1.96		97.8	10730	
60 PFUnA										
563.10 > 519.00	7.429	7.429	0.0	1.001	64929	0.0480	Target=5.05	96.0	317	
563.10 > 269.10	7.419	7.429	-0.010	1.000	14306		4.54(2.52-7.57)	96.0	130	
61 9ClFOS										
530.80 > 351.00	7.593	7.593	0.0	1.043	104366	0.0438	Target=3.14	93.8	803	
532.80 > 353.00	7.584	7.593	-0.009	1.042	31863		3.28(1.57-4.71)	93.8	348	
62 PFNS										
548.80 > 79.90	7.675	7.675	0.0	1.055	43358	0.0451	Target=3.68	93.8	519	
548.80 > 98.80	7.685	7.675	0.010	1.056	10716		4.05(1.84-5.52)	93.8	89.3	
D 81 PFDoA										
615.10 > 570.00	7.820	7.820	0.0	1.113	3173999	1.92		95.8	8948	
63 PFDoA										
613.10 > 569.00	7.820	7.820	0.0		69146	0.0488	Target=5.59	97.7	361	
613.10 > 319.00	7.820	7.820	0.0		12338		5.60(2.80-8.39)	97.7	95.3	
D 65 13C8 FOSA										
506.10 > 77.80	7.957	7.957	0.0	1.093	1938264	1.93		96.4	6724	
64 PFOSA										M
498.10 > 77.90	7.978	7.978	0.0	1.003	44764	0.0504	Target=41.61	101	4593	M
498.10 > 478.00	7.849	7.978	-0.129	0.986	1044		42.88(20.81-62.42)	101		M
66 PFDS										
599.00 > 79.90	8.053	8.053	0.0	1.106	42459	0.0434	Target=3.58	90.1	324	
599.00 > 98.80	8.053	8.053	0.0	1.106	11508		3.69(1.79-5.38)	90.1	181	
67 PFTrDA										
663.00 > 619.00	8.183	8.183	0.0	0.960	78357	0.0541	Target=5.80	108	434	
663.00 > 168.90	8.183	8.183	0.0	0.960	13154		5.96(2.90-8.70)	108	120	
68 11ClFOS										
630.90 > 450.90	8.326	8.326	0.0	1.144	81390	0.0442	Target=3.03	93.7	851	
632.90 > 452.90	8.326	8.326	0.0	1.144	27212		2.99(1.51-4.55)	93.7	421	
70 PFTeDA										
713.10 > 168.90	8.522	8.522	0.0	1.000	7552	0.0543	Target=1.08	109	72.6	
713.10 > 219.00	8.522	8.522	0.0	1.000	7961		0.95(0.54-1.62)	109	75.9	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.522	8.522	0.0	1.213	1593746	1.74		87.1	3944	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.681	8.681	0.0	1.193	25580	0.0442	Target=4.08	91.1	267	
699.10 > 98.80	8.681	8.681	0.0	1.193	6197		4.13(2.04-6.11)	91.1	122	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.723	8.723	0.0	1.199	713313	4.84		96.9	589	
72 N-MeFOSE-M										
616.10 > 58.90	8.737	8.737	0.0	1.002	97887	0.2554		102	27795	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.810	8.810	0.0	1.210	436399	1.91		95.5	3357	
75 NMeFOSA										
511.90 > 219.00	8.810	8.810	0.0	1.000	12084	0.0541	Target=0.70	108	67.0	
511.90 > 169.00	8.810	8.810	0.0	1.000	17123		0.71(0.35-1.06)	108	94.5	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.897	8.897	0.0	1.222	704442	4.70		94.0	1466	
77 N-EtFOSE-M										M
630.00 > 58.90	8.912	8.912	0.0	1.002	143050	0.2570		103	49829	M
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.967	8.967	0.0	1.232	542907	1.95		97.4	2492	
79 N-EtFOSA-M										
526.00 > 219.00	8.981	8.981	0.0	1.002	13337	0.0522	Target=0.80	104	107	
526.00 > 169.00	8.925	8.981	-0.056	0.995	15960		0.84(0.40-1.20)	104	127	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.286	9.286	0.0	1.090	40599	0.0537	Target=11.76	107	827	
913.00 > 169.00	9.286	9.286	0.0	1.090	3781		10.74(5.88-17.64)	107	216	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_CAL1_00074 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 17:56:17 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-01.d

Injection Date: 02-Feb-2026 11:43:40 Instrument ID: 30575

Lims ID: IC CAL 1

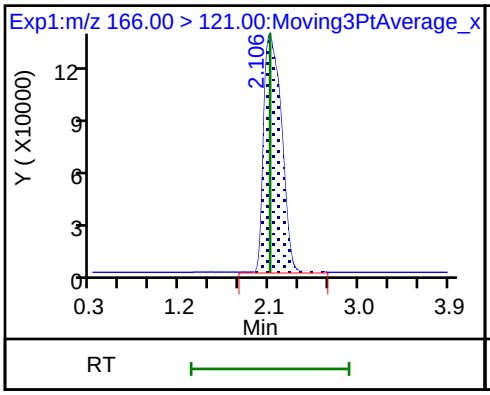
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 2 Worklist Smp#: 1

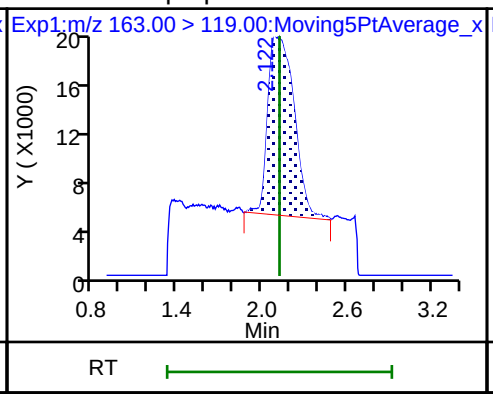
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

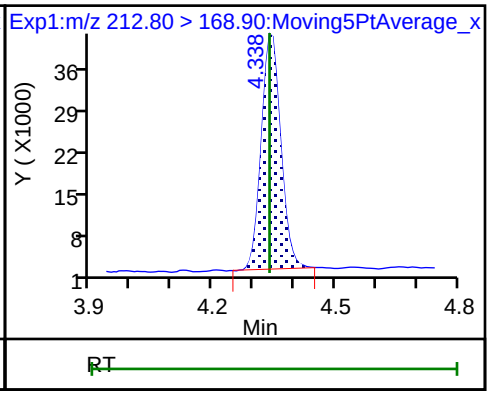
D 2 13C3PFPrA



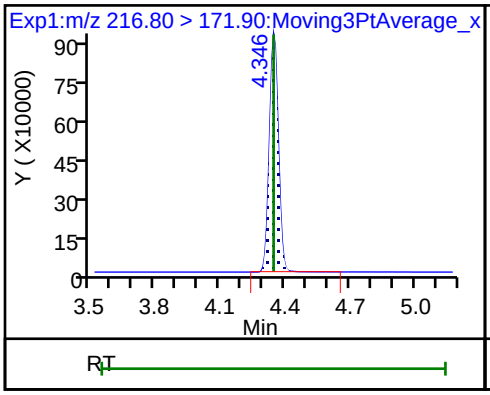
1 Perfluoropropionic acid



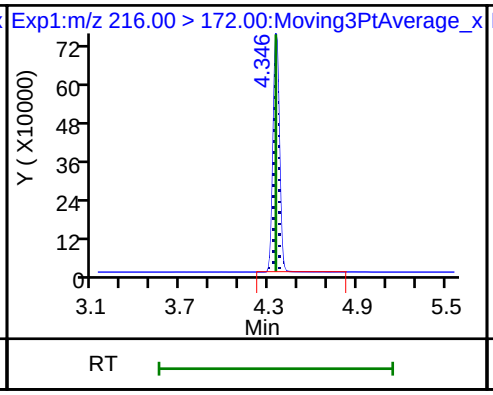
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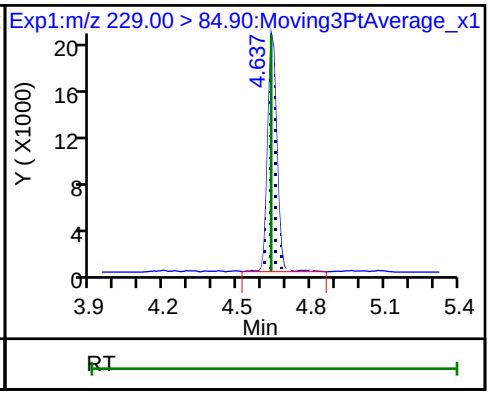
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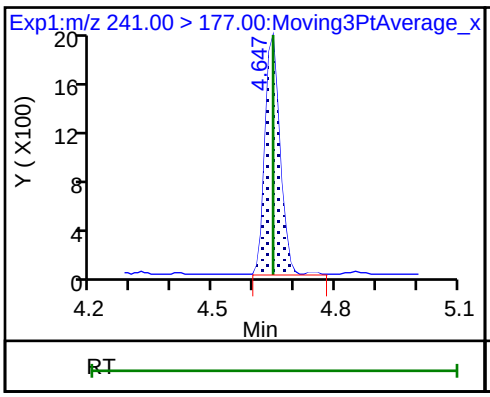
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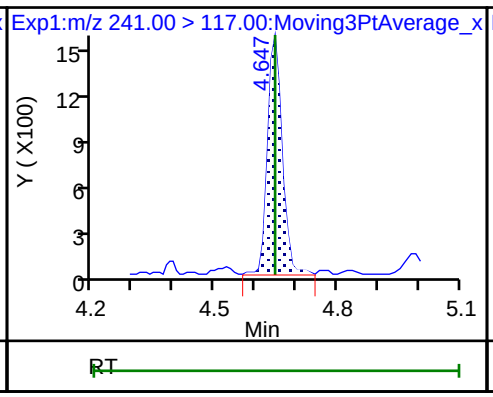
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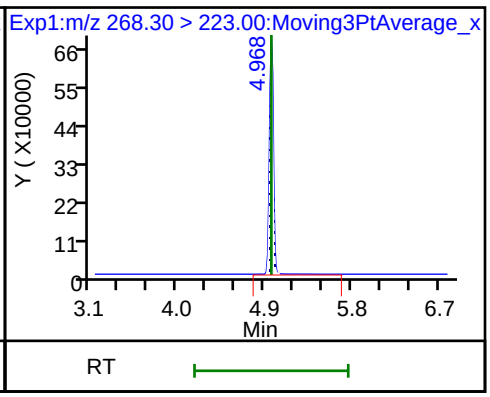
10 3:3 FTCA



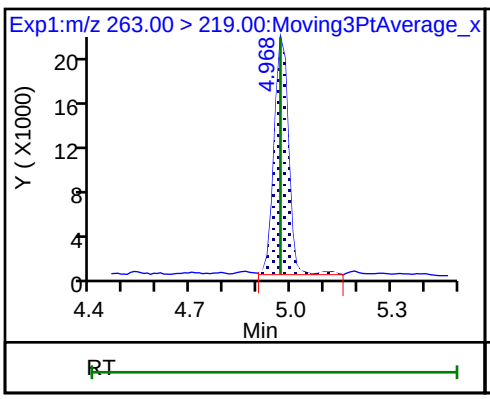
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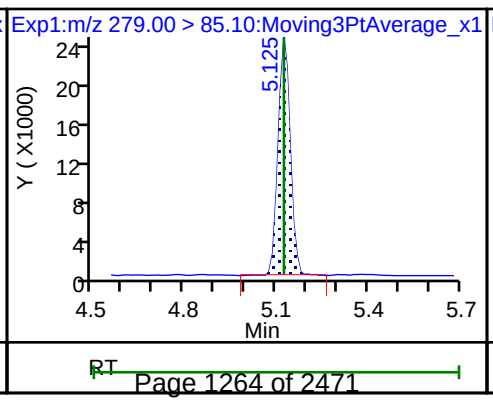
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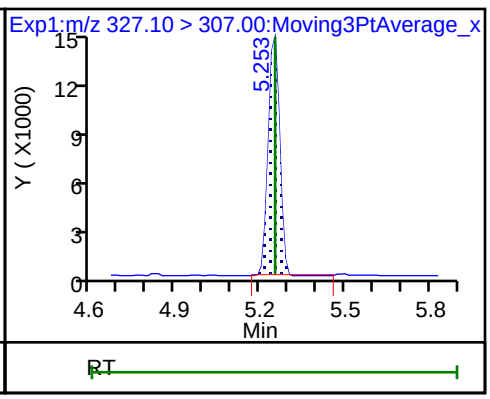
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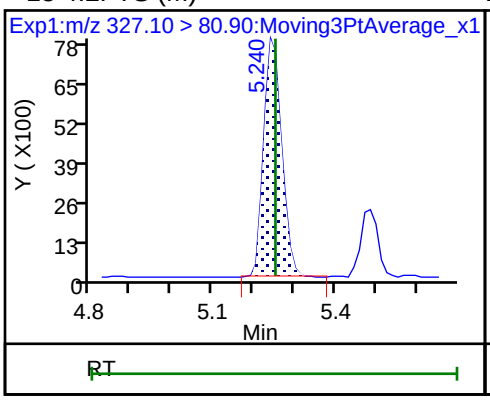
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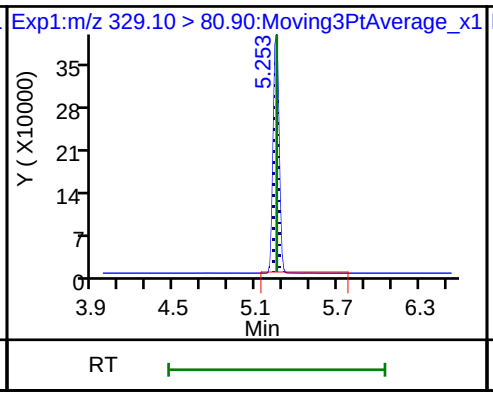
15 4:2FTS



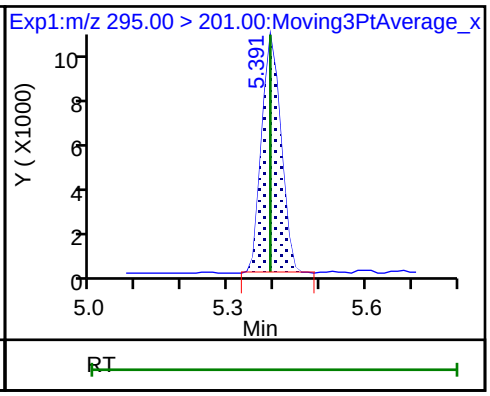
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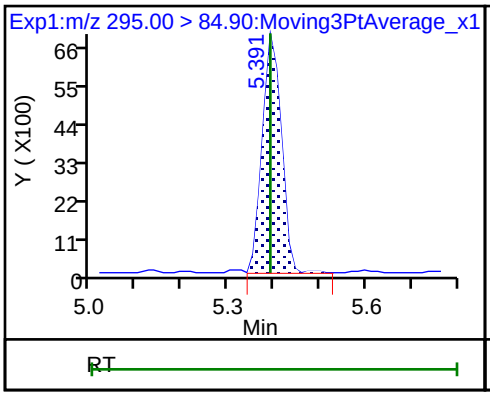
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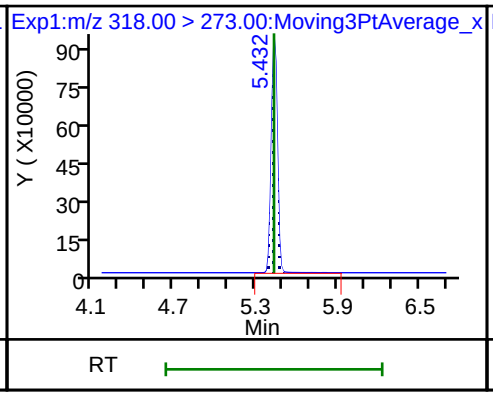
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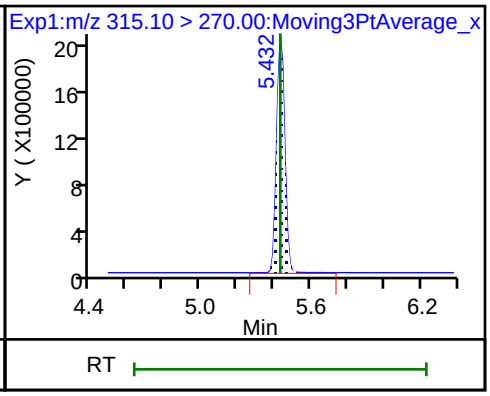
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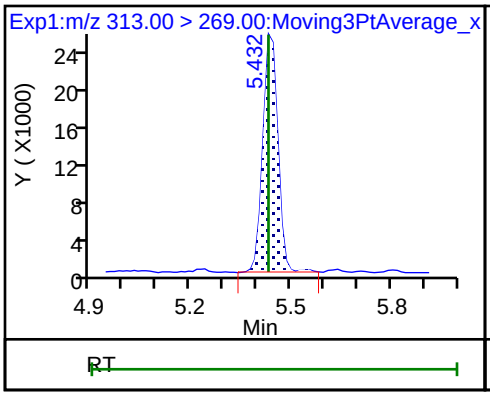
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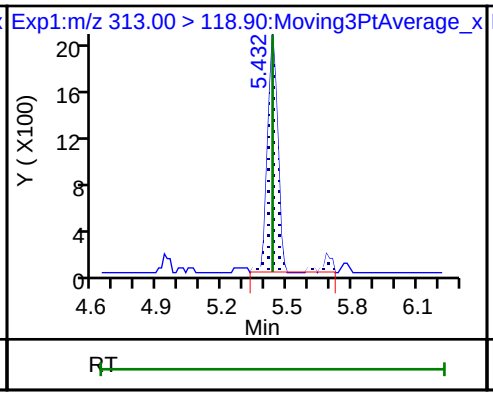
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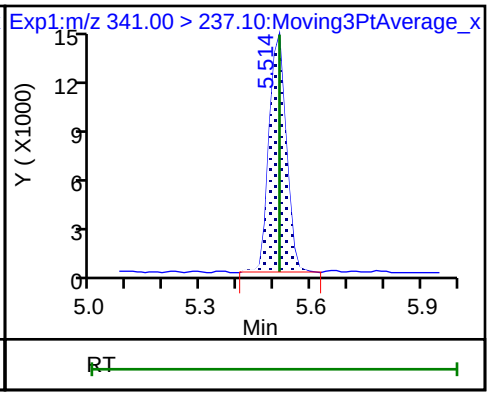
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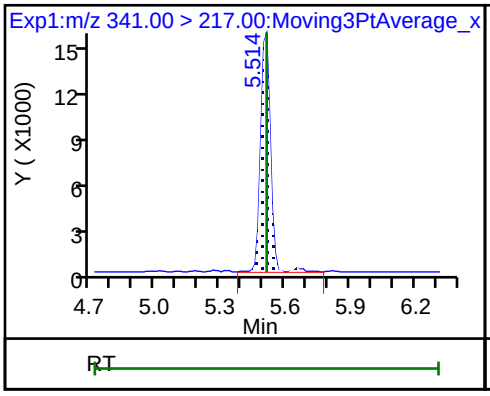
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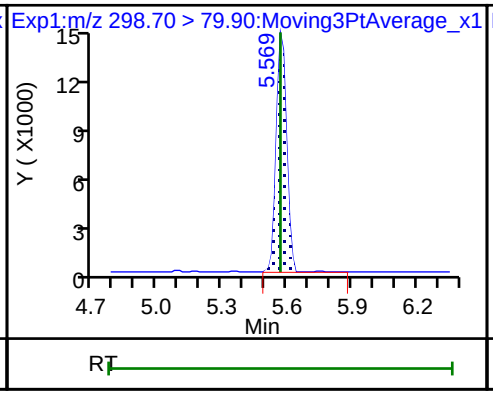
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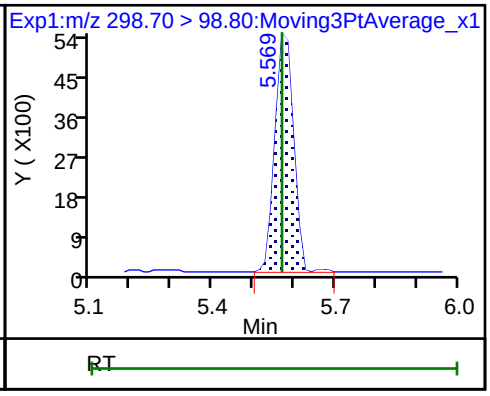
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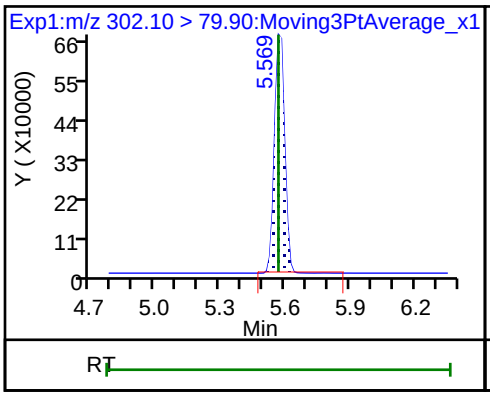
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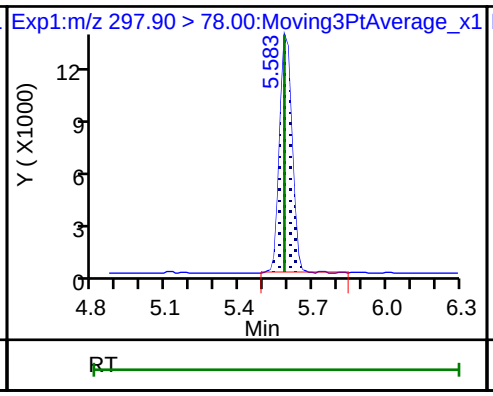
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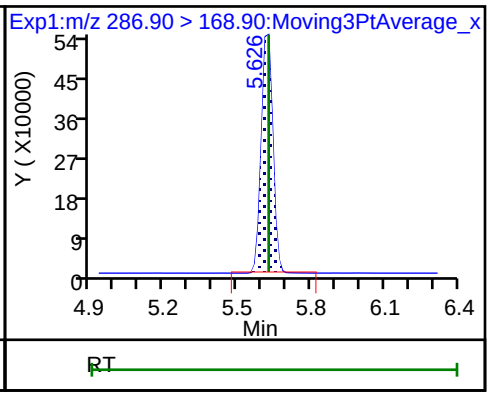
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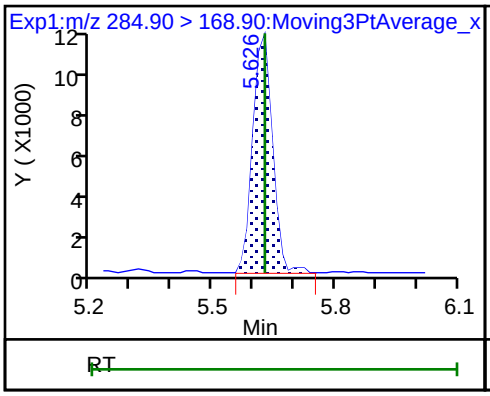
28 FBSA



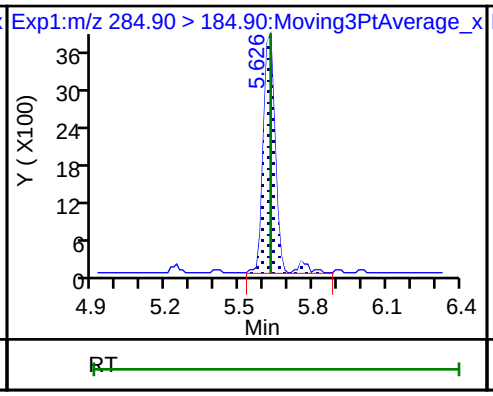
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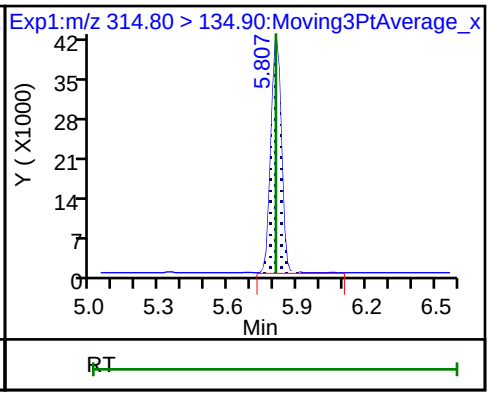
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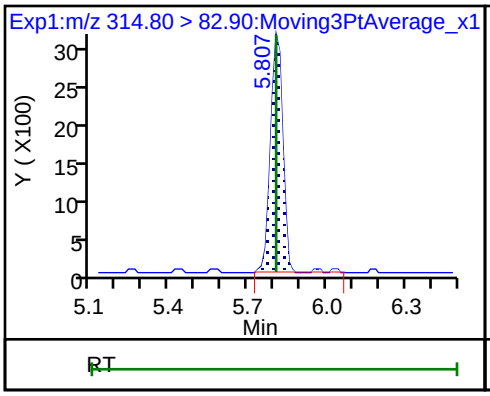
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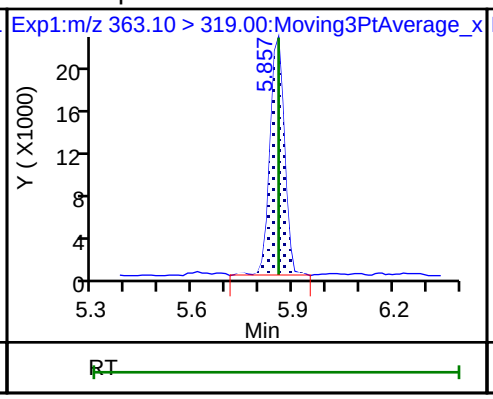
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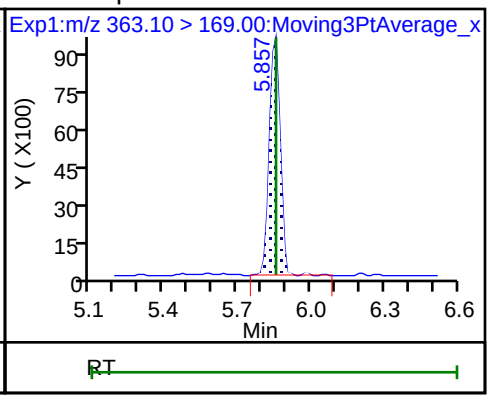
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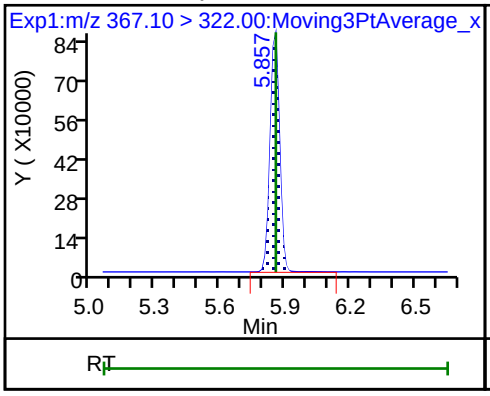
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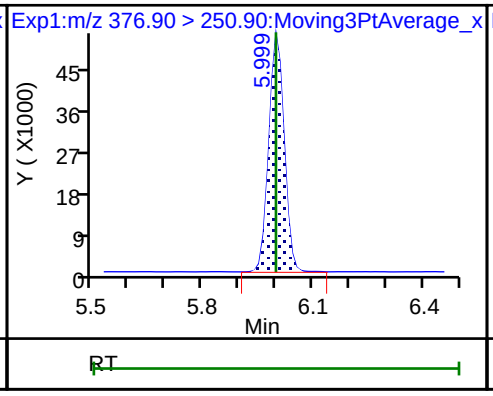
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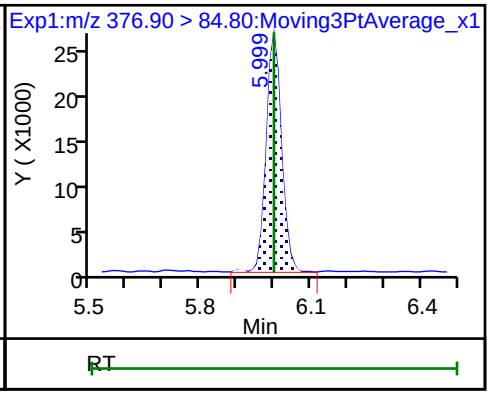
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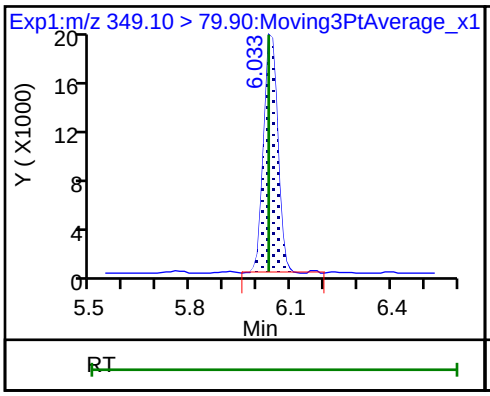
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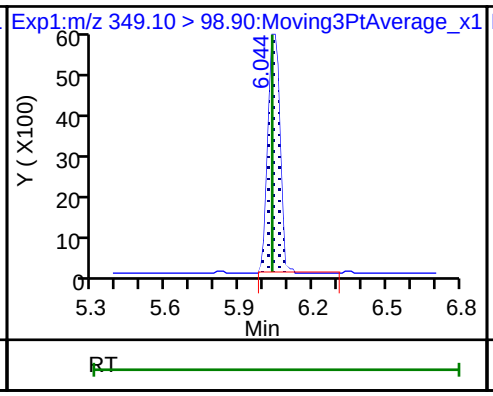
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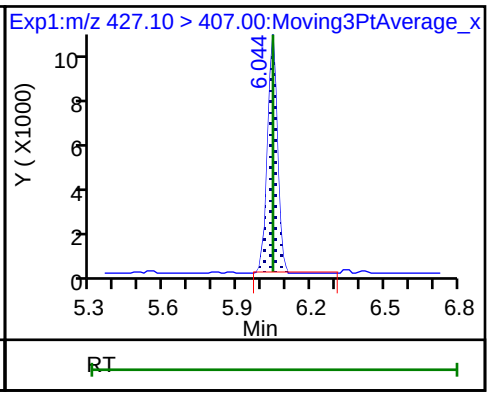
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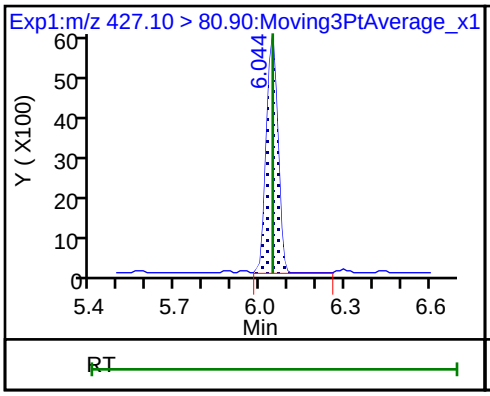
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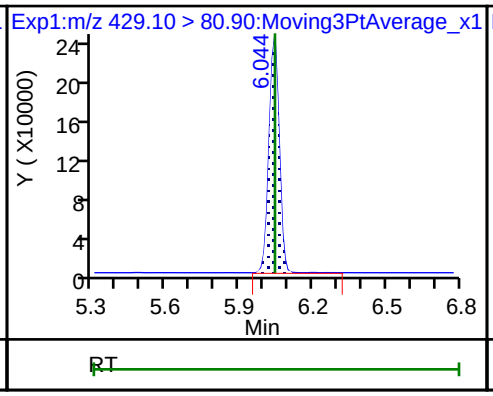
31 6:2FTS



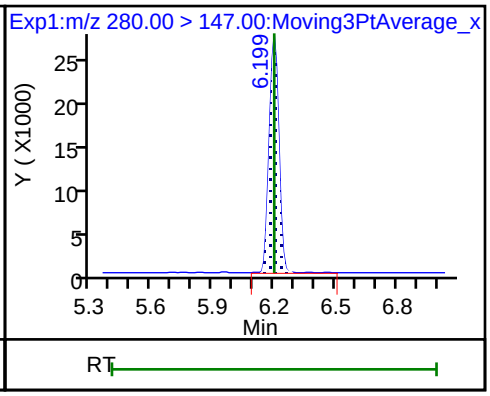
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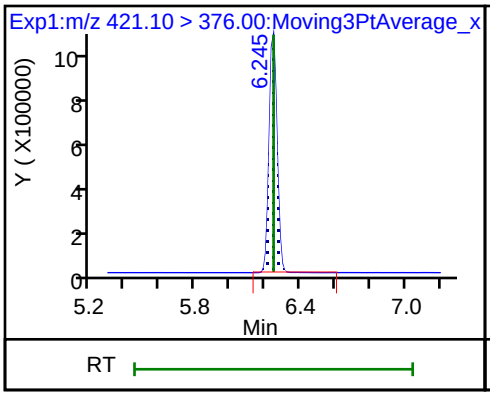
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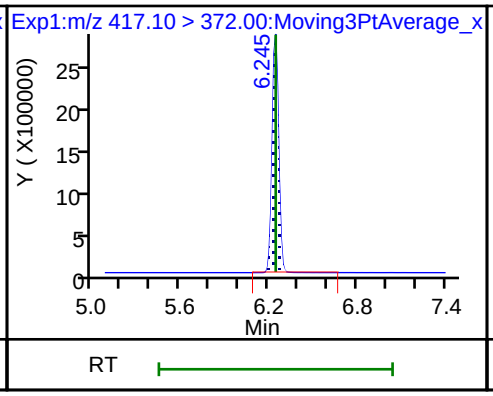
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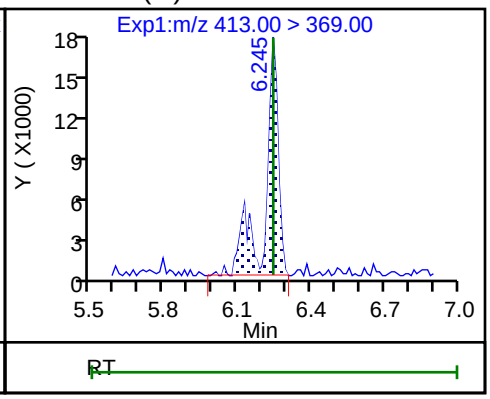
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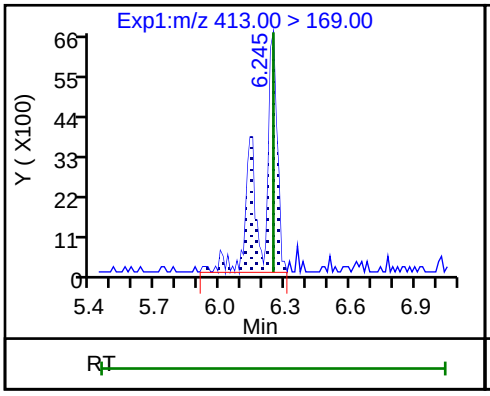
* 34 13C4 PFOA



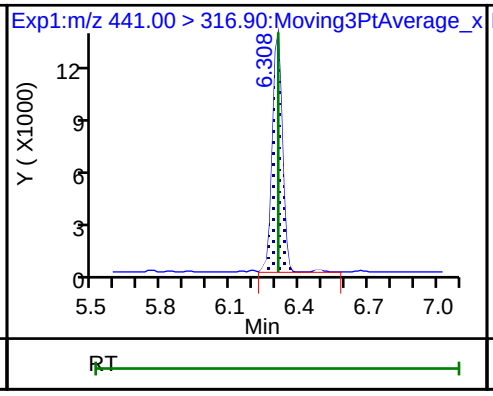
36 PFOA (M)



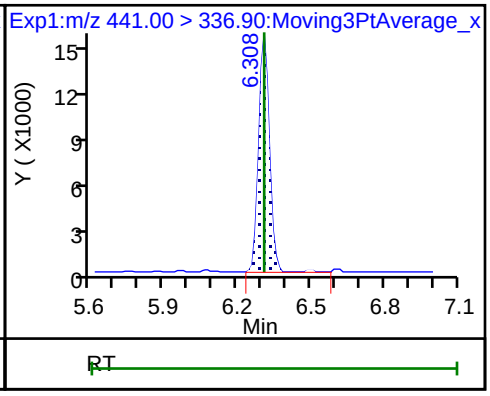
36 PFOA



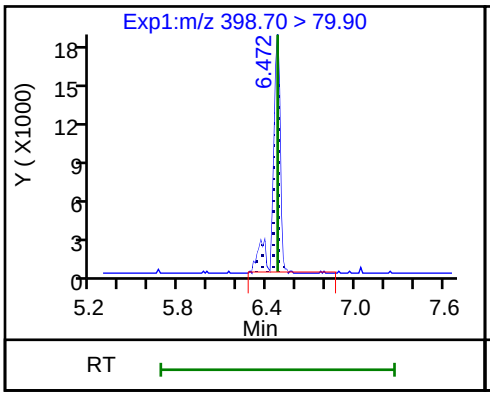
39 7:3 FTCA



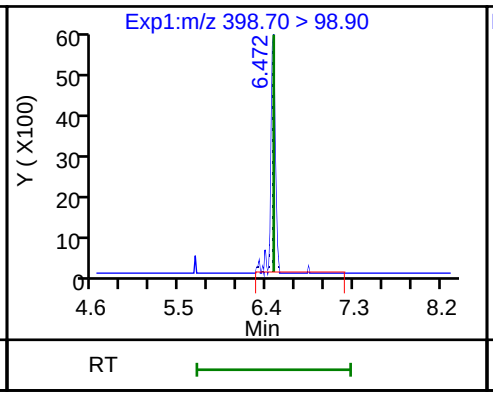
39 7:3 FTCA



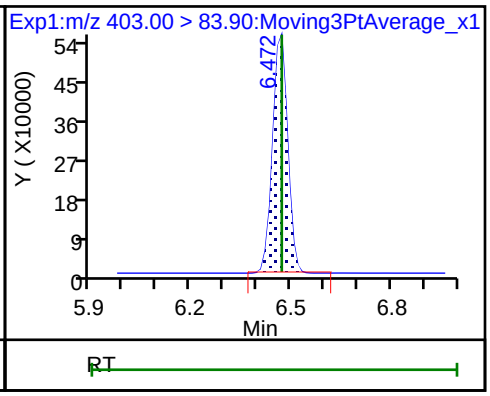
40 PFHxS



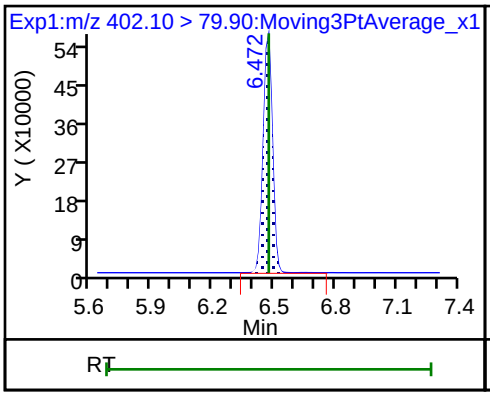
40 PFHxS



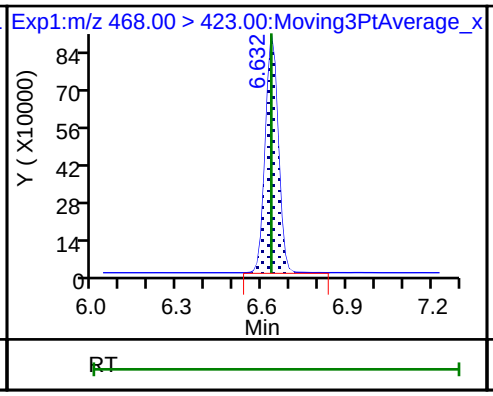
* 38 18O2 PFHxS



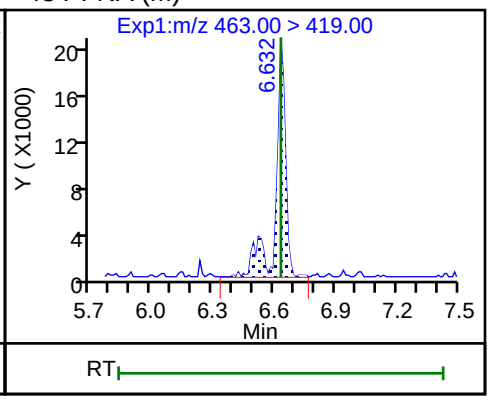
D 37 13C3 PFHxS



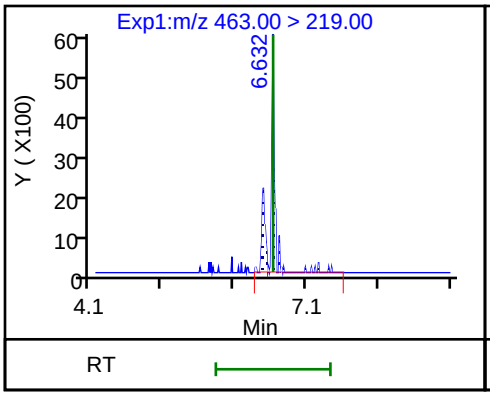
* 41 13C5 PFNA



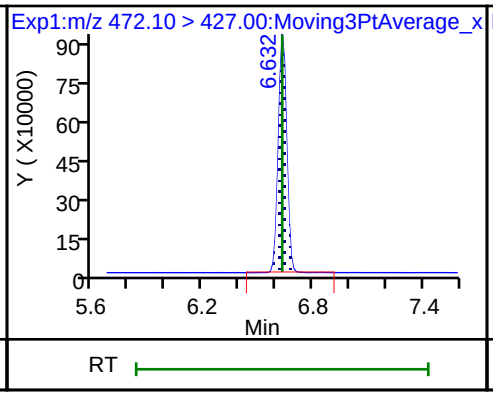
43 PFNA (M)



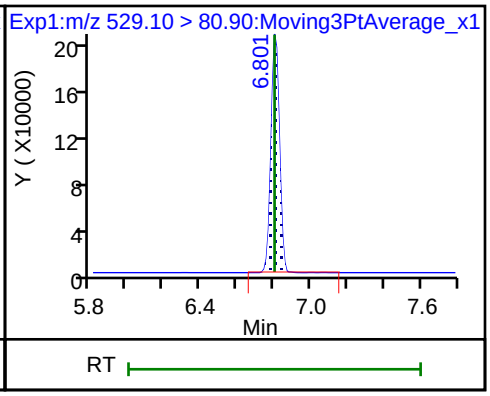
43 PFNA



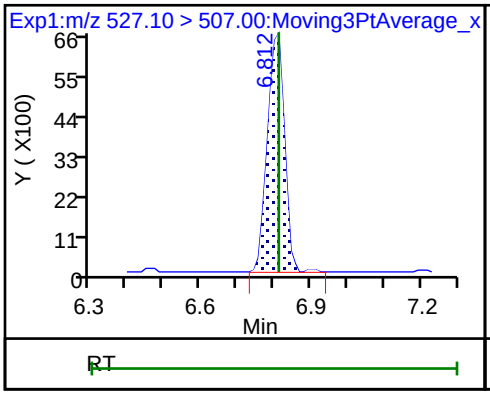
D 42 13C9 PFNA



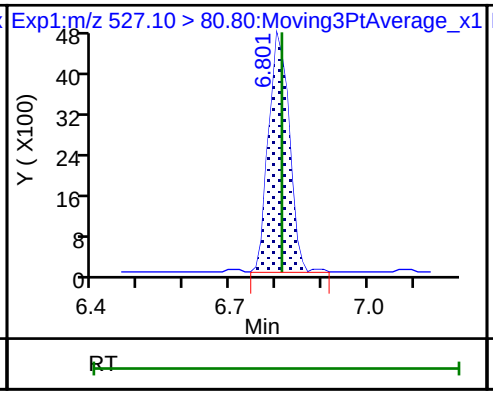
D 44 13C2-8:2FTS



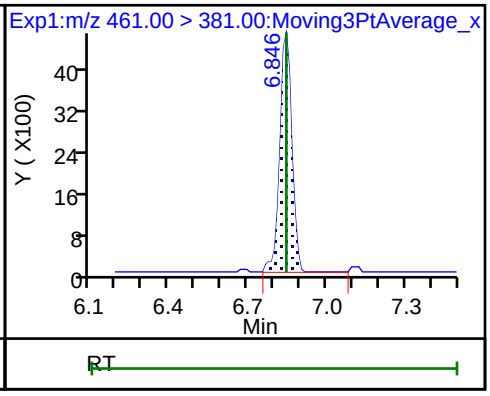
45 8:2FTS



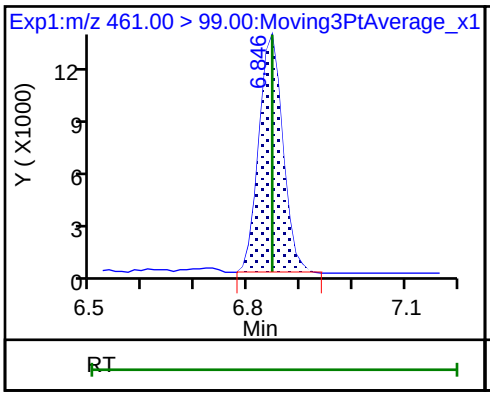
45 8:2FTS



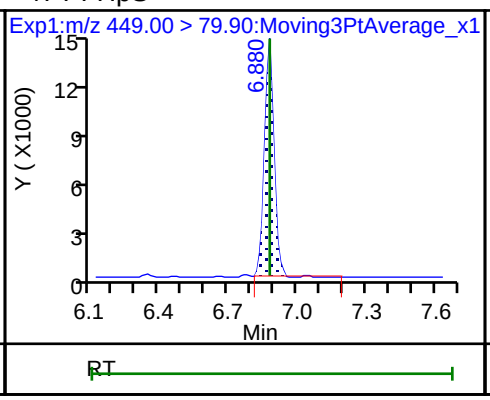
46 PFECHS



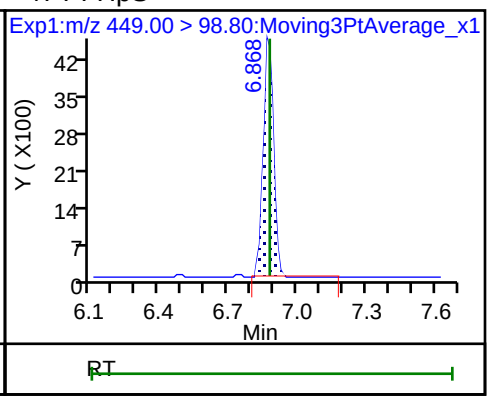
46 PFECHS



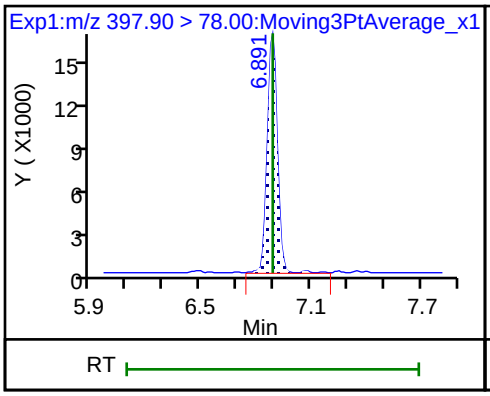
47 PFHpS



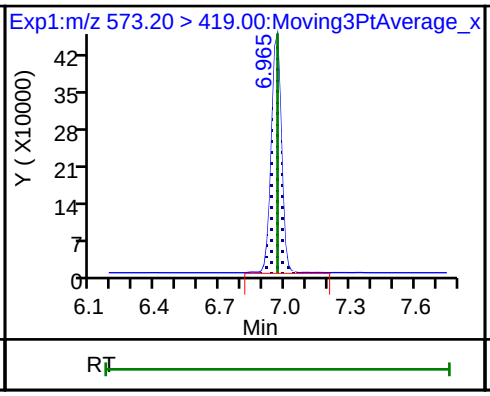
47 PFHpS



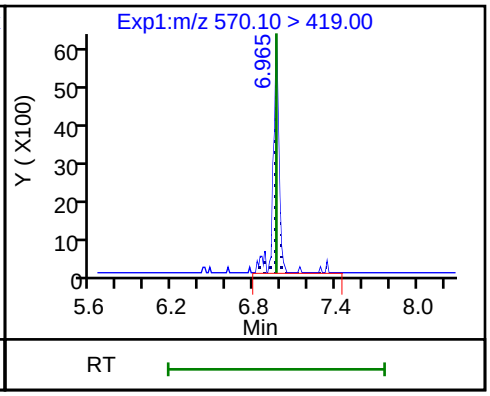
53 FHxSA



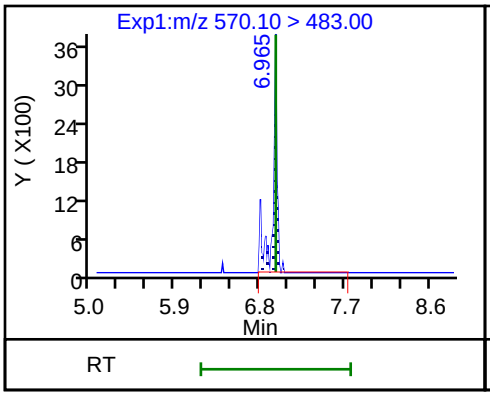
D 48 d3-NMeFOSAA



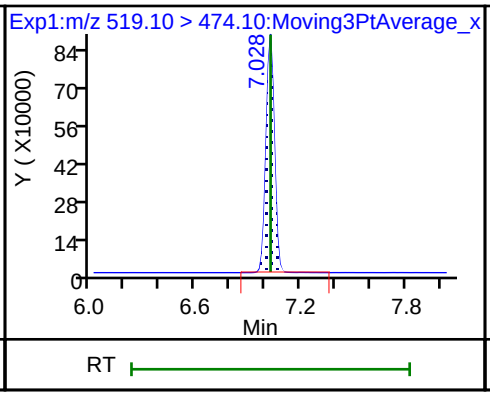
49 NMeFOSAA



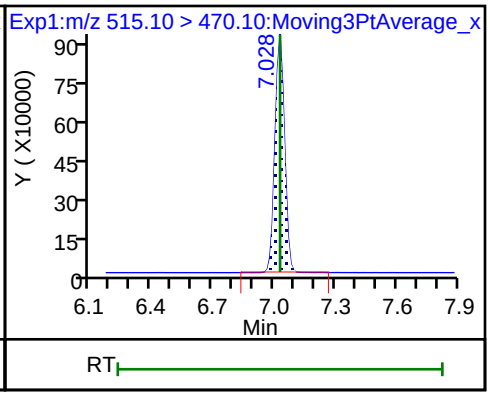
49 NMeFOSAA



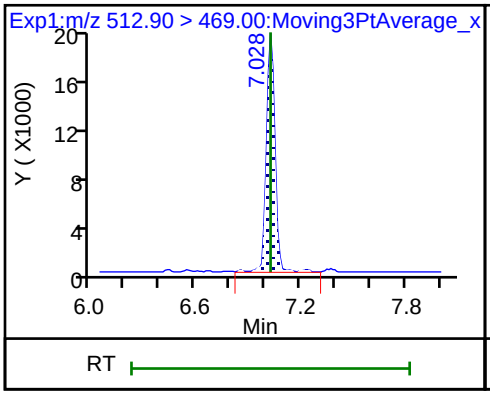
D 50 13C6 PFDA



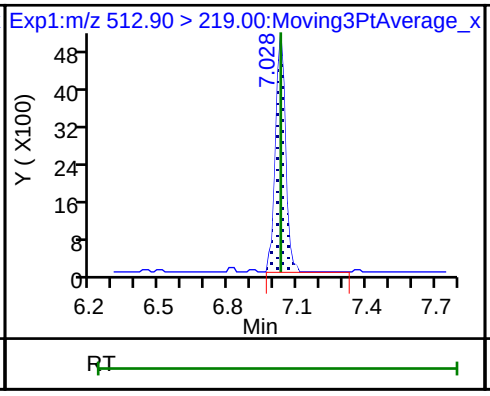
* 52 13C2 PFDA



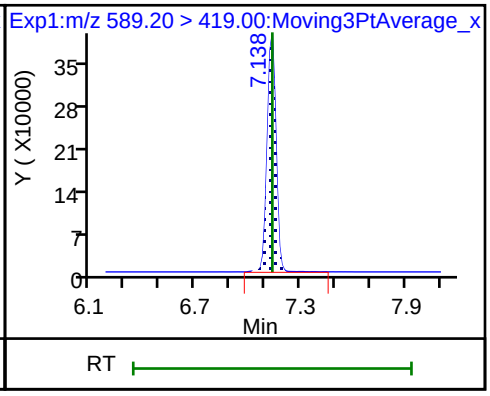
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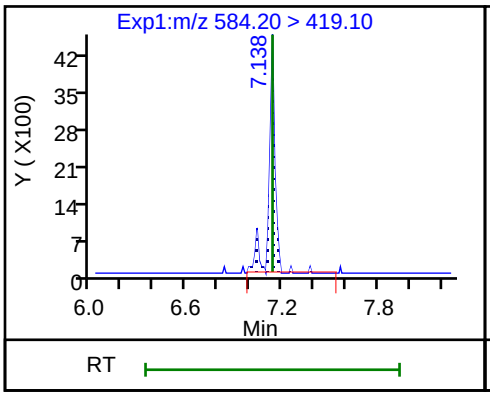
51 PFDA



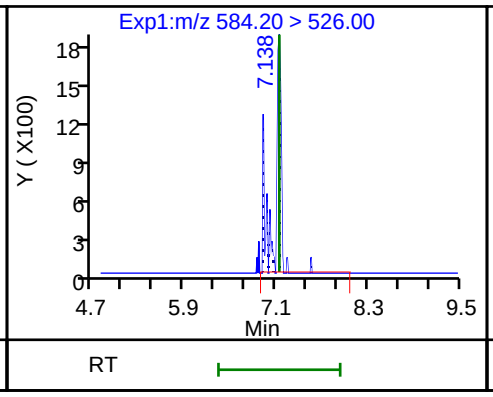
D 54 d5-NEtFOSAA



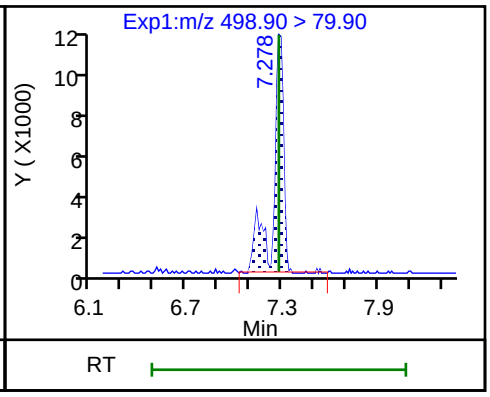
55 NEtFOSAA



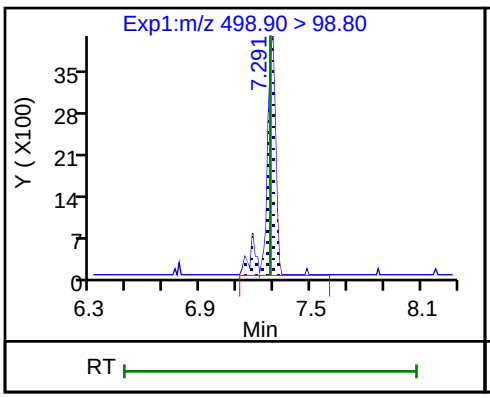
55 NEtFOSAA



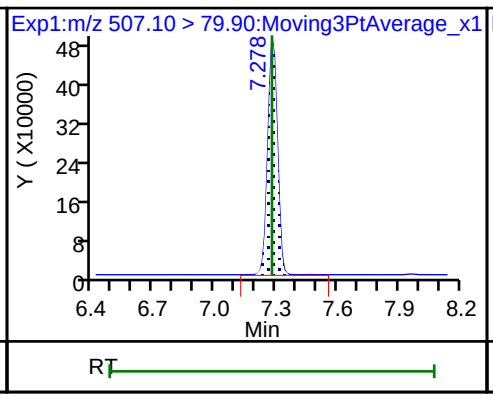
58 PFOS



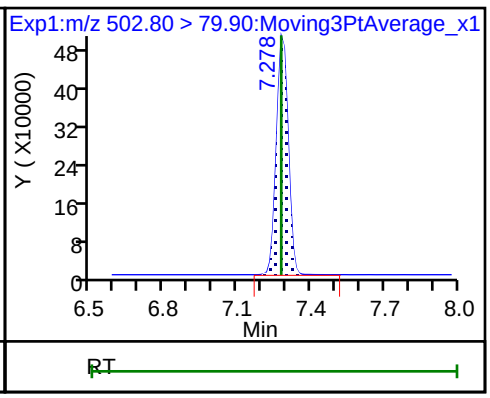
58 PFOS



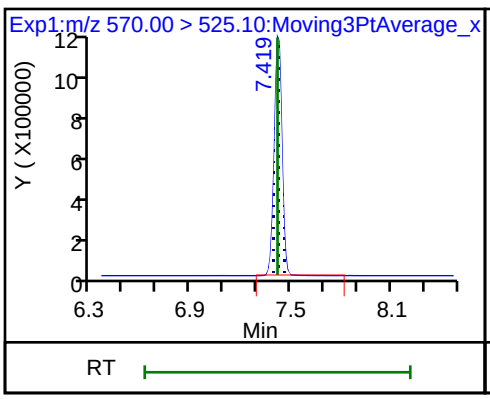
D 56 13C8 PFOS



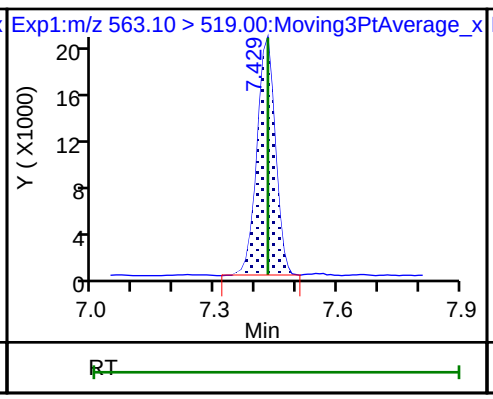
* 57 13C4 PFOS



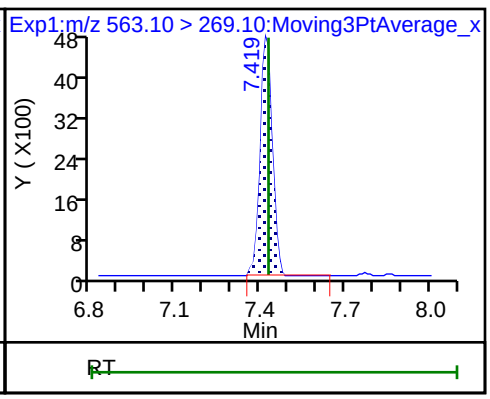
D 59 13C7 PFUnA



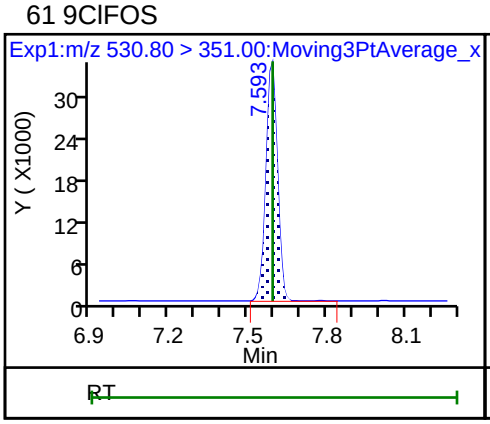
60 PFUnA



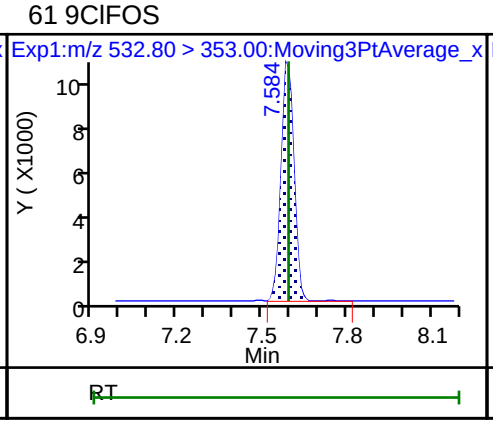
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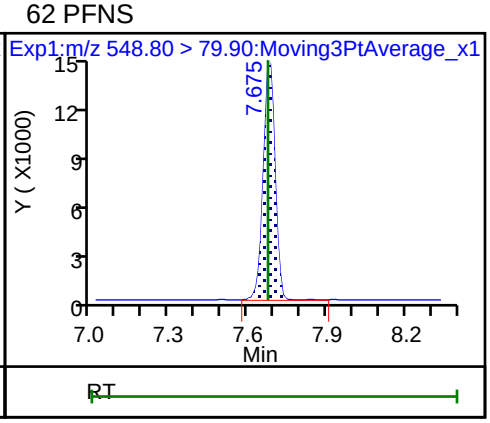
61 9ClFOS



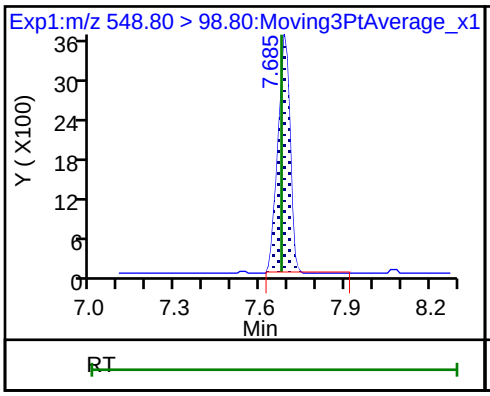
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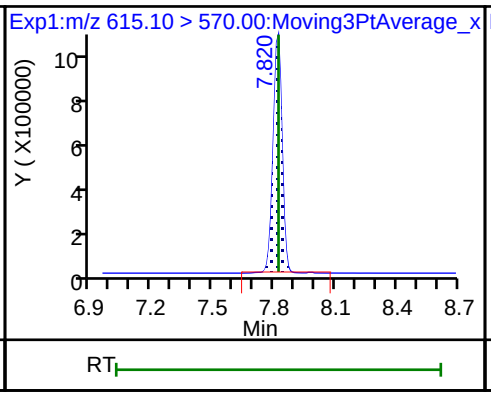
62 PFNS



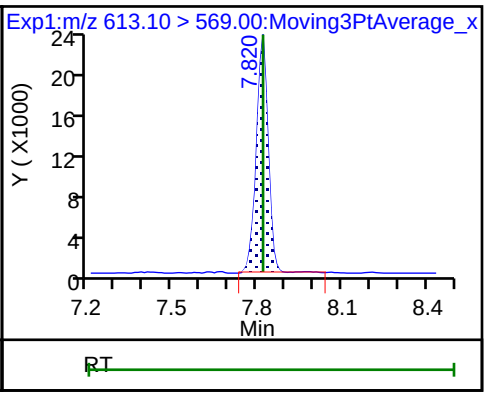
62 PFNS



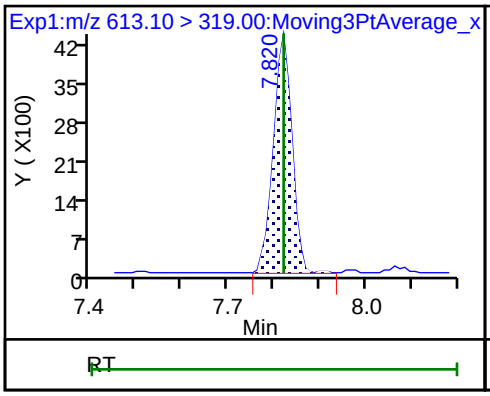
D 81 PFDoA



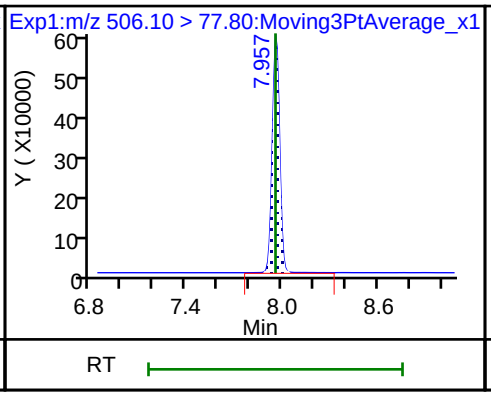
63 PFDoA



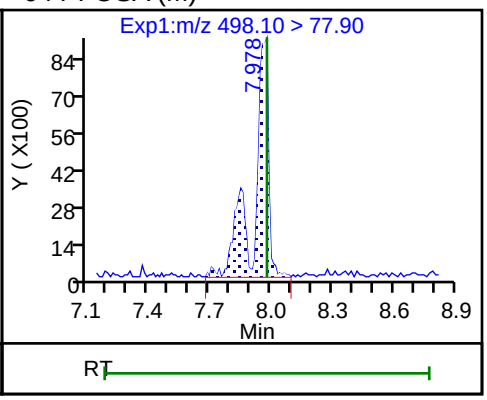
63 PFDoA



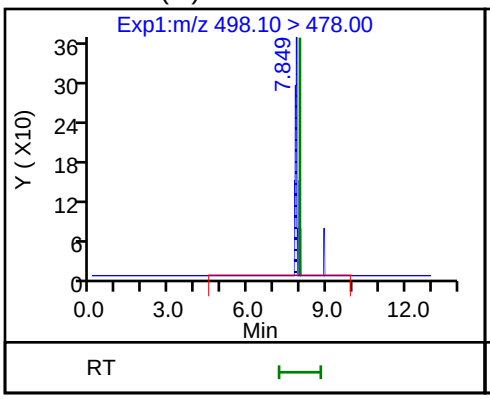
D 65 13C8 FOSA



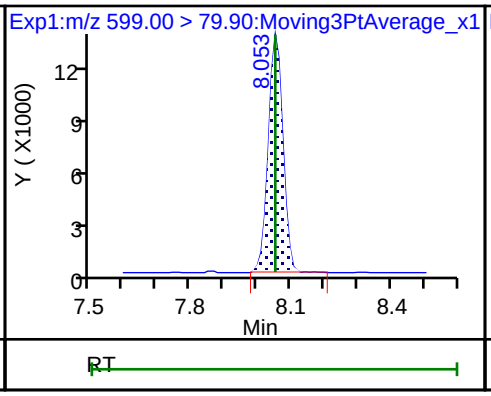
64 PFOSA (M)



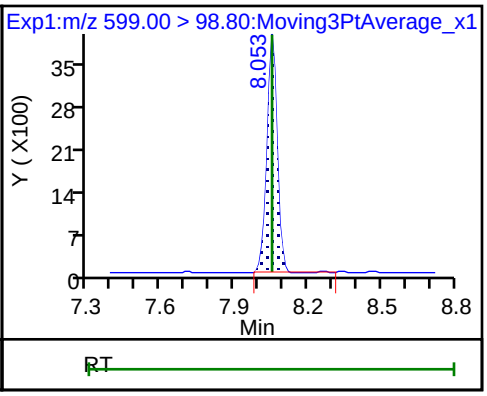
64 PFOSA (M)



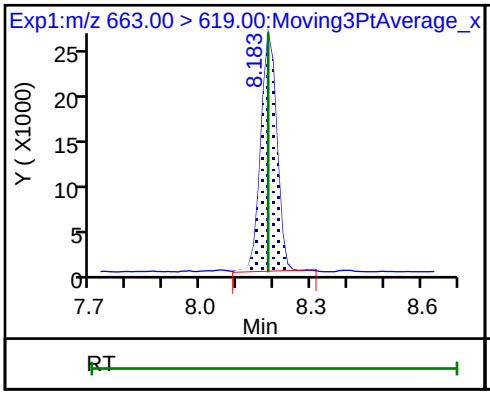
66 PFDS



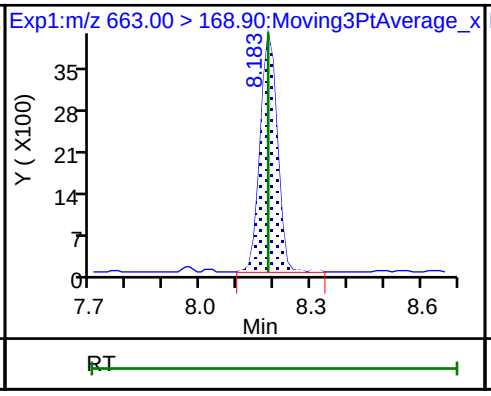
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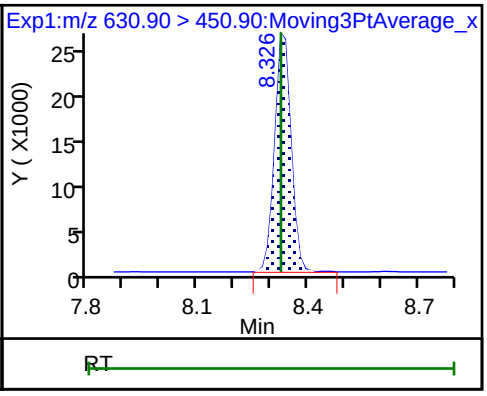
67 PFTrDA



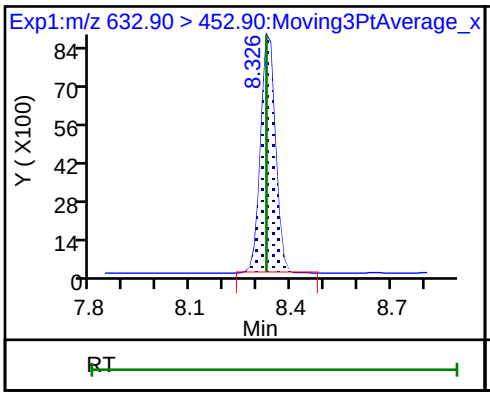
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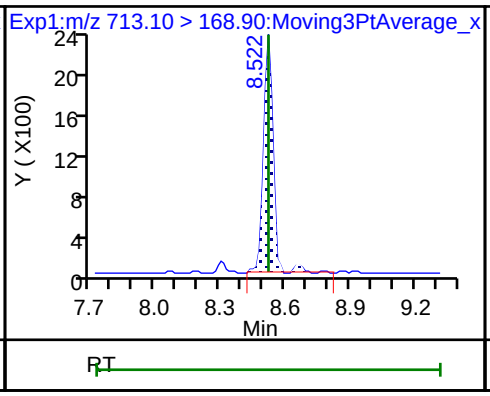
68 11ClFOS



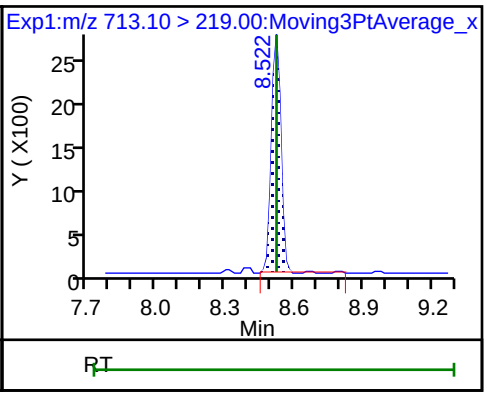
68 11ClFOS



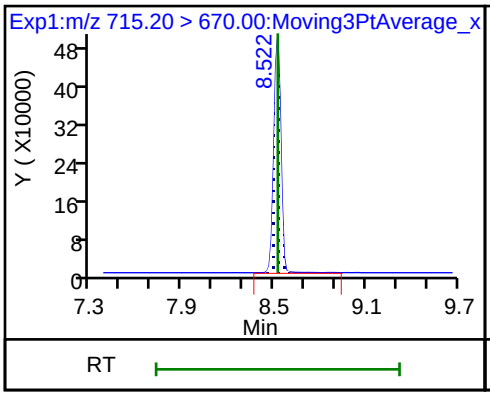
70 PFTeDA



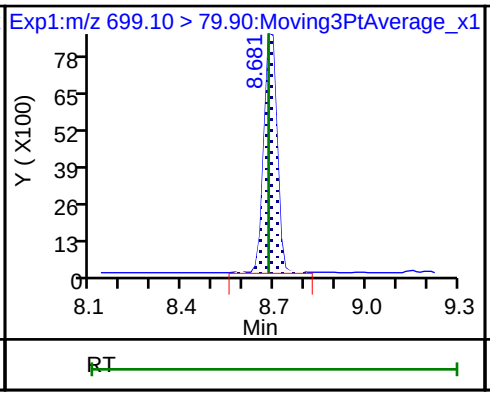
70 PFTeDA



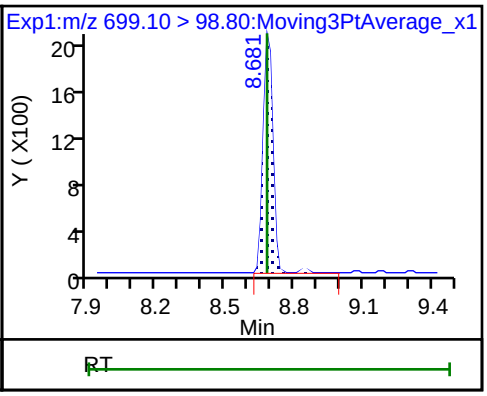
D 69 13C2 PFTeDA



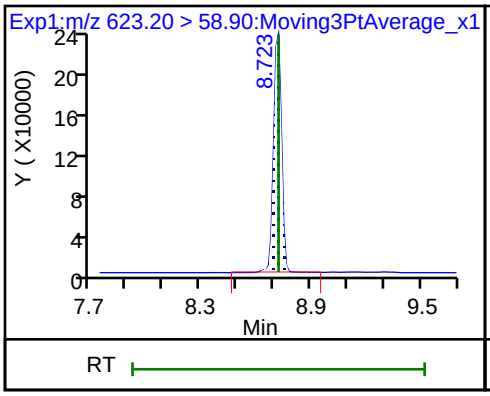
73 PFDoS



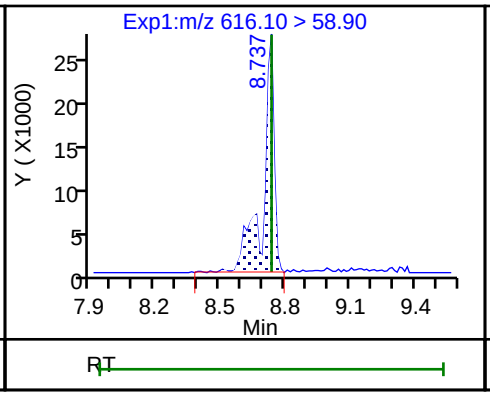
73 PFDoS



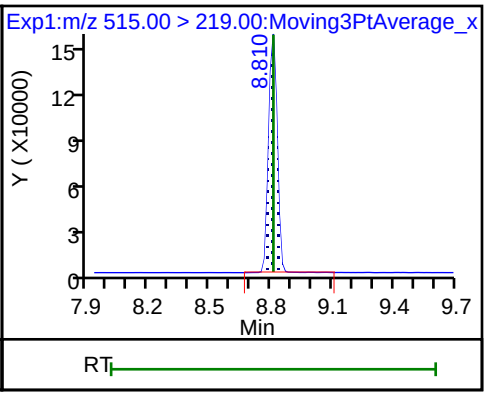
D 71 d7-N-Me-FOSE



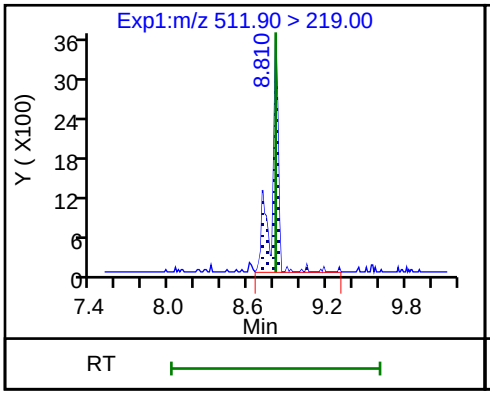
72 N-MeFOSE-M



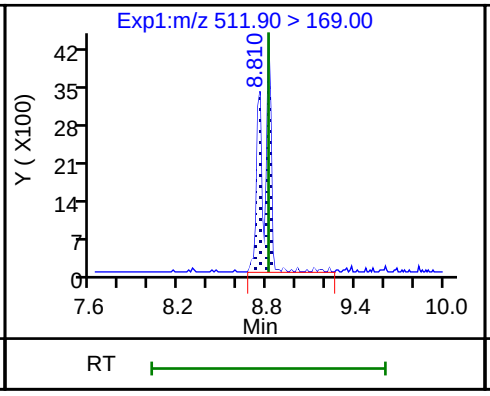
D 74 d3-NMePFOSA



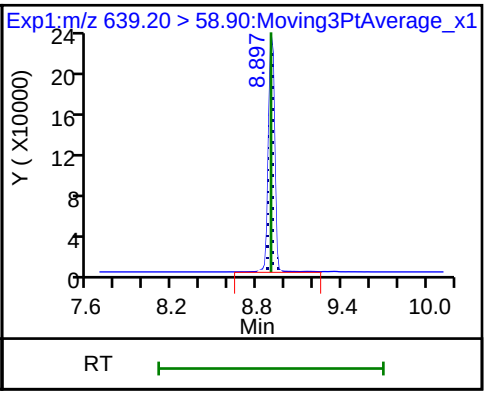
75 NMeFOSA



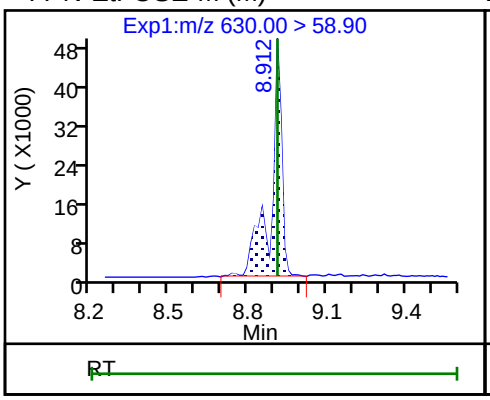
75 NMeFOSA



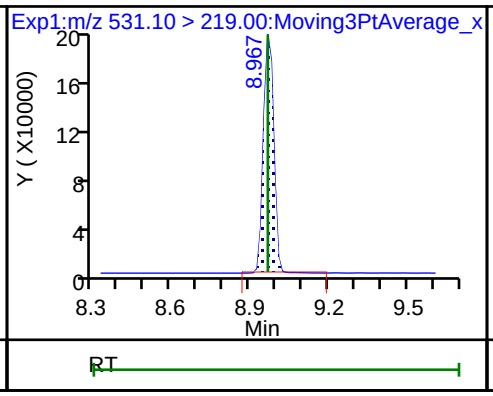
D 76 d9-N-EtFOSE



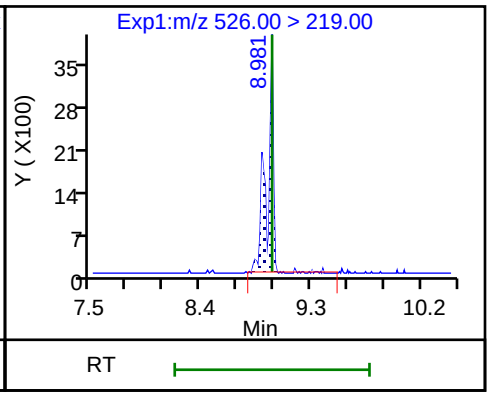
77 N-EtFOSE-M (M)



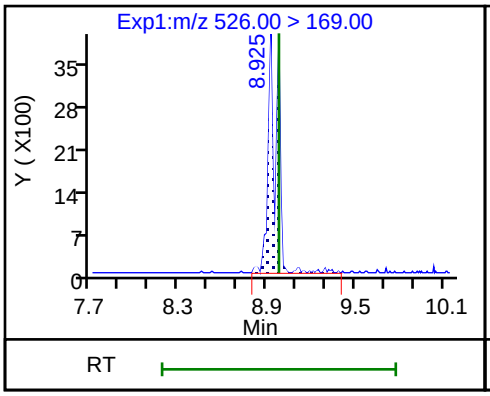
D 78 d5-NEtPFOSA



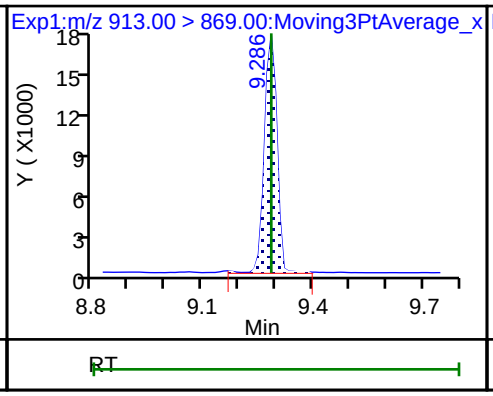
79 N-EtFOSA-M



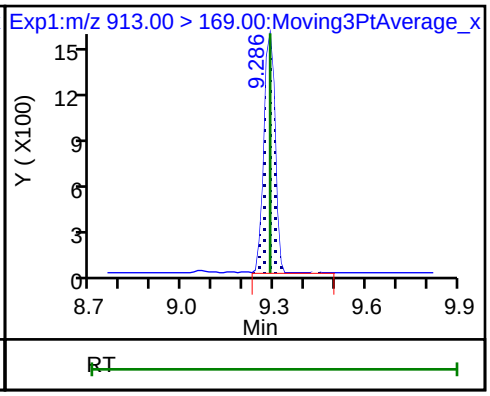
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

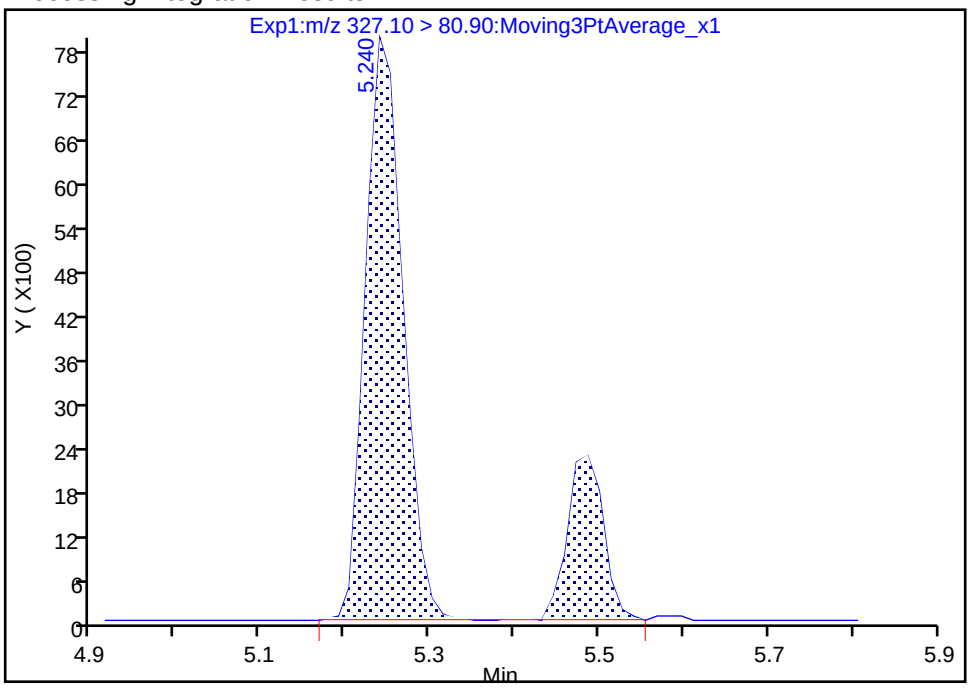
Data File:	\\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-01.d				
Injection Date:	02-Feb-2026 11:43:40	Instrument ID:	30575		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

15 4:2FTS, CAS: 757124-72-4

Signal: 2

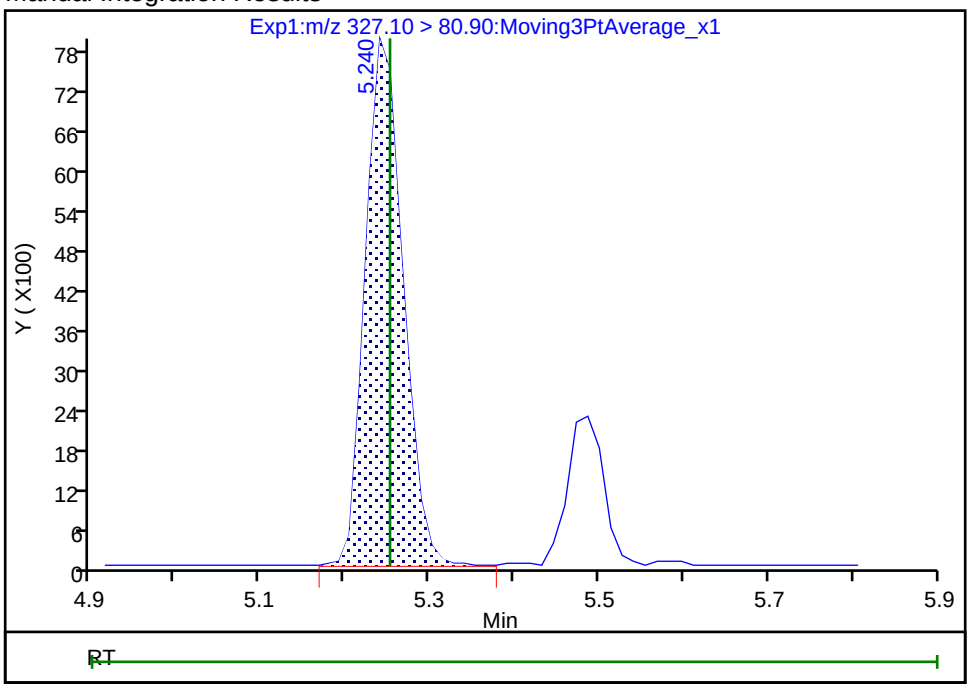
Processing Integration Results

RT: 5.24
Area: 31291
Amount: 0.093800
Amount Units: ng/ml



Manual Integration Results

RT: 5.24
Area: 24535
Amount: 0.095648
Amount Units: ng/ml



Reviewer: P7EB, 02-Feb-2026 12:10:10 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

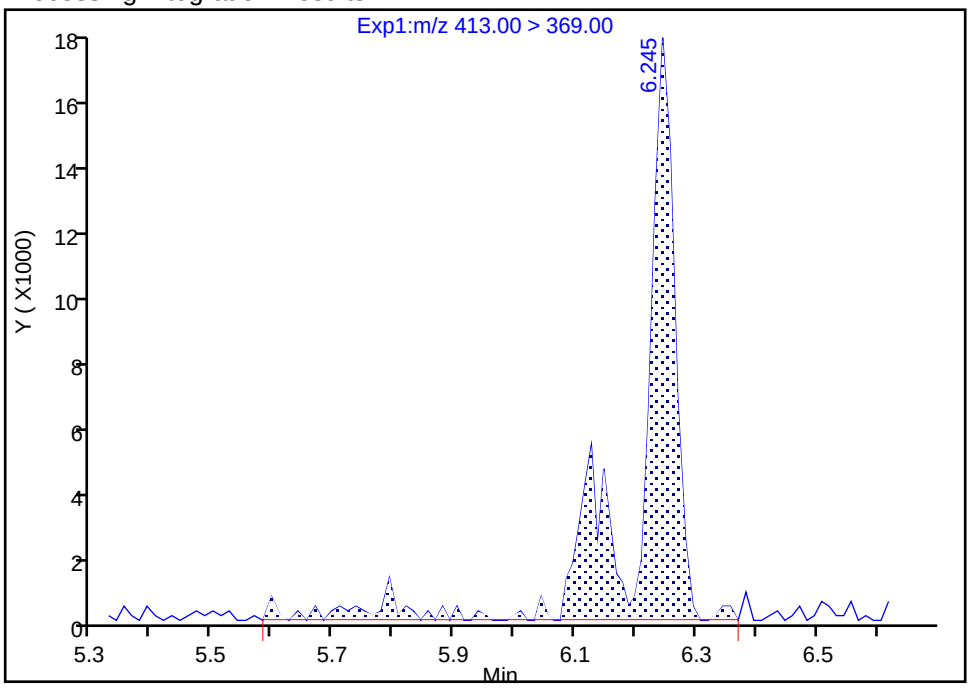
Data File:	\\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-01.d				
Injection Date:	02-Feb-2026 11:43:40	Instrument ID:	30575		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 1

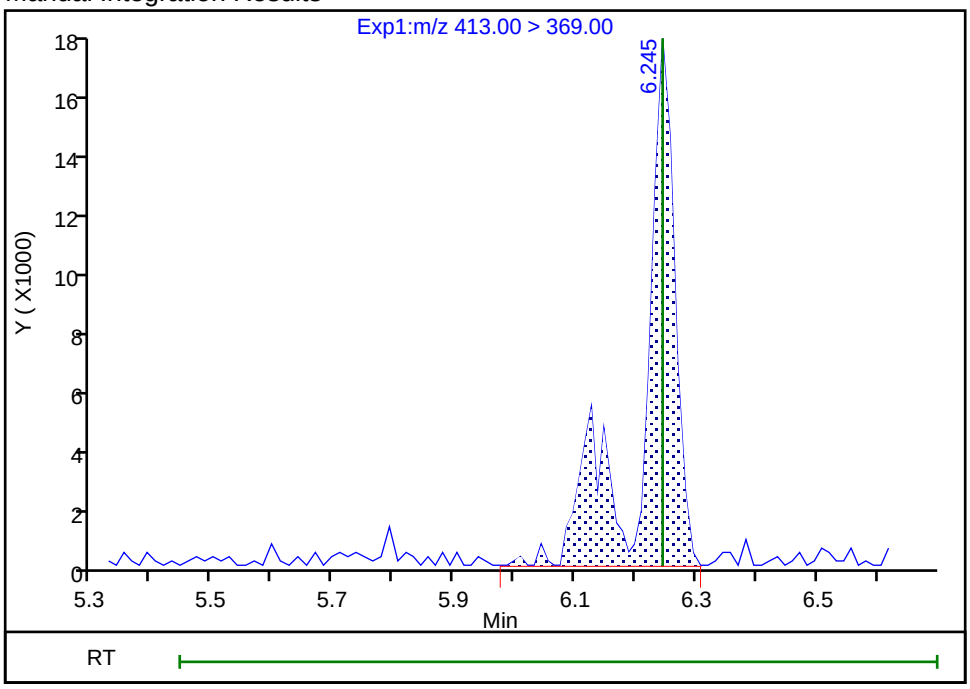
Processing Integration Results

RT: 6.25
Area: 71338
Amount: 0.050000
Amount Units: ng/ml



Manual Integration Results

RT: 6.25
Area: 64589
Amount: 0.050534
Amount Units: ng/ml



Reviewer: P7EB, 02-Feb-2026 12:10:22 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

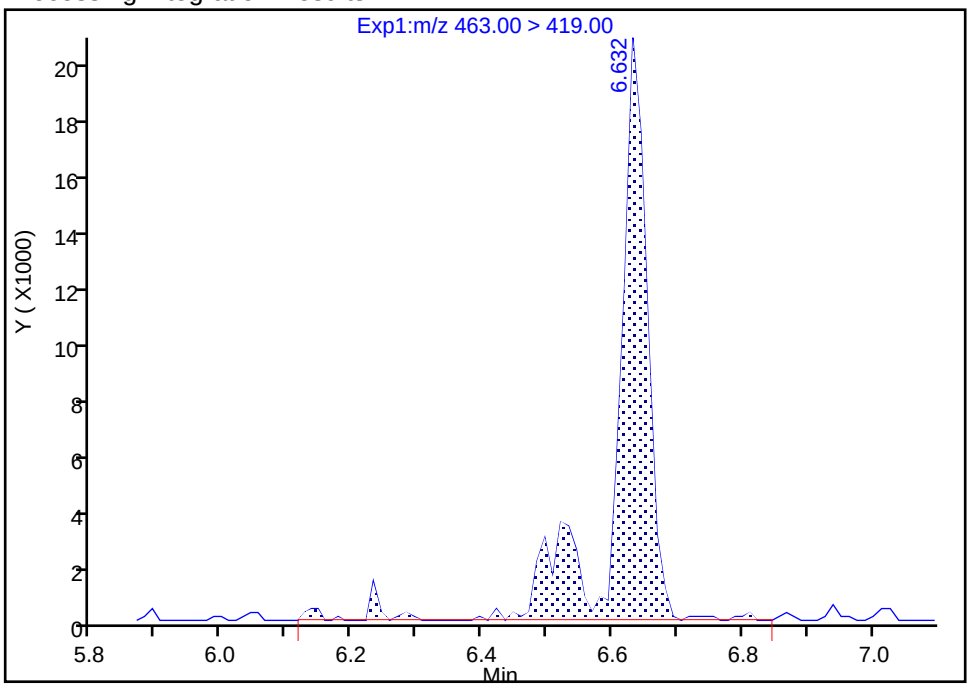
Data File:	\\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-01.d				
Injection Date:	02-Feb-2026 11:43:40	Instrument ID:	30575		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

43 PFNA, CAS: 375-95-1

Signal: 1

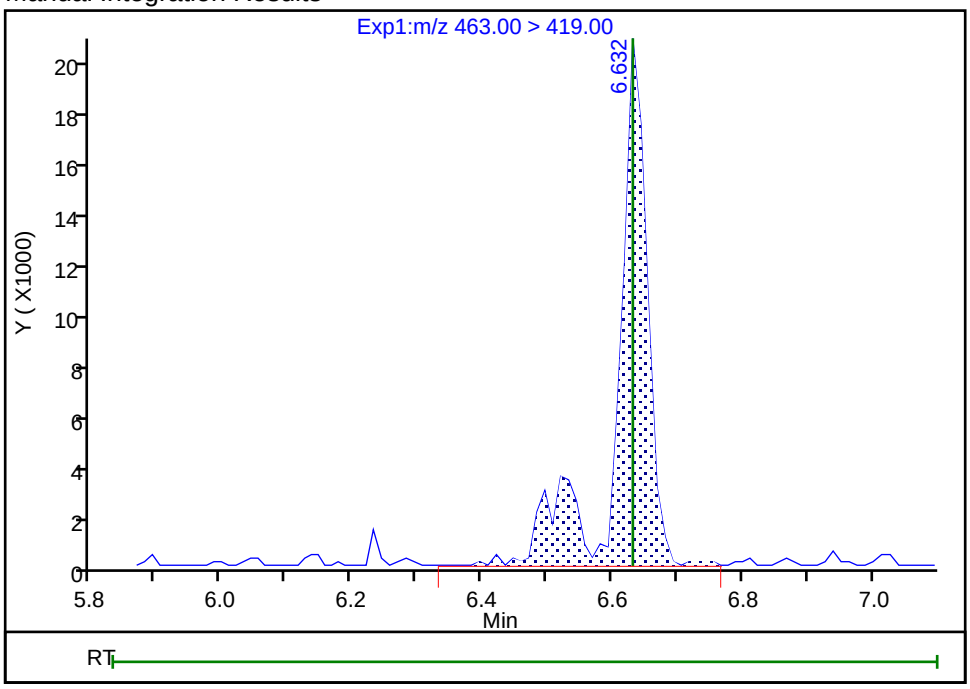
Processing Integration Results

RT: 6.63
Area: 67595
Amount: 0.050000
Amount Units: ng/ml



Manual Integration Results

RT: 6.63
Area: 64911
Amount: 0.050480
Amount Units: ng/ml



Reviewer: P7EB, 02-Feb-2026 12:10:29 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

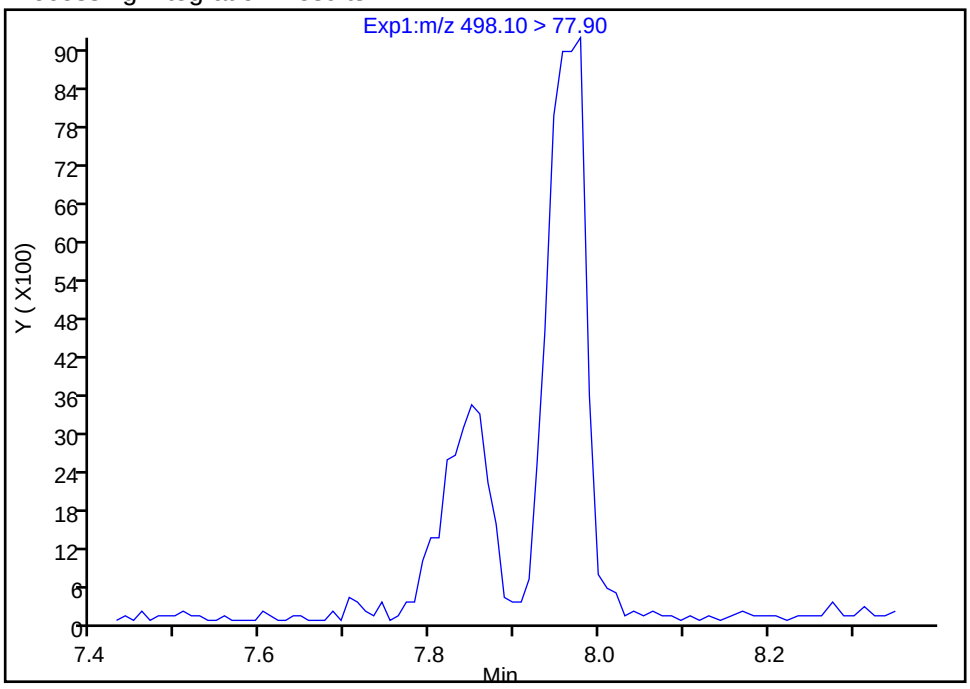
Data File:	\\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-01.d				
Injection Date:	02-Feb-2026 11:43:40	Instrument ID:	30575		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

64 PFOSA, CAS: 754-91-6

Signal: 1

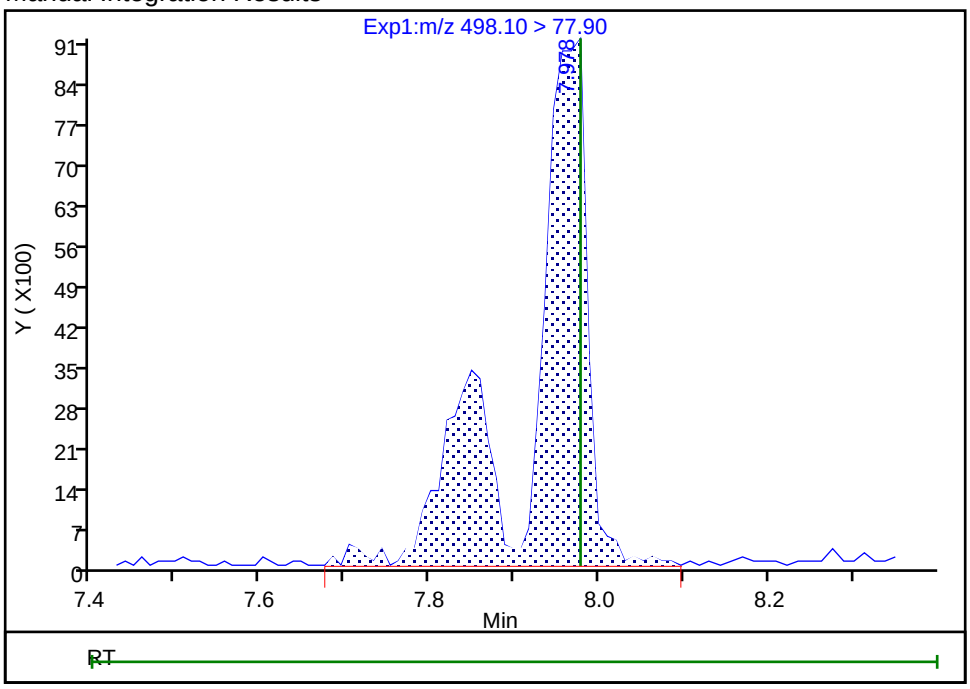
Not Detected
Expected RT: 7.98

Processing Integration Results



Manual Integration Results

RT: 7.98
Area: 44764
Amount: 0.050353
Amount Units: ng/ml



Reviewer: P7EB, 02-Feb-2026 12:10:40 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

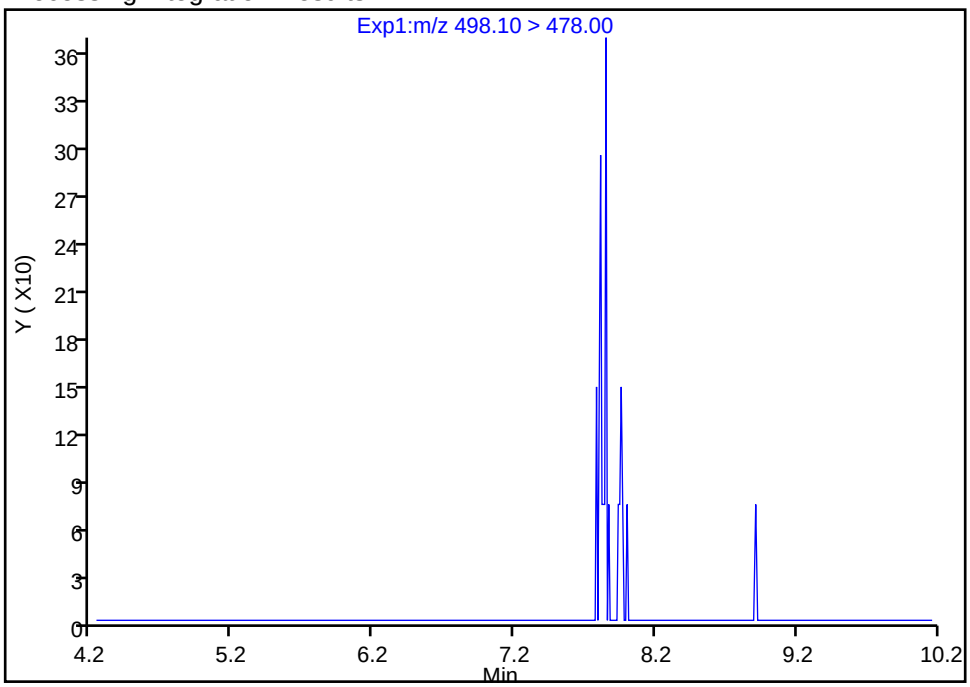
Data File:	\\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-01.d				
Injection Date:	02-Feb-2026 11:43:40	Instrument ID:	30575		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

64 PFOSA, CAS: 754-91-6

Signal: 2

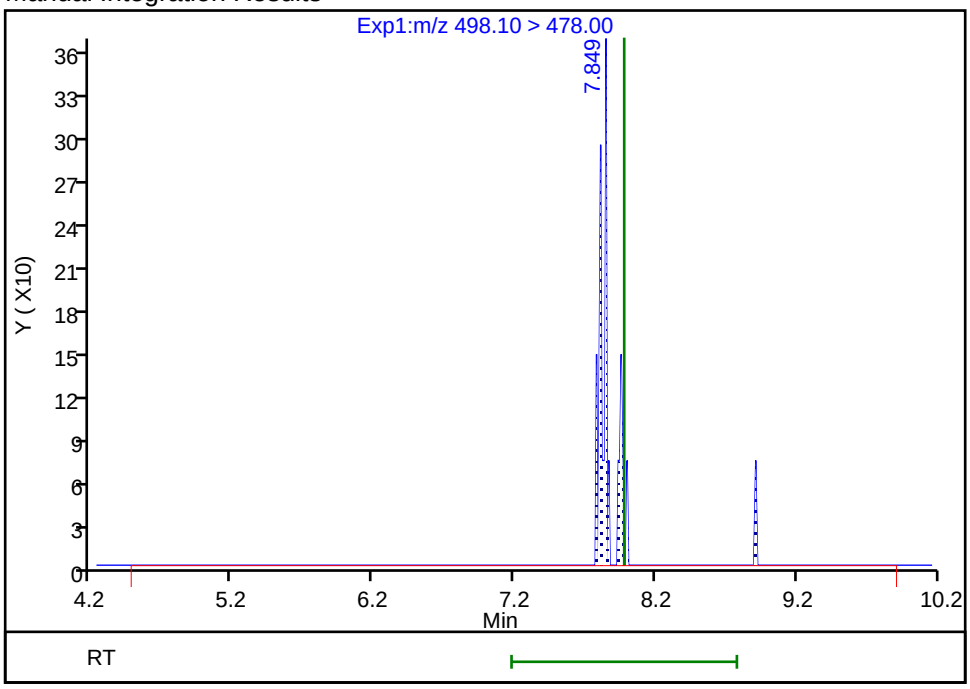
Processing Integration Results

Not Detected
Expected RT: 7.98



Manual Integration Results

RT: 7.85
Area: 1044
Amount: 0.050353
Amount Units: ng/ml



Reviewer: P7EB, 02-Feb-2026 12:10:43 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

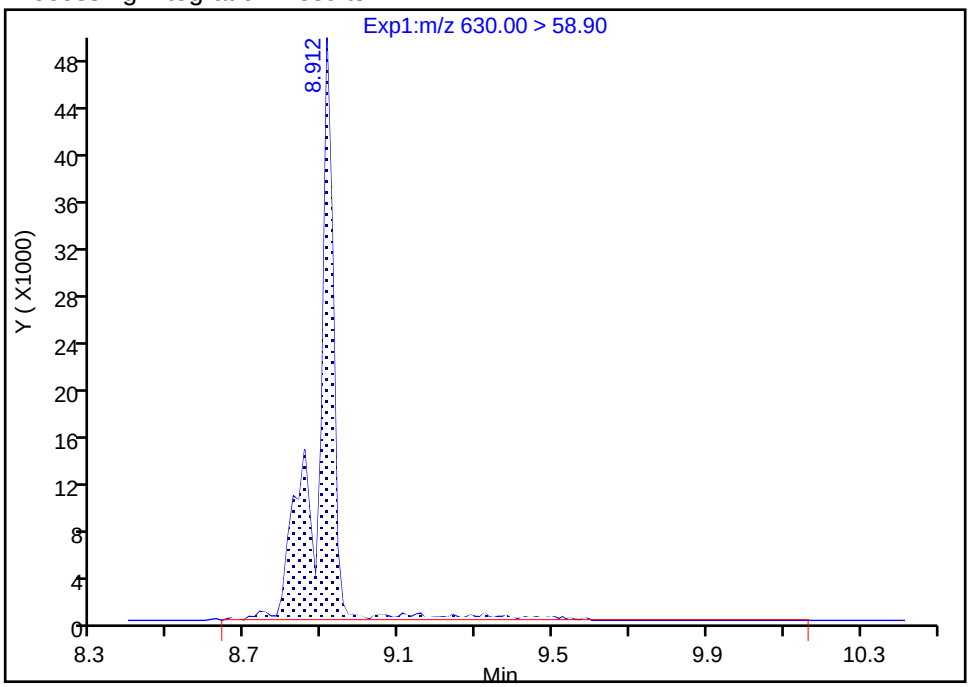
Data File:	\\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-01.d				
Injection Date:	02-Feb-2026 11:43:40	Instrument ID:	30575		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

77 N-EtFOSE-M, CAS: 1691-99-2

Signal: 1

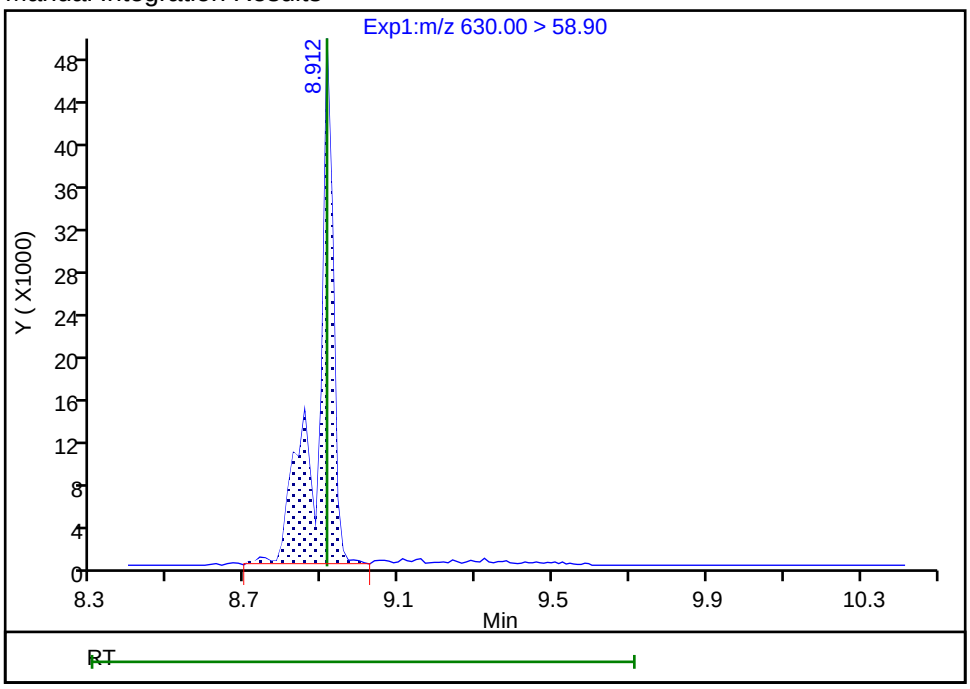
Processing Integration Results

RT: 8.91
Area: 155693
Amount: 0.250000
Amount Units: ng/ml



Manual Integration Results

RT: 8.91
Area: 143050
Amount: 0.256969
Amount Units: ng/ml



Reviewer: P7EB, 02-Feb-2026 12:10:53 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-02.d
Lims ID: IC CAL 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 02-Feb-2026 11:57:16 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 2
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:56:27 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: P7EB Date: 02-Feb-2026 15:05:09
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 2 13C3PFPrA										
166.00 > 121.00	2.113	2.106	0.007	0.486	1621849	2.01		100	937	
1 Perfluoropropionic acid										M
163.00 > 119.00	2.105	2.122	-0.017	0.996	463624	0.6157		98.5	226	M
5 PFBA										
212.80 > 168.90	4.340	4.338	0.002	1.000	327643	0.2600		104	659	
D 6 13C4-PFBA										
216.80 > 171.90	4.340	4.346	-0.006	0.998	2684165	1.99		99.6	7969	
* 7 13C3PFBA										
216.00 > 172.00	4.348	4.346	0.002		2230330	2.00			5787	
9 PFMPA										
229.00 > 84.90	4.639	4.637	0.002	0.933	135312	0.1219		97.5	653	
10 3:3 FTCA										
241.00 > 177.00	4.649	4.647	0.002	0.935	12745	0.2380	Target=1.27	95.2	238	
241.00 > 117.00	4.639	4.647	-0.008	0.933	10365		1.23(0.63-1.90)	95.2	205	
D 11 13C5 PFPeA										
268.30 > 223.00	4.970	4.968	0.002	0.914	2076364	2.06		103	9634	
12 PFPA										
263.00 > 219.00	4.970	4.968	0.002	1.000	143226	0.1211		96.9	218	
13 PFMBA										
279.00 > 85.10	5.128	5.125	0.003	1.032	164073	0.1226		98.1	1151	
15 4:2FTS										
327.10 > 307.00	5.243	5.253	-0.010	1.000	96598	0.2361	Target=1.60	101	626	
327.10 > 80.90	5.243	5.253	-0.010	1.000	61002		1.58(0.80-2.40)	101	92.1	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.243	5.253	-0.010	0.811	1106176	4.69		100	7493	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.395	5.391	0.004	0.992	72138	0.1342	Target=1.47	107	458	
295.00 > 84.90	5.395	5.391	0.004	0.992	50860		1.42(0.74-2.21)	107	231	
D 17 13C5 PFHxA										
318.00 > 273.00	5.437	5.432	0.005	1.000	2736629	1.93		96.4	5537	
* 18 13C2 PFHxA										
315.10 > 270.00	5.437	5.432	0.005		6137888	5.00			12462	
19 PFHxA										
313.00 > 269.00	5.437	5.432	0.005	1.000	188020	0.1431	Target=11.71	114	284	
313.00 > 118.90	5.437	5.432	0.005	1.000	15073		12.47(5.85-17.56)	114	65.1	
22 5:3 FTCA										
341.00 > 237.10	5.505	5.514	-0.009	1.013	105404	0.6290	Target=0.90	101	359	
341.00 > 217.00	5.505	5.514	-0.009	1.013	117578		0.90(0.45-1.35)	101	641	
21 PFBS										
298.70 > 79.90	5.574	5.569	0.005	1.000	125418	0.1148	Target=2.89	103	847	
298.70 > 98.80	5.574	5.569	0.005	1.000	43019		2.92(1.44-4.33)	103	272	
D 20 13C3 PFBS										
302.10 > 79.90	5.574	5.569	0.005	0.862	2248706	1.90		102	7946	
28 FBSA										
297.90 > 78.00	5.588	5.583	0.005	1.003	119486	0.1244		99.5	533	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.617	5.626	-0.009	1.033	1873985	1.93		96.5	4706	
24 HFPO-DA										
284.90 > 168.90	5.617	5.626	-0.009	1.000	89934	0.1001	Target=2.42	107	396	
284.90 > 184.90	5.617	5.626	-0.009	1.000	38567		2.33(1.21-3.62)	107	236	
25 PFEESA										
314.80 > 134.90	5.811	5.807	0.005	1.069	340326	0.1187	Target=13.09	106	1685	
314.80 > 82.90	5.811	5.807	0.005	1.069	26209		12.99(6.55-19.64)	106	137	
27 PFHpA										
363.10 > 319.00	5.849	5.857	-0.008	1.000	175067	0.1281	Target=2.35	102	335	
363.10 > 169.00	5.849	5.857	-0.008	1.000	74199		2.36(1.17-3.52)	102	236	
D 26 13C4 PFHpA										
367.10 > 322.00	5.849	5.857	-0.008	1.076	2787718	2.00		100	3173	
29 ADONA										
376.90 > 250.90	6.003	5.999	0.004	1.069	381644	0.1246	Target=1.85	105	1508	
376.90 > 84.80	6.003	5.999	0.004	1.069	203980		1.87(0.92-2.77)	105	767	
32 PFPeS										
349.10 > 79.90	6.037	6.033	0.004	0.934	141230	0.1139	Target=3.28	97.0	646	
349.10 > 98.90	6.048	6.033	0.015	0.935	41575		3.40(1.64-4.92)	97.0	252	
31 6:2FTS										
427.10 > 407.00	6.037	6.044	-0.007	1.000	73232	0.2399	Target=1.80	101	477	
427.10 > 80.90	6.037	6.044	-0.007	1.000	36779		1.99(0.90-2.70)	101	188	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.037	6.044	-0.007	0.934	697735	4.99		105	3258	
33 BTS										
280.00 > 147.00	6.193	6.199	-0.006	0.958	249039	0.1226		100	975	
D 35 13C8 PFOA										
421.10 > 376.00	6.238	6.245	-0.007	1.000	3396255	2.04		102	11951	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.238	6.245	-0.007		8315063	5.00			9673	
36 PFOA										
413.00 > 369.00	6.250	6.245	0.005	1.002	182849	0.1420	Target=2.11	114	12066	
413.00 > 169.00	6.238	6.245	-0.007	1.000	82119		2.23(1.06-3.17)	114	8901	
39 7:3 FTCA										
441.00 > 316.90	6.313	6.308	0.005	1.161	94901	0.6227	Target=0.82	99.6	363	
441.00 > 336.90	6.313	6.308	0.005	1.161	123880		0.77(0.41-1.23)	99.6	529	
40 PFHxS										
398.70 > 79.90	6.466	6.472	-0.006	1.000	136402	0.1129	Target=3.44	99.0	236	
398.70 > 98.90	6.466	6.472	-0.006	1.000	42631		3.20(1.72-5.16)	99.0	102	
* 38 18O2 PFHxS										
403.00 > 83.90	6.466	6.472	-0.006		1766780	1.90			5740	
D 37 13C3 PFHxS										
402.10 > 79.90	6.466	6.472	-0.006	1.000	1788184	1.92		101	5845	
D 42 13C9 PFNA										
472.10 > 427.00	6.638	6.632	0.006	1.000	3027572	2.12		106	6698	
* 41 13C5 PFNA										
468.00 > 423.00	6.638	6.632	0.006		2849911	2.00			6094	
43 PFNA										
463.00 > 419.00	6.625	6.632	-0.007	0.998	176780	0.1332	Target=2.84	107	14838	
463.00 > 219.00	6.638	6.632	0.006	1.000	62816		2.81(1.42-4.26)	107	70.3	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.817	6.801	0.016	1.054	623183	4.58		95.3	2940	
45 8:2FTS										
527.10 > 507.00	6.806	6.812	-0.006	0.998	51086	0.2397	Target=1.52	99.9	14664	
527.10 > 80.80	6.806	6.812	-0.006	0.998	38078		1.34(0.76-2.28)	99.9	216	
46 PFECHS										
461.00 > 381.00	6.851	6.846	0.005	1.060	38612	0.1231	Target=0.31	107	229	
461.00 > 99.00	6.840	6.846	-0.006	1.058	113406		0.34(0.16-0.47)	107	313	
47 PFHpS										
449.00 > 79.90	6.873	6.880	-0.007	0.944	121801	0.1295	Target=3.44	109	319	
449.00 > 98.80	6.873	6.880	-0.007	0.944	33263		3.66(1.72-5.16)	109	9712	
53 FHxSA										
397.90 > 78.00	6.885	6.891	-0.006	1.065	159424	0.1234		98.7	580	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.957	6.965	-0.008	0.955	1527232	4.75		95.1	2617	
49 NMeFOSAA										
570.10 > 419.00	6.957	6.965	-0.008	1.000	41691	0.1221	Target=1.84	97.7	54.7	
570.10 > 483.00	6.970	6.965	0.005	1.002	20864		2.00(0.92-2.76)	97.7	51.9	
D 50 13C6 PFDA										
519.10 > 474.10	7.033	7.028	0.005	1.000	2910412	1.90		95.0	5041	
* 52 13C2 PFDA										
515.10 > 470.10	7.033	7.028	0.005		3003682	2.00			7621	
51 PFDA										
512.90 > 469.00	7.033	7.028	0.005	1.000	157464	0.1292	Target=4.61	103	508	
512.90 > 219.00	7.020	7.028	-0.008	0.998	33361		4.72(2.31-6.92)	103	146	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.143	7.138	0.005	0.981	1333414	4.70		94.0	2359	
55 NEtFOSAA										
584.20 > 419.10	7.129	7.138	-0.009	0.998	27968	0.1277	Target=1.44	102	61.2	
584.20 > 526.00	7.143	7.138	0.005	1.000	16714		1.67(0.72-2.16)	102	24.8	
58 PFOS										
498.90 > 79.90	7.284	7.278	0.006	1.000	140032	0.1247	Target=4.21	107	34735	
498.90 > 98.80	7.284	7.278	0.006	1.000	34996		4.00(2.11-6.32)	107	90.3	
D 56 13C8 PFOS										
507.10 > 79.90	7.284	7.278	0.006	1.000	1492693	1.87		97.5	2228	
* 57 13C4 PFOS										
502.80 > 79.90	7.284	7.278	0.006		1654344	1.92			5719	
D 59 13C7 PFUnA										
570.00 > 525.10	7.423	7.419	0.004	1.055	3690148	2.00		100	6820	
60 PFUnA										
563.10 > 519.00	7.423	7.429	-0.006	1.000	174434	0.1278	Target=5.05	102	682	
563.10 > 269.10	7.434	7.429	0.005	1.001	35130		4.97(2.52-7.57)	102	313	
61 9ClFOS										
530.80 > 351.00	7.596	7.593	0.003	1.043	259778	0.1170	Target=3.14	100	2624	
532.80 > 353.00	7.596	7.593	0.003	1.043	83609		3.11(1.57-4.71)	100	632	
62 PFNS										
548.80 > 79.90	7.689	7.675	0.014	1.056	113523	0.1267	Target=3.68	105	1212	
548.80 > 98.80	7.689	7.675	0.014	1.056	30788		3.69(1.84-5.52)	105	333	
D 81 PFDoA										
615.10 > 570.00	7.824	7.820	0.004	1.112	3178687	1.95		97.3	7953	
63 PFDoA										
613.10 > 569.00	7.814	7.820	-0.006		180086	0.1270	Target=5.59	102	879	
613.10 > 319.00	7.824	7.820	0.004		31975		5.63(2.80-8.39)	102	241	
D 65 13C8 FOSA										
506.10 > 77.80	7.962	7.957	0.005	1.093	1966070	1.99		99.6	6070	
64 PFOSA										
498.10 > 77.90	7.972	7.978	-0.006	1.001	118856	0.1318	Target=41.61	105	228	
498.10 > 478.00	7.972	7.978	-0.006	1.001	3721		31.94(20.81-62.42)	105	14.6	
66 PFDS										
599.00 > 79.90	8.057	8.053	0.004	1.106	118891	0.1304	Target=3.58	108	1018	
599.00 > 98.80	8.046	8.053	-0.007	1.105	33563		3.54(1.79-5.38)	108	485	
67 PFTrDA										
663.00 > 619.00	8.190	8.183	0.007	0.962	192481	0.1295	Target=5.80	104	748	
663.00 > 168.90	8.190	8.183	0.007	0.962	32272		5.96(2.90-8.70)	104	298	
68 11ClFOS										
630.90 > 450.90	8.330	8.326	0.004	1.144	206642	0.1204	Target=3.03	102	3001	
632.90 > 452.90	8.330	8.326	0.004	1.144	69133		2.99(1.51-4.55)	102	21605	
70 PFTeDA										
713.10 > 168.90	8.512	8.522	-0.010	1.000	19205	0.1283	Target=1.08	103	296	
713.10 > 219.00	8.512	8.522	-0.010	1.000	17044		1.13(0.54-1.62)	103	153	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.512	8.522	-0.010	1.210	1715367	1.90		95.2	3695	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.686	8.681	0.005	1.192	69373	0.1285	Target=4.08	106	658	
699.10 > 98.80	8.672	8.681	-0.009	1.191	16982		4.09(2.04-6.11)	106	313	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.714	8.723	-0.009	1.196	689602	4.77		95.4	610	
72 N-MeFOSE-M										
616.10 > 58.90	8.728	8.737	-0.009	1.002	241229	0.6510		104	178	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.815	8.810	0.005	1.210	458904	2.05		102	3146	
75 NMeFOSA										
511.90 > 219.00	8.815	8.810	0.005	1.000	29571	0.1259	Target=0.70	101	211	
511.90 > 169.00	8.815	8.810	0.005	1.000	40557		0.73(0.35-1.06)	101	177	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.902	8.897	0.005	1.222	704379	4.79		95.8	1011	
77 N-EtFOSE-M										
630.00 > 58.90	8.916	8.912	0.004	1.002	366687	0.6588		105	1787	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.971	8.967	0.004	1.232	535183	1.95		97.7	2708	
79 N-EtFOSA-M										
526.00 > 219.00	8.971	8.981	-0.010	1.000	33907	0.1345	Target=0.80	108	286	
526.00 > 169.00	8.971	8.981	-0.010	1.000	41067		0.83(0.40-1.20)	108	356	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.264	9.286	-0.022	1.088	106343	0.1307	Target=11.76	105	3146	
913.00 > 169.00	9.264	9.286	-0.022	1.088	8979		11.84(5.88-17.64)	105	481	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_CAL2_00034 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 17:56:30 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-02.d

Injection Date: 02-Feb-2026 11:57:16 Instrument ID: 30575

Lims ID: IC CAL 2

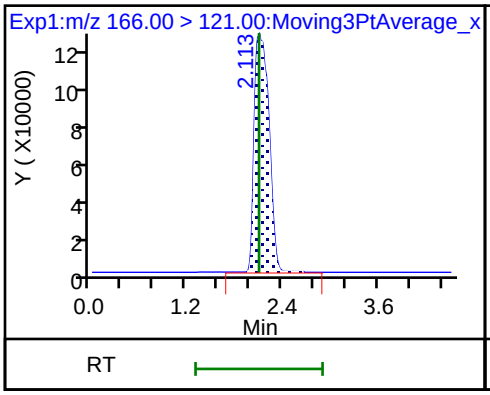
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Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 3 Worklist Smp#: 2

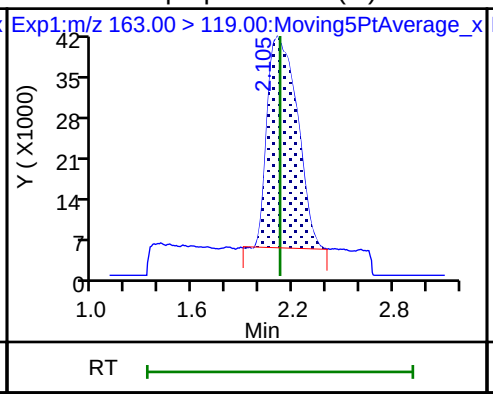
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

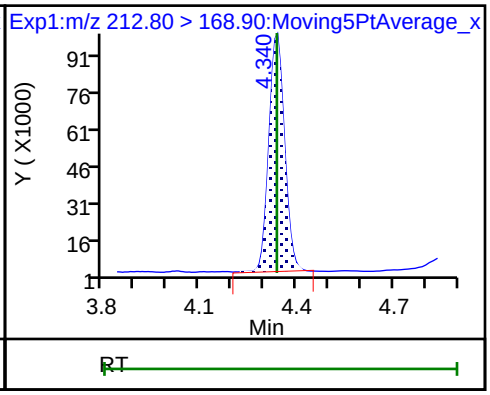
D 2 13C3PFPrA



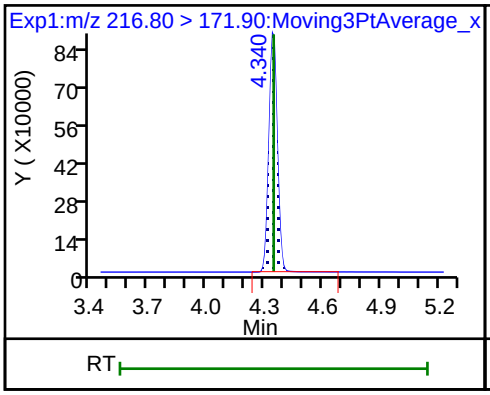
1 Perfluoropropionic acid (M)



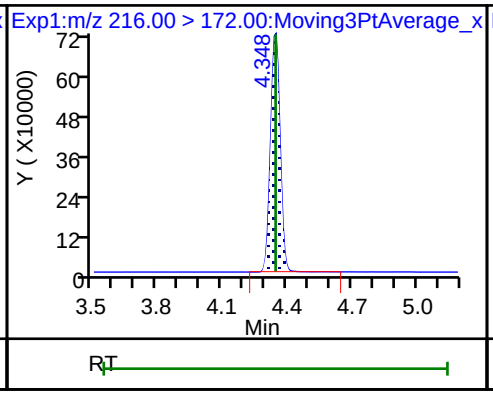
5 PFBA



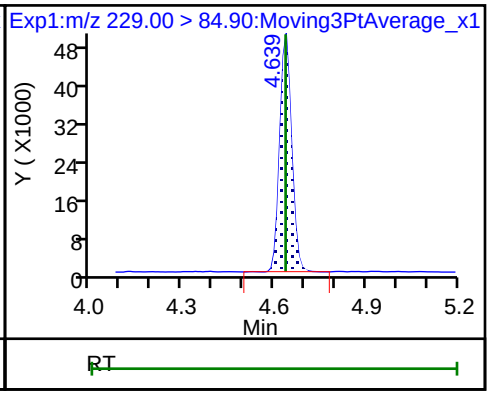
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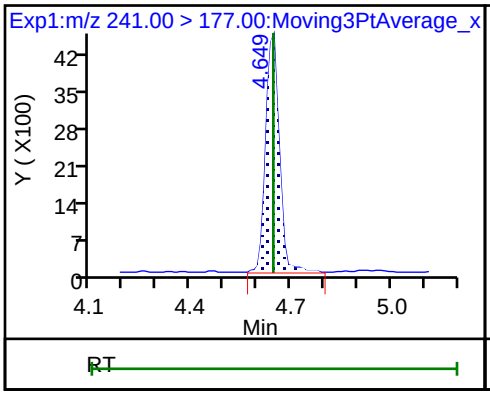
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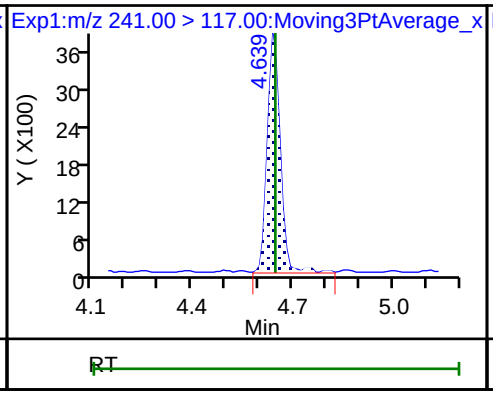
9 PFMPA



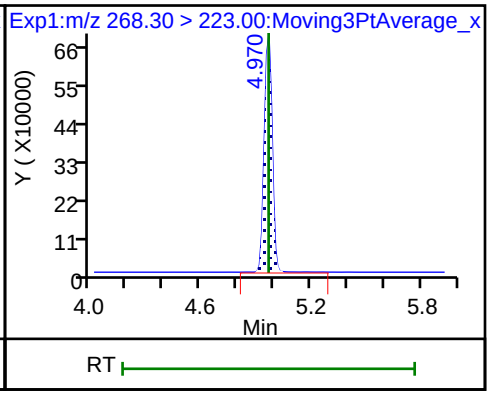
10 3:3 FTCA



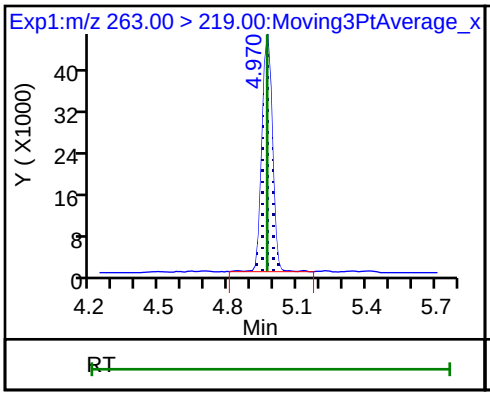
10 3:3 FTCA



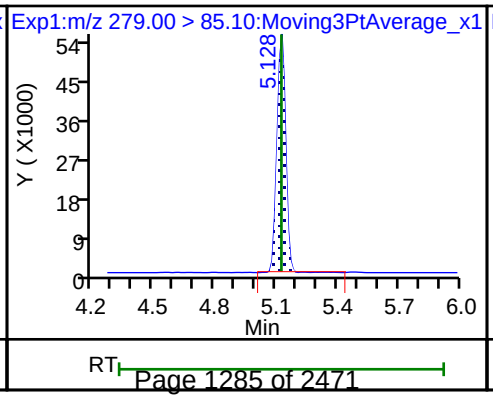
D 11 13C5 PFPeA



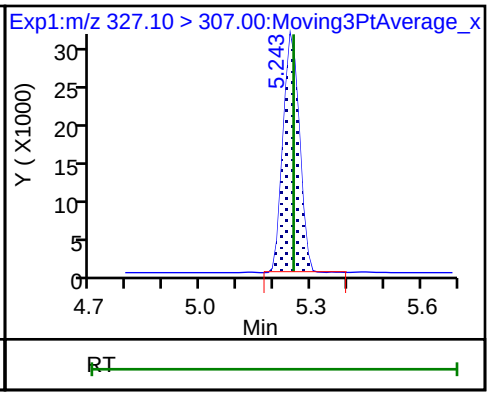
12 PFPA



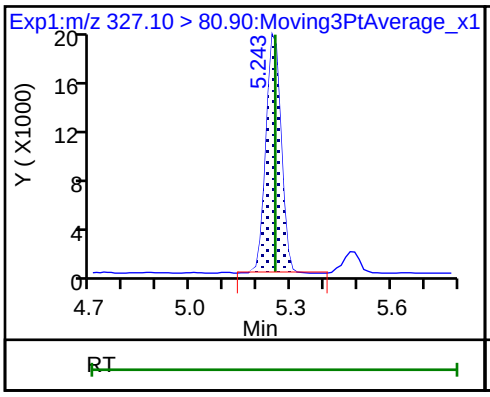
13 PFMBA



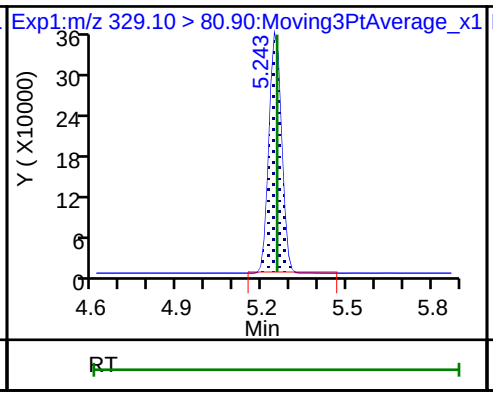
15 4:2FTS



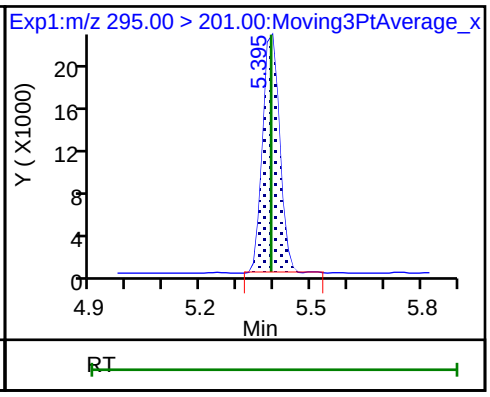
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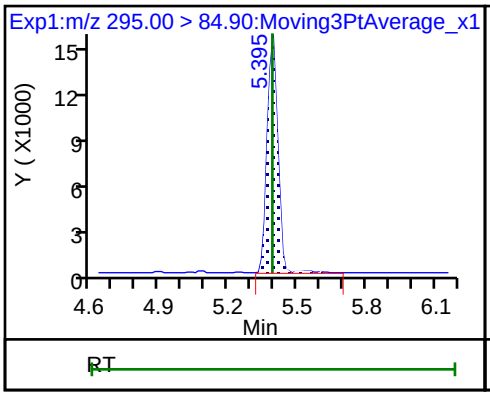
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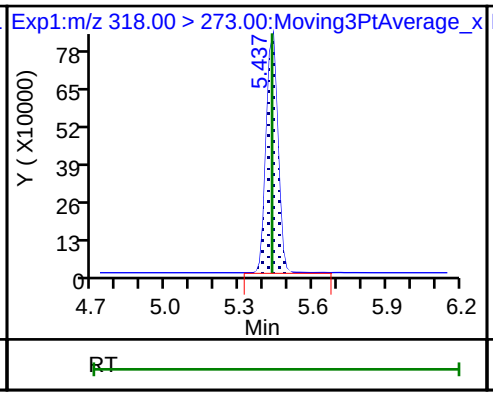
16 NFDHA



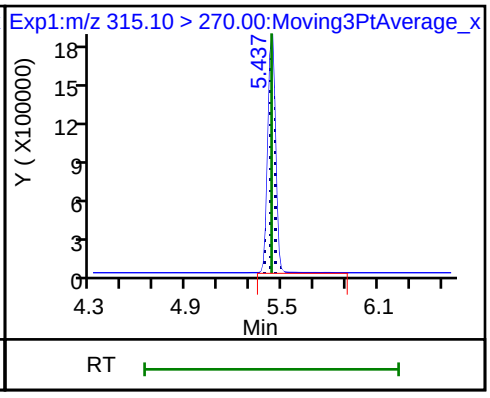
16 NFDHA



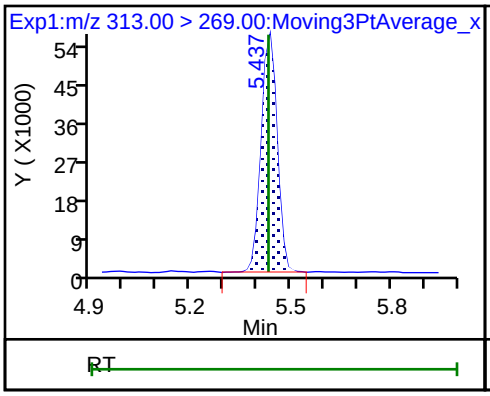
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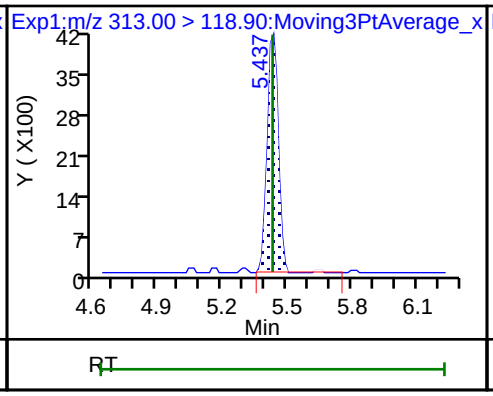
* 18 13C2 PFHxA



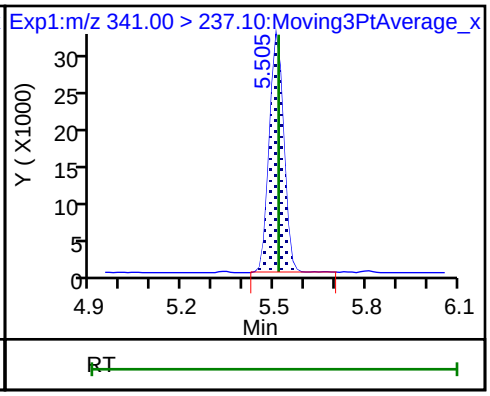
19 PFHxA



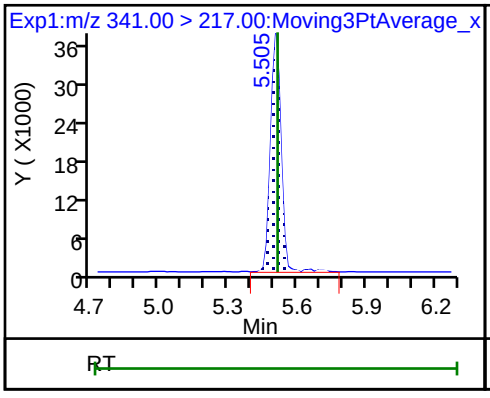
19 PFHxA



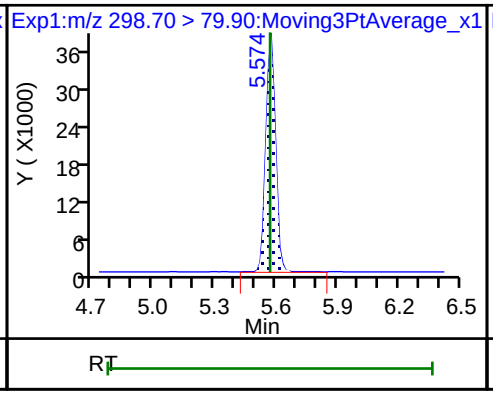
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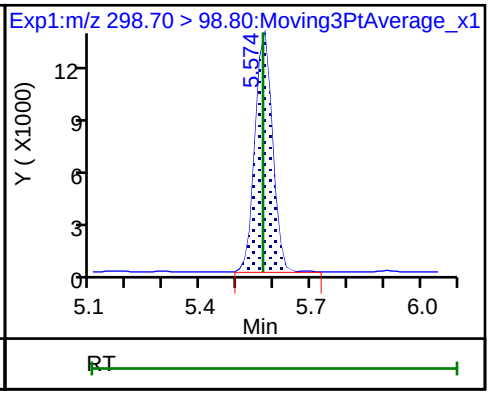
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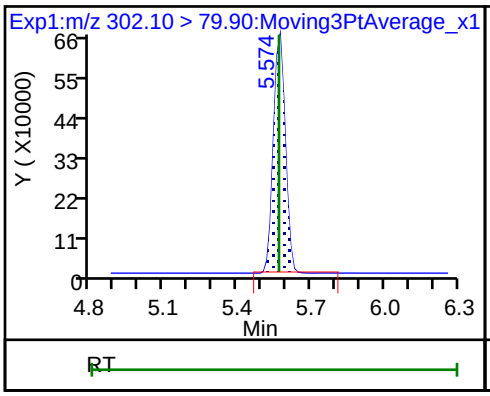
21 PFBS



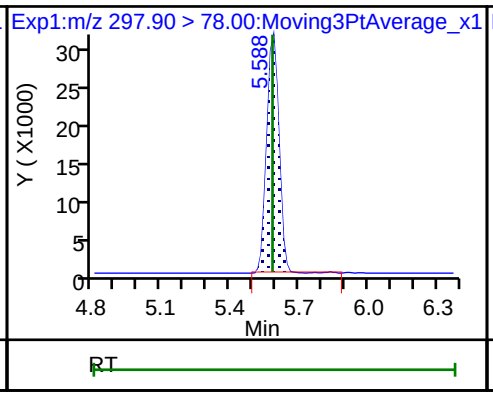
21 PFBS



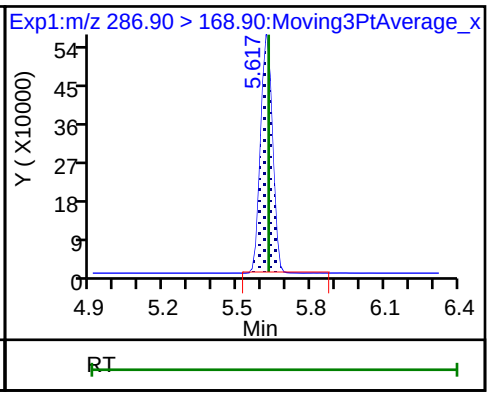
D 20 13C3 PFBS



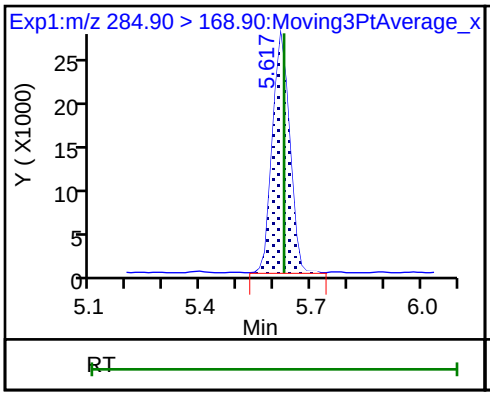
28 FBSA



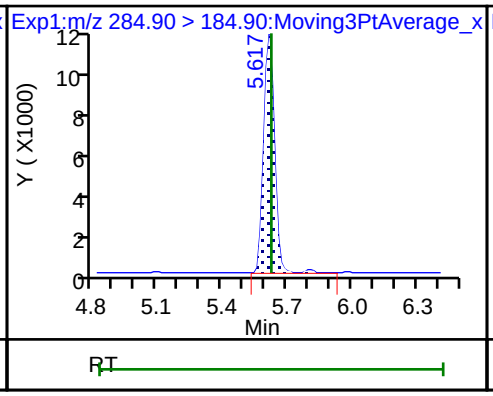
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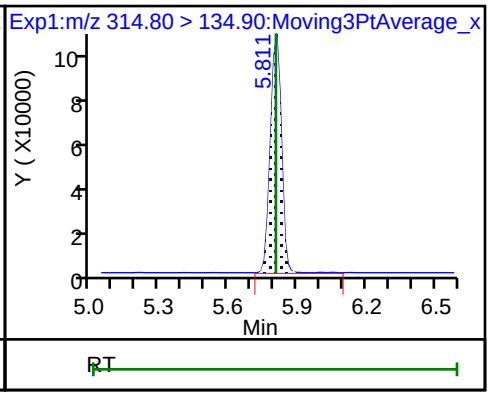
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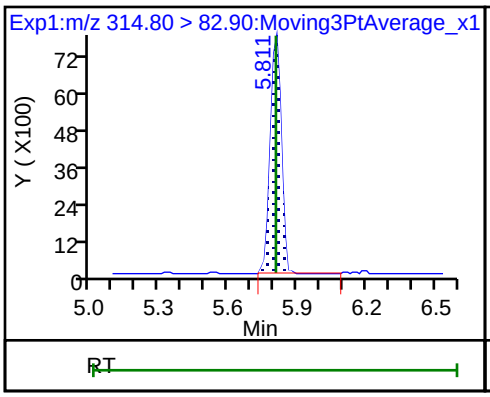
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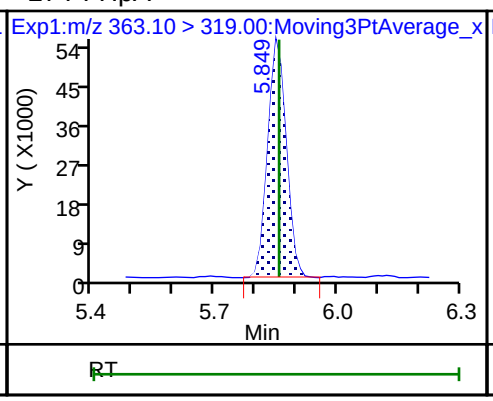
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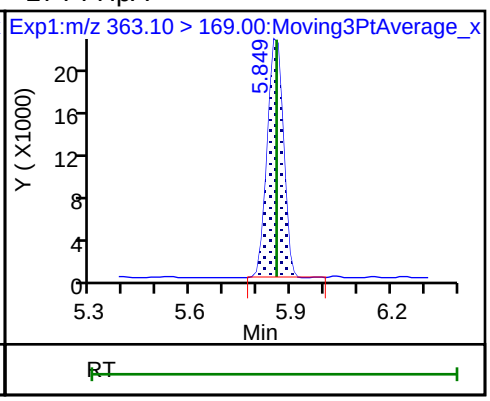
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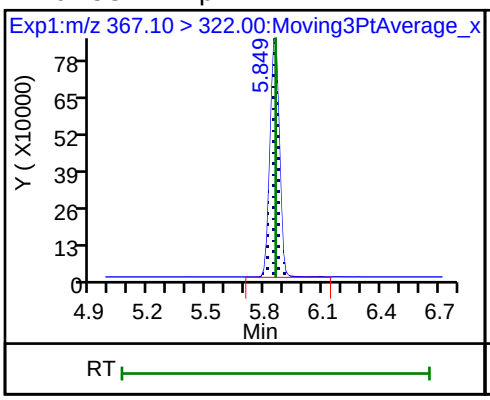
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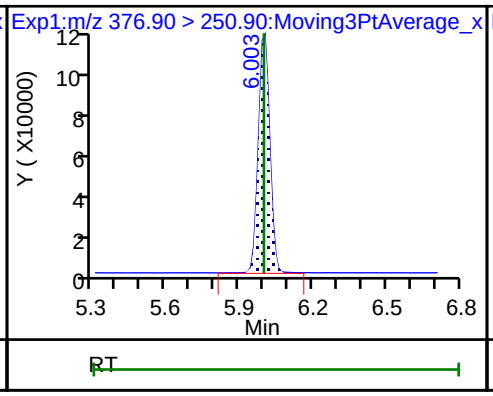
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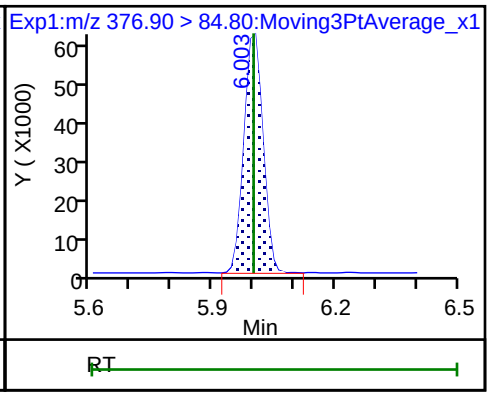
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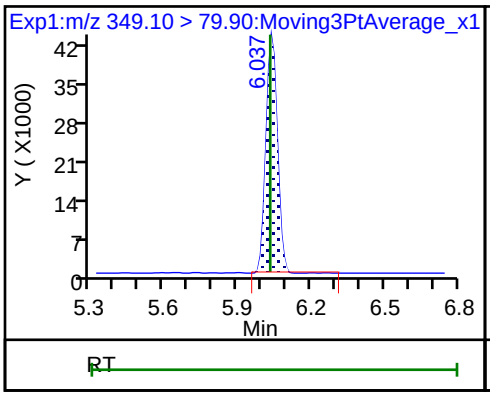
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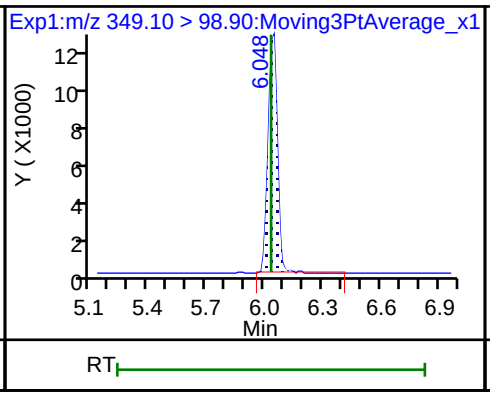
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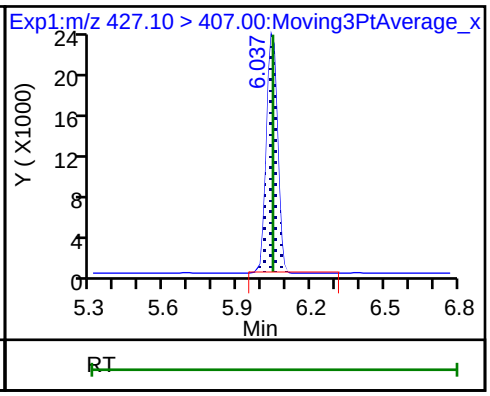
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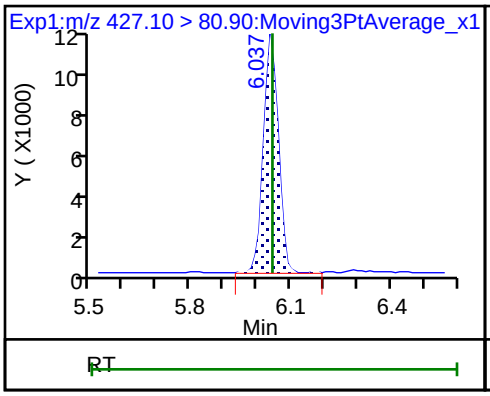
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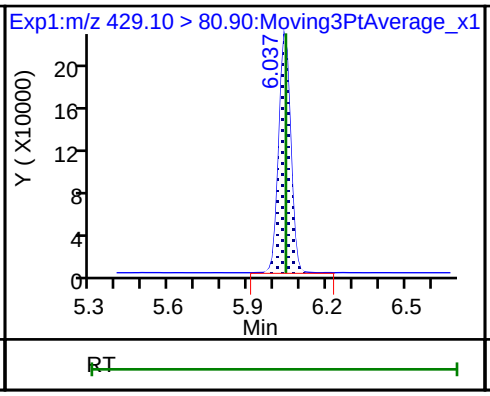
31 6:2FTS



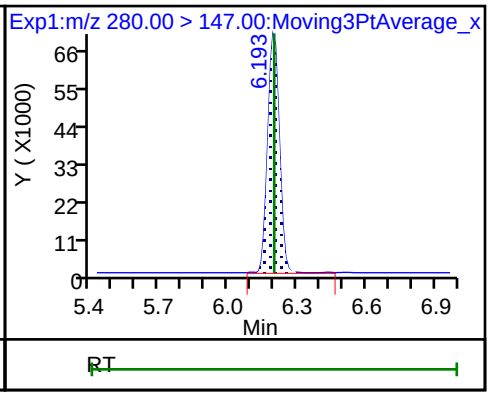
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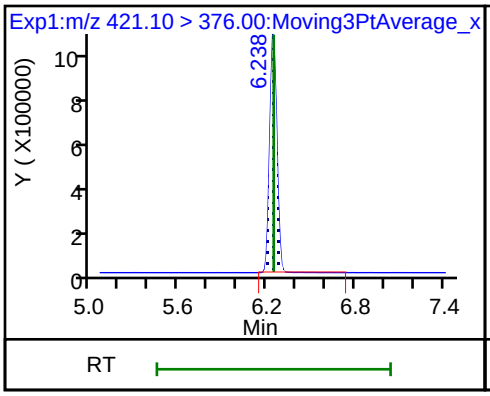
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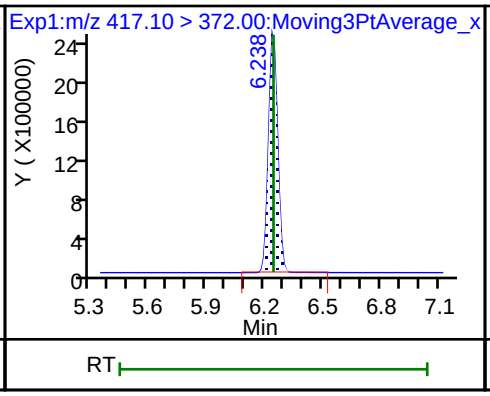
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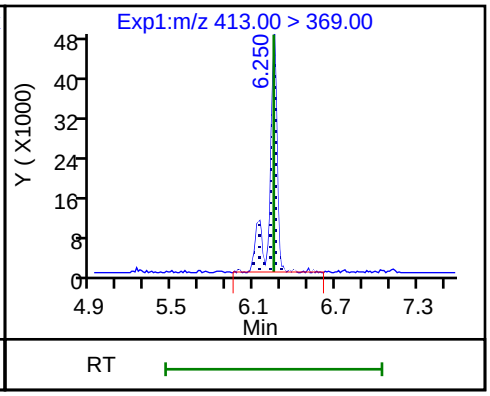
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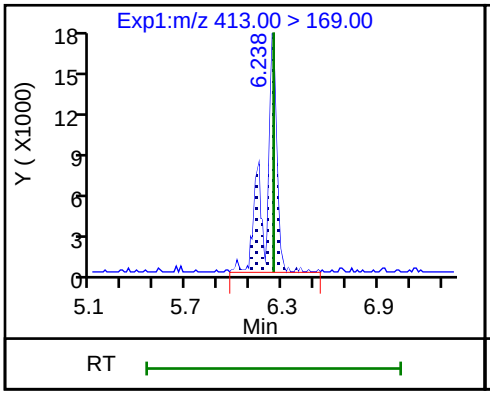
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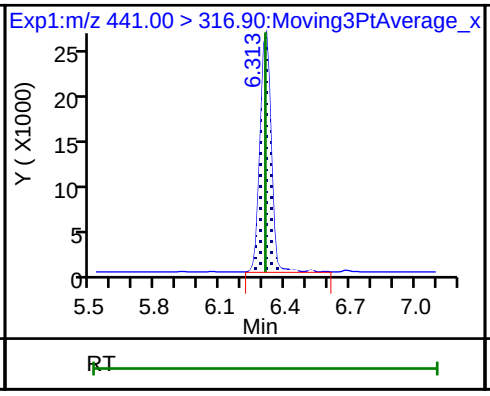
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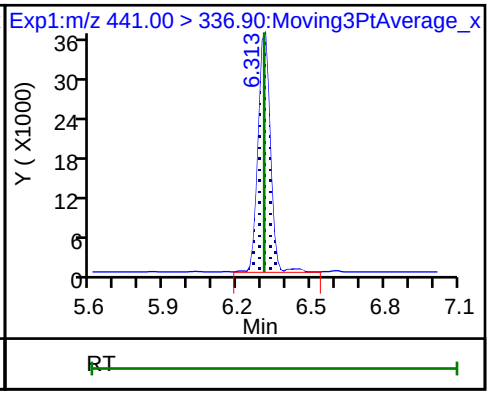
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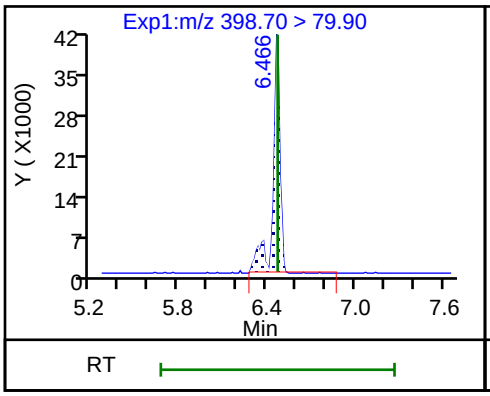
39 7:3 FTCA



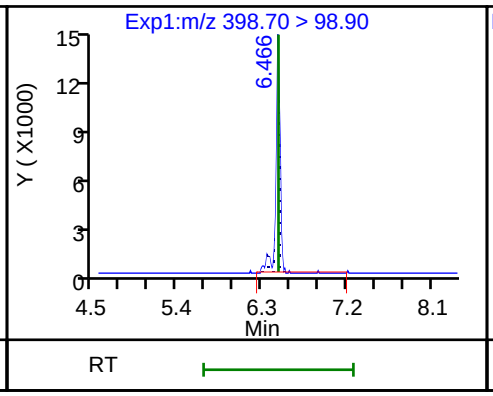
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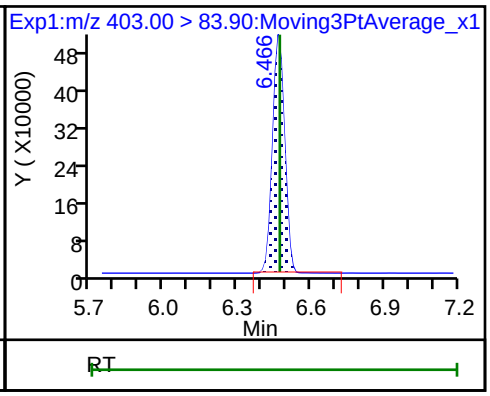
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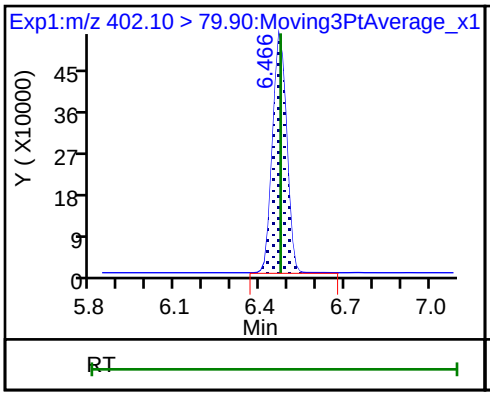
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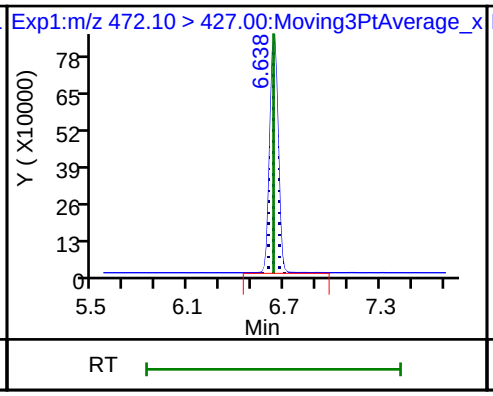
* 38 18O2 PFHxS



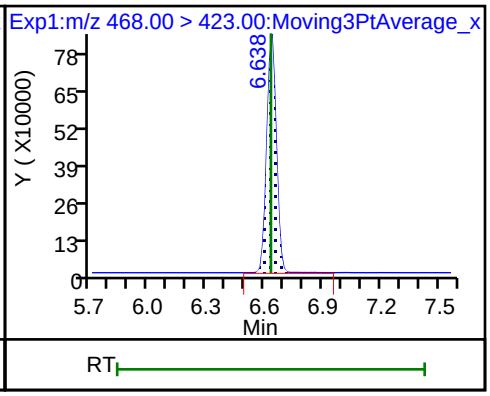
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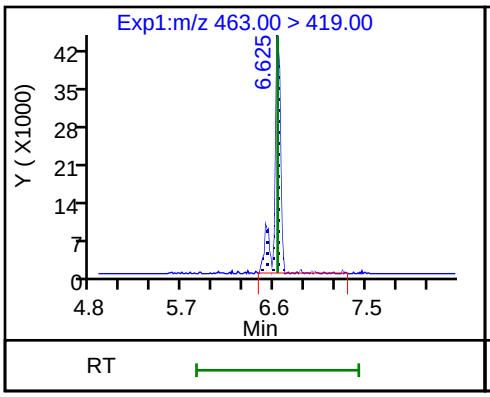
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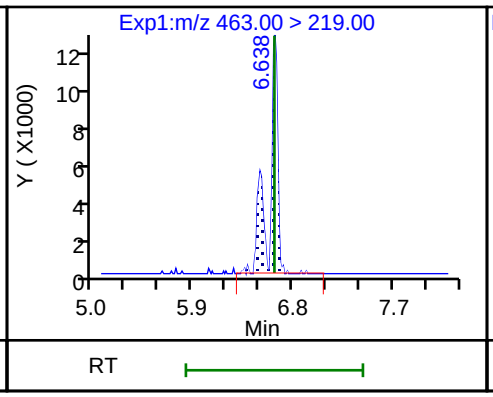
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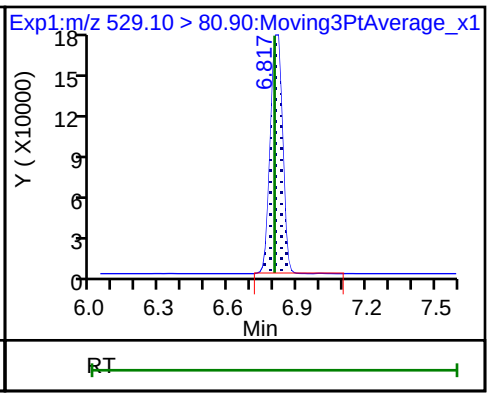
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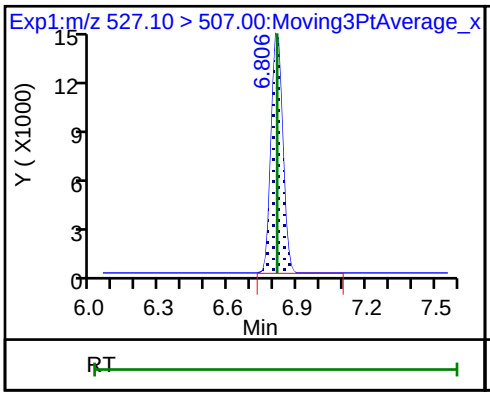
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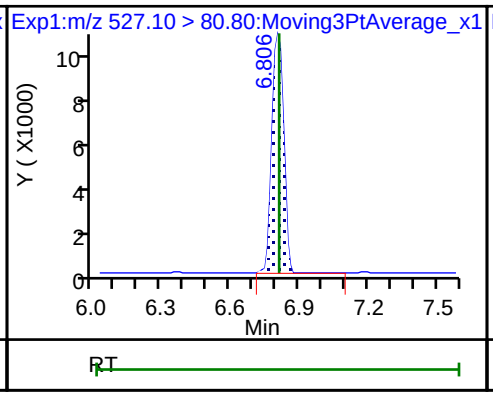
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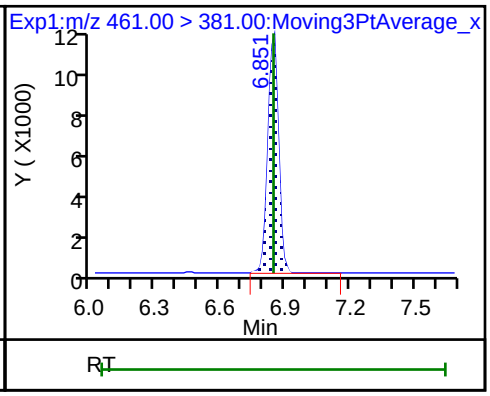
45 8:2FTS



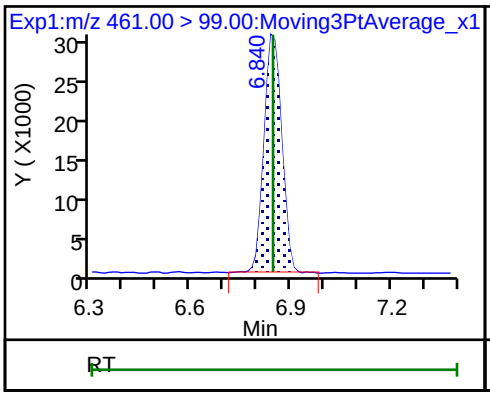
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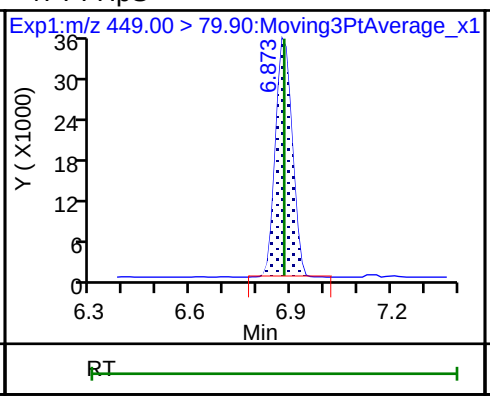
46 PFECHS



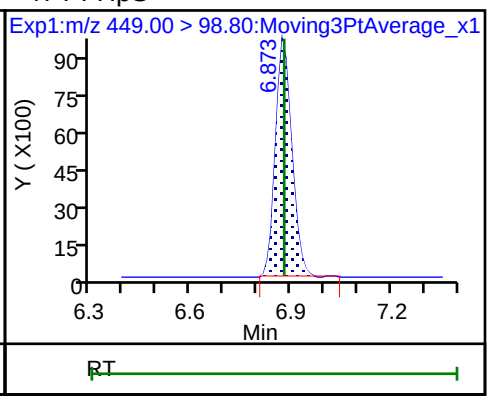
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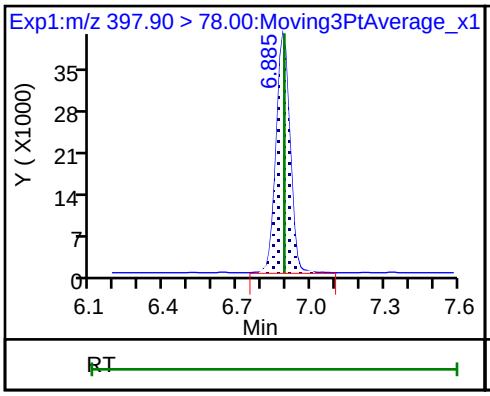
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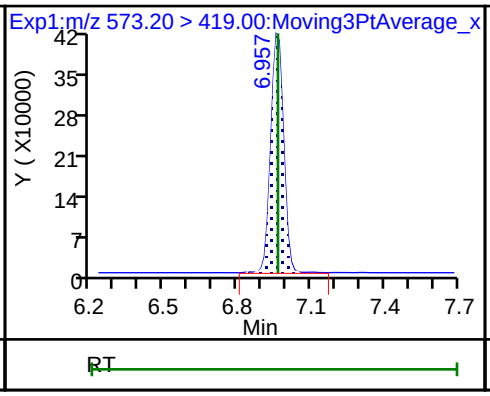
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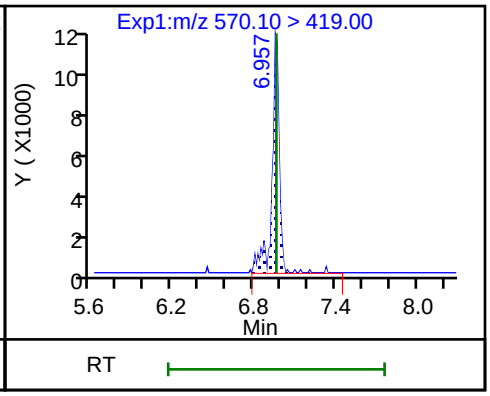
53 FHxSA



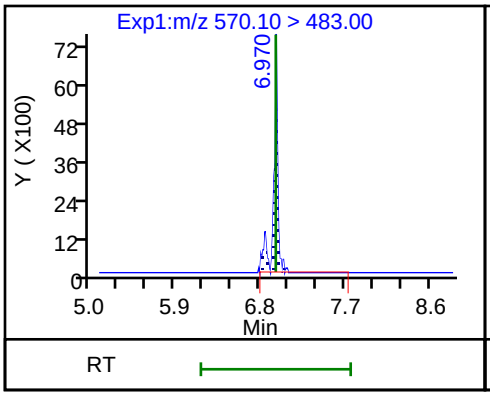
D 48 d3-NMeFOSAA



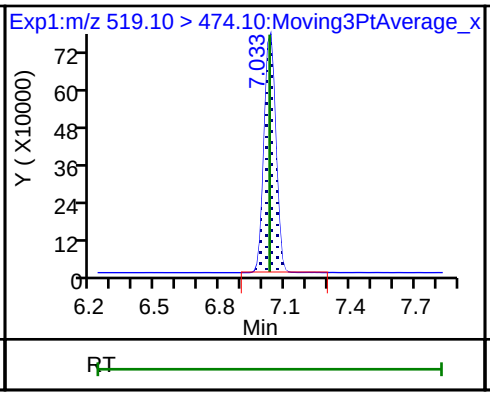
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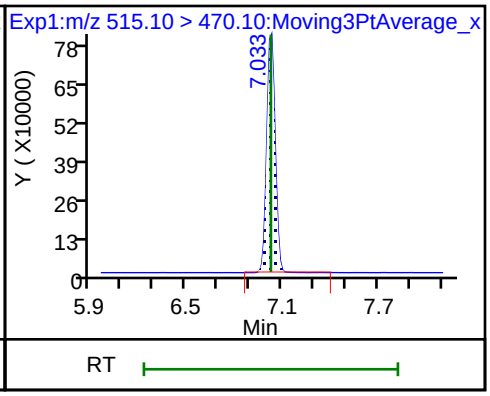
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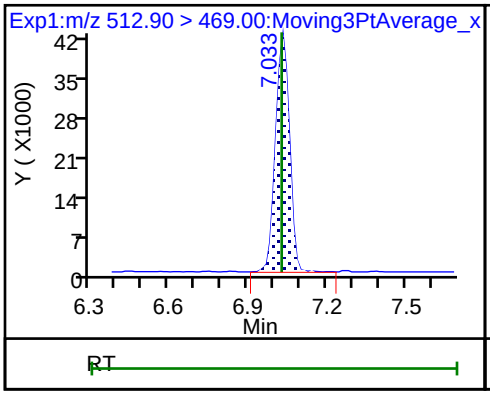
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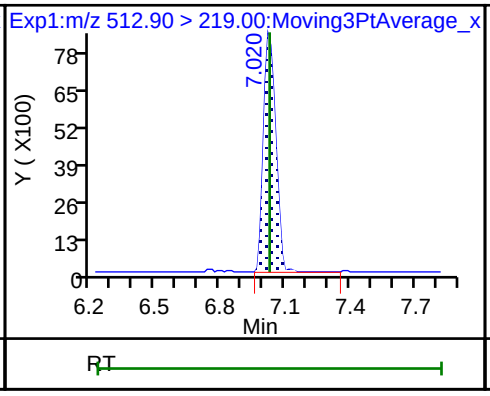
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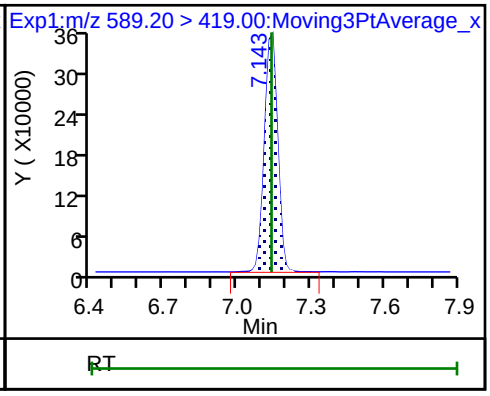
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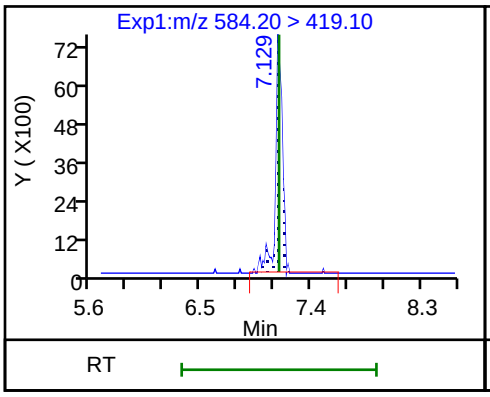
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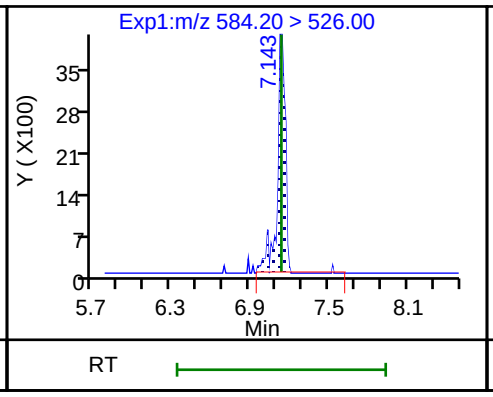
D 54 d5-NEtFOSAA



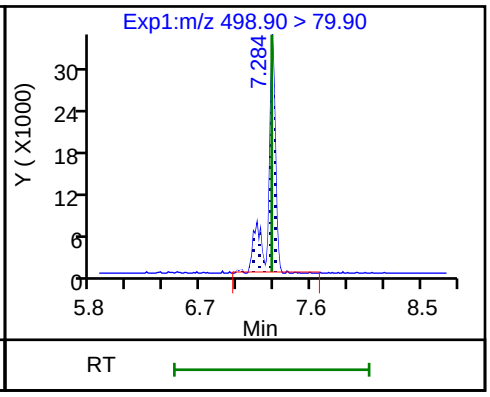
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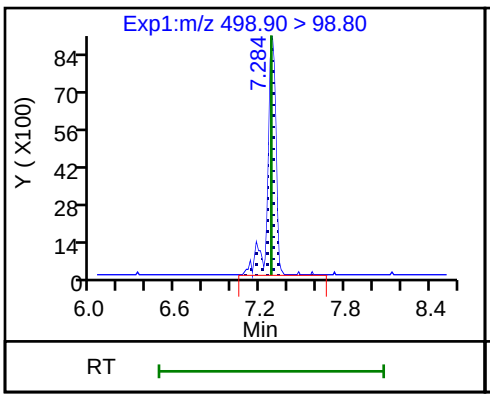
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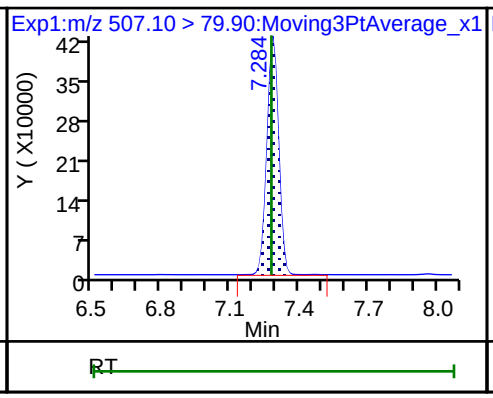
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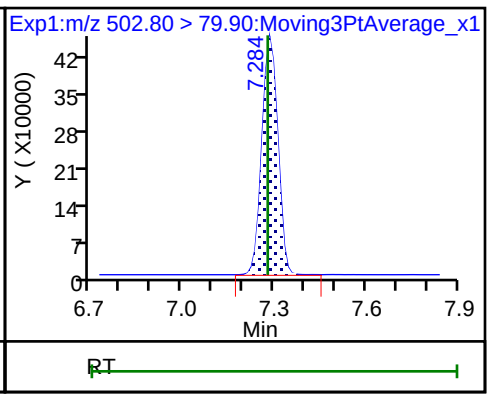
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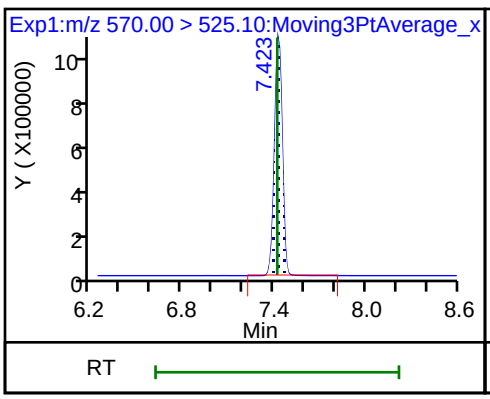
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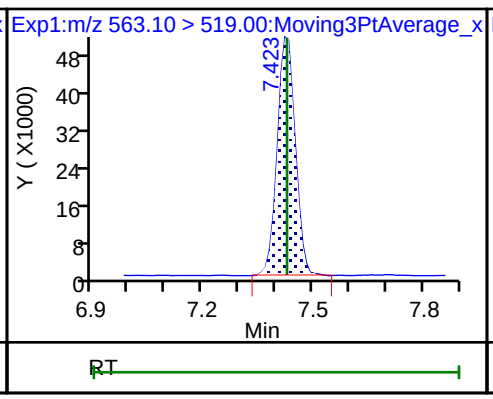
* 57 13C4 PFOS



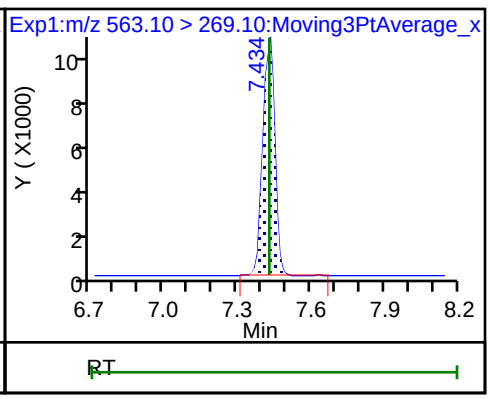
D 59 13C7 PFUnA



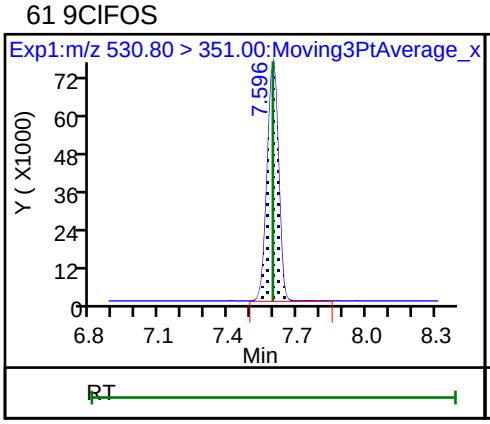
60 PFUnA



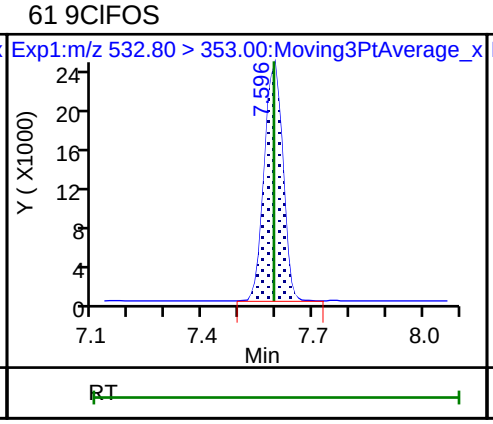
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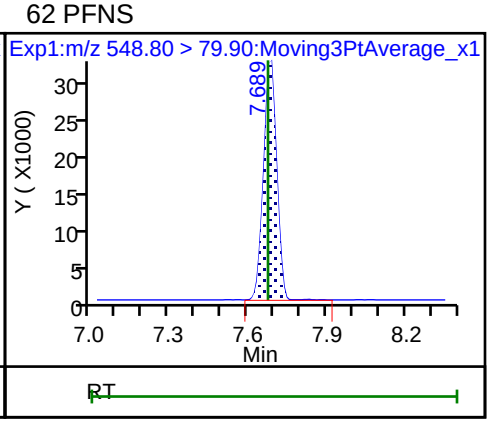
61 9ClFOS



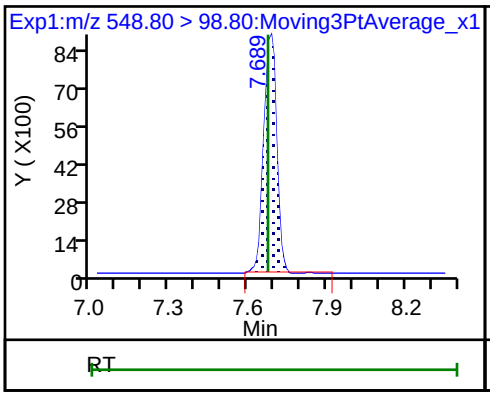
61 9ClFOS



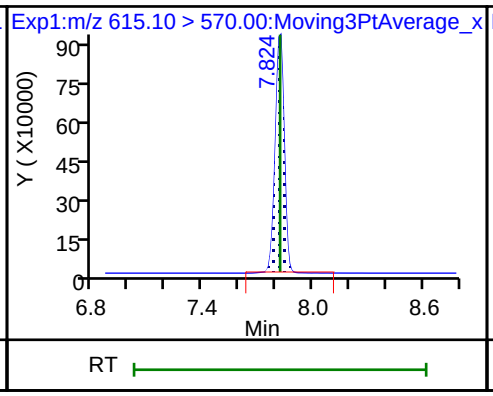
62 PFNS



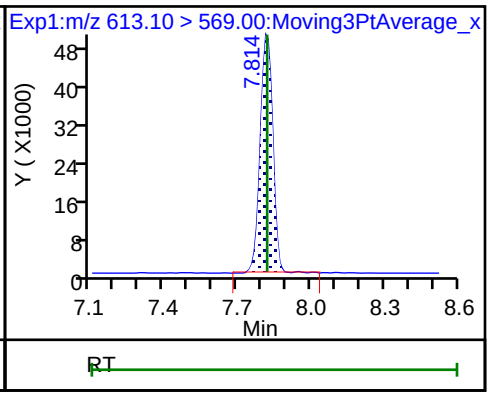
62 PFNS



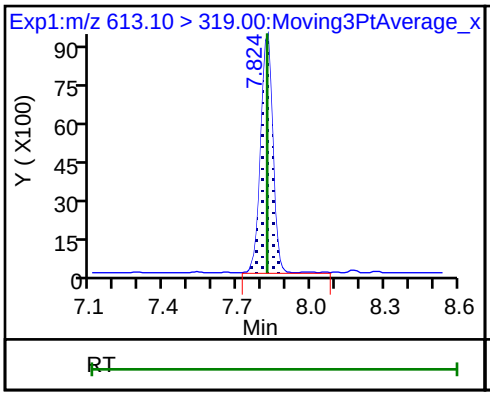
D 81 PFDoA



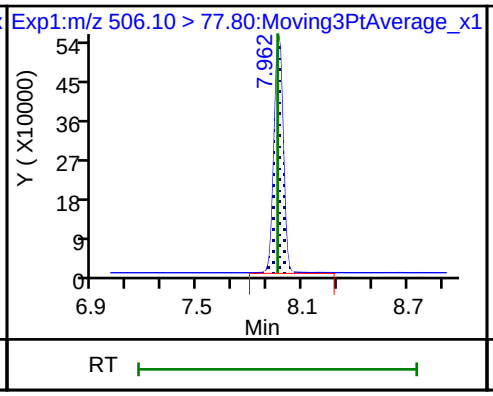
63 PFDoA



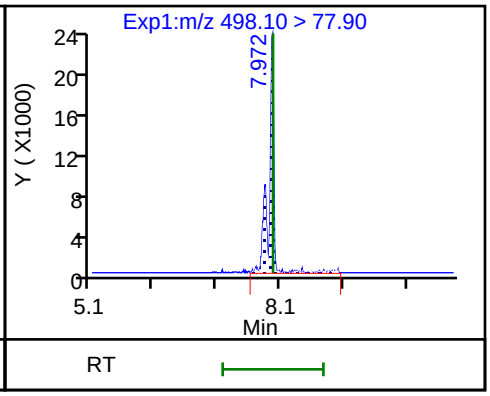
63 PFDoA



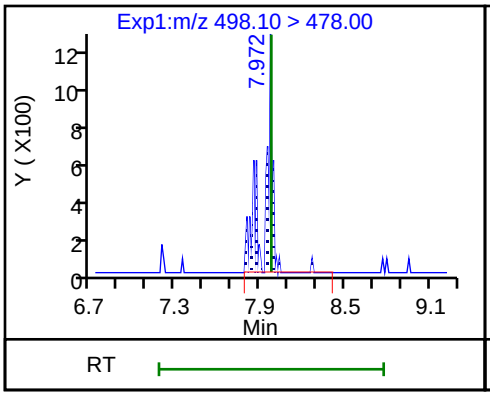
D 65 13C8 FOSA



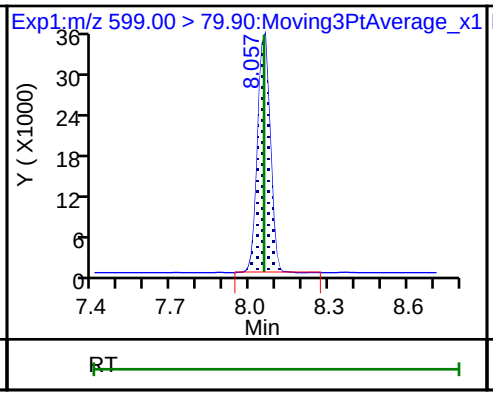
64 PFOSA



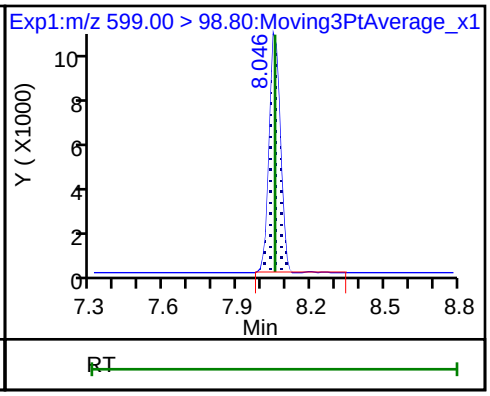
64 PFOSA



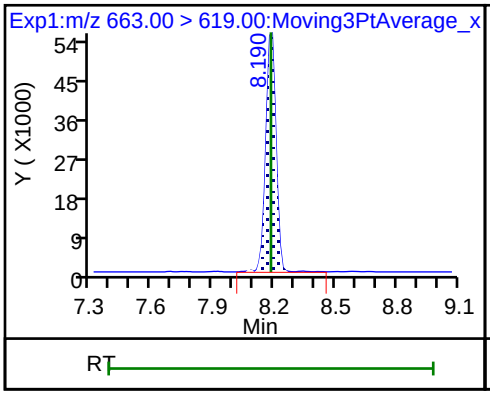
66 PFDS



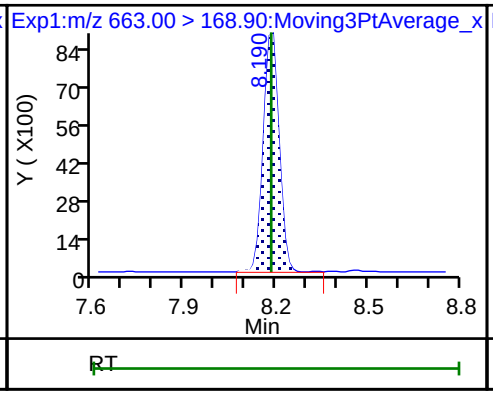
66 PFDS



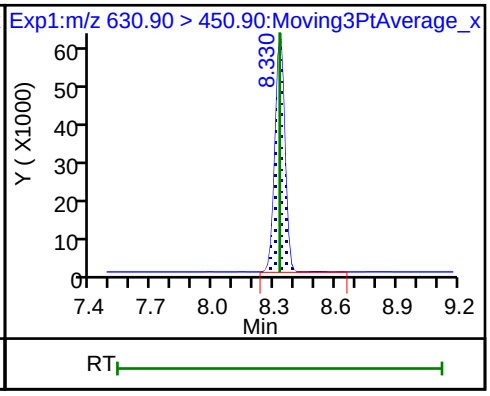
67 PFTrDA



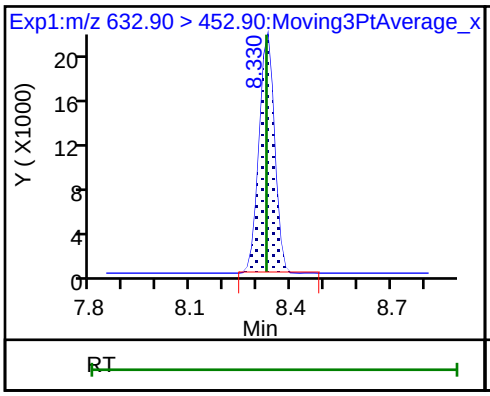
67 PFTrDA



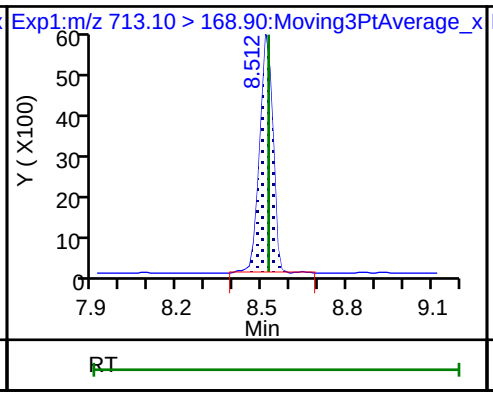
68 11ClFOS



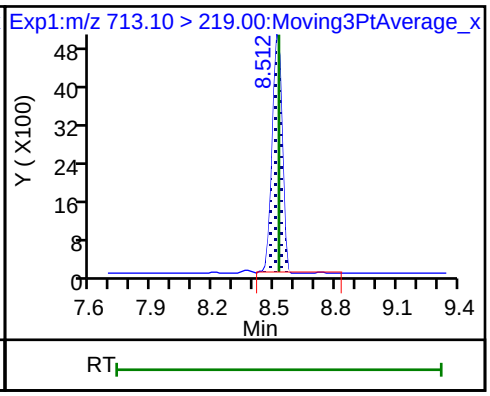
68 11ClFOS



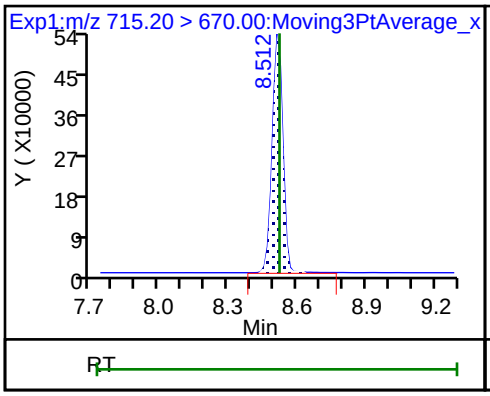
70 PFTeDA



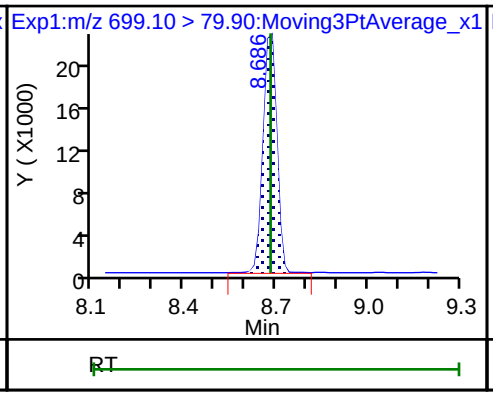
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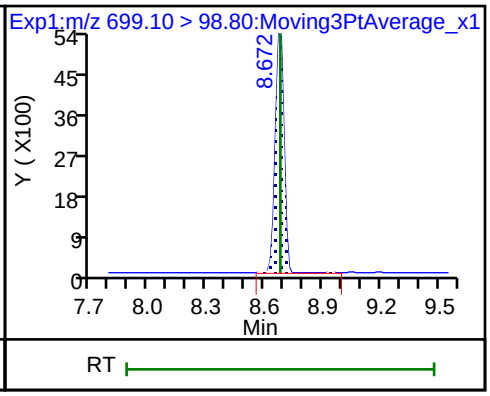
D 69 13C2 PFTeDA



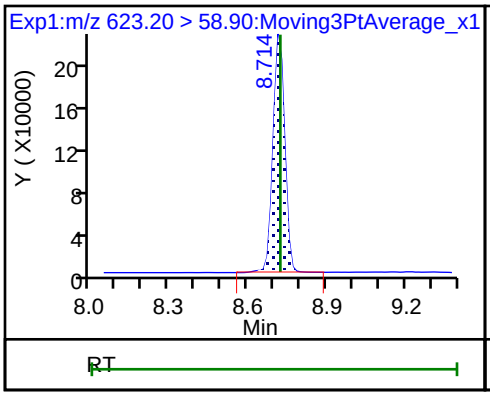
73 PFDoS



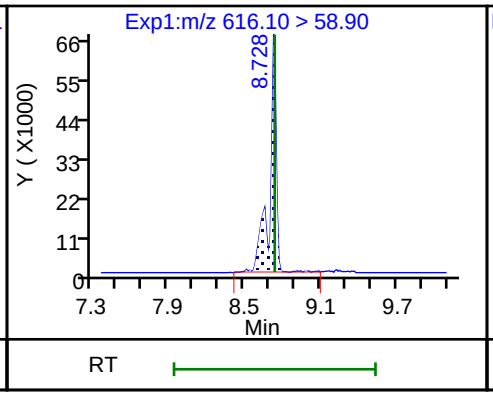
73 PFDoS



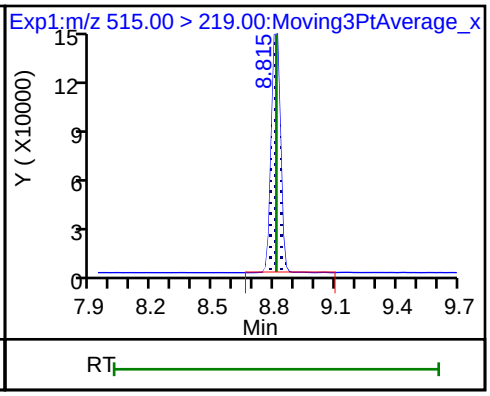
D 71 d7-N-Me-FOSE



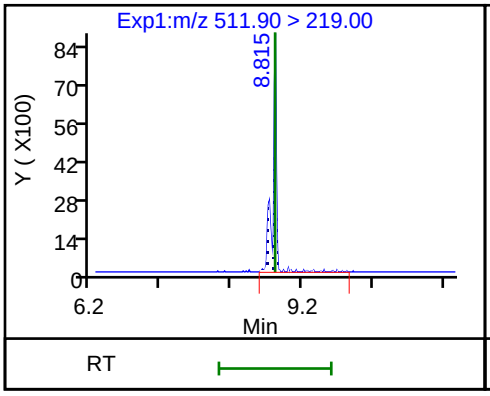
72 N-MeFOSE-M



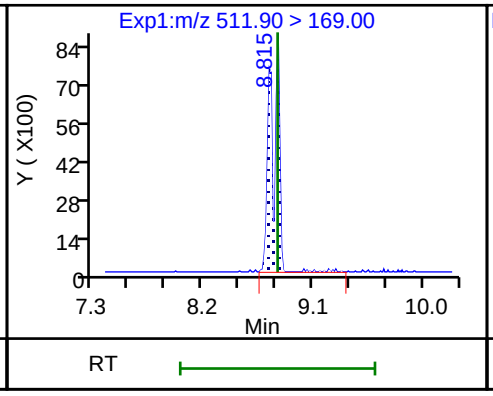
D 74 d3-NMePFOSA



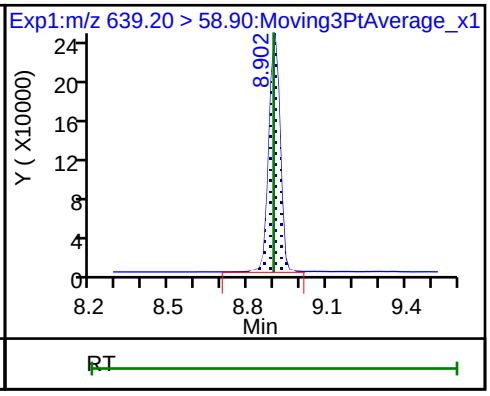
75 NMeFOSA



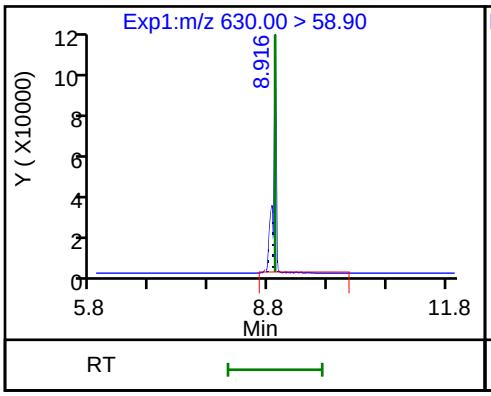
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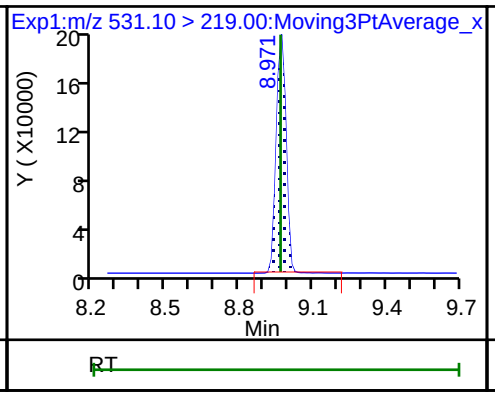
D 76 d9-N-EtFOSE



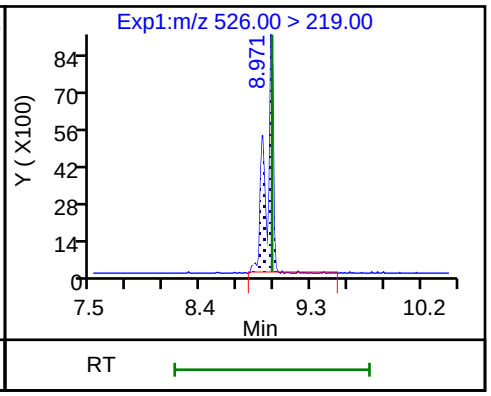
77 N-EtFOSE-M



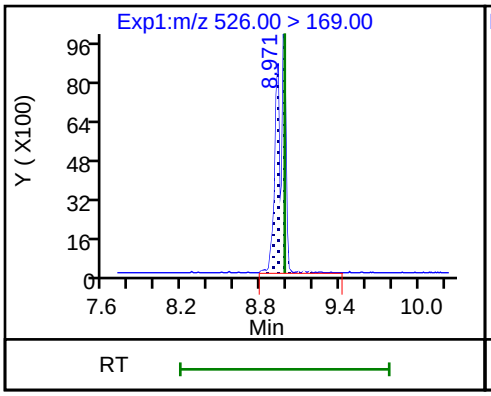
D 78 d5-NEtPFOSA



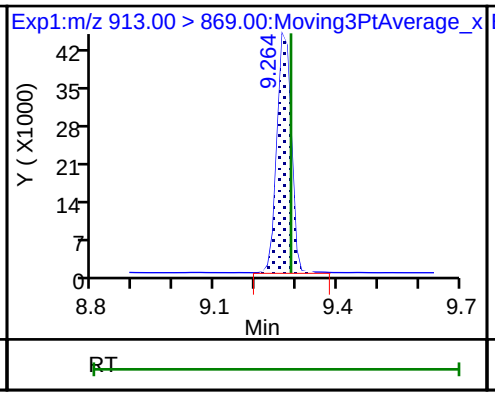
79 N-EtFOSA-M



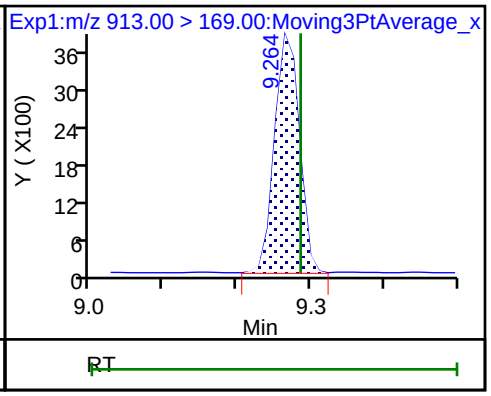
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

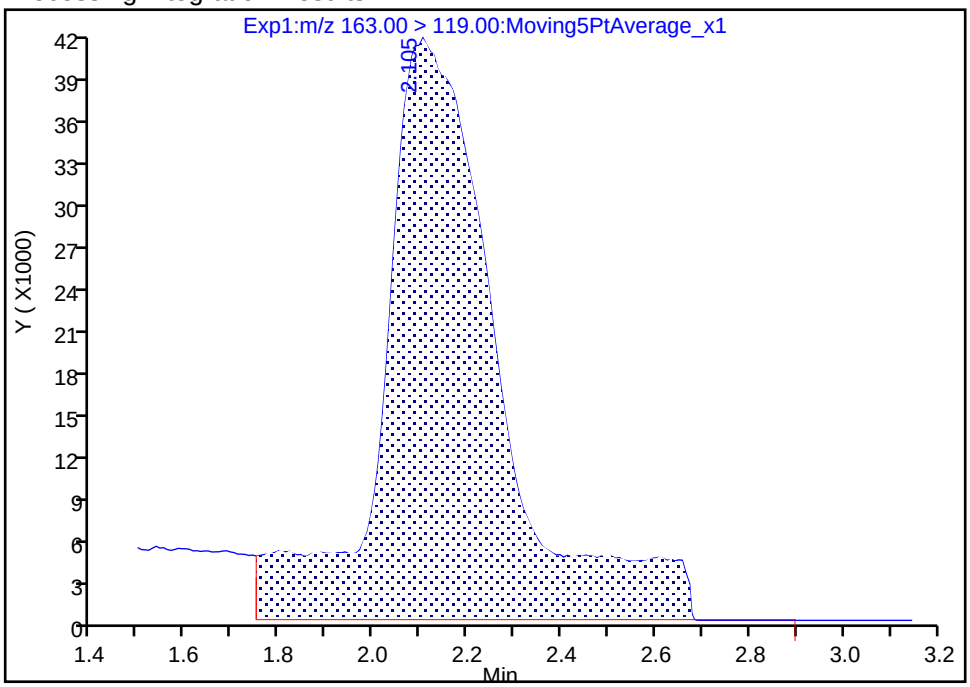
Data File:	\\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-02.d				
Injection Date:	02-Feb-2026 11:57:16	Instrument ID:	30575		
Lims ID:	IC CAL 2				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	3	Worklist Smp#:	2
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

1 Perfluoropropionic acid, CAS: 422-64-0

Signal: 1

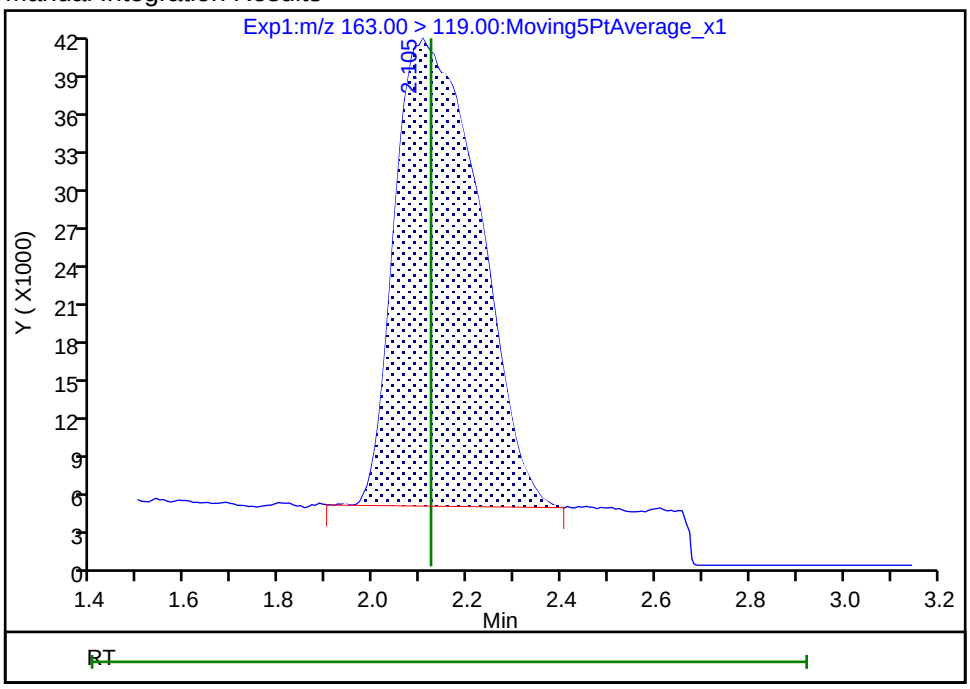
Processing Integration Results

RT: 2.10
Area: 719449
Amount: 0.879521
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 463624
Amount: 0.615690
Amount Units: ng/ml



Reviewer: P7EB, 02-Feb-2026 15:04:51 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-03.d
Lims ID: IC CAL 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 02-Feb-2026 12:10:51 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 3
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:56:40 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: P7EB Date: 02-Feb-2026 15:05:50
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C3PFPrA										
166.00 > 121.00	2.105	2.106	-0.001	0.484	1645190	1.97		98.7	998	
1 Perfluoropropionic acid										
163.00 > 119.00	2.121	2.122	-0.001	1.007	1857428	2.43		97.3	1254	
5 PFBA										
212.80 > 168.90	4.340	4.338	0.002	0.998	1256127	0.9690		96.9	2586	
D 6 13C4-PFBA										
216.80 > 171.90	4.349	4.346	0.003	1.000	2761611	1.99		99.4	5477	
* 7 13C3PFBA										
216.00 > 172.00	4.349	4.346	0.003		2298837	2.00			4536	
9 PFMPA										
229.00 > 84.90	4.639	4.637	0.002	0.933	523925	0.4868		97.4	2031	
10 3:3 FTCA										
241.00 > 177.00	4.649	4.647	0.002	0.935	52627	1.01	Target=1.27	101	836	
241.00 > 117.00	4.649	4.647	0.002	0.935	40014		1.32(0.63-1.90)	101	514	
D 11 13C5 PFPeA										
268.30 > 223.00	4.970	4.968	0.002	0.914	2012670	1.97		98.5	8855	
12 PFPA										
263.00 > 219.00	4.970	4.968	0.002	1.000	544652	0.4750		95.0	921	
13 PFMBA										
279.00 > 85.10	5.128	5.125	0.003	1.032	655802	0.5055		101	2356	
15 4:2FTS										
327.10 > 307.00	5.243	5.253	-0.010	1.000	384908	0.8821	Target=1.60	94.0	2582	
327.10 > 80.90	5.243	5.253	-0.010	1.000	251123		1.53(0.80-2.40)	94.0	387	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.243	5.253	-0.010	0.812	1179941	5.11		109	5405	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.395	5.391	0.004	0.992	268234	0.4691	Target=1.47	93.8	1351	
295.00 > 84.90	5.395	5.391	0.004	0.992	177137		1.51(0.74-2.21)	93.8	1062	
D 17 13C5 PFHxA										
318.00 > 273.00	5.437	5.432	0.005	1.000	2911762	2.02		101	15597	
* 18 13C2 PFHxA										
315.10 > 270.00	5.437	5.432	0.005		6232685	5.00			13999	
19 PFHxA										
313.00 > 269.00	5.437	5.432	0.005	1.000	650394	0.4652	Target=11.71	93.0	1272	
313.00 > 118.90	5.437	5.432	0.005	1.000	52666		12.35(5.85-17.56)	93.0	329	
22 5:3 FTCA										
341.00 > 237.10	5.506	5.514	-0.008	1.013	416827	2.34	Target=0.90	93.5	1505	
341.00 > 217.00	5.506	5.514	-0.008	1.013	485465		0.86(0.45-1.35)	93.5	2207	
21 PFBS										
298.70 > 79.90	5.574	5.569	0.005	1.000	452566	0.4001	Target=2.89	90.1	2754	
298.70 > 98.80	5.574	5.569	0.005	1.000	162872		2.78(1.44-4.33)	90.1	1114	
D 20 13C3 PFBS										
302.10 > 79.90	5.574	5.569	0.005	0.864	2328180	2.00		108	12043	
28 FBSA										
297.90 > 78.00	5.588	5.583	0.005	1.003	446080	0.4487		89.7	2392	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.617	5.626	-0.009	1.033	1954578	1.98		99.1	5094	
24 HFPO-DA										
284.90 > 168.90	5.617	5.626	-0.009	1.000	334412	0.3569	Target=2.42	95.2	1308	
284.90 > 184.90	5.617	5.626	-0.009	1.000	142923		2.34(1.21-3.62)	95.2	946	
25 PFEESA										
314.80 > 134.90	5.811	5.807	0.005	1.069	1302173	0.4270	Target=13.09	95.7	7225	
314.80 > 82.90	5.797	5.807	-0.009	1.066	95361		13.66(6.55-19.64)	95.7	356	
27 PFHpA										a
363.10 > 319.00	5.849	5.857	-0.008	1.000	661972	0.4939	Target=2.35	98.8	1201	a
363.10 > 169.00	5.849	5.857	-0.008	1.000	288796		2.29(1.17-3.52)	98.8	1207	
D 26 13C4 PFHpA										
367.10 > 322.00	5.849	5.857	-0.008	1.076	2734403	1.94		96.8	3390	
29 ADONA										
376.90 > 250.90	5.992	5.999	-0.007	1.067	1502469	0.4702	Target=1.85	99.4	6756	
376.90 > 84.80	5.992	5.999	-0.007	1.067	786749		1.91(0.92-2.77)	99.4	2977	
32 PFPeS										
349.10 > 79.90	6.037	6.033	0.004	0.935	590741	0.4935	Target=3.28	105	3124	
349.10 > 98.90	6.037	6.033	0.004	0.935	169411		3.49(1.64-4.92)	105	841	
31 6:2FTS										
427.10 > 407.00	6.037	6.044	-0.007	1.000	266748	0.8727	Target=1.80	91.7	1196	
427.10 > 80.90	6.037	6.044	-0.007	1.000	156489		1.70(0.90-2.70)	91.7	423	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.037	6.044	-0.007	0.935	698551	5.10		107	3722	
33 BTS										
280.00 > 147.00	6.193	6.199	-0.006	0.960	965777	0.4923		101	3712	
D 35 13C8 PFOA										
421.10 > 376.00	6.238	6.245	-0.007	1.000	3482298	2.01		100	9242	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.238	6.245	-0.007		8680799	5.00			11433	
36 PFOA										
413.00 > 369.00	6.238	6.245	-0.007	1.000	610603	0.4624	Target=2.11	92.5	32787	
413.00 > 169.00	6.238	6.245	-0.007	1.000	307181		1.99(1.06-3.17)	92.5	36716	
39 7:3 FTCA										
441.00 > 316.90	6.301	6.308	-0.007	1.159	388022	2.39	Target=0.82	95.7	970	
441.00 > 336.90	6.301	6.308	-0.007	1.159	458949		0.85(0.41-1.23)	95.7	2011	
40 PFHxS										
398.70 > 79.90	6.454	6.472	-0.018	1.000	504315	0.4323	Target=3.44	94.8	148194	
398.70 > 98.90	6.466	6.472	-0.006	1.002	151127		3.34(1.72-5.16)	94.8	45583	
* 38 18O2 PFHxS										
403.00 > 83.90	6.454	6.472	-0.018		1729923	1.90			4385	
D 37 13C3 PFHxS										
402.10 > 79.90	6.454	6.472	-0.018	1.000	1727016	1.89		99.7	6721	
43 PFNA										
463.00 > 419.00	6.625	6.632	-0.007	1.000	630745	0.4774	Target=2.84	95.5	87130	
463.00 > 219.00	6.638	6.632	0.006	1.002	225674		2.79(1.42-4.26)	95.5	247	
D 42 13C9 PFNA										
472.10 > 427.00	6.625	6.632	-0.007	1.000	3013766	2.00		100.0	6945	
* 41 13C5 PFNA										
468.00 > 423.00	6.625	6.632	-0.007		3000833	2.00			7049	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.795	6.801	-0.006	1.053	645293	4.84		101	1963	
45 8:2FTS										
527.10 > 507.00	6.795	6.812	-0.017	1.000	202494	0.9174	Target=1.52	95.6	410	
527.10 > 80.80	6.795	6.812	-0.017	1.000	131669		1.54(0.76-2.28)	95.6	822	
46 PFECHS										
461.00 > 381.00	6.828	6.846	-0.018	1.058	138158	0.4560	Target=0.31	98.7	563	
461.00 > 99.00	6.828	6.846	-0.018	1.058	446155		0.31(0.16-0.47)	98.7	1102	
47 PFHpS										
449.00 > 79.90	6.862	6.880	-0.018	0.944	437920	0.4303	Target=3.44	90.2	2769	
449.00 > 98.80	6.862	6.880	-0.018	0.944	135888		3.22(1.72-5.16)	90.2	43752	
53 FHxSA										
397.90 > 78.00	6.873	6.891	-0.018	1.065	583911	0.4679		93.6	1310	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.945	6.965	-0.020	0.955	1625634	4.99		99.8	3422	
49 NMeFOSAA										
570.10 > 419.00	6.945	6.965	-0.020	1.000	180451	0.4966	Target=1.84	99.3	410	
570.10 > 483.00	6.945	6.965	-0.020	1.000	92366		1.95(0.92-2.76)	99.3	164	
D 50 13C6 PFDA										
519.10 > 474.10	7.020	7.028	-0.008	1.000	3347197	2.15		107	6314	
* 52 13C2 PFDA										
515.10 > 470.10	7.020	7.028	-0.008		3057473	2.00			7278	
51 PFDA										
512.90 > 469.00	7.020	7.028	-0.008	1.000	666884	0.4758	Target=4.61	95.2	2260	
512.90 > 219.00	7.020	7.028	-0.008	1.000	139961		4.76(2.31-6.92)	95.2	496	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.115	7.138	-0.023	0.979	1437705	5.00		99.9	2910	
55 NEtFOSAA										
584.20 > 419.10	7.129	7.138	-0.009	1.002	114391	0.4845	Target=1.44	96.9	140	
584.20 > 526.00	7.129	7.138	-0.009	1.002	76507		1.50(0.72-2.16)	96.9	82.3	
58 PFOS										
498.90 > 79.90	7.271	7.278	-0.007	1.000	527790	0.4341	Target=4.21	93.4	121152	
498.90 > 98.80	7.271	7.278	-0.007	1.000	127867		4.13(2.11-6.32)	93.4	374	
D 56 13C8 PFOS										
507.10 > 79.90	7.271	7.278	-0.007	1.000	1615489	1.99		104	1777	
* 57 13C4 PFOS										
502.80 > 79.90	7.271	7.278	-0.007		1677359	1.92			10408	
D 59 13C7 PFUnA										
570.00 > 525.10	7.413	7.419	-0.006	1.056	3740043	1.99		99.7	3323	
60 PFUnA										
563.10 > 519.00	7.413	7.429	-0.016	1.000	699625	0.5059	Target=5.05	101	1931	
563.10 > 269.10	7.413	7.429	-0.016	1.000	135483		5.16(2.52-7.57)	101	1154	
61 9ClFOS										
530.80 > 351.00	7.578	7.593	-0.015	1.042	1070173	0.4453	Target=3.14	95.3	5030	
532.80 > 353.00	7.578	7.593	-0.015	1.042	340538		3.14(1.57-4.71)	95.3	2689	
62 PFNS										
548.80 > 79.90	7.670	7.675	-0.005	1.055	450096	0.4640	Target=3.68	96.5	4393	
548.80 > 98.80	7.670	7.675	-0.005	1.055	129212		3.48(1.84-5.52)	96.5	40455	
D 81 PFDoA										
615.10 > 570.00	7.805	7.820	-0.015	1.112	3333331	2.01		100	27426	
63 PFDoA										
613.10 > 569.00	7.805	7.820	-0.015		721134	0.4849	Target=5.59	97.0	3659	
613.10 > 319.00	7.805	7.820	-0.015		125678		5.74(2.80-8.39)	97.0	619	
D 65 13C8 FOSA										
506.10 > 77.80	7.950	7.957	-0.007	1.093	1903054	1.90		95.1	6230	
64 PFOSA										
498.10 > 77.90	7.960	7.978	-0.018	1.001	434811	0.4981	Target=41.61	99.6	95478	
498.10 > 478.00	7.960	7.978	-0.018	1.001	9908		43.88(20.81-62.42)	99.6	30.1	
66 PFDS										
599.00 > 79.90	8.044	8.053	-0.009	1.106	448361	0.4545	Target=3.58	94.3	4030	
599.00 > 98.80	8.044	8.053	-0.009	1.106	128319		3.49(1.79-5.38)	94.3	1810	
67 PFTrDA										
663.00 > 619.00	8.175	8.183	-0.008	0.961	765625	0.4837	Target=5.80	96.7	4578	
663.00 > 168.90	8.175	8.183	-0.008	0.961	137049		5.59(2.90-8.70)	96.7	809	
68 11ClFOS										
630.90 > 450.90	8.317	8.326	-0.009	1.144	832259	0.4481	Target=3.03	94.9	7584	
632.90 > 452.90	8.317	8.326	-0.009	1.144	266486		3.12(1.51-4.55)	94.9	4063	
70 PFTeDA										
713.10 > 168.90	8.511	8.522	-0.011	1.000	77634	0.4733	Target=1.08	94.7	721	
713.10 > 219.00	8.511	8.522	-0.011	1.000	72241		1.07(0.54-1.62)	94.7	816	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.511	8.522	-0.011	1.212	1879696	2.05		102	3464	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.671	8.681	-0.010	1.192	261917	0.4481	Target=4.08	92.4	3069	
699.10 > 98.80	8.671	8.681	-0.010	1.192	64748		4.05(2.04-6.11)	92.4	626	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.726	8.723	0.003	1.200	701793	4.79		95.7	548	
72 N-MeFOSE-M										
616.10 > 58.90	8.740	8.737	0.003	1.002	898219	2.38		95.3	556	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.813	8.810	0.003	1.212	445062	1.96		97.8	3321	
75 NMeFOSA										
511.90 > 219.00	8.813	8.810	0.003	1.000	109082	0.4790	Target=0.70	95.8	707	
511.90 > 169.00	8.813	8.810	0.003	1.000	153431		0.71(0.35-1.06)	95.8	649	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.901	8.897	0.003	1.224	743622	4.99		99.7	1409	
77 N-EtFOSE-M										
630.00 > 58.90	8.914	8.912	0.002	1.002	1390902	2.37		94.7	1677	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.970	8.967	0.003	1.234	549760	1.98		99.0	2342	
79 N-EtFOSA-M										
526.00 > 219.00	8.984	8.981	0.003	1.002	122388	0.4726	Target=0.80	94.5	1280	
526.00 > 169.00	8.984	8.981	0.003	1.002	153581		0.80(0.40-1.20)	94.5	1145	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.264	9.286	-0.022	1.089	406792	0.4561	Target=11.76	91.2	15755	
913.00 > 169.00	9.264	9.286	-0.022	1.089	34809		11.69(5.88-17.64)	91.2	2892	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

1633_125_CAL3_00034 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 17:56:44 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-03.d

Injection Date: 02-Feb-2026 12:10:51 Instrument ID: 30575

Lims ID: IC CAL 3

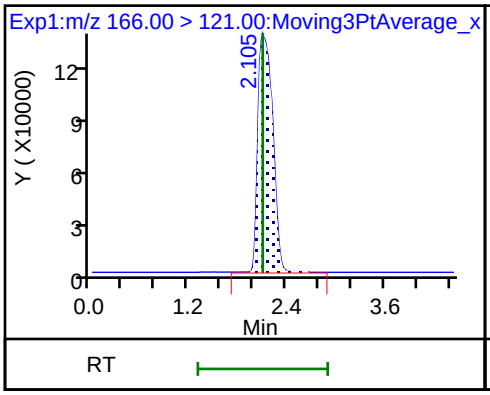
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Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 4 Worklist Smp#: 3

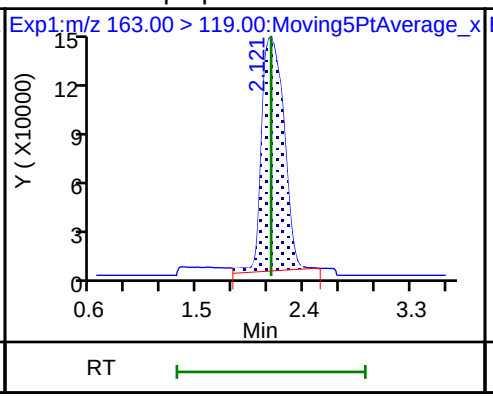
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Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

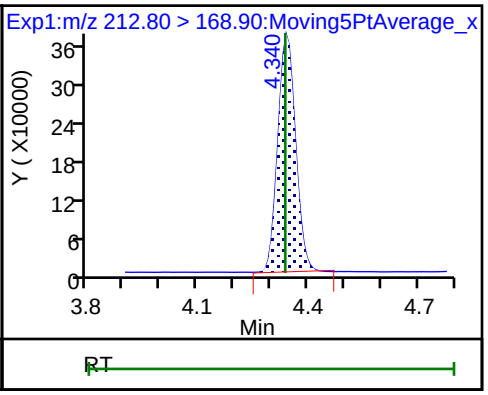
D 2 13C3PFPrA



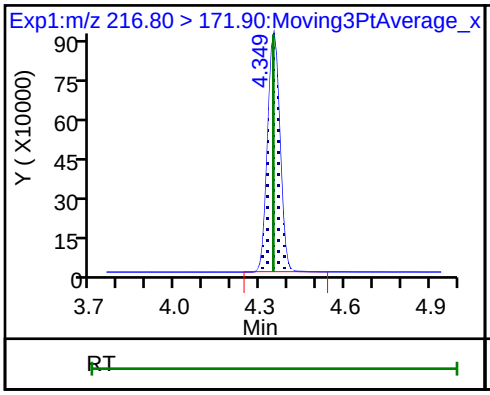
1 Perfluoropropionic acid



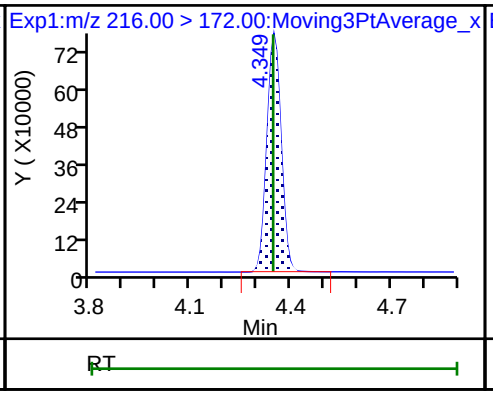
5 PFBA



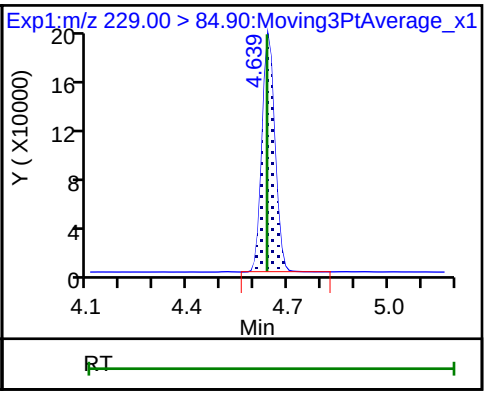
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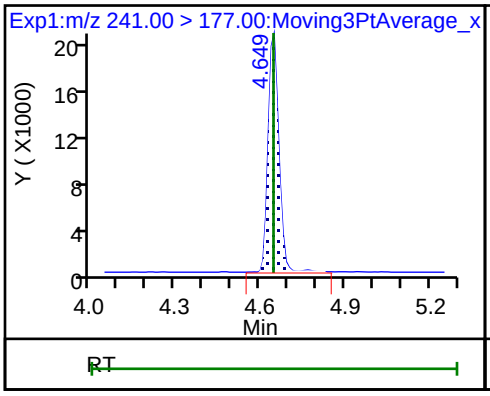
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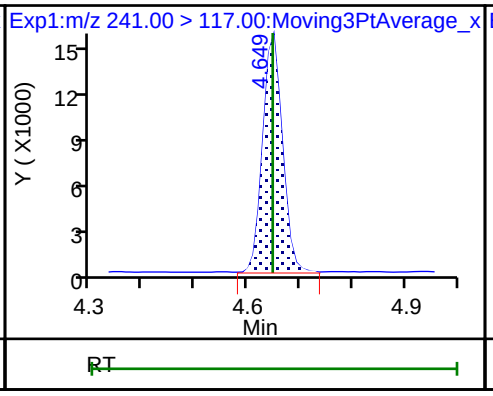
9 PFMPA



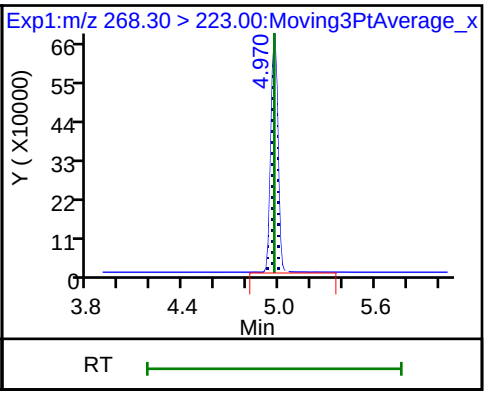
10 3:3 FTCA



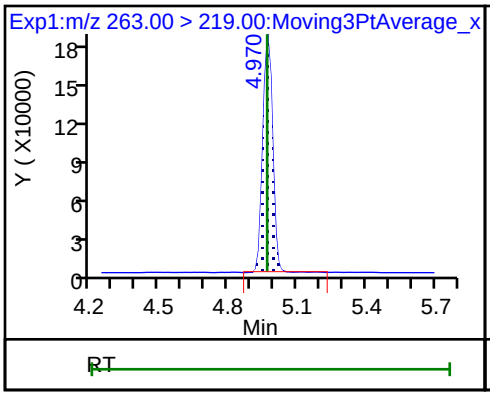
10 3:3 FTCA



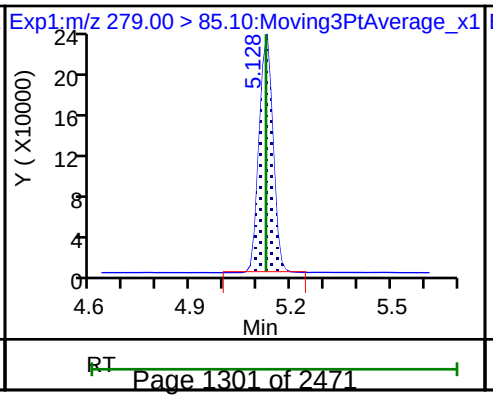
D 11 13C5 PFPeA



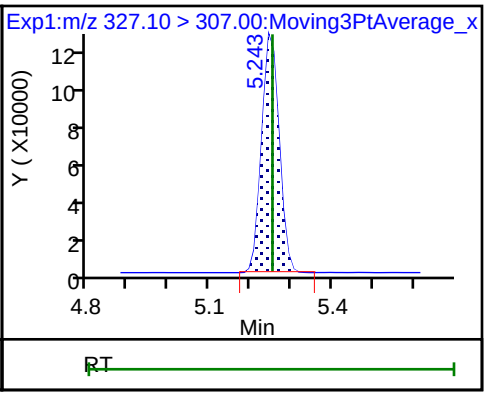
12 PFPA



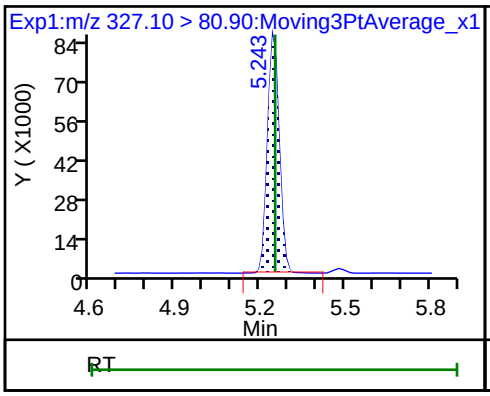
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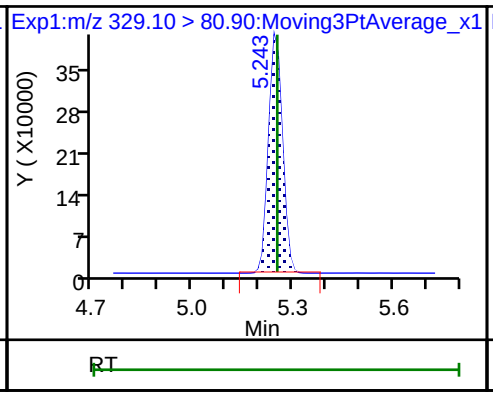
15 4:2FTS



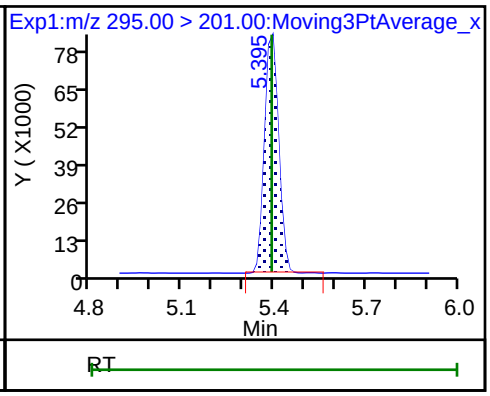
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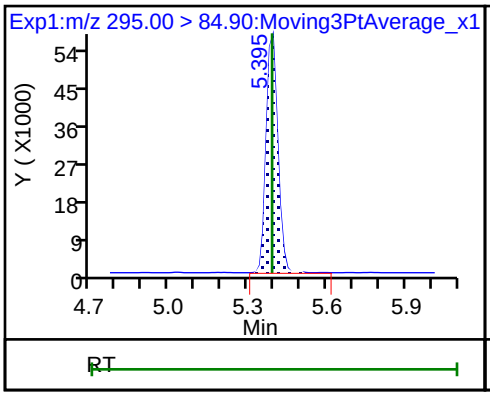
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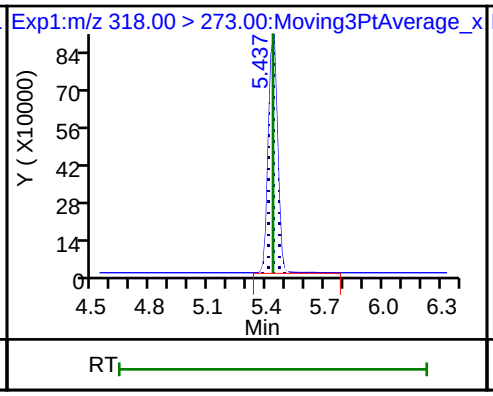
16 NFDHA



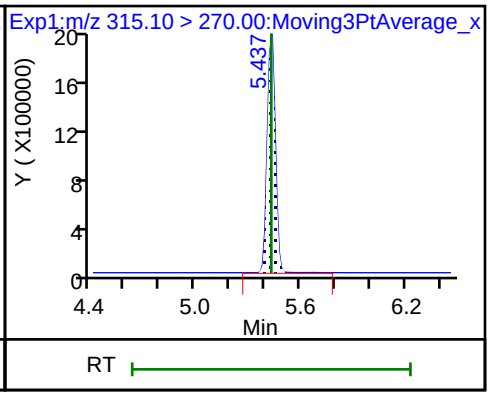
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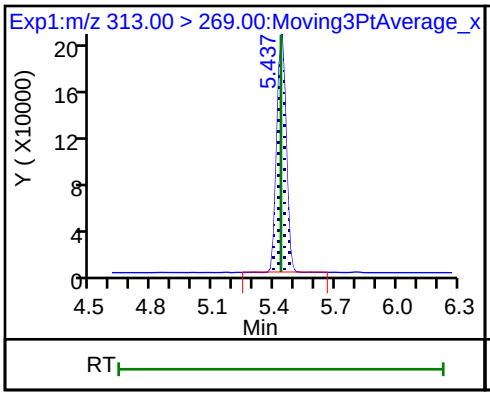
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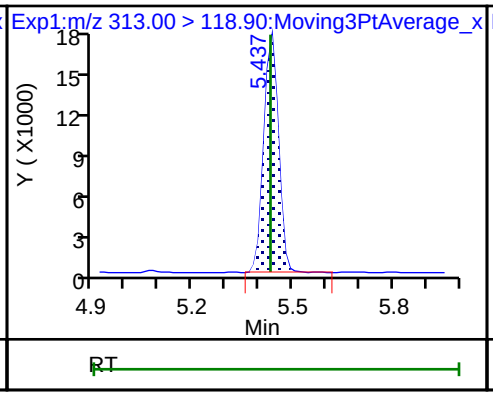
* 18 13C2 PFHxA



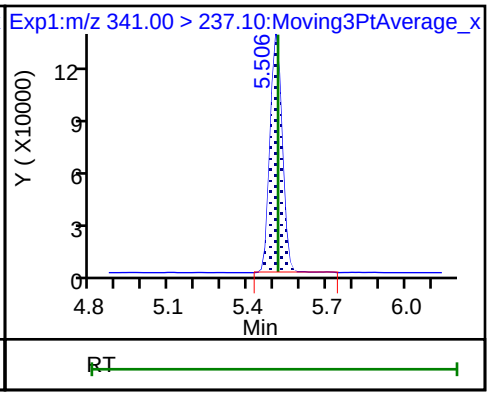
19 PFHxA



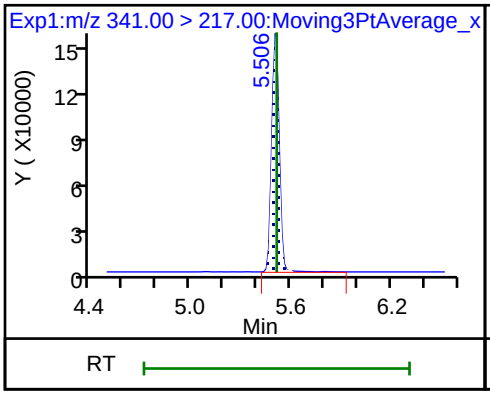
19 PFHxA



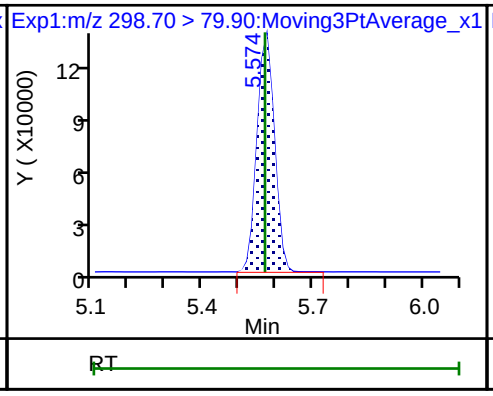
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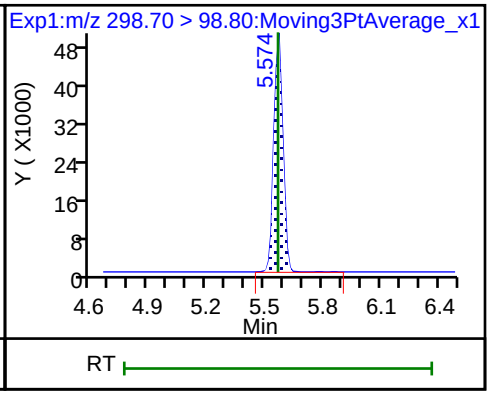
22 5:3 FTCA



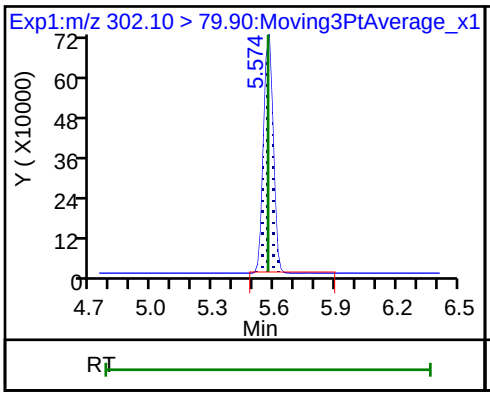
21 PFBS



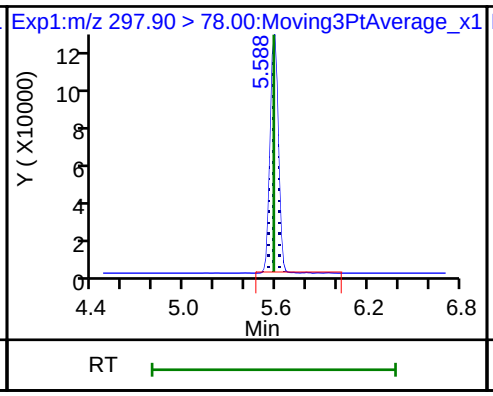
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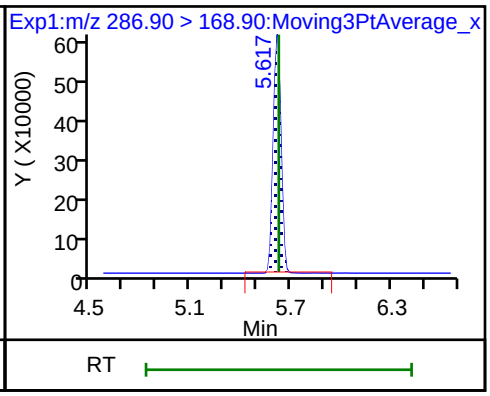
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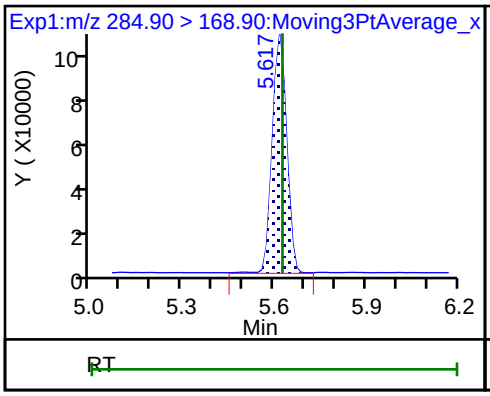
28 FBSA



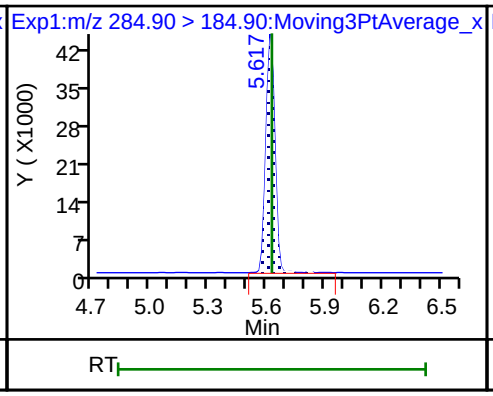
D 23 13C3 HFPO-DA



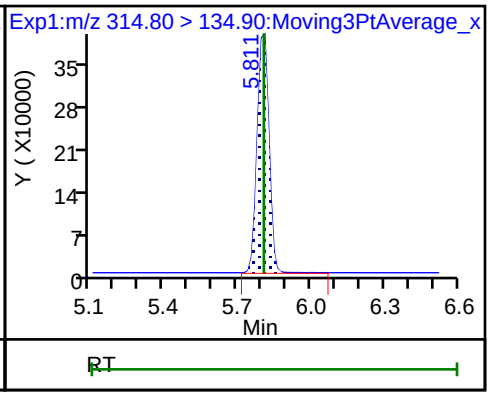
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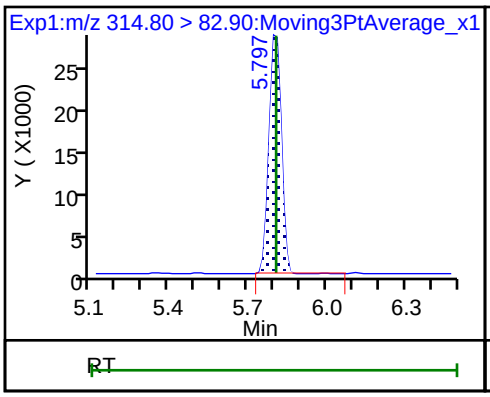
24 HFPO-DA



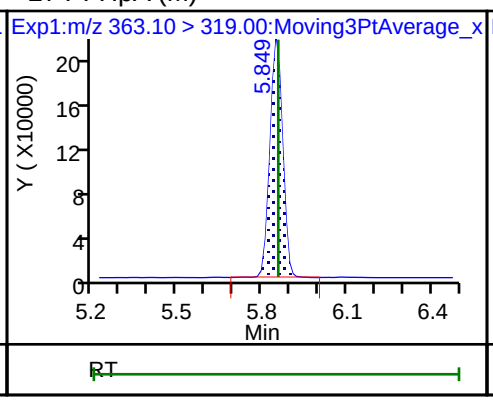
25 PFEESA



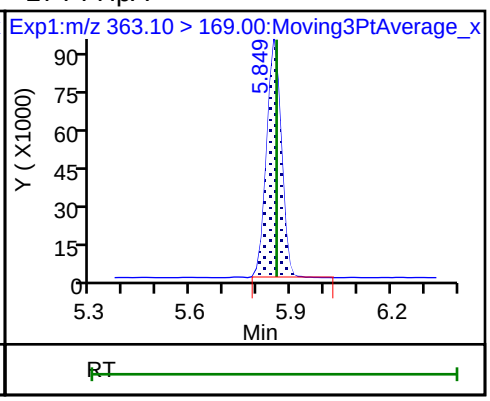
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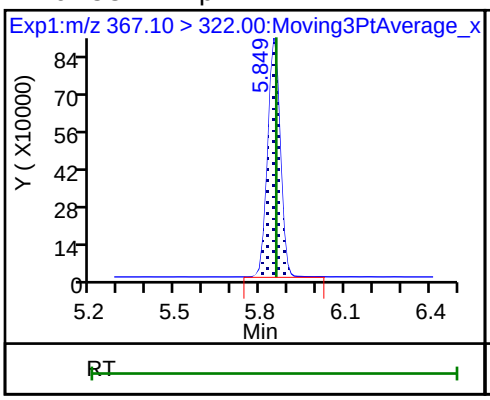
27 PFHpA (M)



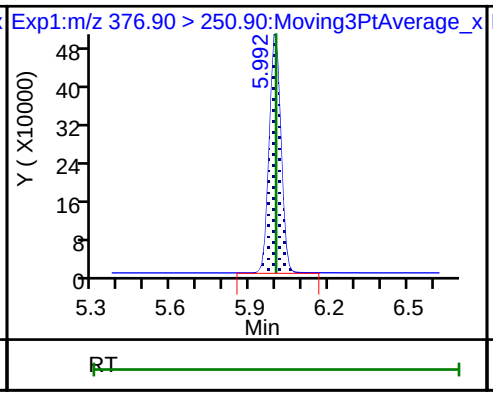
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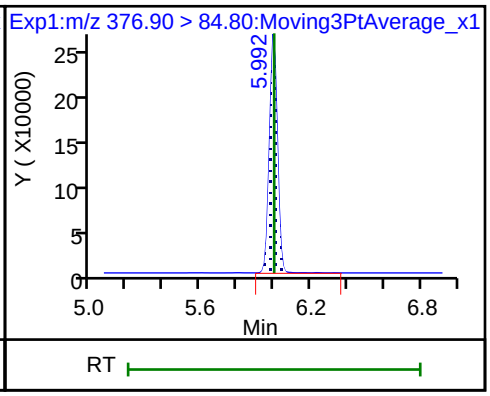
D 26 13C4 PFHpA



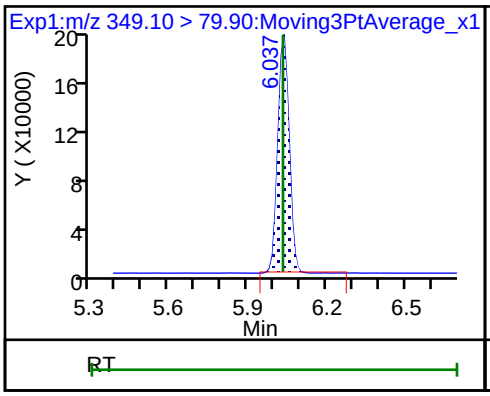
29 ADONA



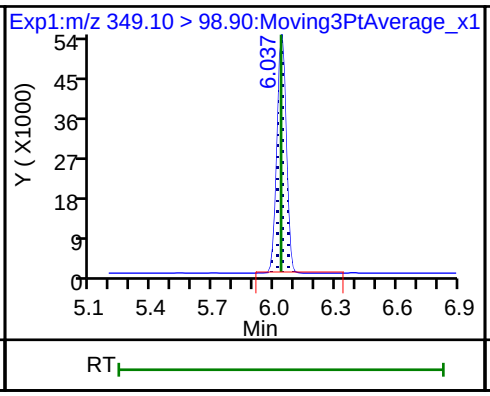
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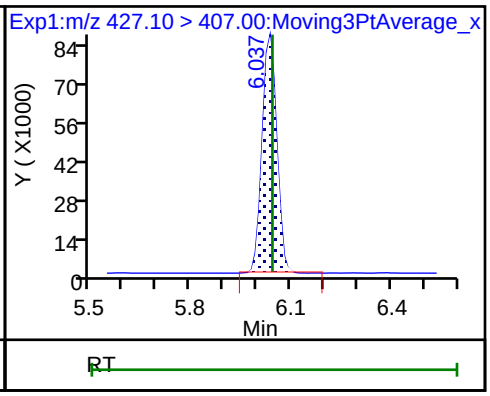
32 PFPeS



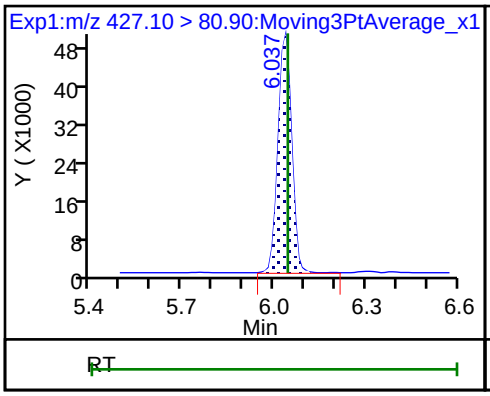
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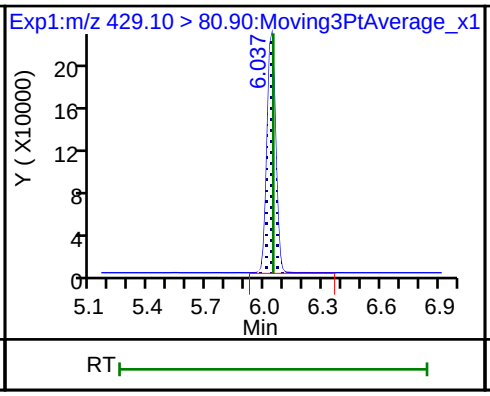
31 6:2FTS



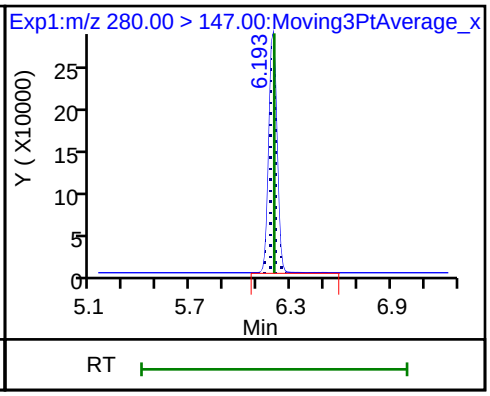
31 6:2FTS



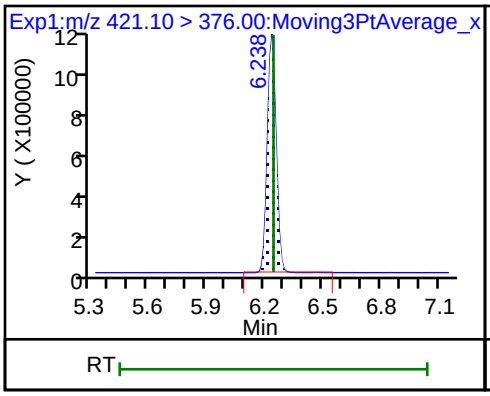
D 30 13C2-6:2FTS



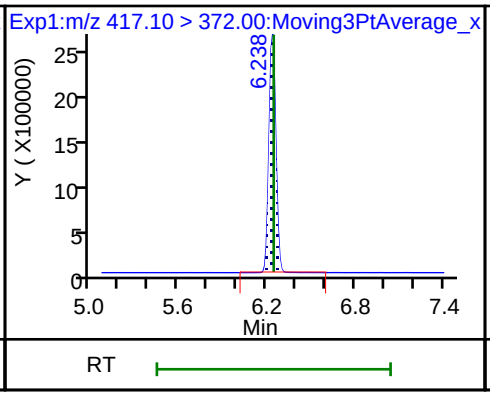
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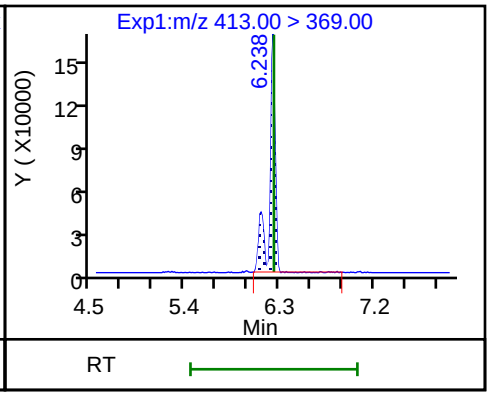
D 35 13C8 PFOA



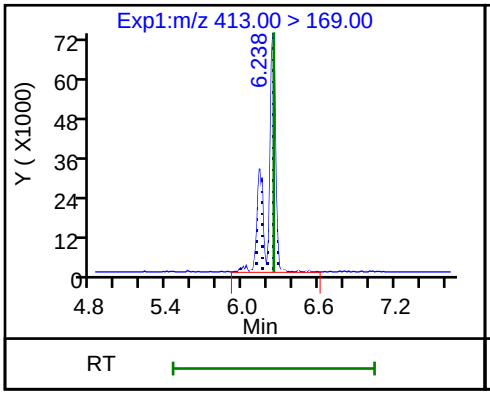
* 34 13C4 PFOA



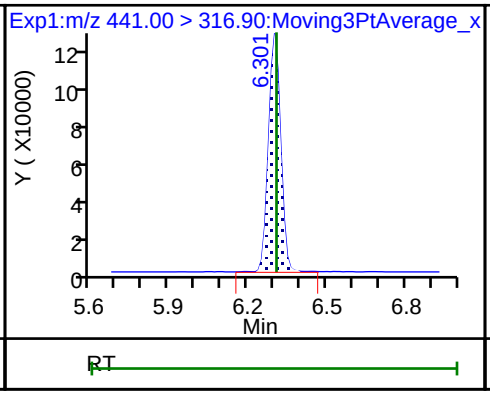
36 PFOA



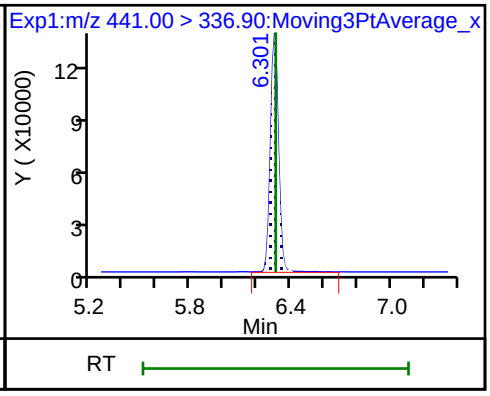
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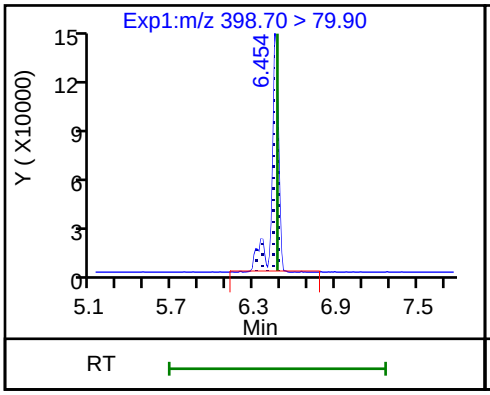
39 7:3 FTCA



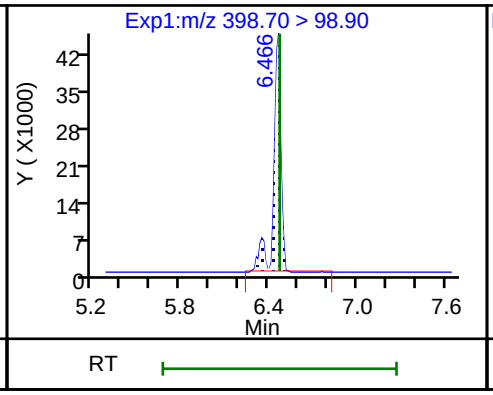
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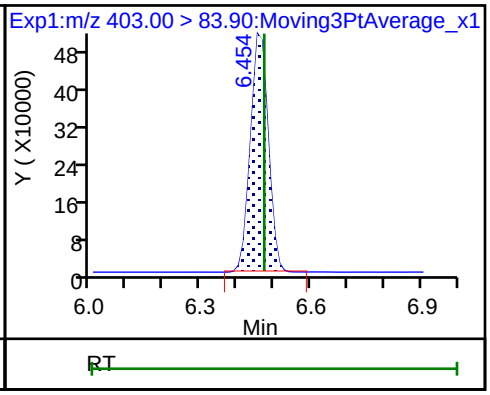
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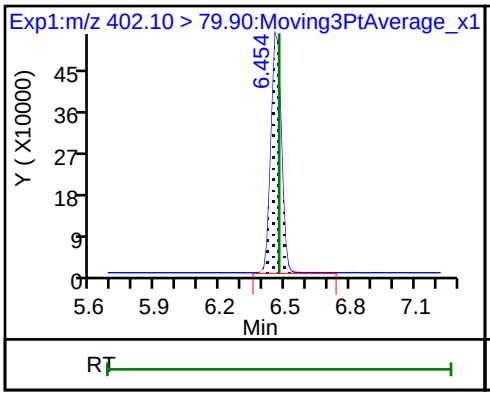
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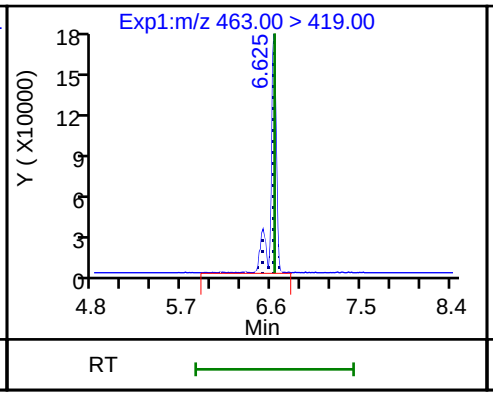
* 38 18O2 PFHxS



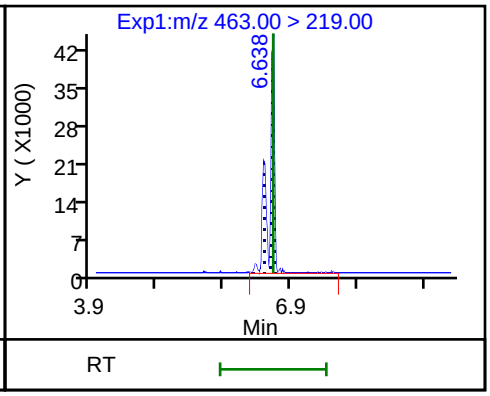
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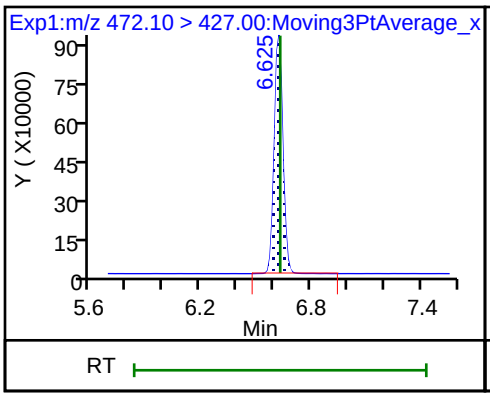
43 PFNA



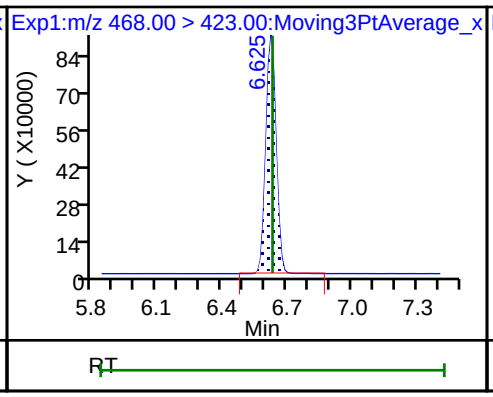
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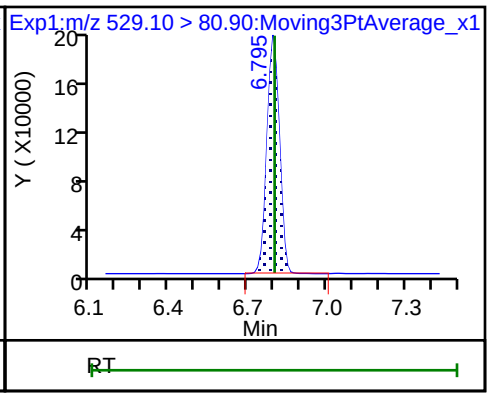
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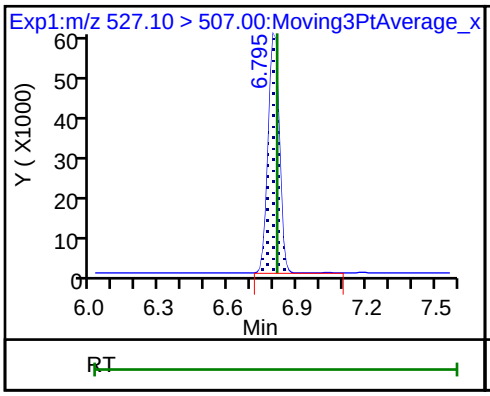
* 41 13C5 PFNA



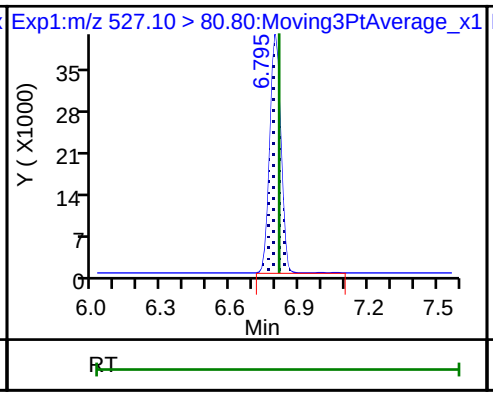
D 44 13C2-8:2FTS



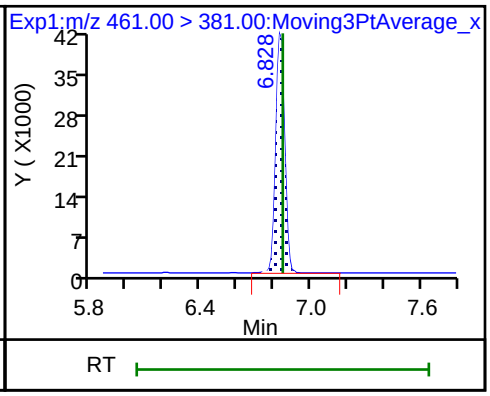
45 8:2FTS



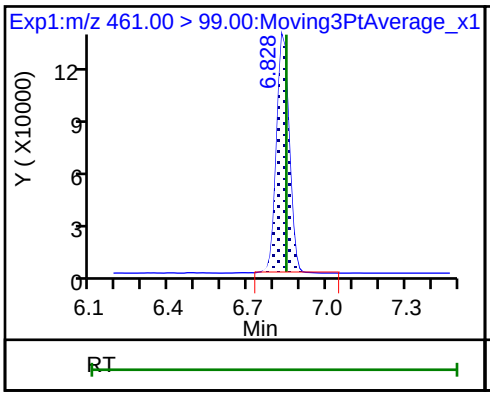
45 8:2FTS



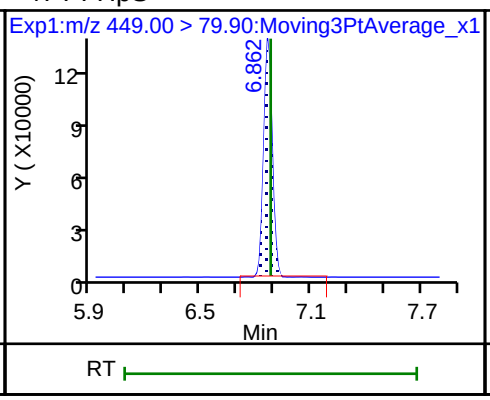
46 PFECHS



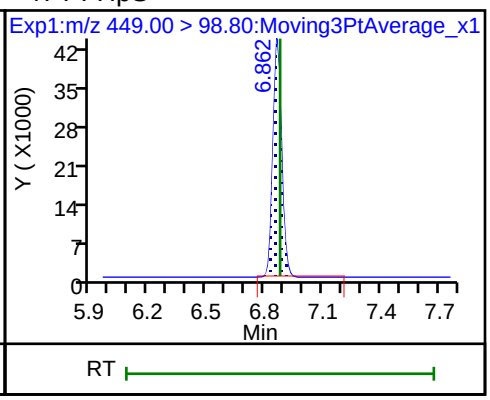
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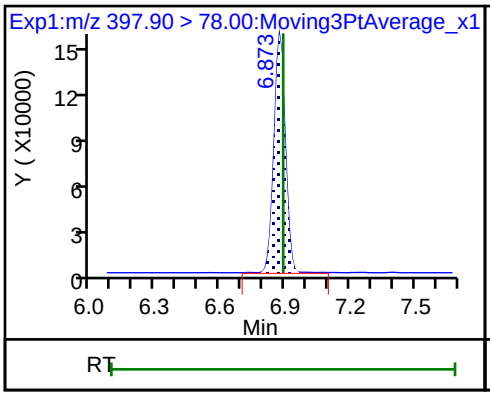
47 PFHpS



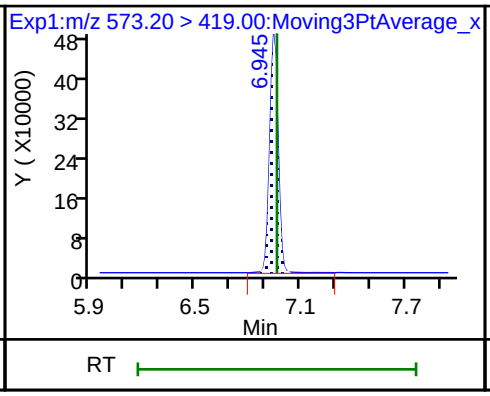
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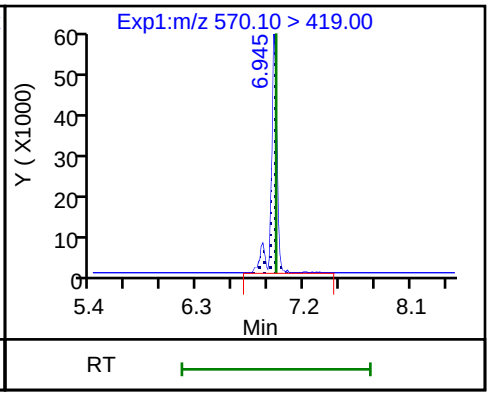
53 FHxSA



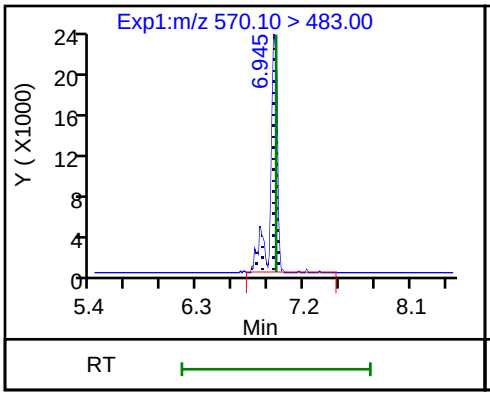
D 48 d3-NMeFOSAA



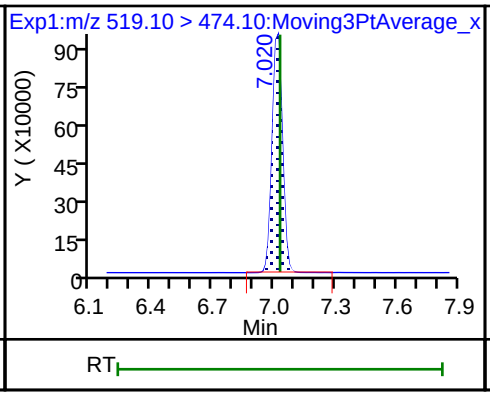
49 NMeFOSAA



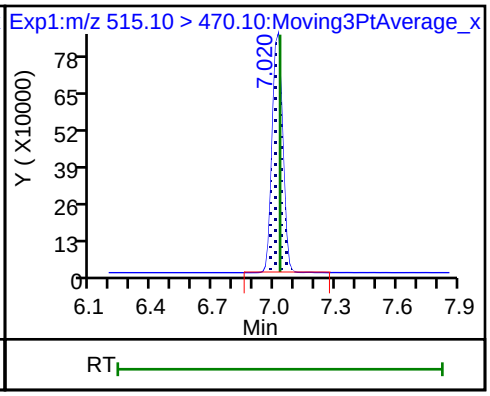
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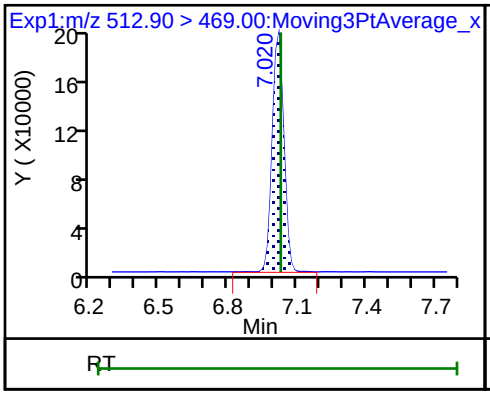
D 50 13C6 PFDA



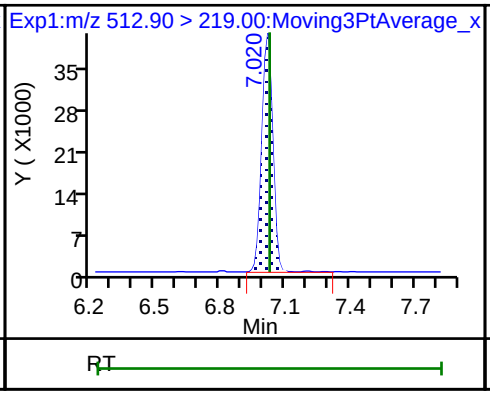
* 52 13C2 PFDA



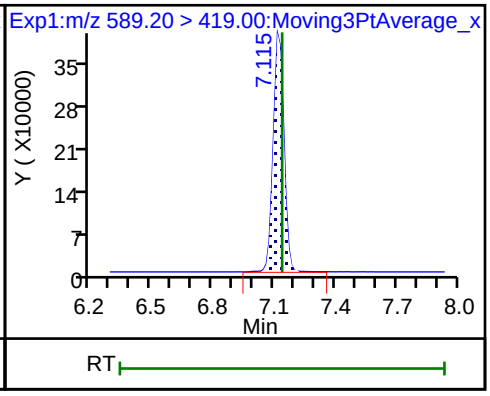
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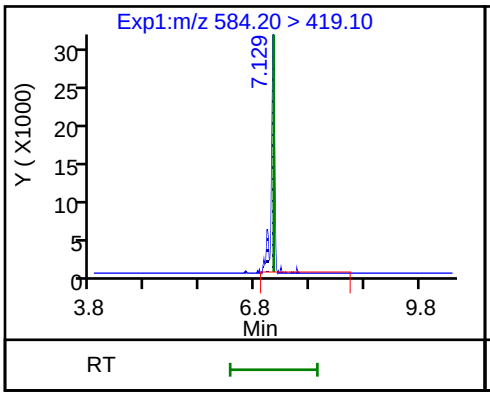
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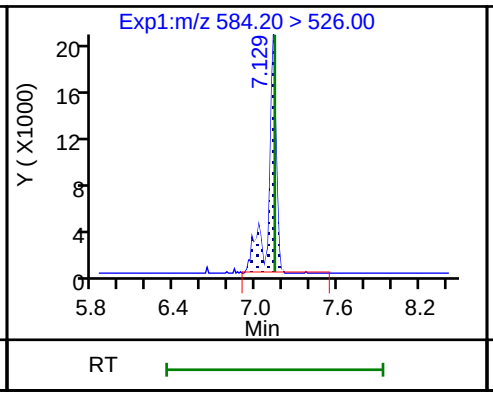
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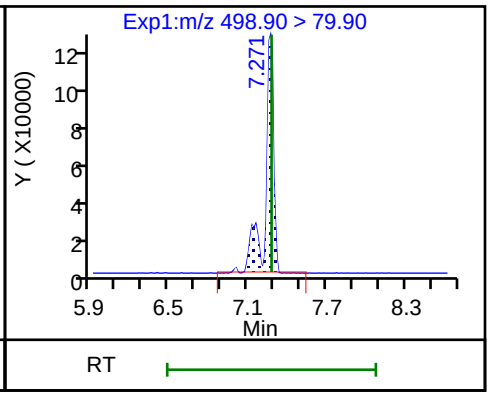
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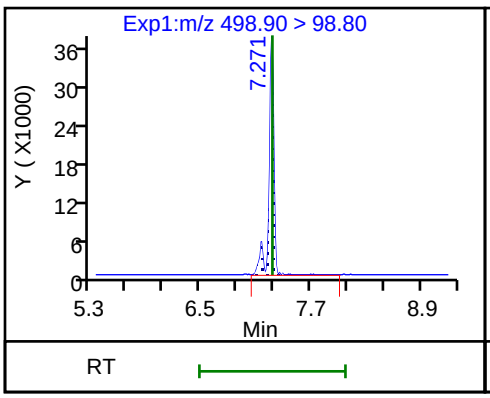
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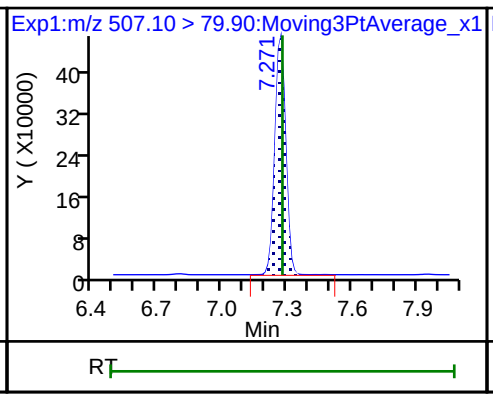
58 PFOS



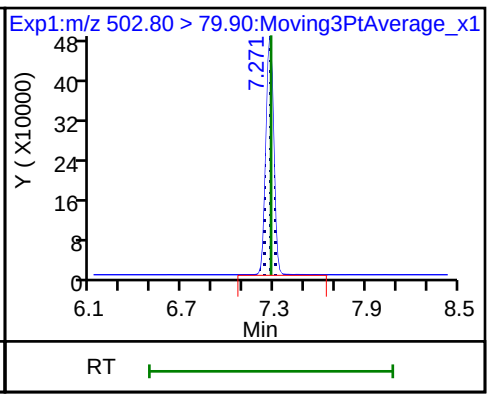
58 PFOS



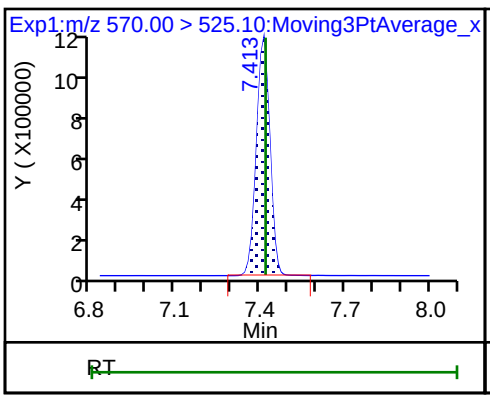
D 56 13C8 PFOS



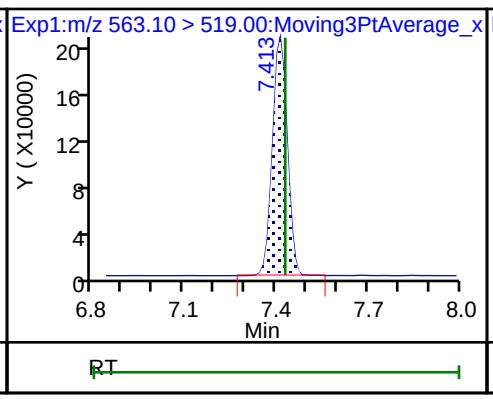
* 57 13C4 PFOS



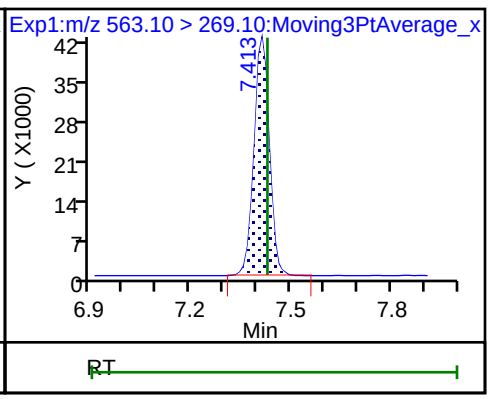
D 59 13C7 PFUnA



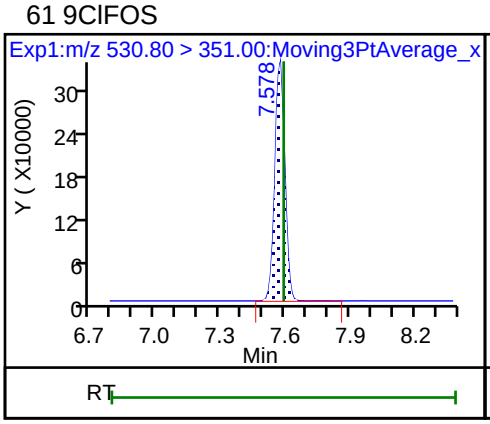
60 PFUnA



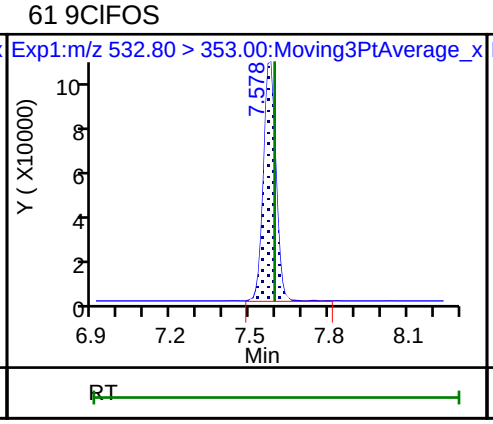
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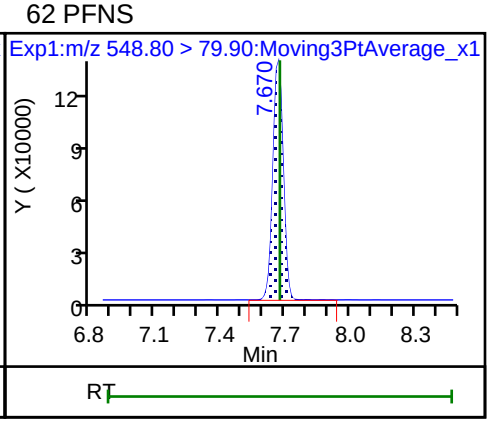
61 9ClFOS



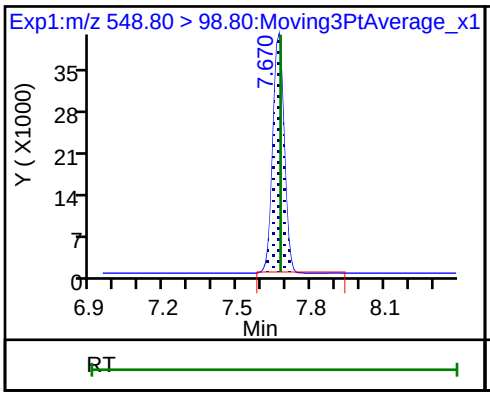
61 9ClFOS



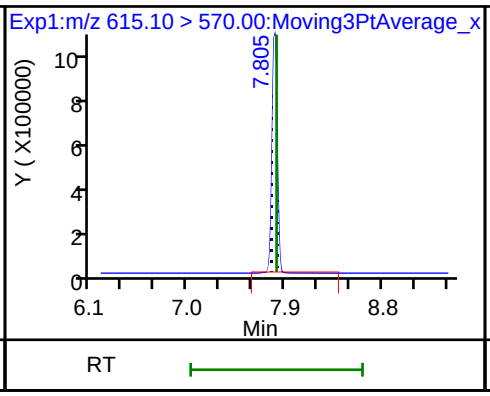
62 PFNS



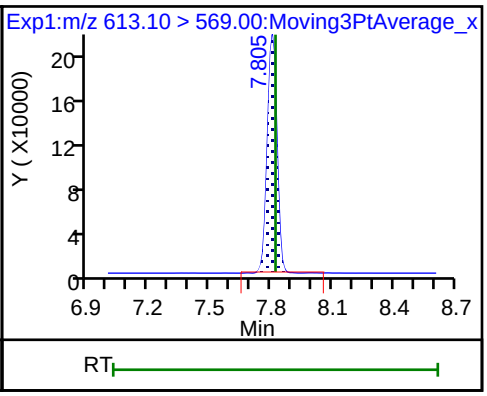
62 PFNS



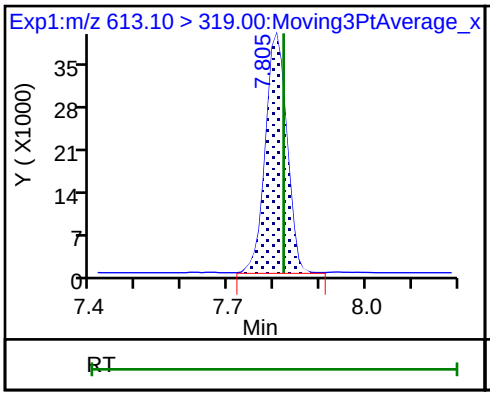
D 81 PFDoA



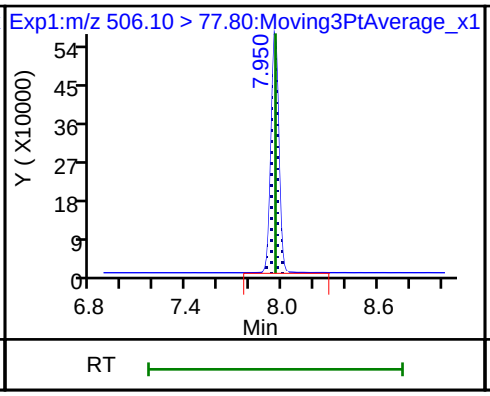
63 PFDoA



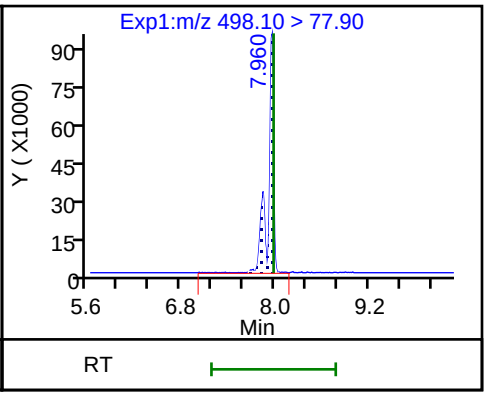
63 PFDoA



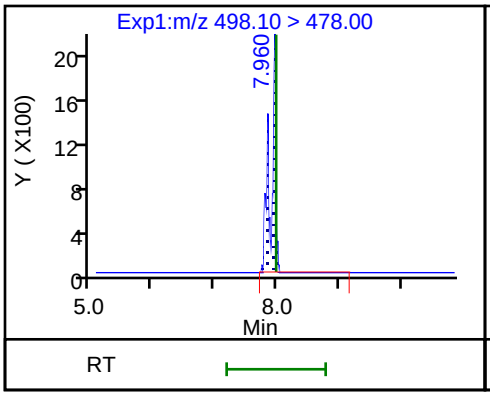
D 65 13C8 FOSA



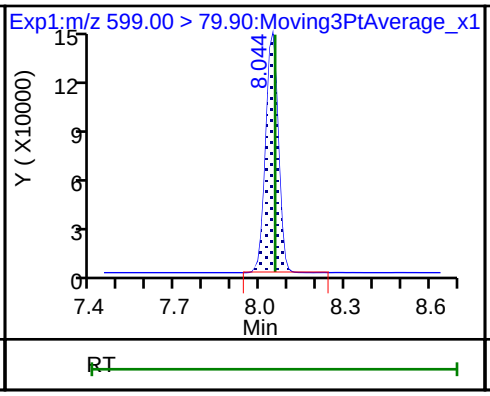
64 PFOSA



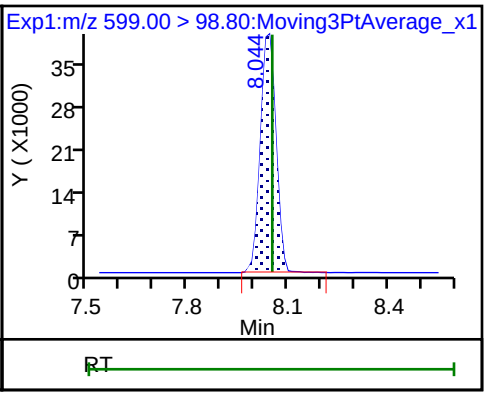
64 PFOSA



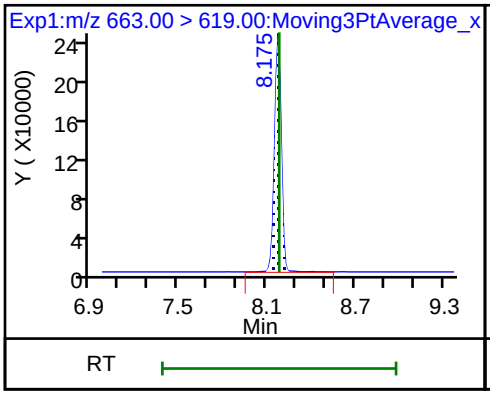
66 PFDS



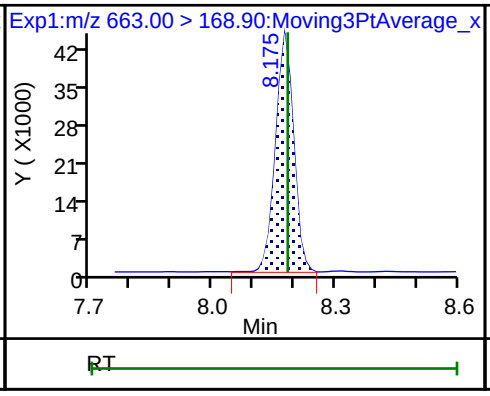
66 PFDS



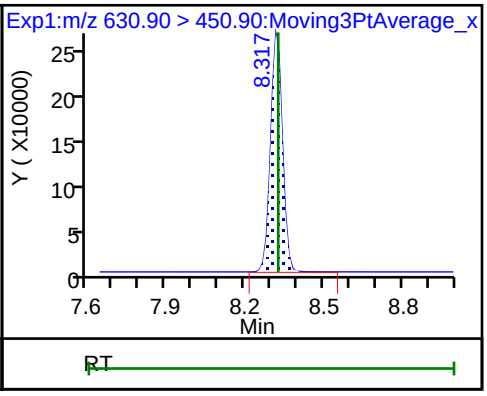
67 PFTrDA



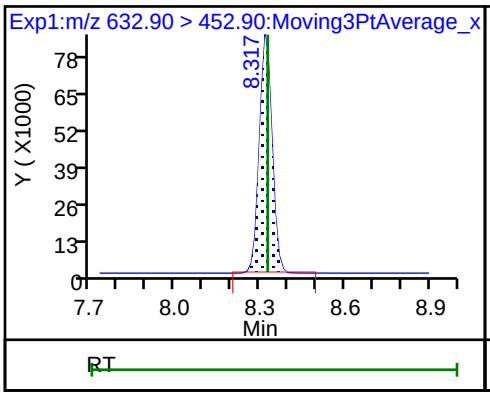
67 PFTrDA



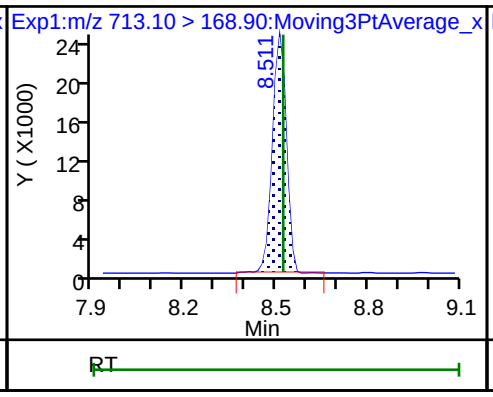
68 11ClFOS



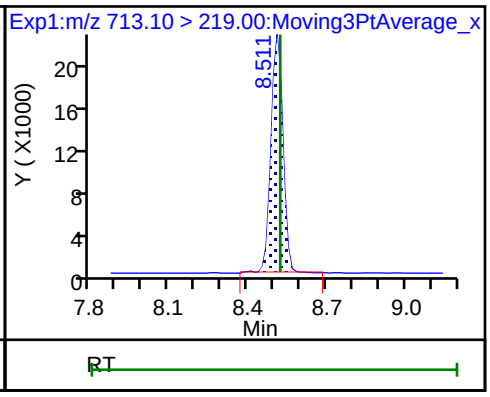
68 11ClFOS



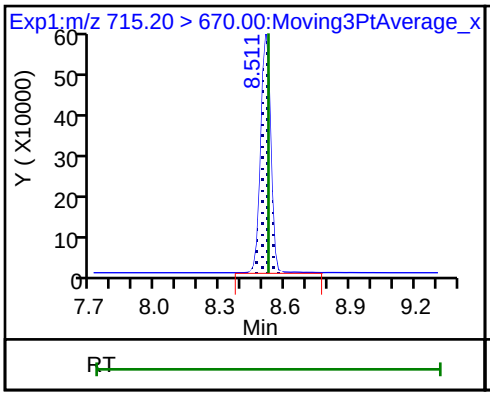
70 PFTeDA



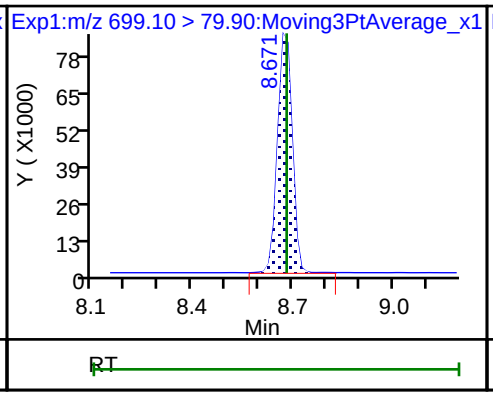
70 PFTeDA



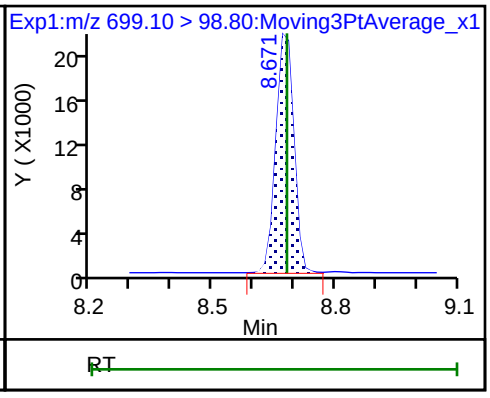
D 69 13C2 PFTeDA



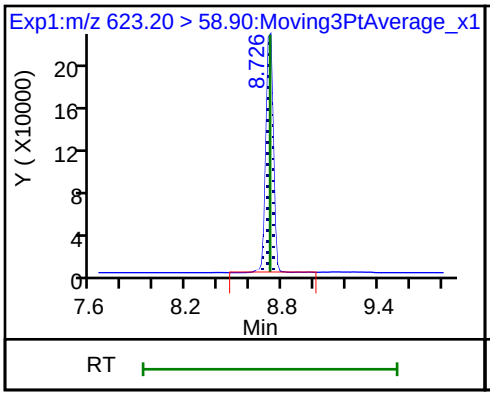
73 PFDoS



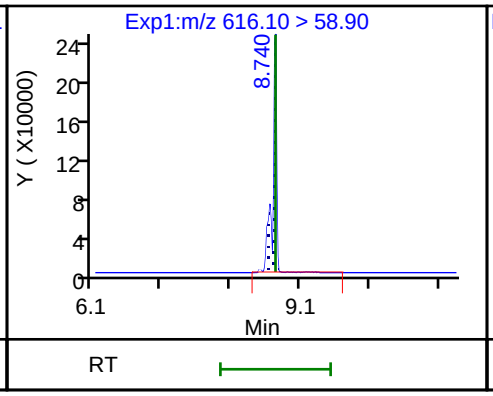
73 PFDoS



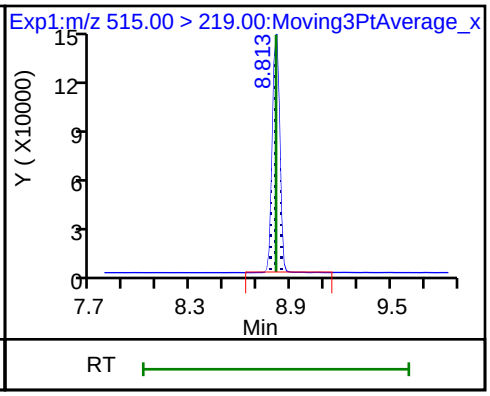
D 71 d7-N-Me-FOSE



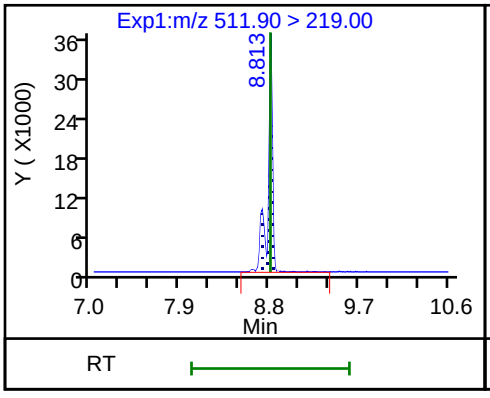
72 N-MeFOSE-M



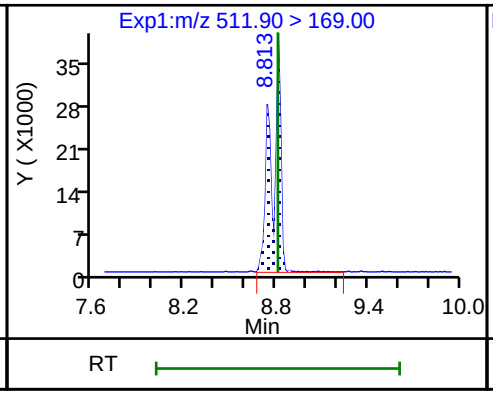
D 74 d3-NMePFOSA



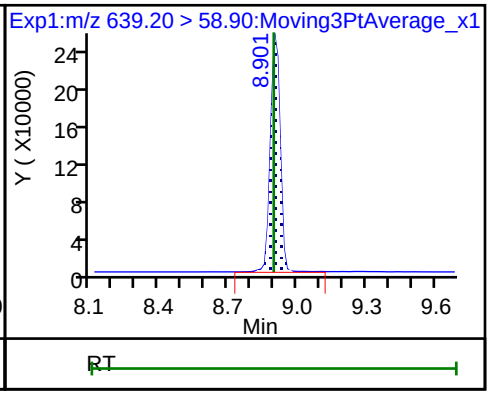
75 NMeFOSA



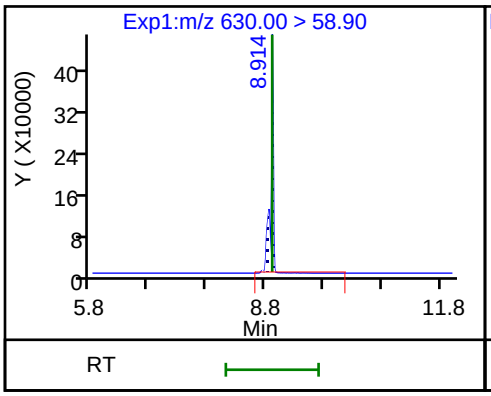
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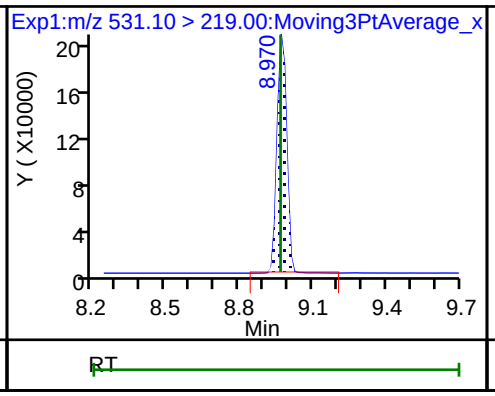
D 76 d9-N-EtFOSE



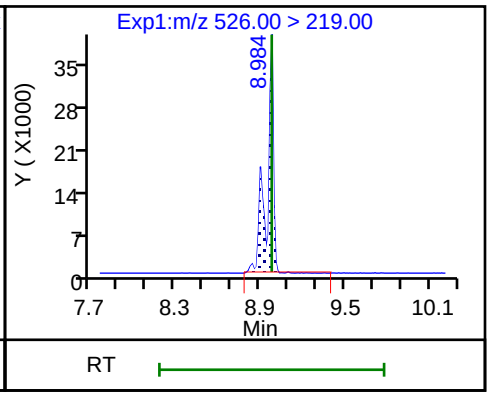
77 N-EtFOSE-M



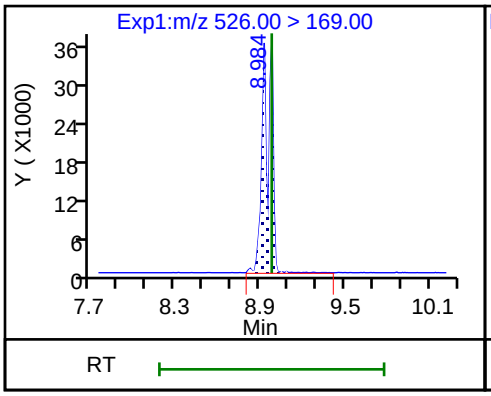
D 78 d5-NEtPFOSA



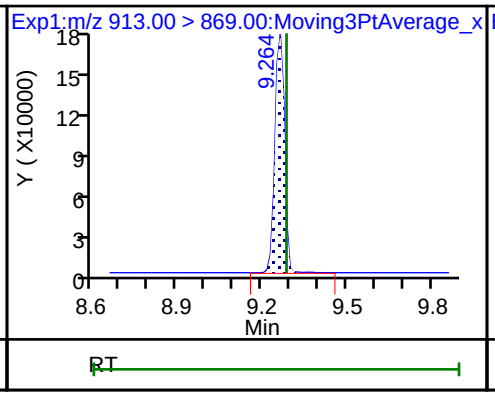
79 N-EtFOSA-M



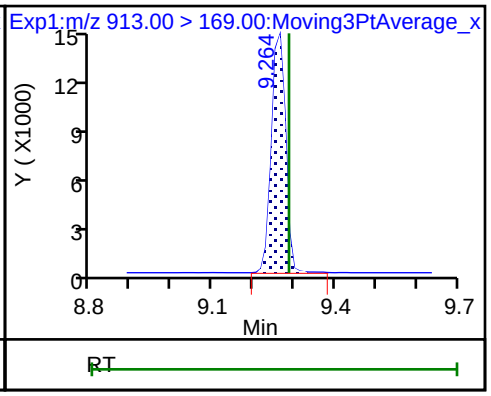
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

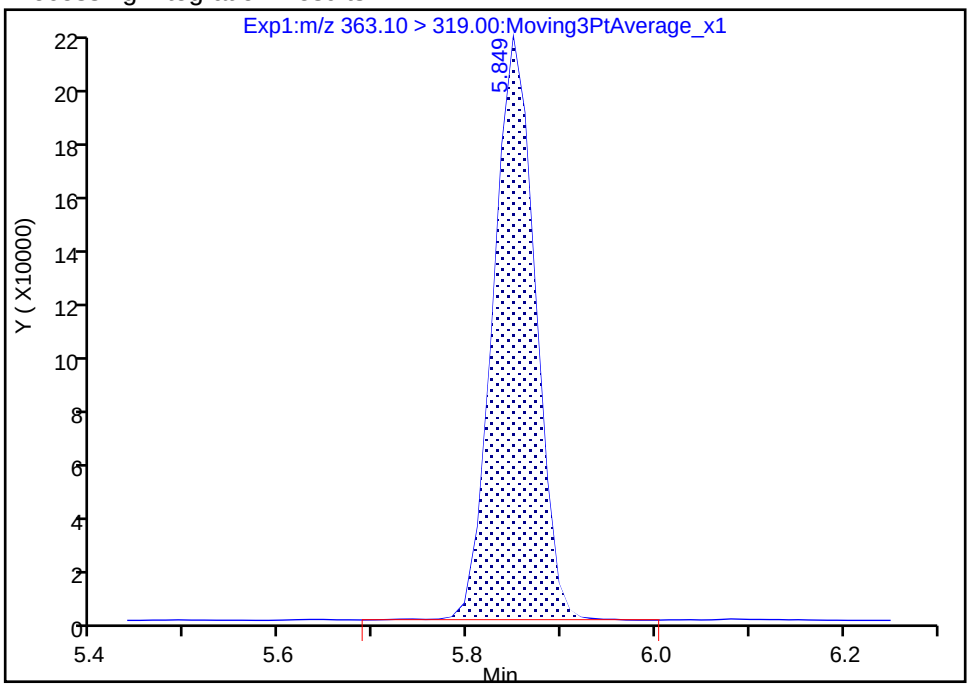
Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-03.d
Injection Date: 02-Feb-2026 12:10:51 Instrument ID: 30575
Lims ID: IC CAL 3
Client ID:
Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL
Column: Detector EXP1

27 PFHpA, CAS: 375-85-9

Signal: 1

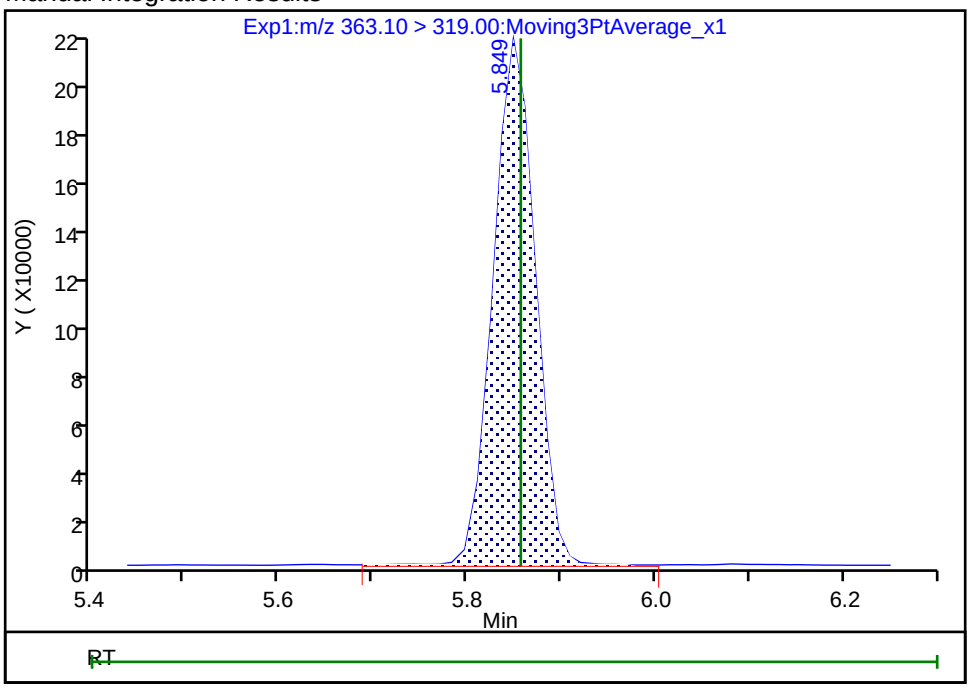
Processing Integration Results

RT: 5.85
Area: 661972
Amount: 0.491689
Amount Units: ng/ml



Manual Integration Results

RT: 5.85
Area: 661972
Amount: 0.493893
Amount Units: ng/ml



Reviewer: P7EB, 02-Feb-2026 15:05:40 -05:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-04.d
Lims ID: IC CAL 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 02-Feb-2026 12:24:27 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:56:54 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: P7EB Date: 02-Feb-2026 15:07:34
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 2 13C3PFPrA										
166.00 > 121.00	2.089	2.106	-0.017	0.480	1704090	2.04		102	1021	
1 Perfluoropropionic acid										M
163.00 > 119.00	2.097	2.122	-0.025	1.004	3811752	4.82		96.4	1906	M
5 PFBA										
212.80 > 168.90	4.340	4.338	0.002	0.998	2668703	1.99		99.6	5516	
D 6 13C4-PFBA										
216.80 > 171.90	4.348	4.346	0.002	1.000	2853201	2.05		102	9491	
* 7 13C3PFBA										
216.00 > 172.00	4.348	4.346	0.002		2304680	2.00			7903	
9 PFMPA										
229.00 > 84.90	4.639	4.637	0.001	0.933	1139261	1.02		102	4518	
10 3:3 FTCA										
241.00 > 177.00	4.648	4.647	0.001	0.935	106728	1.99	Target=1.27	99.4	1359	
241.00 > 117.00	4.648	4.647	0.001	0.935	87818		1.22(0.63-1.90)	99.4	807	
D 11 13C5 PFPeA										
268.30 > 223.00	4.970	4.968	0.002	0.914	2082289	1.99		99.5	5890	
12 PFPA										
263.00 > 219.00	4.970	4.968	0.002	1.000	1155115	0.9738		97.4	2070	
13 PFMBA										
279.00 > 85.10	5.127	5.125	0.002	1.032	1280809	0.9542		95.4	9073	
15 4:2FTS										
327.10 > 307.00	5.255	5.253	0.002	1.002	807693	1.99	Target=1.60	106	5256	
327.10 > 80.90	5.255	5.253	0.002	1.002	487514		1.66(0.80-2.40)	106	721	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.243	5.253	-0.010	0.811	1098403	4.53		96.6	5312	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.395	5.391	0.004	0.992	564171	0.9862	Target=1.47	98.6	4520	
295.00 > 84.90	5.395	5.391	0.004	0.992	400035		1.41(0.74-2.21)	98.6	1439	
D 17 13C5 PFHxA										
318.00 > 273.00	5.437	5.432	0.005	1.000	2912880	1.98		98.8	13077	
* 18 13C2 PFHxA										
315.10 > 270.00	5.437	5.432	0.005		6380153	5.00			19338	
19 PFHxA										
313.00 > 269.00	5.437	5.432	0.005	1.000	1321218	0.9447	Target=11.71	94.5	1924	
313.00 > 118.90	5.437	5.432	0.005	1.000	125419		10.53(5.85-17.56)	94.5	993	
22 5:3 FTCA										
341.00 > 237.10	5.505	5.514	-0.009	1.013	904393	5.07	Target=0.90	101	4208	
341.00 > 217.00	5.505	5.514	-0.009	1.013	981123		0.92(0.45-1.35)	101	4587	
21 PFBS										
298.70 > 79.90	5.574	5.569	0.005	1.000	991621	0.9198	Target=2.89	104	6748	
298.70 > 98.80	5.574	5.569	0.005	1.000	333275		2.98(1.44-4.33)	104	2235	
D 20 13C3 PFBS										
302.10 > 79.90	5.574	5.569	0.005	0.862	2219097	1.82		97.6	12000	
28 FBSA										
297.90 > 78.00	5.588	5.583	0.005	1.003	940296	0.99		99.2	2177	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.617	5.626	-0.009	1.033	2002913	1.98		99.2	6017	
24 HFPO-DA										
284.90 > 168.90	5.617	5.626	-0.009	1.000	676800	0.7049	Target=2.42	94.0	1840	
284.90 > 184.90	5.617	5.626	-0.009	1.000	287932		2.35(1.21-3.62)	94.0	940	
25 PFEESA										
314.80 > 134.90	5.810	5.807	0.004	1.069	2752201	0.9022	Target=13.09	101	17658	
314.80 > 82.90	5.810	5.807	0.004	1.069	209157		13.16(6.55-19.64)	101	1064	
27 PFHpA										
363.10 > 319.00	5.848	5.857	-0.009	1.000	1438515	1.00	Target=2.35	99.9	2209	
363.10 > 169.00	5.848	5.857	-0.009	1.000	586582		2.45(1.17-3.52)	99.9	1938	
D 26 13C4 PFHpA										
367.10 > 322.00	5.848	5.857	-0.009	1.076	2937982	2.03		102	6232	
29 ADONA										
376.90 > 250.90	6.002	5.999	0.003	1.069	3137006	0.9581	Target=1.85	101	12256	
376.90 > 84.80	5.991	5.999	-0.008	1.067	1685262		1.86(0.92-2.77)	101	2886	
32 PFPeS										
349.10 > 79.90	6.036	6.033	0.003	0.934	1135624	0.8910	Target=3.28	94.8	3623	
349.10 > 98.90	6.036	6.033	0.003	0.934	350063		3.24(1.64-4.92)	94.8	2260	
31 6:2FTS										
427.10 > 407.00	6.036	6.044	-0.008	1.000	562420	1.81	Target=1.80	94.8	1681	
427.10 > 80.90	6.036	6.044	-0.008	1.000	339114		1.66(0.90-2.70)	94.8	1579	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.036	6.044	-0.008	0.934	712051	4.95		104	4060	
33 BTS										
280.00 > 147.00	6.192	6.199	-0.007	0.958	1990945	0.9532		97.4	8502	
D 35 13C8 PFOA										
421.10 > 376.00	6.237	6.245	-0.008	1.000	3632480	2.07		104	6685	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.237	6.245	-0.008		8768804	5.00			12071	
36 PFOA										
413.00 > 369.00	6.250	6.245	0.005	1.002	1352414	0.9819	Target=2.11	98.2	118272	
413.00 > 169.00	6.237	6.245	-0.008	1.000	632842		2.14(1.06-3.17)	98.2	46277	
39 7:3 FTCA										
441.00 > 316.90	6.300	6.308	-0.008	1.159	818640	5.05	Target=0.82	101	1470	
441.00 > 336.90	6.300	6.308	-0.008	1.159	959728		0.85(0.41-1.23)	101	1388	
40 PFHxS										
398.70 > 79.90	6.464	6.472	-0.008	1.000	1095101	0.8816	Target=3.44	96.7	299654	
398.70 > 98.90	6.452	6.472	-0.020	0.998	316216		3.46(1.72-5.16)	96.7	644	
* 38 18O2 PFHxS										
403.00 > 83.90	6.464	6.472	-0.008		1817071	1.90			8468	
D 37 13C3 PFHxS										
402.10 > 79.90	6.464	6.472	-0.008	1.000	1838796	1.92		101	9683	
* 41 13C5 PFNA										
468.00 > 423.00	6.624	6.632	-0.008		3179791	2.00			7865	
43 PFNA										
463.00 > 419.00	6.624	6.632	-0.008	1.000	1398822	0.99	Target=2.84	99.1	197875	
463.00 > 219.00	6.624	6.632	-0.008	1.000	486179		2.88(1.42-4.26)	99.1	675	
D 42 13C9 PFNA										
472.10 > 427.00	6.624	6.632	-0.008	1.000	3220001	2.02		101	9449	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.793	6.801	-0.008	1.051	689176	4.92		102	3653	
45 8:2FTS										
527.10 > 507.00	6.793	6.812	-0.019	1.000	453809	1.93	Target=1.52	100	2745	
527.10 > 80.80	6.793	6.812	-0.019	1.000	277140		1.64(0.76-2.28)	100	1678	
46 PFECHS										
461.00 > 381.00	6.838	6.846	-0.008	1.058	270966	0.8399	Target=0.31	90.9	165	
461.00 > 99.00	6.838	6.846	-0.008	1.058	964487		0.28(0.16-0.47)	90.9	2701	
47 PFHpS										
449.00 > 79.90	6.872	6.880	-0.008	0.945	993194	1.02	Target=3.44	107	3938	
449.00 > 98.80	6.872	6.880	-0.008	0.945	278204		3.57(1.72-5.16)	107	1731	
53 FHxSA										
397.90 > 78.00	6.872	6.891	-0.019	1.063	1325547	1.00		99.8	2318	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.956	6.965	-0.009	0.957	1666482	4.97		99.5	2890	
49 NMeFOSAA										
570.10 > 419.00	6.956	6.965	-0.009	1.000	374457	1.01	Target=1.84	101	111606	
570.10 > 483.00	6.956	6.965	-0.009	1.000	202325		1.85(0.92-2.76)	101	51111	
D 50 13C6 PFDA										
519.10 > 474.10	7.018	7.028	-0.010	1.000	3292675	2.09		104	7521	
* 52 13C2 PFDA										
515.10 > 470.10	7.018	7.028	-0.010		3095206	2.00			12220	
51 PFDA										
512.90 > 469.00	7.018	7.028	-0.010	1.000	1351168	0.9799	Target=4.61	98.0	5467	
512.90 > 219.00	7.018	7.028	-0.010	1.000	290685		4.65(2.31-6.92)	98.0	1469	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.127	7.138	-0.011	0.980	1481028	5.00		100	2941	
55 NEtFOSAA										
584.20 > 419.10	7.127	7.138	-0.011	1.000	238269	0.9796	Target=1.44	98.0	384	
584.20 > 526.00	7.127	7.138	-0.011	1.000	161744		1.47(0.72-2.16)	98.0	336	
58 PFOS										
498.90 > 79.90	7.270	7.278	-0.008	1.000	1096571	0.9431	Target=4.21	101	248184	
498.90 > 98.80	7.270	7.278	-0.008	1.000	259012		4.23(2.11-6.32)	101	497	
D 56 13C8 PFOS										
507.10 > 79.90	7.270	7.278	-0.008	1.000	1545005	1.85		96.7	926	
* 57 13C4 PFOS										
502.80 > 79.90	7.270	7.278	-0.008		1725641	1.92			11023	
D 59 13C7 PFUnA										
570.00 > 525.10	7.411	7.419	-0.008	1.056	4087266	2.15		108	5401	
60 PFUnA										
563.10 > 519.00	7.411	7.429	-0.018	1.000	1452005	0.9607	Target=5.05	96.1	5691	
563.10 > 269.10	7.411	7.429	-0.018	1.000	282664		5.14(2.52-7.57)	96.1	1888	
61 9ClFOS										
530.80 > 351.00	7.577	7.593	-0.016	1.042	2230002	0.9702	Target=3.14	104	6190	
532.80 > 353.00	7.577	7.593	-0.016	1.042	699227		3.19(1.57-4.71)	104	6436	
62 PFNS										
548.80 > 79.90	7.668	7.675	-0.007	1.055	924334	1.00	Target=3.68	104	7447	
548.80 > 98.80	7.668	7.675	-0.007	1.055	251084		3.68(1.84-5.52)	104	2852	
D 81 PFDoA										
615.10 > 570.00	7.804	7.820	-0.016	1.112	3438660	2.04		102	12526	
63 PFDoA										
613.10 > 569.00	7.804	7.820	-0.016		1578827	1.03	Target=5.59	103	4184	
613.10 > 319.00	7.804	7.820	-0.016		282743		5.58(2.80-8.39)	103	3621	
D 65 13C8 FOSA										
506.10 > 77.80	7.949	7.957	-0.008	1.093	2073462	2.01		101	6997	
64 PFOSA										
498.10 > 77.90	7.959	7.978	-0.019	1.001	900785	0.9472	Target=41.61	94.7	182032	
498.10 > 478.00	7.949	7.978	-0.029	1.000	20840		43.22(20.81-62.42)	94.7	53.2	
66 PFDS										
599.00 > 79.90	8.033	8.053	-0.020	1.105	934607	0.99	Target=3.58	103	8031	
599.00 > 98.80	8.033	8.053	-0.020	1.105	261103		3.58(1.79-5.38)	103	2466	
67 PFTrDA										
663.00 > 619.00	8.174	8.183	-0.009	0.962	1580773	0.9544	Target=5.80	95.4	5585	
663.00 > 168.90	8.174	8.183	-0.009	0.962	271962		5.81(2.90-8.70)	95.4	1440	
68 11ClFOS										
630.90 > 450.90	8.317	8.326	-0.009	1.144	1719584	0.9680	Target=3.03	103	11503	
632.90 > 452.90	8.317	8.326	-0.009	1.144	583209		2.95(1.51-4.55)	103	6970	
70 PFTeDA										
713.10 > 168.90	8.497	8.522	-0.025	1.000	167840	0.9538	Target=1.08	95.4	999	
713.10 > 219.00	8.497	8.522	-0.025	1.000	155346		1.08(0.54-1.62)	95.4	1060	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.497	8.522	-0.025	1.211	2016701	2.17		109	4639	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.671	8.681	-0.010	1.193	540773	0.9674	Target=4.08	99.7	4751	
699.10 > 98.80	8.671	8.681	-0.010	1.193	138248		3.91(2.04-6.11)	99.7	2310	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.713	8.723	-0.010	1.199	754892	5.00		100	598	
72 N-MeFOSE-M										
616.10 > 58.90	8.727	8.737	-0.010	1.002	1959508	4.83		96.6	3519	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.814	8.810	0.004	1.212	467729	2.00		99.9	3446	
75 NMeFOSA										
511.90 > 219.00	8.814	8.810	0.004	1.000	230829	0.9644	Target=0.70	96.4	1707	
511.90 > 169.00	8.814	8.810	0.004	1.000	332950		0.69(0.35-1.06)	96.4	1643	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.901	8.897	0.004	1.224	768669	5.01		100	1998	
77 N-EtFOSE-M										
630.00 > 58.90	8.915	8.912	0.003	1.002	2982887	4.91		98.2	997793	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.970	8.967	0.003	1.234	572941	2.01		100	2589	
79 N-EtFOSA-M										
526.00 > 219.00	8.984	8.981	0.003	1.002	256301	0.9497	Target=0.80	95.0	1939	
526.00 > 169.00	8.970	8.981	-0.011	1.000	327322		0.78(0.40-1.20)	95.0	1829	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.252	9.286	-0.034	1.089	836995	0.8748	Target=11.76	87.5	39647	
913.00 > 169.00	9.252	9.286	-0.034	1.089	68889		12.15(5.88-17.64)	87.5	3615	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_CAL4_00077 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 17:56:57 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-04.d

Injection Date: 02-Feb-2026 12:24:27 Instrument ID: 30575

Lims ID: IC CAL 4

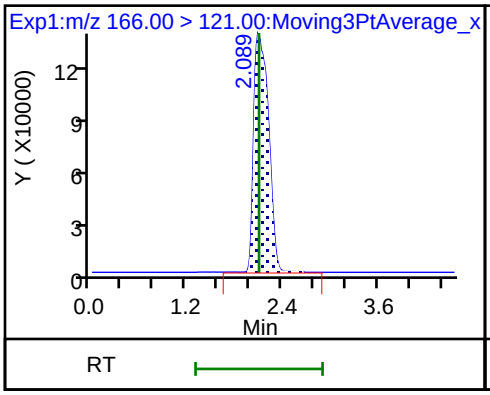
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Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 5 Worklist Smp#: 4

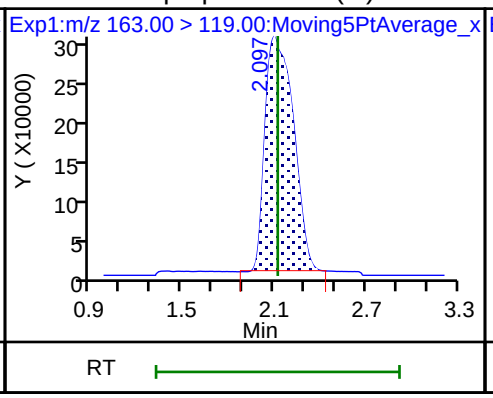
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

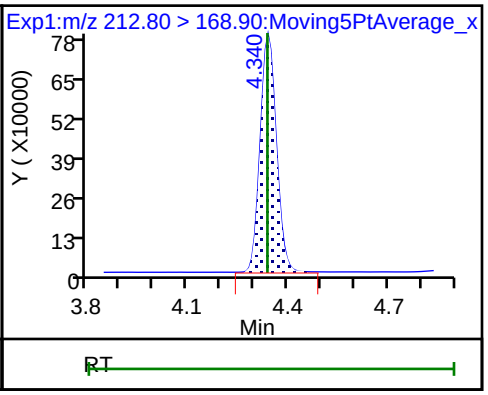
D 2 13C3PFPrA



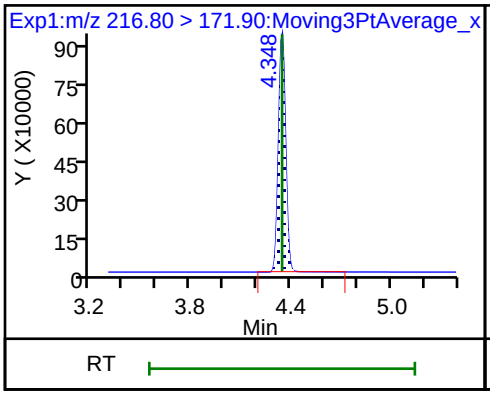
1 Perfluoropropionic acid (M)



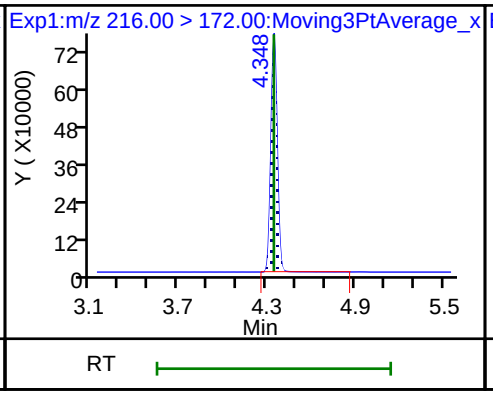
5 PFBA



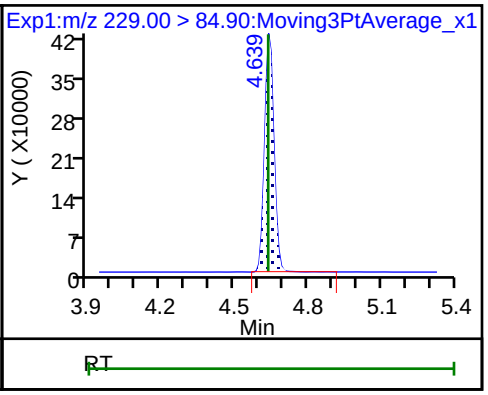
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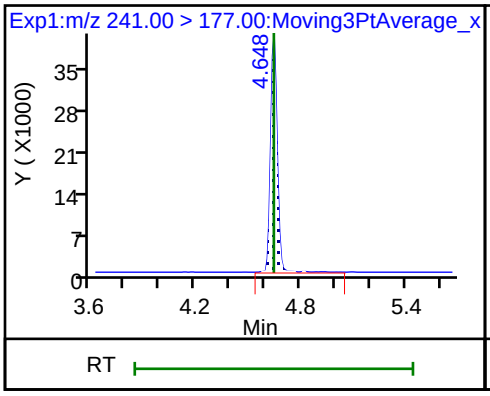
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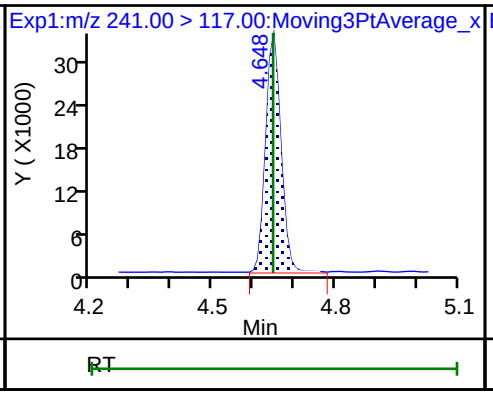
9 PFMPA



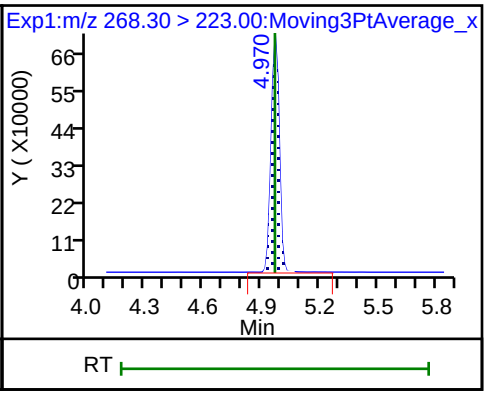
10 3:3 FTCA



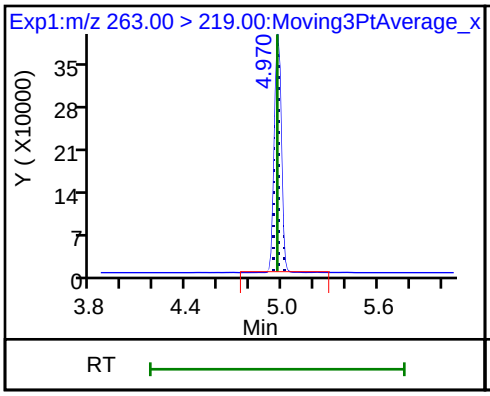
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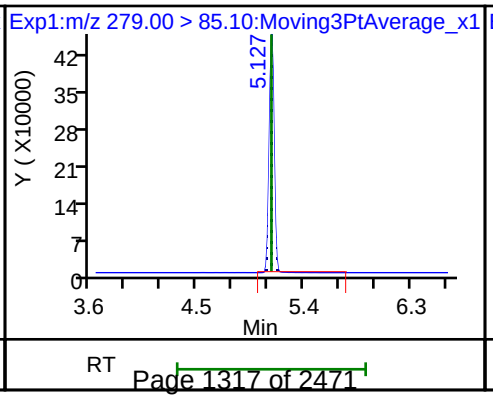
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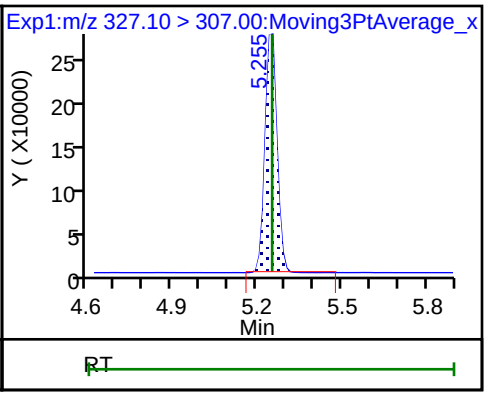
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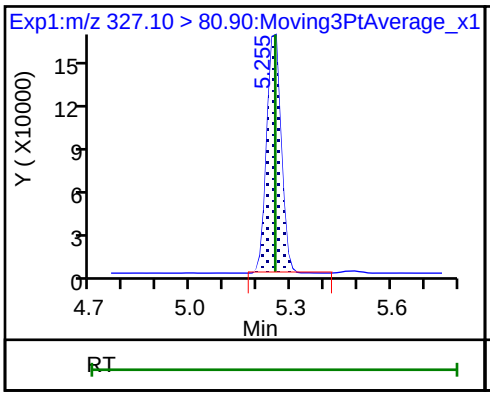
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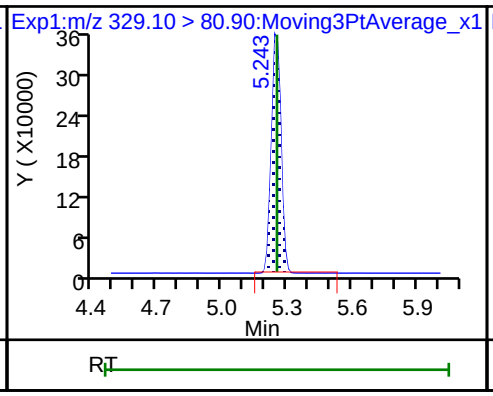
15 4:2FTS



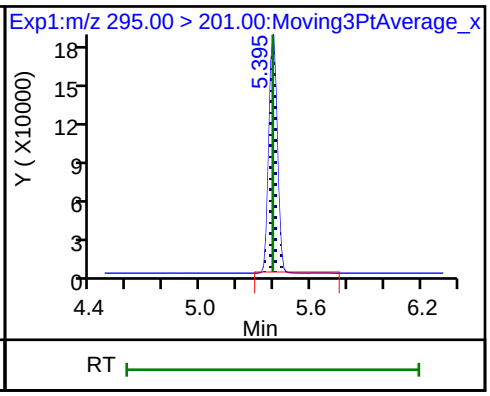
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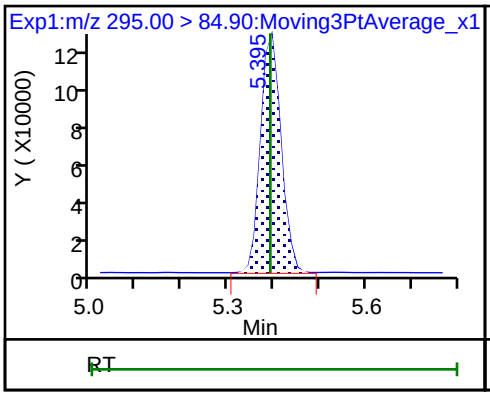
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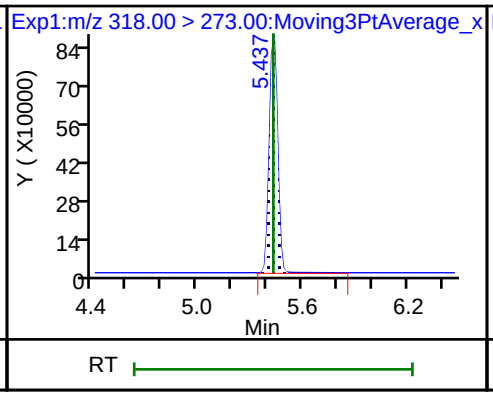
16 NFDHA



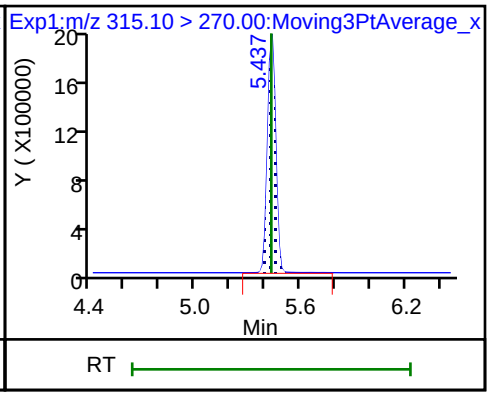
16 NFDHA



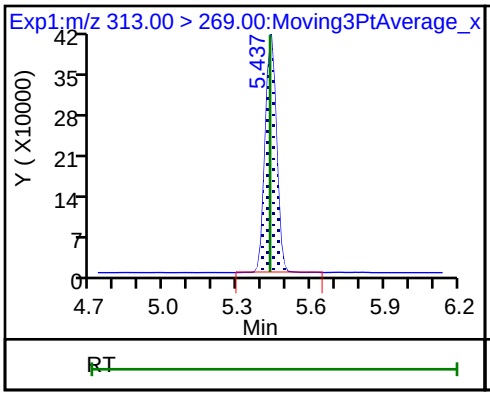
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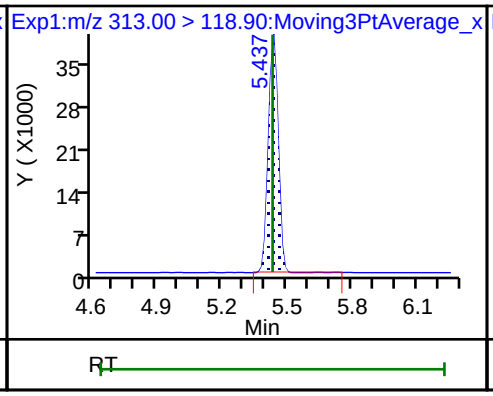
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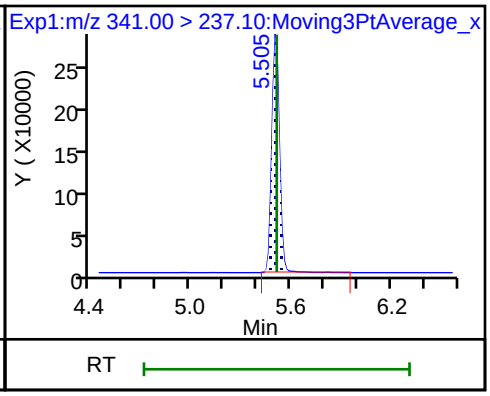
19 PFHxA



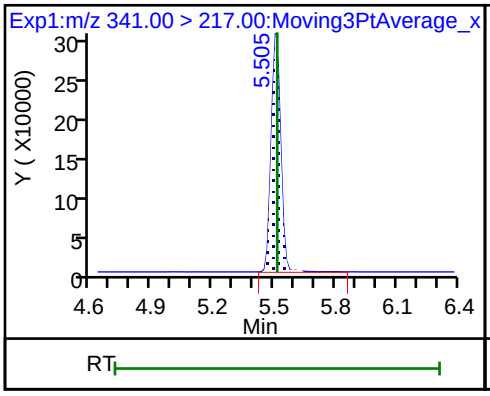
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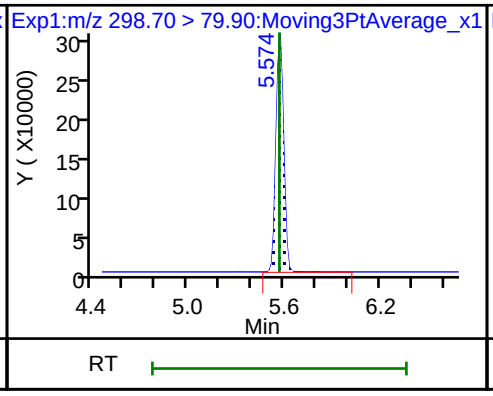
22 5:3 FTCA



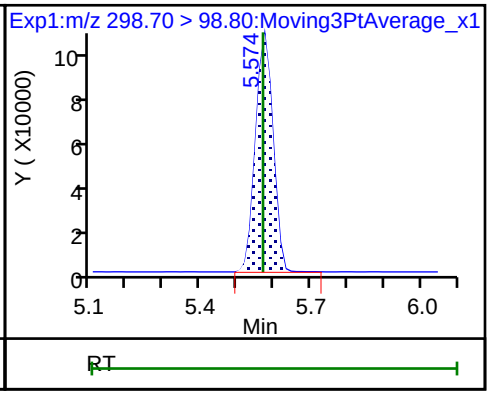
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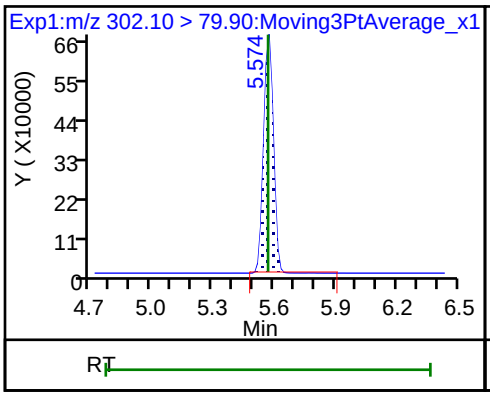
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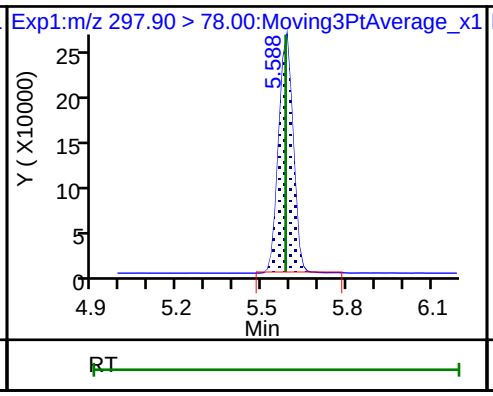
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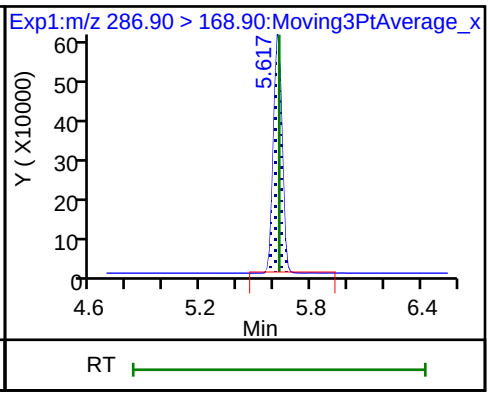
D 20 13C3 PFBS



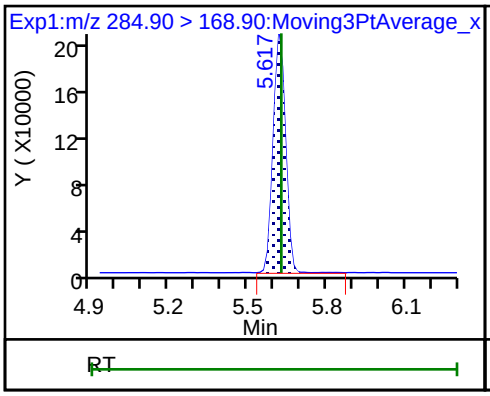
28 FBSA



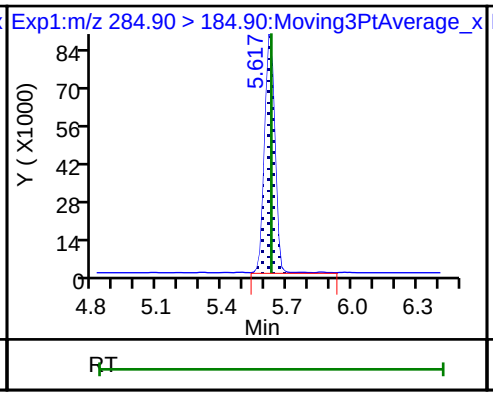
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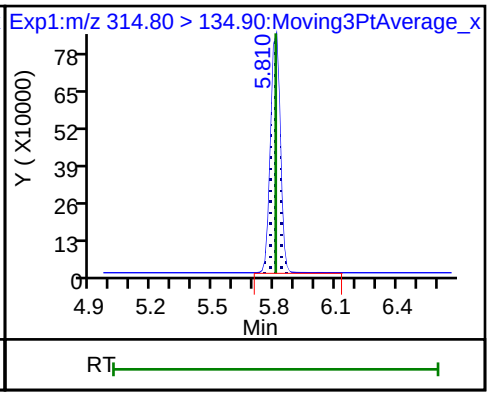
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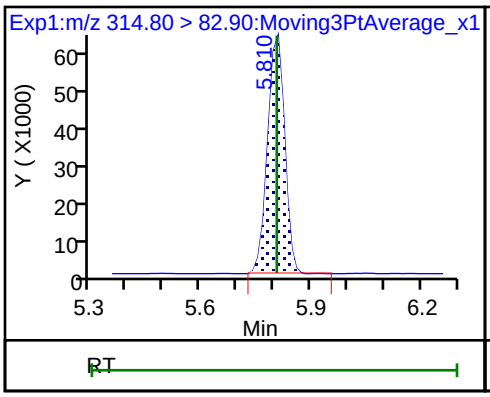
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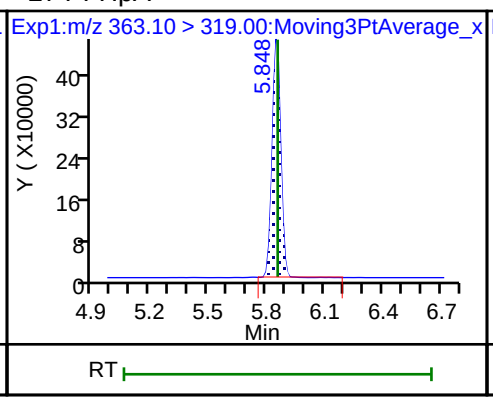
25 PFEESA



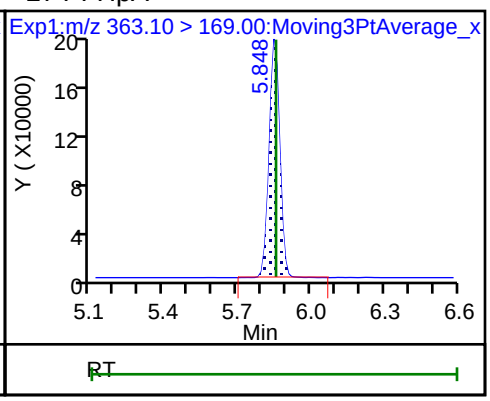
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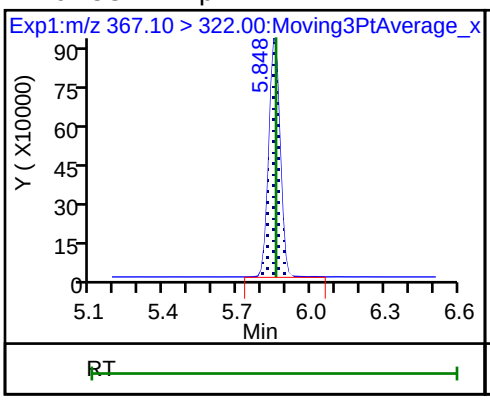
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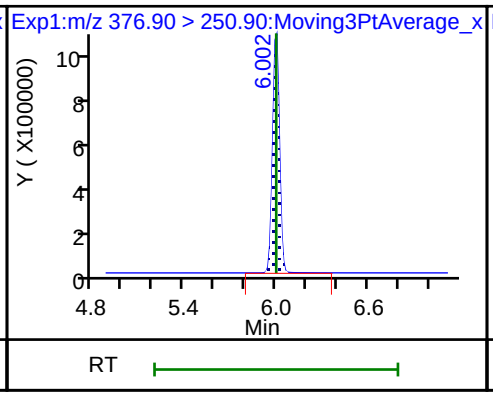
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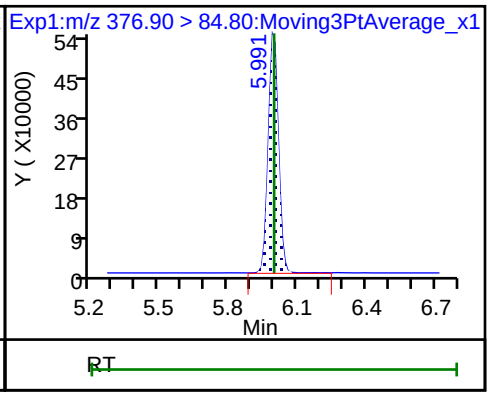
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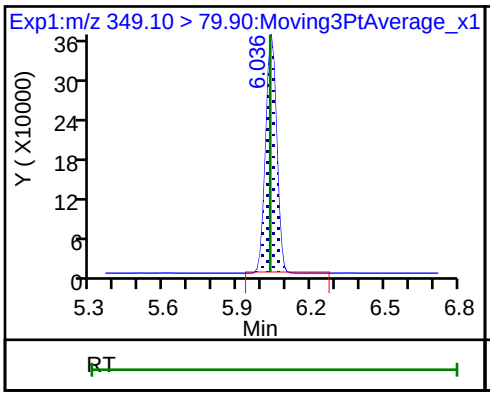
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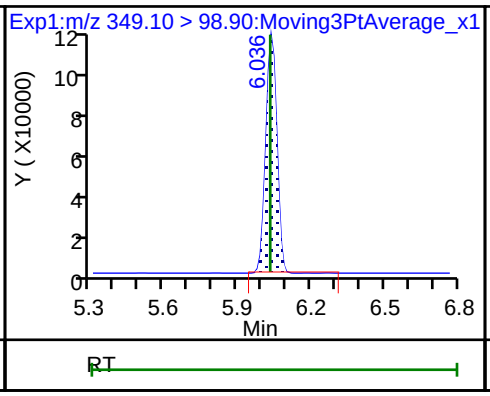
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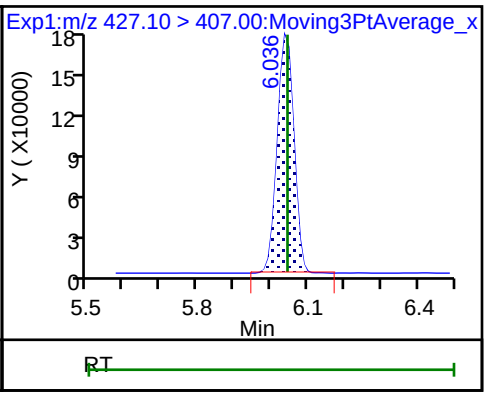
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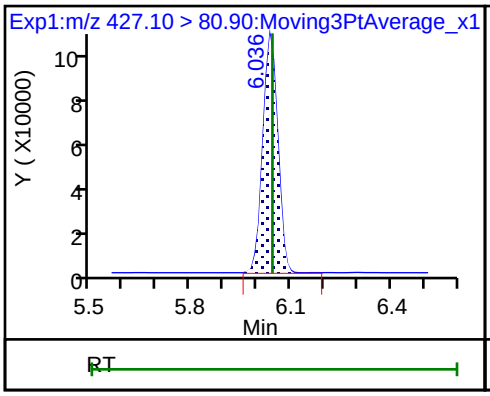
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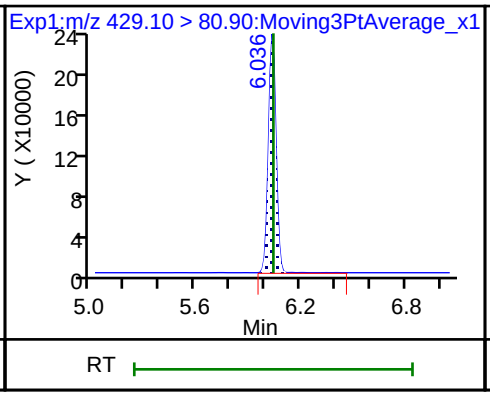
31 6:2FTS



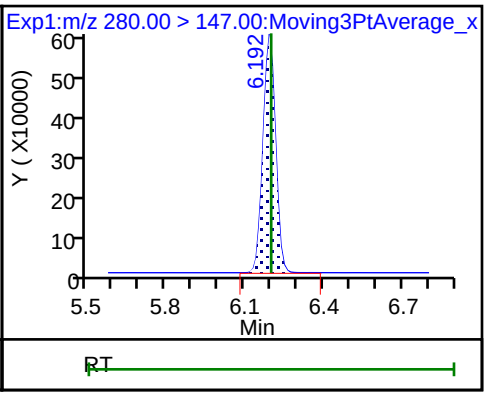
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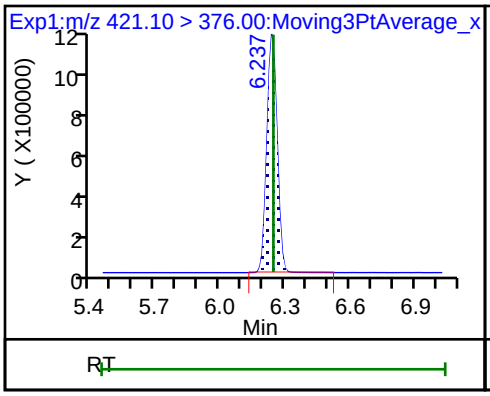
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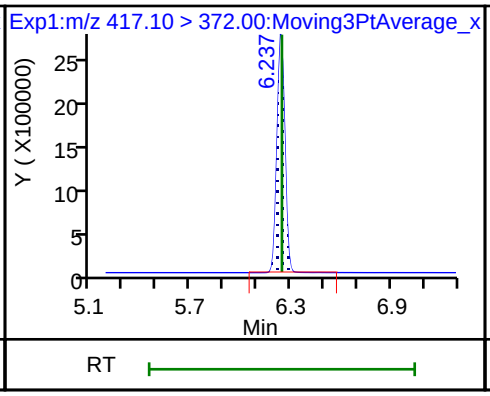
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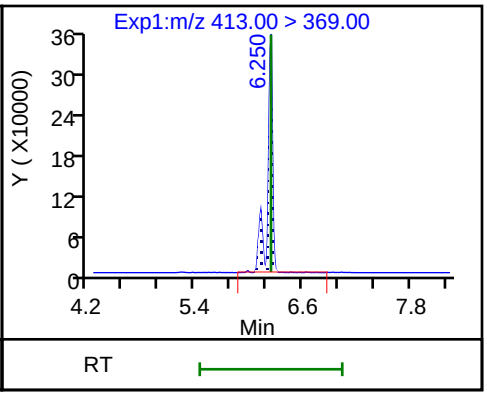
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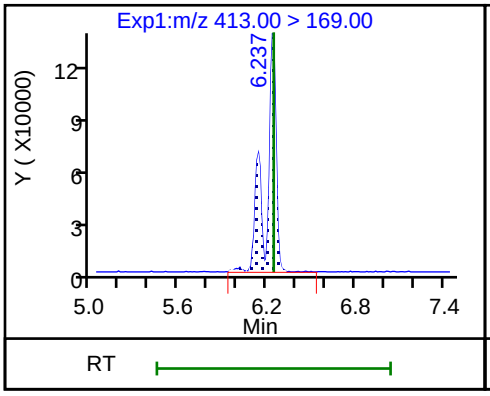
* 34 13C4 PFOA



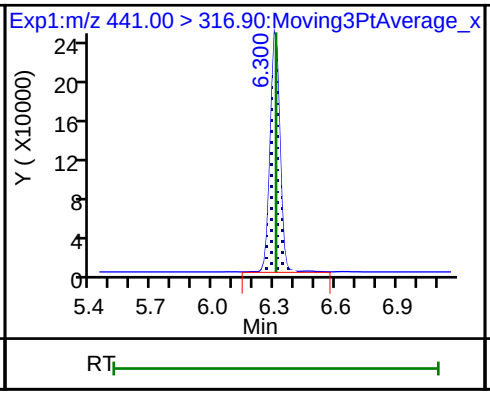
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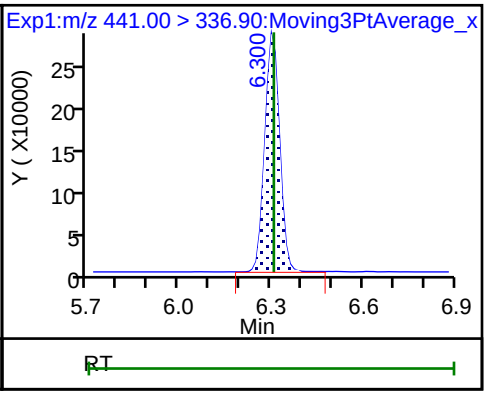
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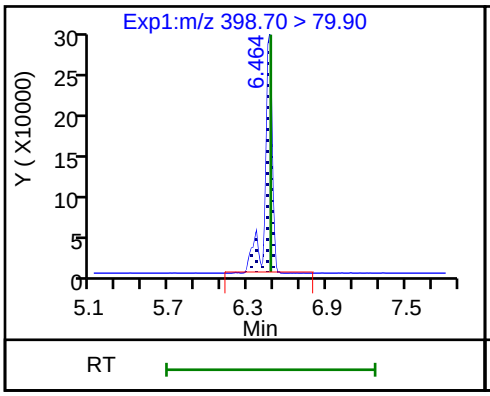
39 7:3 FTCA



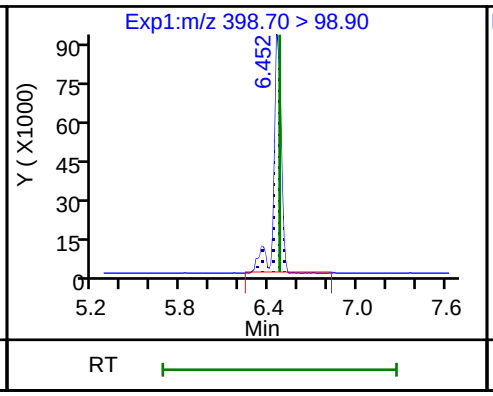
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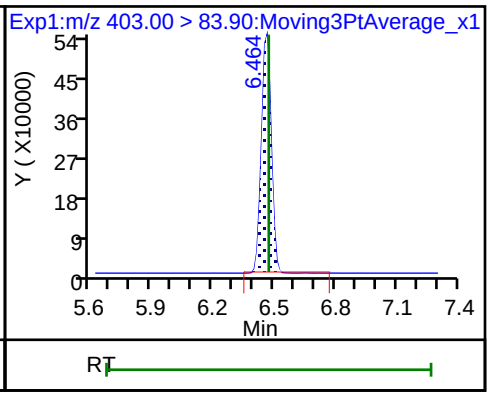
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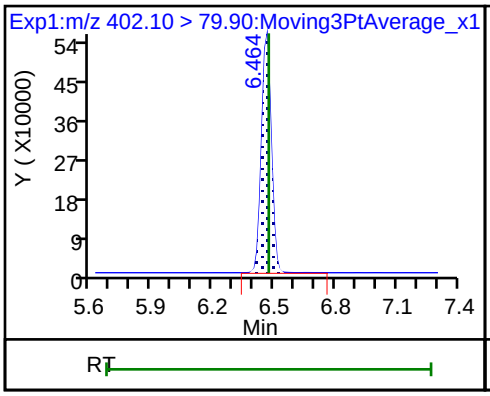
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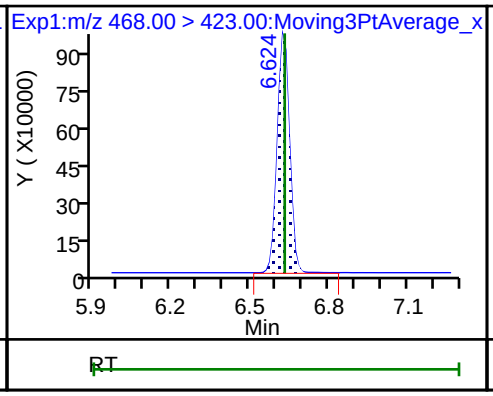
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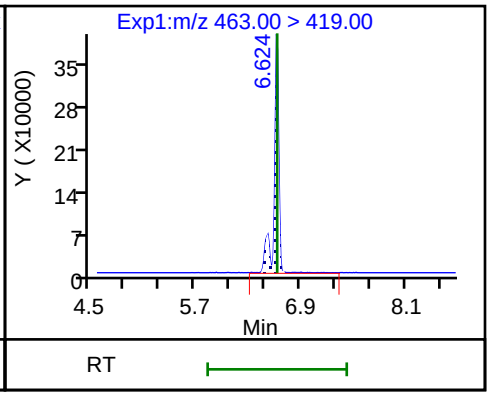
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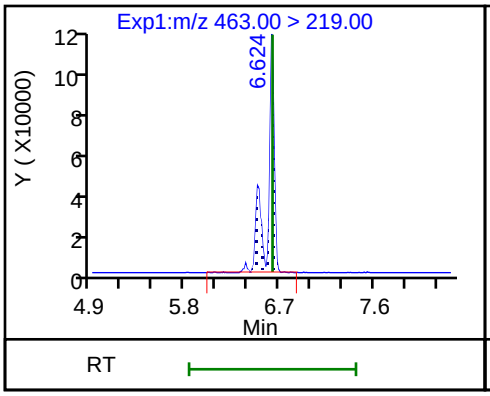
* 41 13C5 PFNA



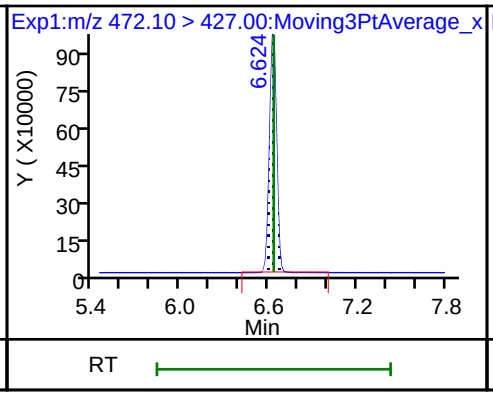
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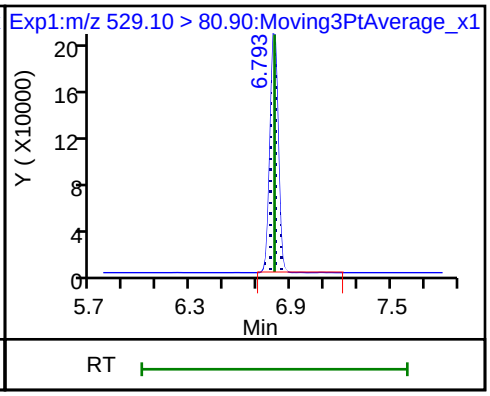
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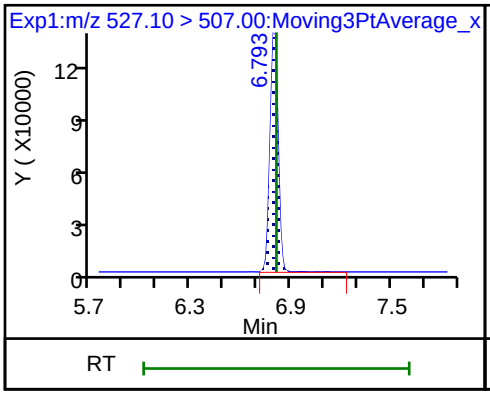
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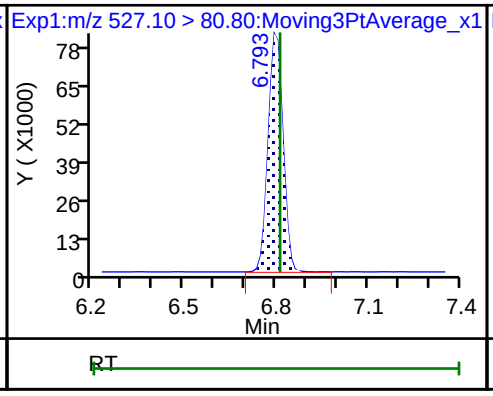
D 44 13C2-8:2FTS



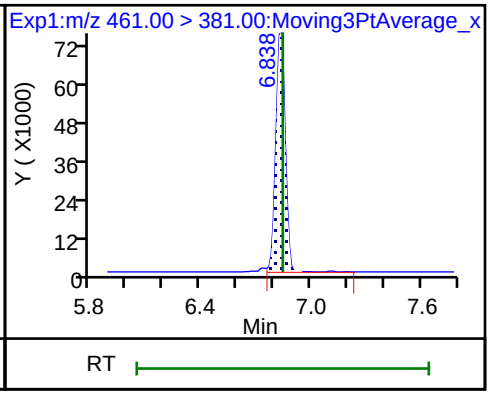
45 8:2FTS



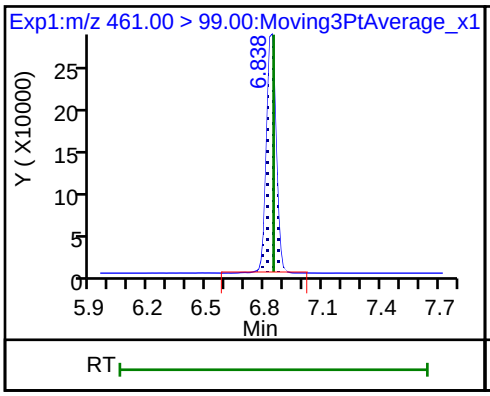
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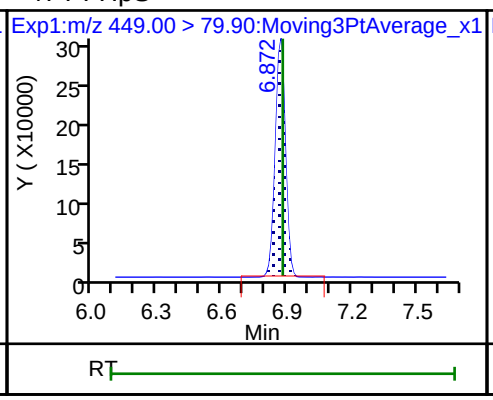
46 PFECHS



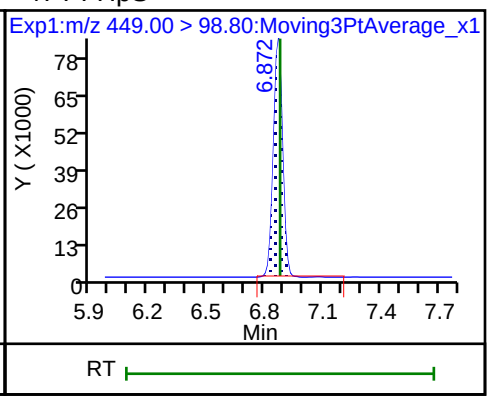
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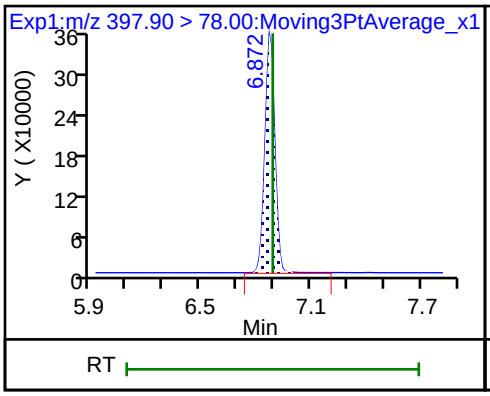
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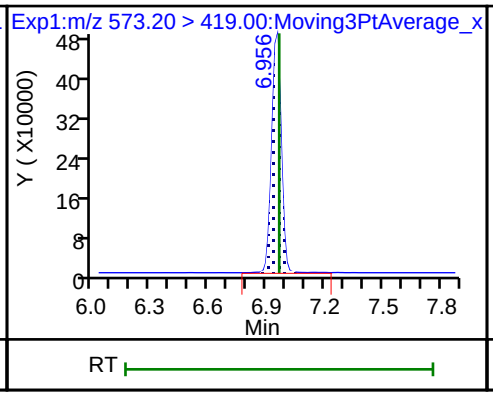
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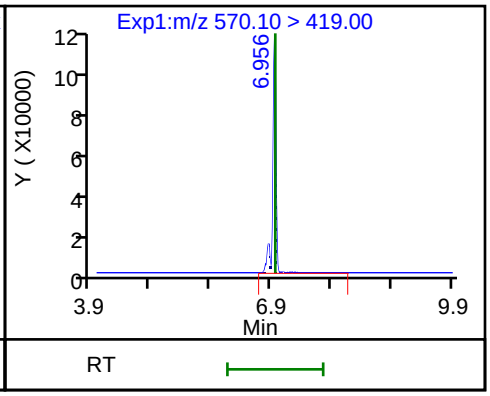
53 FHxSA



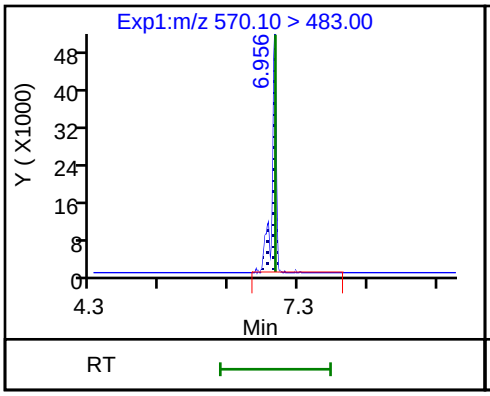
D 48 d3-NMeFOSAA



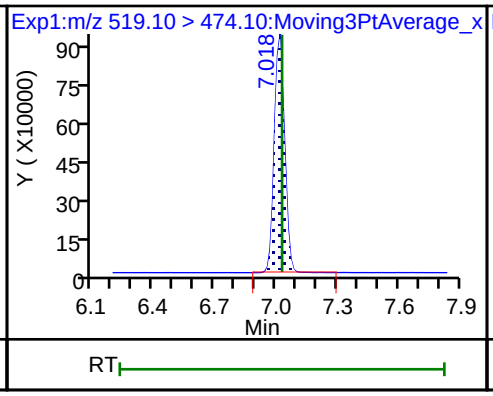
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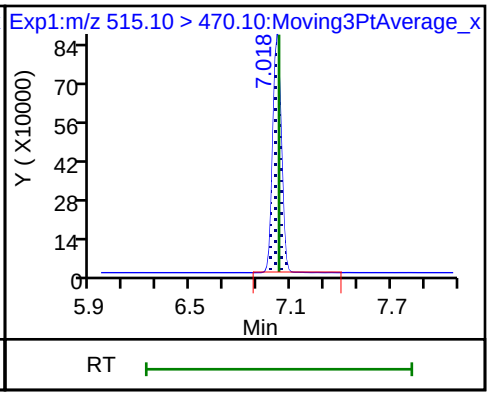
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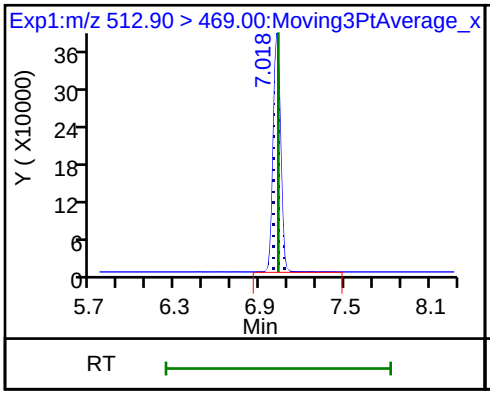
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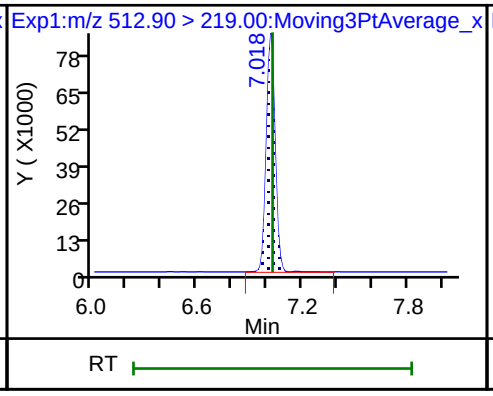
* 52 13C2 PFDA



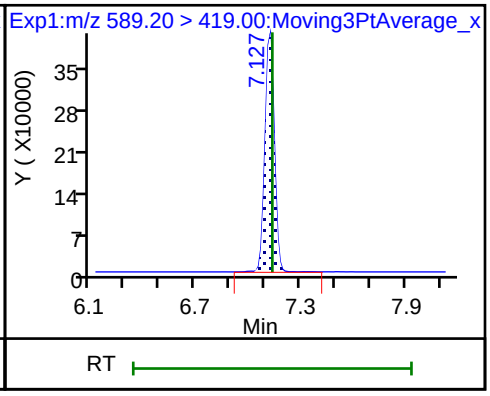
51 PFDA



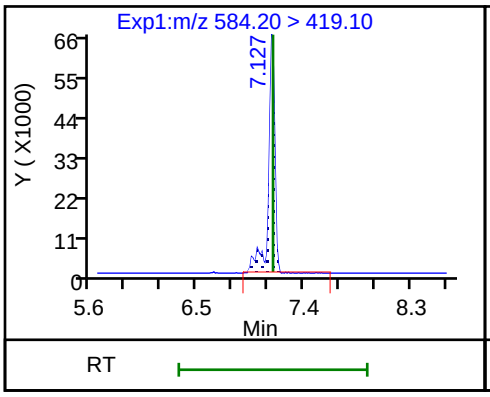
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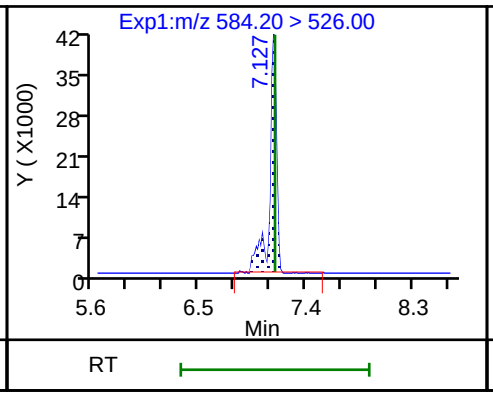
D 54 d5-NEtFOSAA



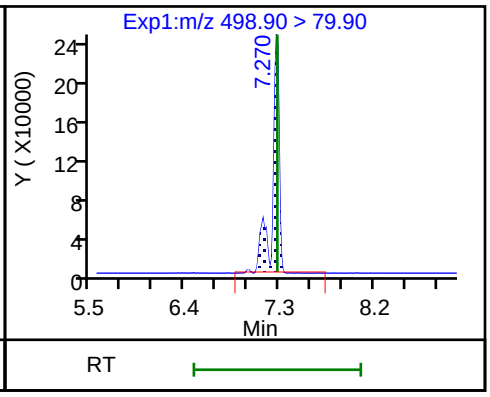
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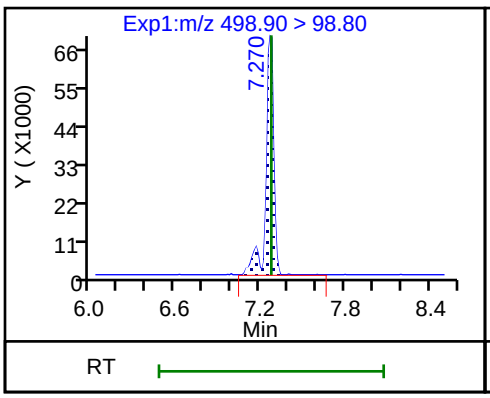
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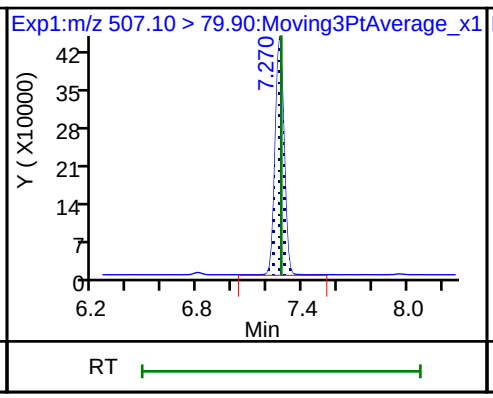
58 PFOS



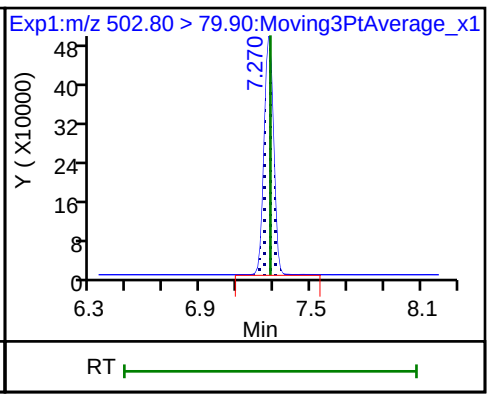
58 PFOS



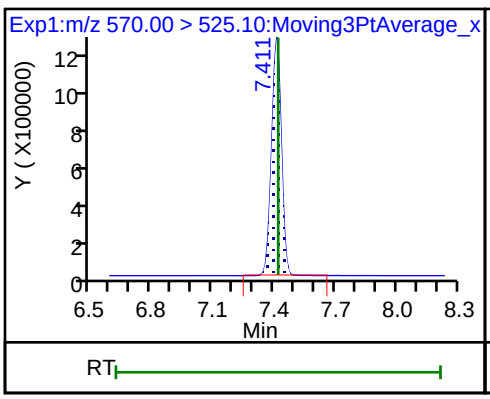
D 56 13C8 PFOS



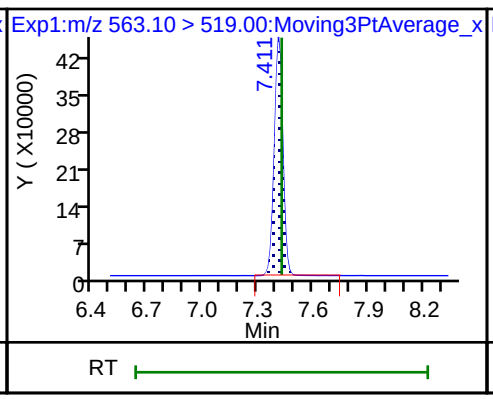
* 57 13C4 PFOS



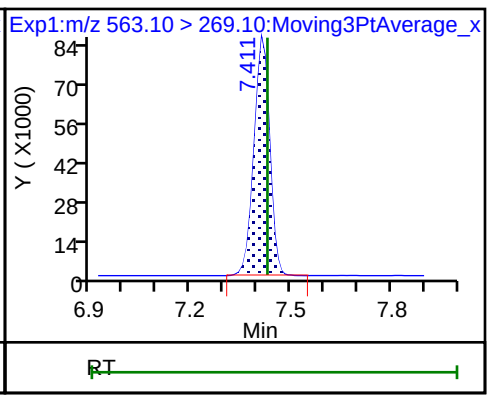
D 59 13C7 PFUnA



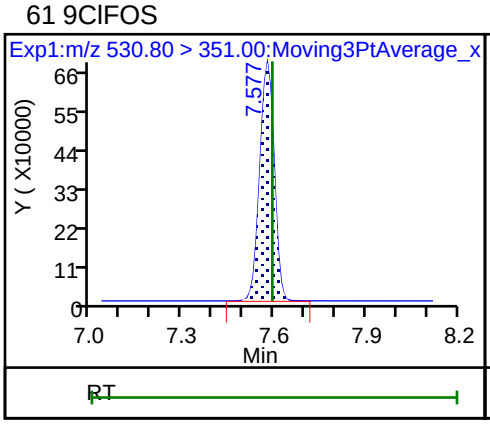
60 PFUnA



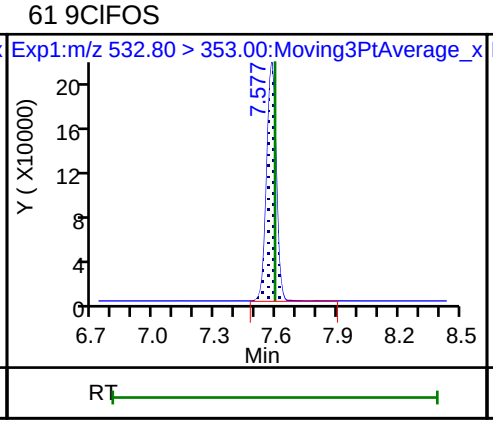
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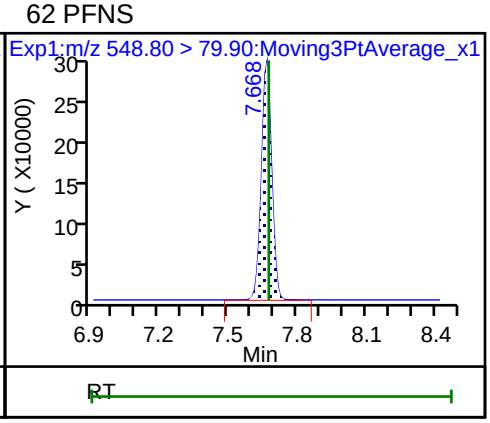
61 9ClFOS



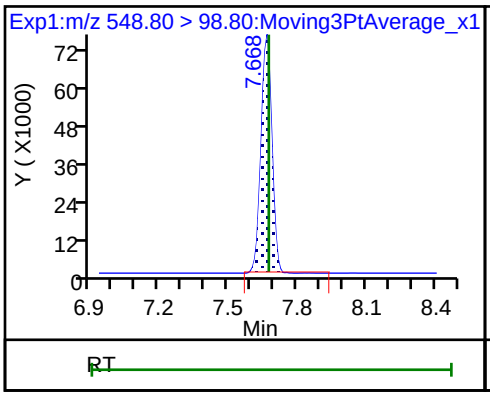
61 9ClFOS



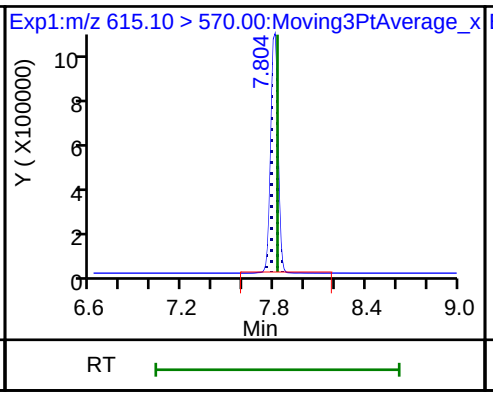
62 PFNS



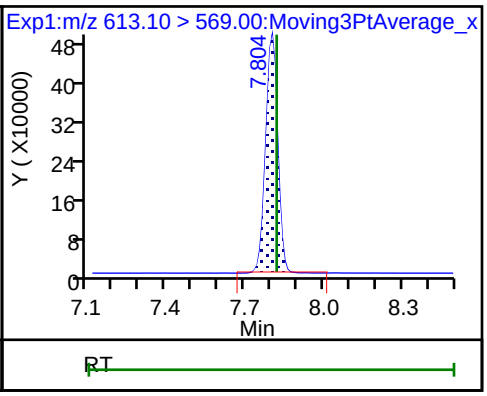
62 PFNS



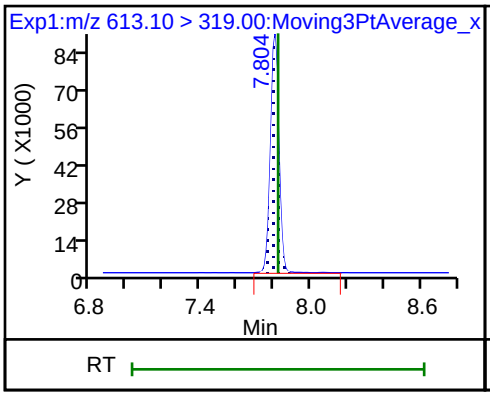
D 81 PFDoA



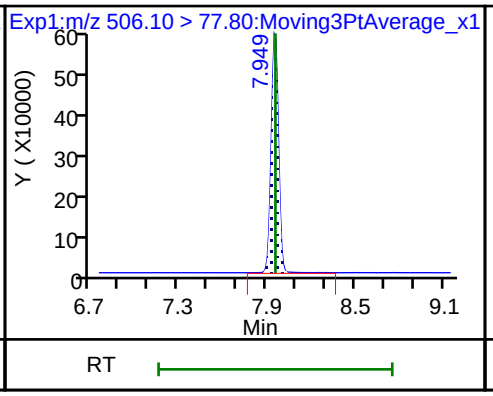
63 PFDoA



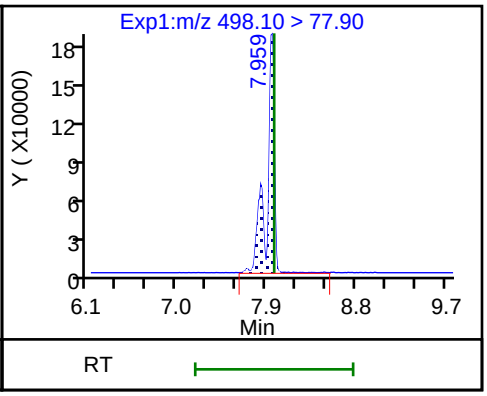
63 PFDoA



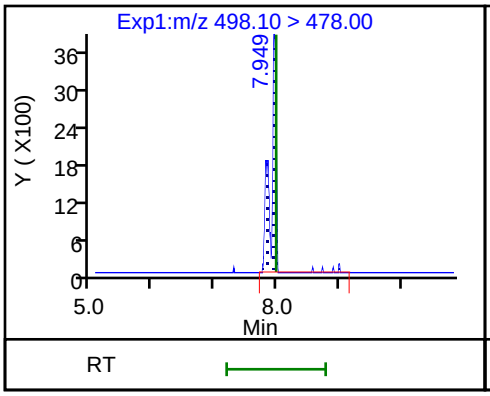
D 65 13C8 FOSA



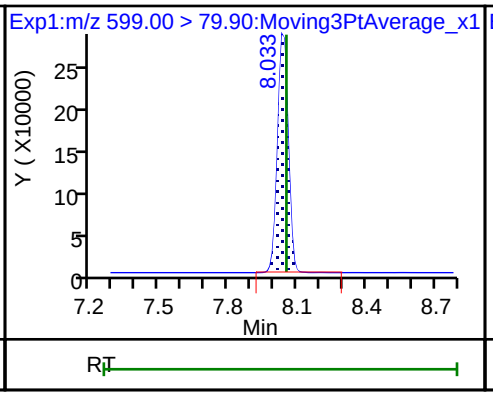
64 PFOSA



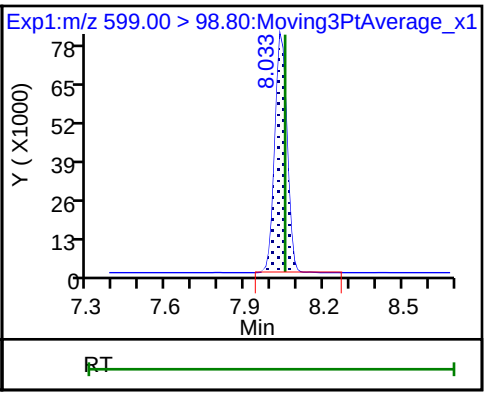
64 PFOSA



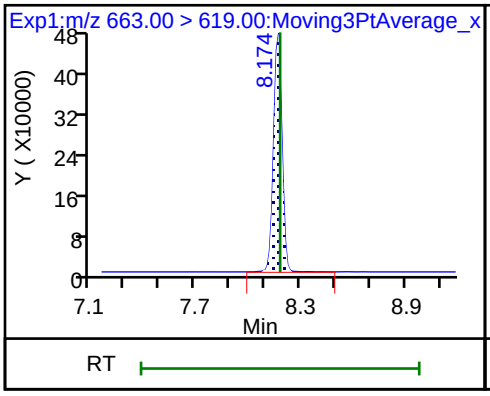
66 PFDS



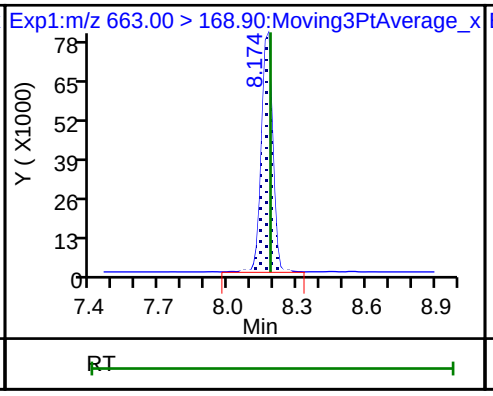
66 PFDS



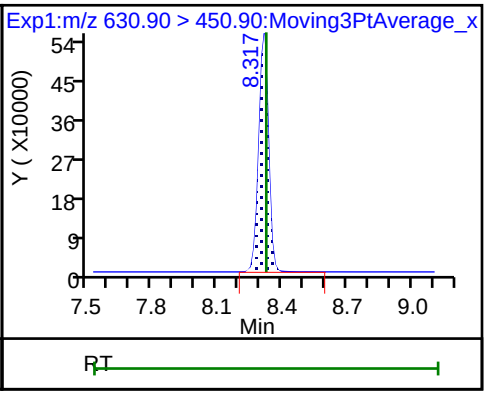
67 PFTrDA



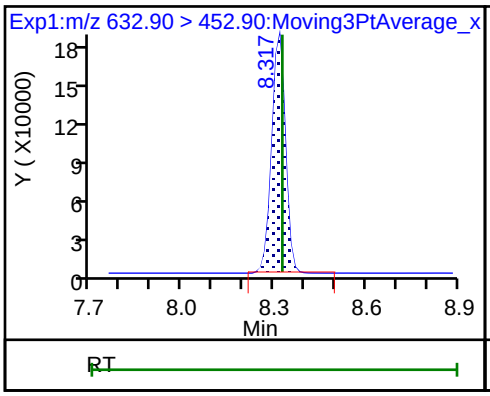
67 PFTrDA



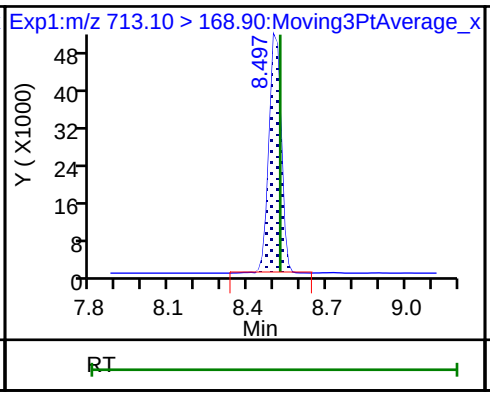
68 11ClFOS



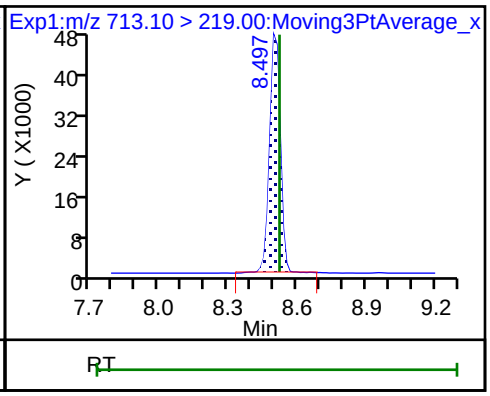
68 11ClFOS



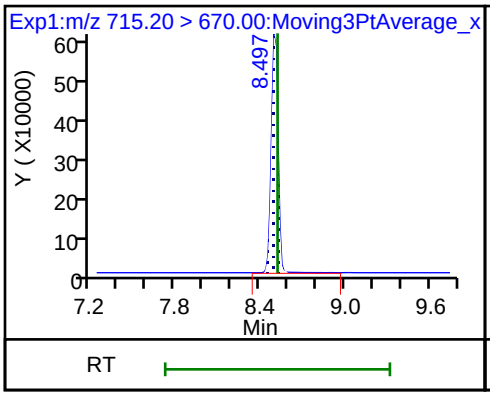
70 PFTeDA



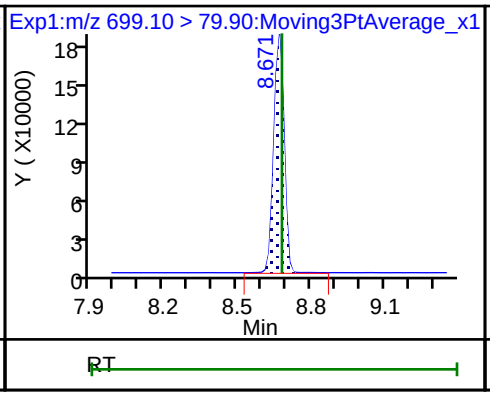
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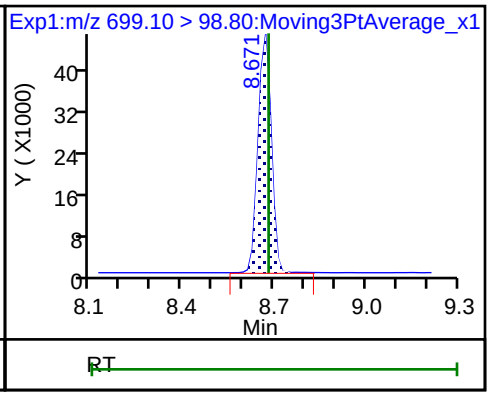
D 69 13C2 PFTeDA



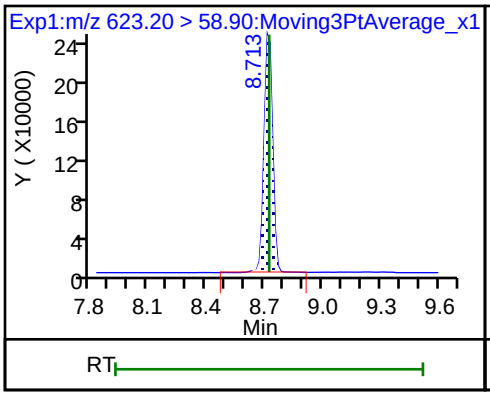
73 PFDoS



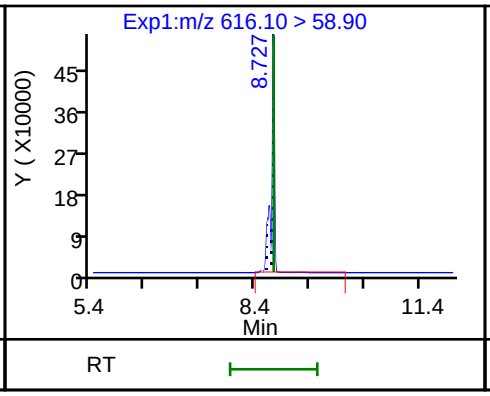
73 PFDoS



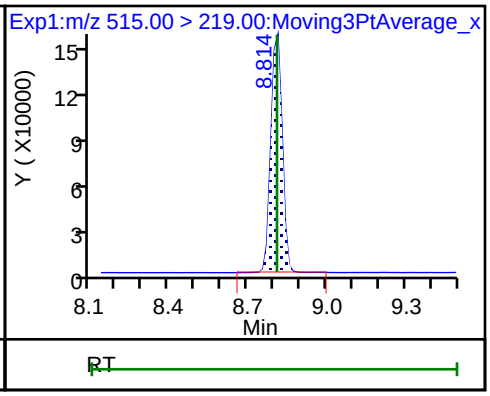
D 71 d7-N-Me-FOSE



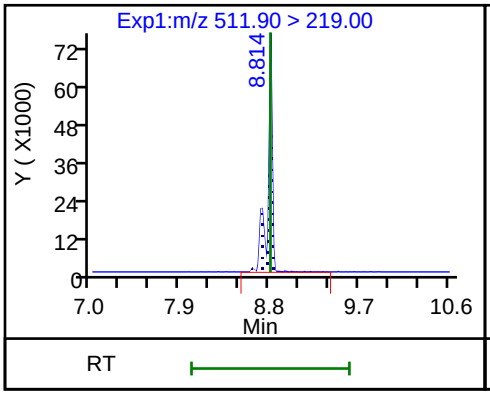
72 N-MeFOSE-M



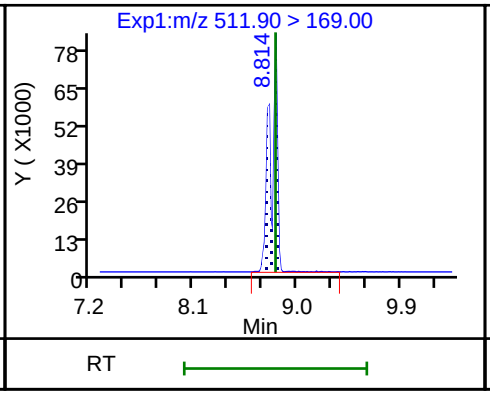
D 74 d3-NMePFOSA



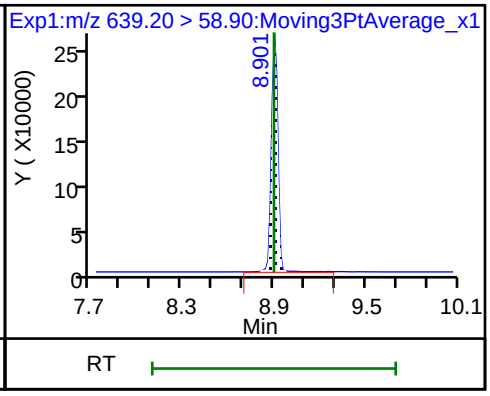
75 NMeFOSA



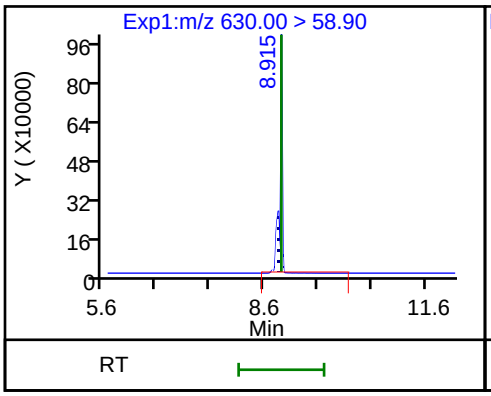
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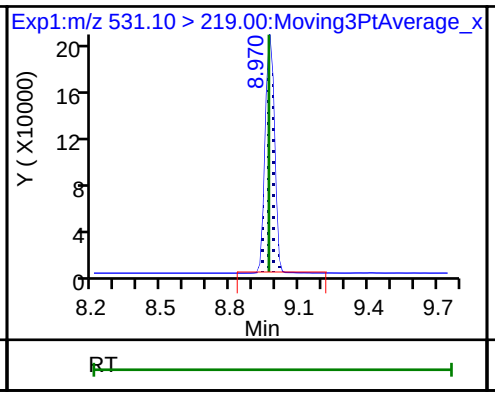
D 76 d9-N-EtFOSE



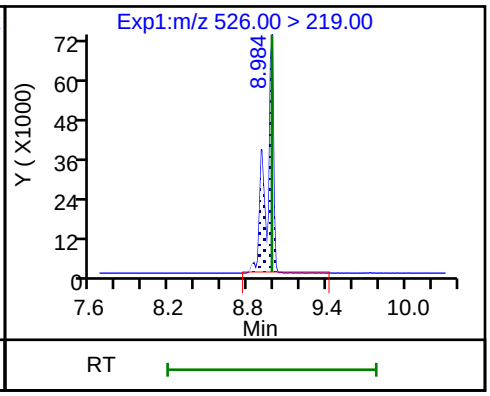
77 N-EtFOSE-M



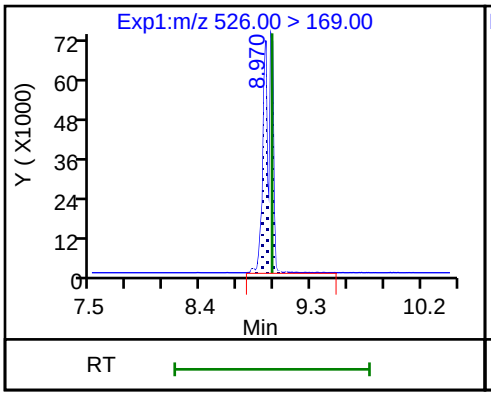
D 78 d5-NEtPFOSA



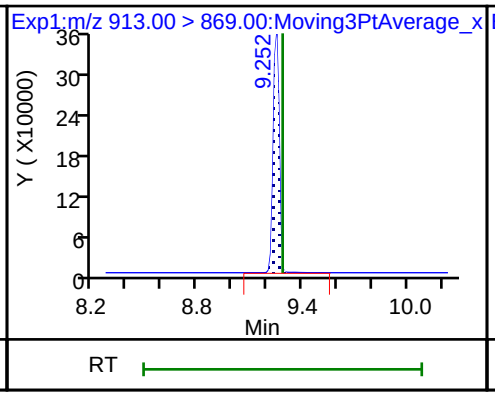
79 N-EtFOSA-M



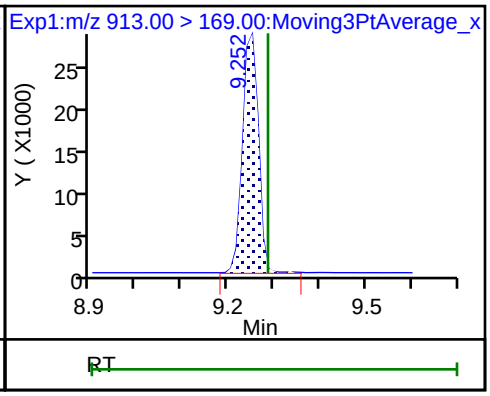
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

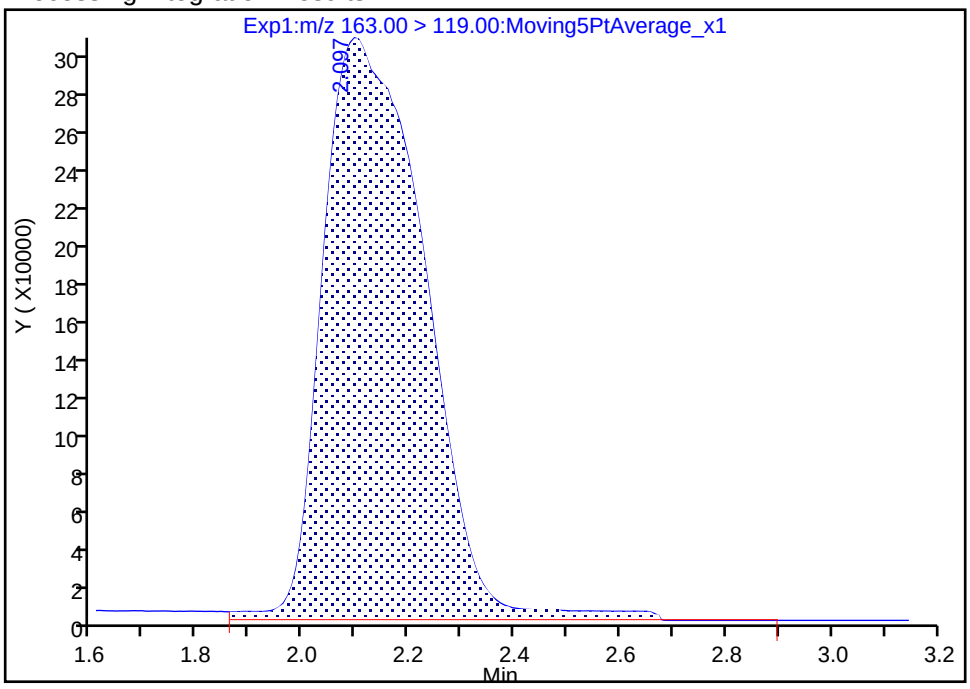
Data File:	\\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-04.d				
Injection Date:	02-Feb-2026 12:24:27	Instrument ID:	30575		
Lims ID:	IC CAL 4				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	5	Worklist Smp#:	4
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

1 Perfluoropropionic acid, CAS: 422-64-0

Signal: 1

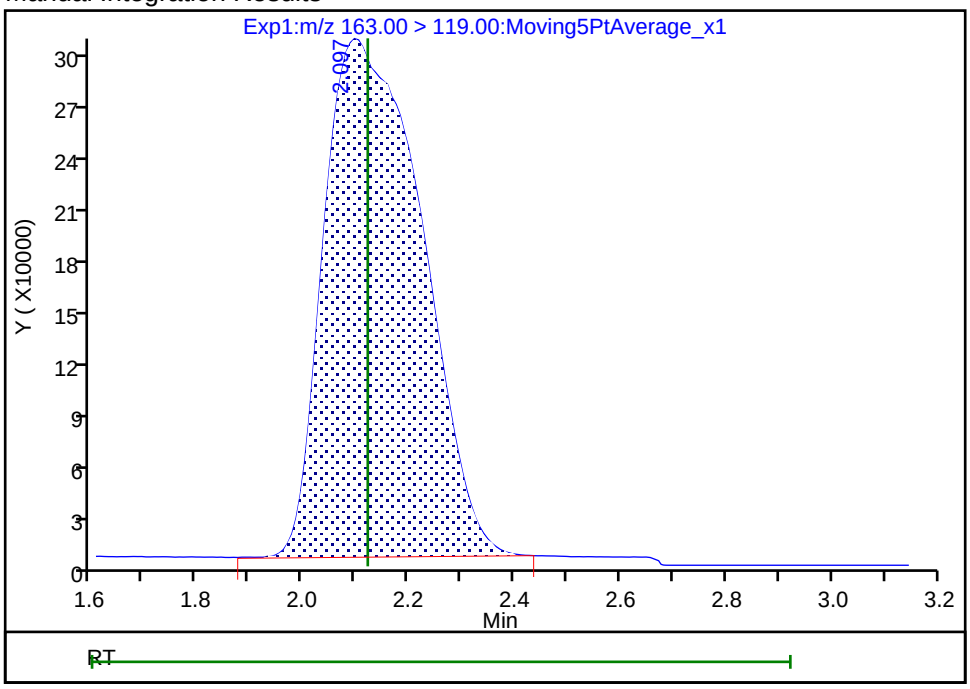
Processing Integration Results

RT: 2.10
Area: 4051194
Amount: 5.076424
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 3811752
Amount: 4.817686
Amount Units: ng/ml



Reviewer: P7EB, 02-Feb-2026 15:06:23 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-05.d
Lims ID: ICISAV CAL 5
Client ID:
Sample Type: ICISAV Calib Level: 5
Inject. Date: 02-Feb-2026 12:38:03 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: ICISAV CAL 5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:57:08 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: P7EB Date: 02-Feb-2026 15:08:22
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 2 13C3PFPrA										
166.00 > 121.00	2.114	2.114	0.0	0.487	1600708	1.92		96.1	882	
1 Perfluoropropionic acid										
163.00 > 119.00	2.098	2.098	0.0	0.993	9840827	13.2		106	7138	
5 PFBA										
212.80 > 168.90	4.330	4.330	0.0	0.998	6620870	5.32		106	13158	
D 6 13C4-PFBA										
216.80 > 171.90	4.338	4.338	0.0	1.000	2649798	1.91		95.4	8512	
* 7 13C3PFBA										
216.00 > 172.00	4.338	4.338	0.0		2299031	2.00			7678	
9 PFMPA										
229.00 > 84.90	4.627	4.627	0.0	0.934	2819217	2.67		107	6875	
10 3:3 FTCA										
241.00 > 177.00	4.637	4.637	0.0	0.936	272966	5.36	Target=1.27	107	1486	
241.00 > 117.00	4.637	4.637	0.0	0.936	213344		1.28(0.63-1.90)	107	1230	
D 11 13C5 PFPeA										
268.30 > 223.00	4.955	4.955	0.0	0.912	1975768	2.00		99.8	4708	
12 PFPA										
263.00 > 219.00	4.968	4.968	0.0	1.003	2969518	2.64		106	4427	
13 PFMBA										
279.00 > 85.10	5.112	5.112	0.0	1.032	3352567	2.63		105	29293	
15 4:2FTS										
327.10 > 307.00	5.240	5.240	0.0	1.000	1921085	4.86	Target=1.60	104	9803	
327.10 > 80.90	5.240	5.240	0.0	1.000	1152231		1.67(0.80-2.40)	104	8844	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.240	5.240	0.0	0.811	1069212	4.64		98.9	5663	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.378	5.378	0.0	0.993	1456527	2.50	Target=1.47	100	3593	
295.00 > 84.90	5.378	5.378	0.0	0.993	929898		1.57(0.74-2.21)	100	3989	
D 17 13C5 PFHxA										
318.00 > 273.00	5.418	5.418	0.0	0.997	2963040	2.12		106	6665	
* 18 13C2 PFHxA										
315.10 > 270.00	5.432	5.432	0.0		6034726	5.00			22821	
19 PFHxA										
313.00 > 269.00	5.432	5.432	0.0	1.003	3454282	2.43	Target=11.71	97.1	6129	
313.00 > 118.90	5.432	5.432	0.0	1.003	286040		12.08(5.85-17.56)	97.1	1565	
22 5:3 FTCA										
341.00 > 237.10	5.500	5.500	0.0	1.015	2224438	12.3	Target=0.90	98.1	2438	
341.00 > 217.00	5.500	5.500	0.0	1.015	2493511		0.89(0.45-1.35)	98.1	3143	
21 PFBS										
298.70 > 79.90	5.568	5.568	0.0	1.000	2534754	2.38	Target=2.89	107	9360	
298.70 > 98.80	5.568	5.568	0.0	1.000	836283		3.03(1.44-4.33)	107	2882	
D 20 13C3 PFBS										
302.10 > 79.90	5.568	5.568	0.0	0.862	2189227	1.89		101	10143	
28 FBSA										
297.90 > 78.00	5.582	5.582	0.0	1.003	2406134	2.57		103	2373	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.611	5.611	0.0	1.033	1953115	2.05		102	7456	
24 HFPO-DA										
284.90 > 168.90	5.611	5.611	0.0	1.000	1759843	1.88	Target=2.42	100	2813	
284.90 > 184.90	5.611	5.611	0.0	1.000	758103		2.32(1.21-3.62)	100	2253	
25 PFEESA										
314.80 > 134.90	5.791	5.791	0.0	1.069	6974665	2.25	Target=13.09	101	13344	
314.80 > 82.90	5.791	5.791	0.0	1.069	524944		13.29(6.55-19.64)	101	2682	
27 PFHpA										
363.10 > 319.00	5.845	5.845	0.0	1.000	3529873	2.51	Target=2.35	100	4594	
363.10 > 169.00	5.845	5.845	0.0	1.000	1480717		2.38(1.17-3.52)	100	5001	
D 26 13C4 PFHpA										
367.10 > 322.00	5.845	5.845	0.0	1.076	2874716	2.10		105	5727	
29 ADONA										
376.90 > 250.90	5.988	5.988	0.0	1.067	7884700	2.47	Target=1.85	104	21734	
376.90 > 84.80	5.988	5.988	0.0	1.067	4272045		1.85(0.92-2.77)	104	7819	
32 PFPeS										
349.10 > 79.90	6.033	6.033	0.0	0.934	3022539	2.62	Target=3.28	112	13124	
349.10 > 98.90	6.033	6.033	0.0	0.934	902163		3.35(1.64-4.92)	112	1813	
31 6:2FTS										
427.10 > 407.00	6.033	6.033	0.0	1.000	1525478	5.34	Target=1.80	112	2901	
427.10 > 80.90	6.033	6.033	0.0	1.000	809790		1.88(0.90-2.70)	112	3539	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.033	6.033	0.0	0.934	652981	4.77		100	3116	
33 BTS										
280.00 > 147.00	6.189	6.189	0.0	0.958	4776274	2.53		103	7011	
D 35 13C8 PFOA										
421.10 > 376.00	6.233	6.233	0.0	1.000	3501614	1.85		92.7	8745	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.233	6.233	0.0		9441981	5.00			10777	
36 PFOA										
413.00 > 369.00	6.233	6.233	0.0	1.000	3509912	2.64	Target=2.11	106	156434	
413.00 > 169.00	6.233	6.233	0.0	1.000	1621732		2.16(1.06-3.17)	106	344502	
39 7:3 FTCA										
441.00 > 316.90	6.296	6.296	0.0	1.162	1950080	11.8	Target=0.82	94.5	1753	
441.00 > 336.90	6.296	6.296	0.0	1.162	2473943		0.79(0.41-1.23)	94.5	1775	
40 PFHxS										
398.70 > 79.90	6.460	6.460	0.0	1.000	2709799	2.41	Target=3.44	106	3724	
398.70 > 98.90	6.448	6.460	-0.012	0.998	784513		3.45(1.72-5.16)	106	1348	
* 38 18O2 PFHxS										
403.00 > 83.90	6.460	6.460	0.0		1728553	1.90			5627	
D 37 13C3 PFHxS										
402.10 > 79.90	6.460	6.460	0.0	1.000	1662870	1.82		96.1	8799	
D 42 13C9 PFNA										
472.10 > 427.00	6.620	6.620	0.0	1.000	2867428	1.85		92.3	9233	
* 41 13C5 PFNA										
468.00 > 423.00	6.620	6.620	0.0		3092964	2.00			6724	
43 PFNA										
463.00 > 419.00	6.620	6.620	0.0	1.000	3381913	2.69	Target=2.84	108	470497	
463.00 > 219.00	6.620	6.620	0.0	1.000	1176757		2.87(1.42-4.26)	108	239355	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.790	6.790	0.0	1.051	630560	4.73		98.6	3502	
45 8:2FTS										
527.10 > 507.00	6.790	6.790	0.0	1.000	1094614	5.08	Target=1.52	106	3927	
527.10 > 80.80	6.790	6.790	0.0	1.000	695540		1.57(0.76-2.28)	106	940	
46 PFECHS										
461.00 > 381.00	6.824	6.824	0.0	1.056	680486	2.33	Target=0.31	101	196209	
461.00 > 99.00	6.824	6.824	0.0	1.056	2271604		0.30(0.16-0.47)	101	6092	
47 PFHpS										
449.00 > 79.90	6.857	6.857	0.0	0.944	2407449	2.61	Target=3.44	109	12440	
449.00 > 98.80	6.857	6.857	0.0	0.944	682704		3.53(1.72-5.16)	109	3567	
53 FHxSA										
397.90 > 78.00	6.869	6.869	0.0	1.063	3219342	2.68		107	2185	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.940	6.940	0.0	0.955	1639421	5.05		101	2489	
49 NMeFOSAA										
570.10 > 419.00	6.940	6.940	0.0	1.000	916410	2.50	Target=1.84	100	1085	
570.10 > 483.00	6.940	6.940	0.0	1.000	524006		1.75(0.92-2.76)	100	894	
D 50 13C6 PFDA										
519.10 > 474.10	7.015	7.015	0.0	1.000	3149568	1.90		94.8	7714	
* 52 13C2 PFDA										
515.10 > 470.10	7.015	7.015	0.0		3257030	2.00			9271	
51 PFDA										
512.90 > 469.00	7.015	7.015	0.0	1.000	3423534	2.60	Target=4.61	104	4177	
512.90 > 219.00	7.015	7.015	0.0	1.000	753916		4.54(2.31-6.92)	104	3284	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.124	7.124	0.0	0.980	1490298	5.20		104	3398	
55 NEtFOSAA										
584.20 > 419.10	7.124	7.124	0.0	1.000	603451	2.47	Target=1.44	98.6	485	
584.20 > 526.00	7.124	7.124	0.0	1.000	438098		1.38(0.72-2.16)	98.6	114538	
58 PFOS										
498.90 > 79.90	7.255	7.255	0.0	0.998	2685914	2.43	Target=4.21	105	305429	
498.90 > 98.80	7.267	7.255	0.012	1.000	629891		4.26(2.11-6.32)	105	1244	
D 56 13C8 PFOS										
507.10 > 79.90	7.267	7.267	0.0	1.000	1466647	1.82		94.8	477	
* 57 13C4 PFOS										
502.80 > 79.90	7.267	7.267	0.0		1670721	1.92			4911	
D 59 13C7 PFUnA										
570.00 > 525.10	7.409	7.409	0.0	1.056	3682140	1.84		92.2	5930	
60 PFUnA										
563.10 > 519.00	7.409	7.409	0.0	1.000	3531904	2.59	Target=5.05	104	5511	
563.10 > 269.10	7.409	7.409	0.0	1.000	675282		5.23(2.52-7.57)	104	2617	
61 9ClFOS										
530.80 > 351.00	7.566	7.566	0.0	1.041	5476822	2.51	Target=3.14	107	20699	
532.80 > 353.00	7.566	7.566	0.0	1.041	1794941		3.05(1.57-4.71)	107	11542	
62 PFNS										
548.80 > 79.90	7.656	7.656	0.0	1.054	2266375	2.57	Target=3.68	107	8980	
548.80 > 98.80	7.666	7.656	0.010	1.055	611748		3.70(1.84-5.52)	107	3256	
D 81 PFDoA										
615.10 > 570.00	7.801	7.801	0.0	1.112	3371420	1.90		95.2	20316	
63 PFDoA										
613.10 > 569.00	7.801	7.801	0.0		3855950	2.56	Target=5.59	103	5301	
613.10 > 319.00	7.792	7.801	-0.009		681001		5.66(2.80-8.39)	103	2854	
D 65 13C8 FOSA										
506.10 > 77.80	7.957	7.957	0.0	1.095	1914006	1.92		96.0	4978	
64 PFOSA										
498.10 > 77.90	7.947	7.947	0.0	0.999	2300012	2.62	Target=41.61	105	443202	
498.10 > 478.00	7.957	7.947	0.010	1.000	52961		43.43(20.81-62.42)	105	167	
66 PFDS										
599.00 > 79.90	8.031	8.031	0.0	1.105	2293186	2.56	Target=3.58	106	12869	
599.00 > 98.80	8.031	8.031	0.0	1.105	648161		3.54(1.79-5.38)	106	2925	
67 PFTrDA										
663.00 > 619.00	8.170	8.170	0.0	0.962	4138235	2.59	Target=5.80	104	9273	
663.00 > 168.90	8.170	8.170	0.0	0.962	718269		5.76(2.90-8.70)	104	6104	
68 11ClFOS										
630.90 > 450.90	8.314	8.314	0.0	1.144	4307749	2.55	Target=3.03	108	25570	
632.90 > 452.90	8.314	8.314	0.0	1.144	1406460		3.06(1.51-4.55)	108	8312	
70 PFTeDA										
713.10 > 168.90	8.494	8.494	0.0	1.000	400166	2.43	Target=1.08	97.2	1857	
713.10 > 219.00	8.494	8.494	0.0	1.000	372298		1.07(0.54-1.62)	97.2	2161	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.494	8.494	0.0	1.211	1886419	1.93		96.5	3559	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.667	8.667	0.0	1.193	1404830	2.65	Target=4.08	109	11078	
699.10 > 98.80	8.667	8.667	0.0	1.193	336811		4.17(2.04-6.11)	109	4535	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.723	8.723	0.0	1.200	711008	4.87		97.4	647	
72 N-MeFOSE-M										
616.10 > 58.90	8.737	8.737	0.0	1.002	4987990	13.1		104	11007	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.809	8.809	0.0	1.212	434116	1.92		95.8	3206	
75 NMeFOSA										
511.90 > 219.00	8.809	8.809	0.0	1.000	570195	2.57	Target=0.70	103	3108	
511.90 > 169.00	8.809	8.809	0.0	1.000	826503		0.69(0.35-1.06)	103	196004	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.897	8.897	0.0	1.224	708731	4.77		95.4	1169	
77 N-EtFOSE-M										
630.00 > 58.90	8.911	8.911	0.0	1.002	7426028	13.3		106	2283882	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.967	8.967	0.0	1.234	531619	1.92		96.1	2823	
79 N-EtFOSA-M										
526.00 > 219.00	8.981	8.981	0.0	1.002	641492	2.56	Target=0.80	102	5004	
526.00 > 169.00	8.981	8.981	0.0	1.002	820111		0.78(0.40-1.20)	102	4998	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.238	9.238	0.0	1.088	2196468	2.45	Target=11.76	98.2	73407	
913.00 > 169.00	9.238	9.238	0.0	1.088	185419		11.85(5.88-17.64)	98.2	5395	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL5_00036 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 17:57:09 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-05.d

Injection Date: 02-Feb-2026 12:38:03 Instrument ID: 30575

Lims ID: ICISAV CAL 5

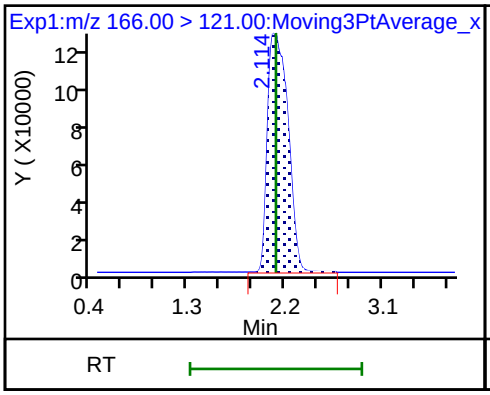
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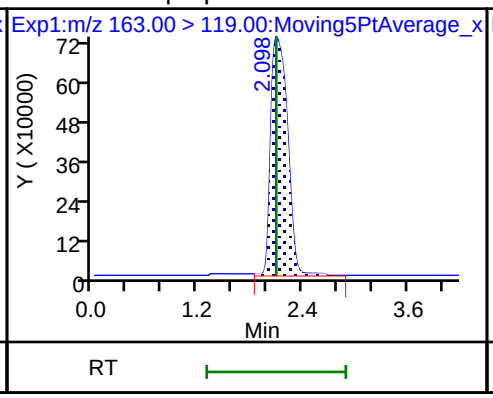
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Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

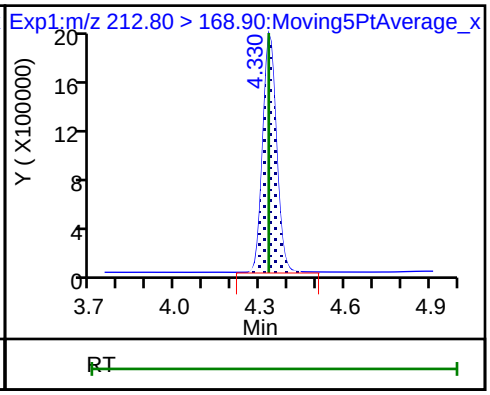
D 2 13C3PFPrA



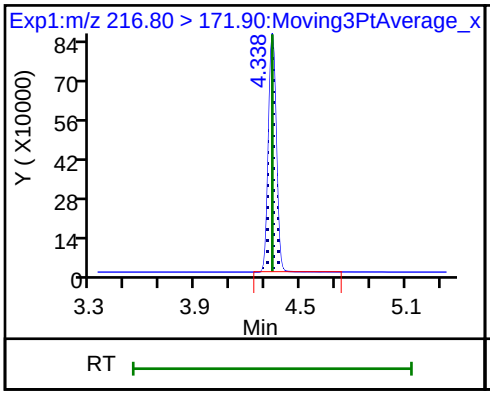
1 Perfluoropropionic acid



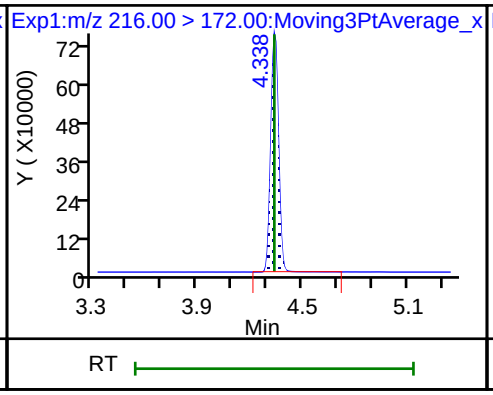
5 PFBA



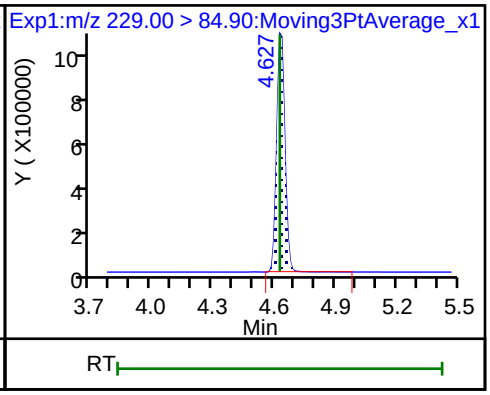
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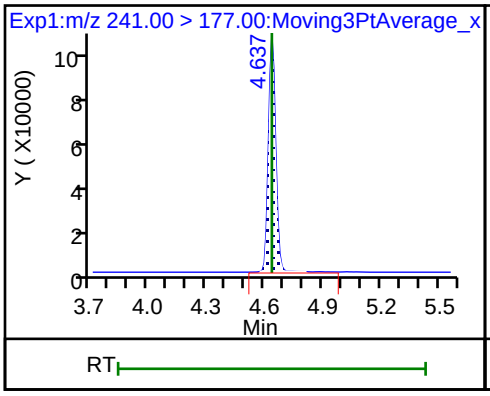
* 7 13C3PFBA



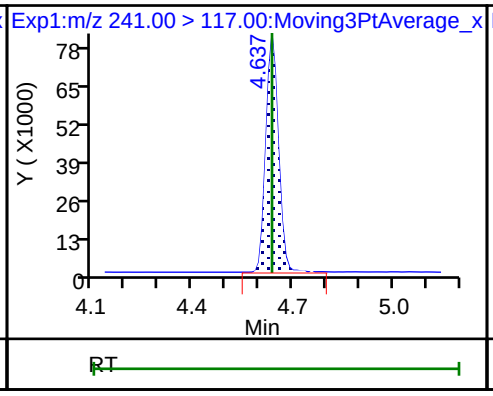
9 PFMPA



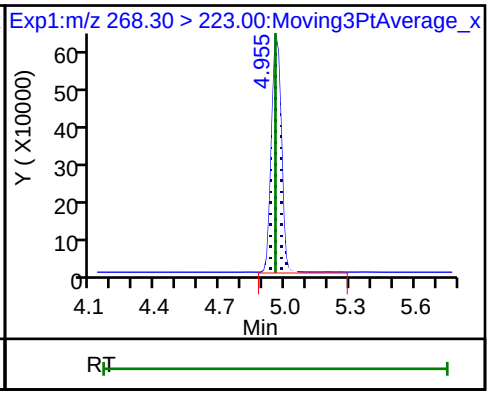
10 3:3 FTCA



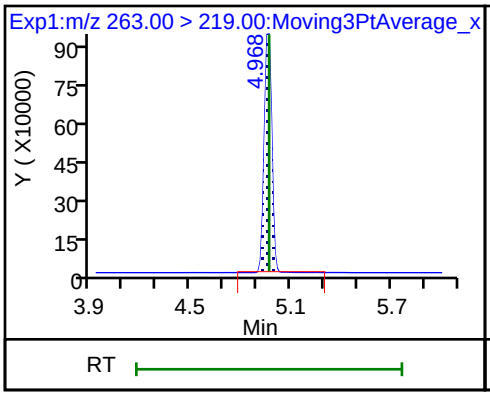
10 3:3 FTCA



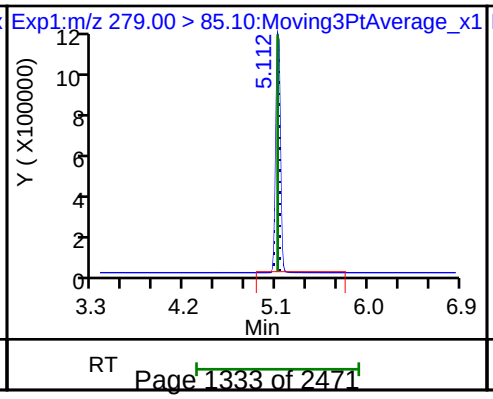
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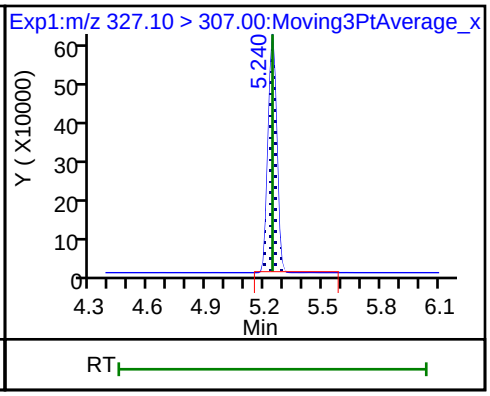
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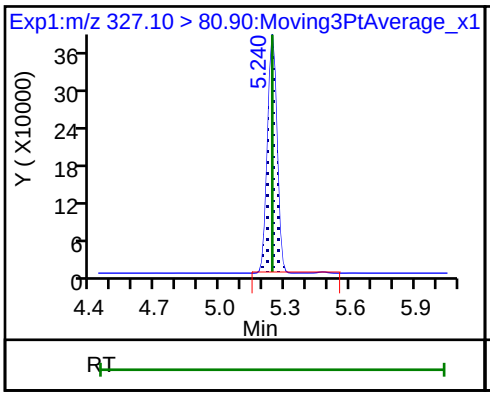
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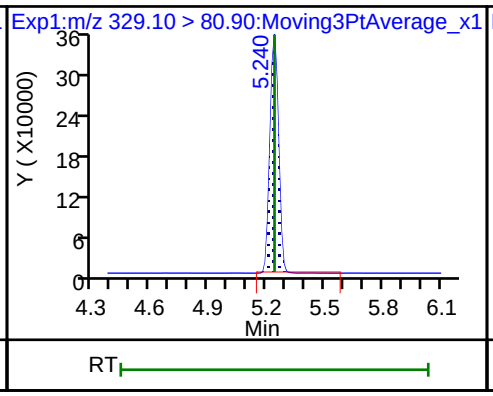
15 4:2FTS



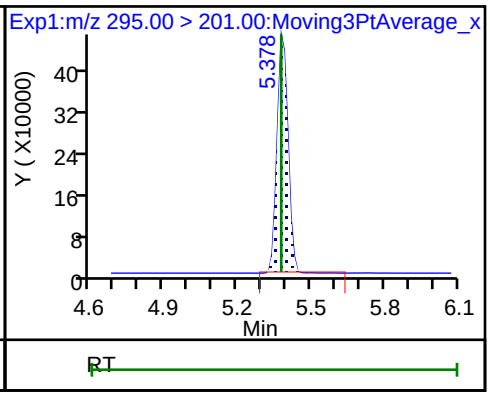
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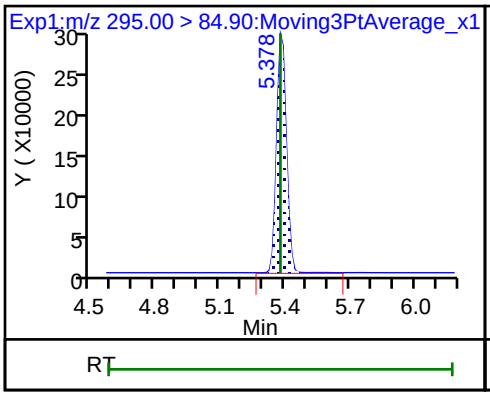
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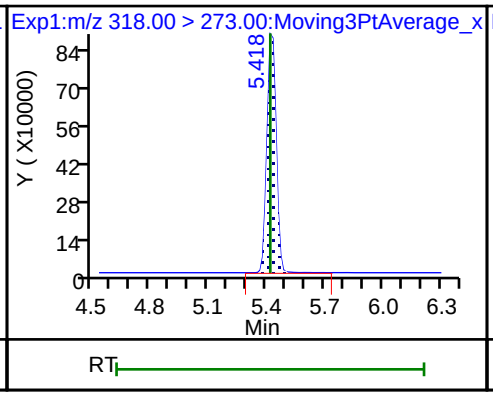
16 NFDHA



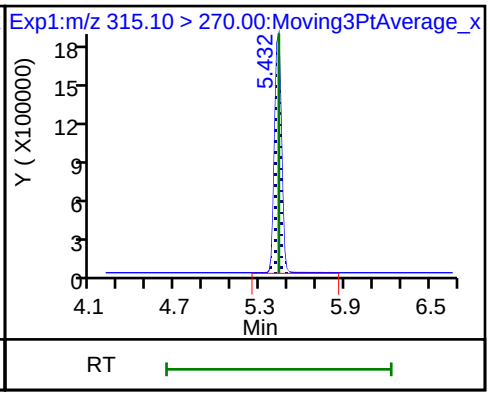
16 NFDHA



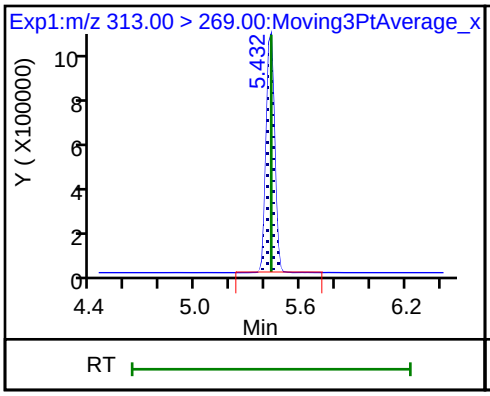
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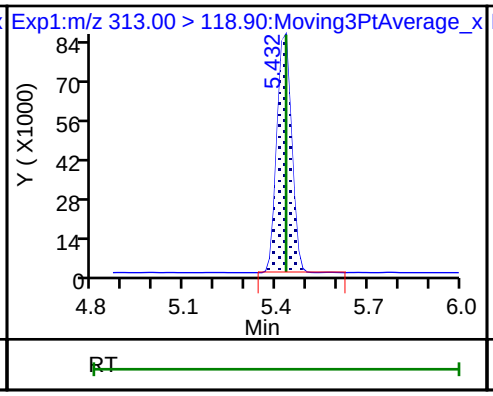
* 18 13C2 PFHxA



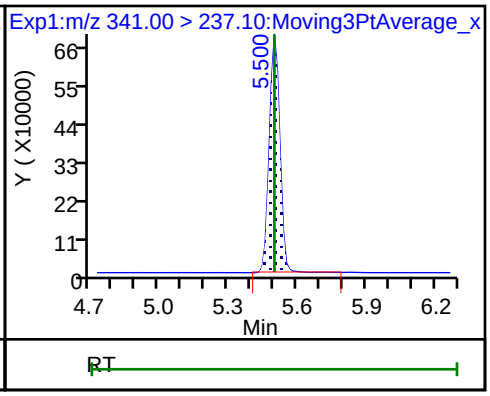
19 PFHxA



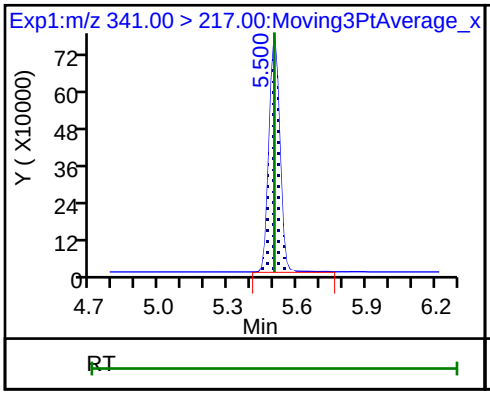
19 PFHxA



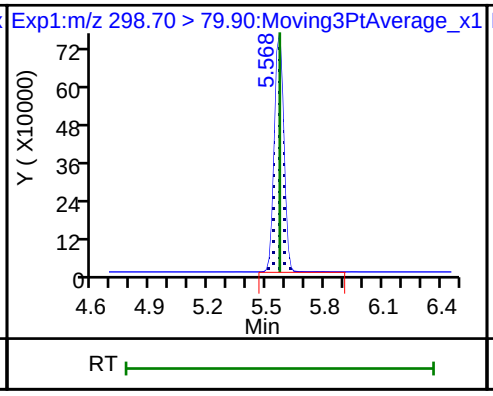
22 5:3 FTCA



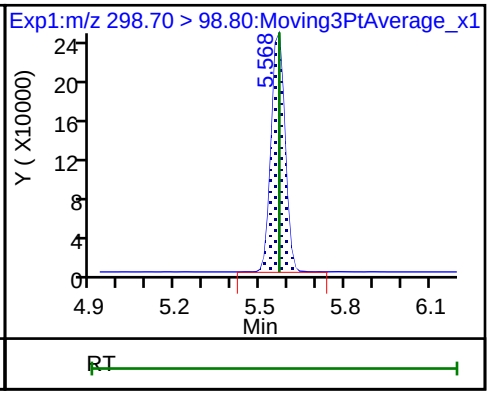
22 5:3 FTCA



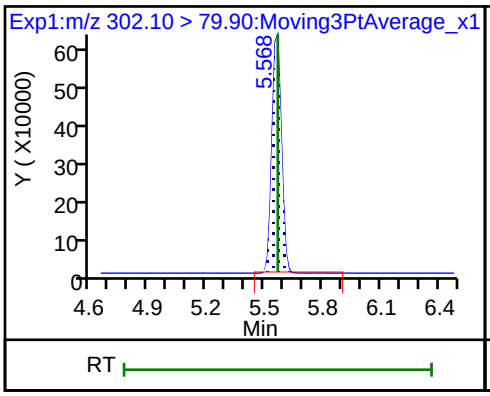
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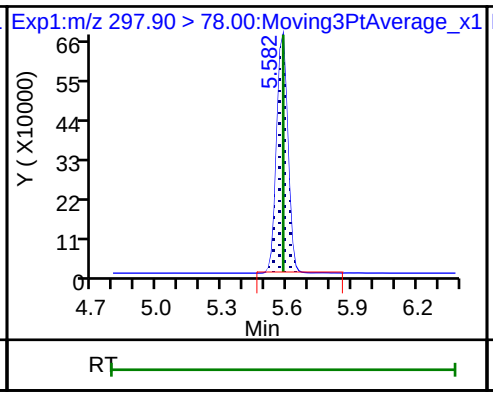
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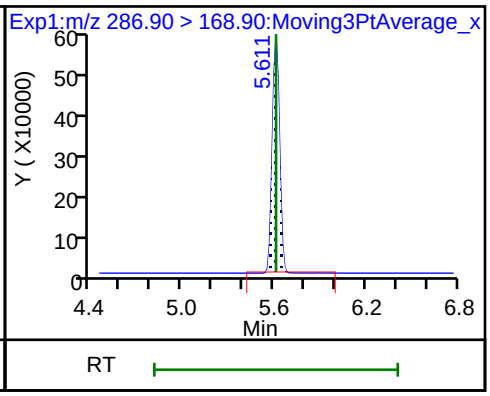
D 20 13C3 PFBS



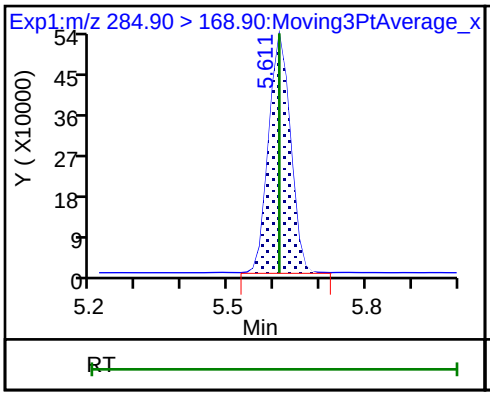
28 FBSA



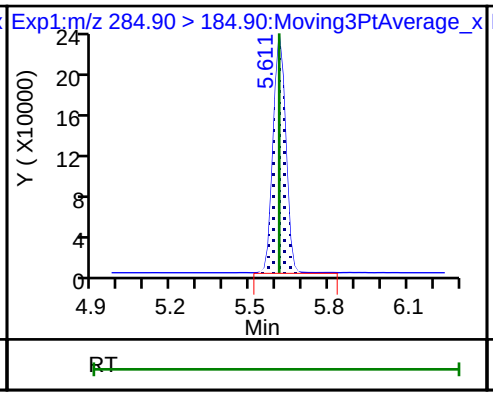
D 23 13C3 HFPO-DA



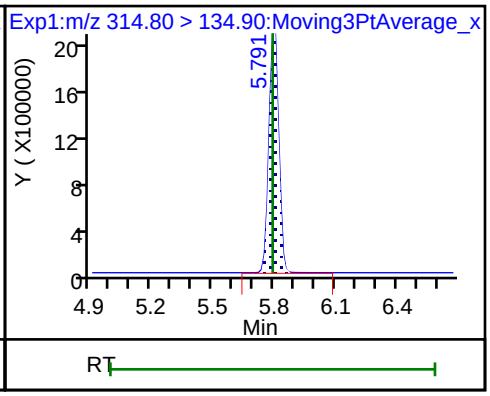
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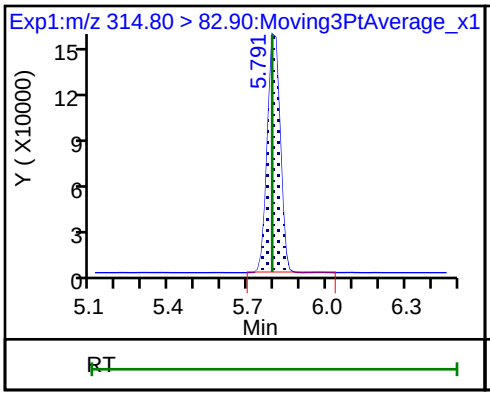
24 HFPO-DA



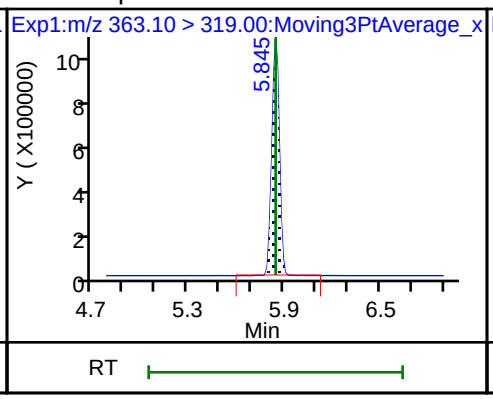
25 PFEESA



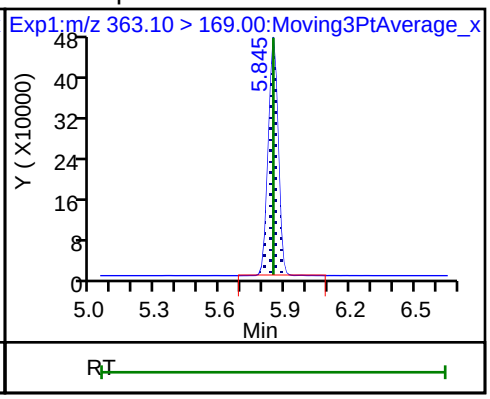
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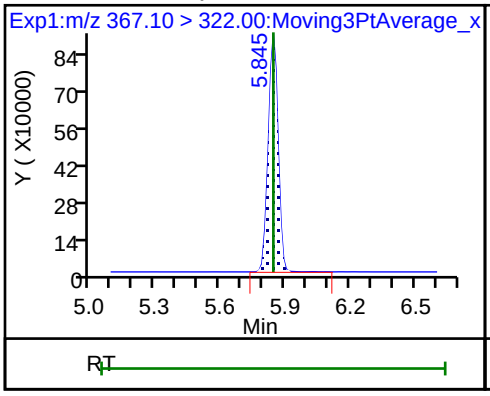
27 PFHpA



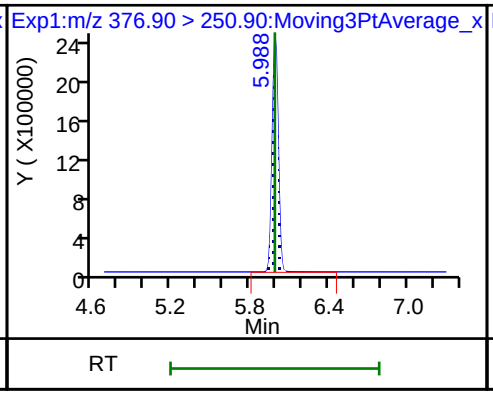
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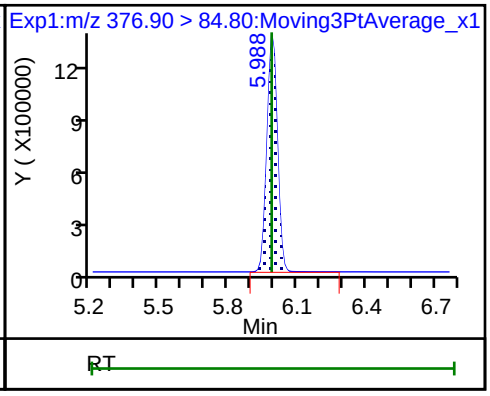
D 26 13C4 PFHpA



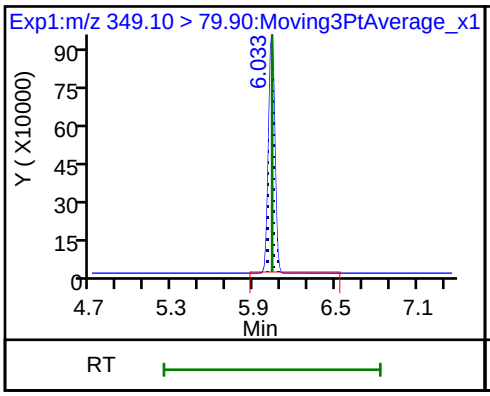
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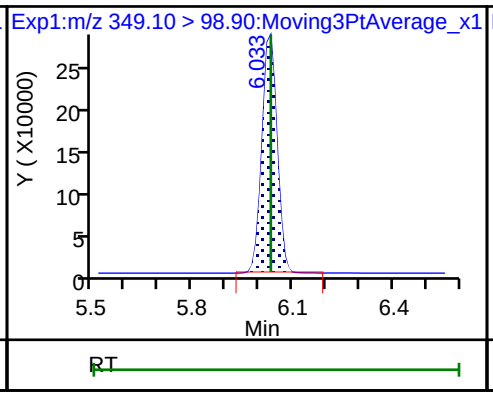
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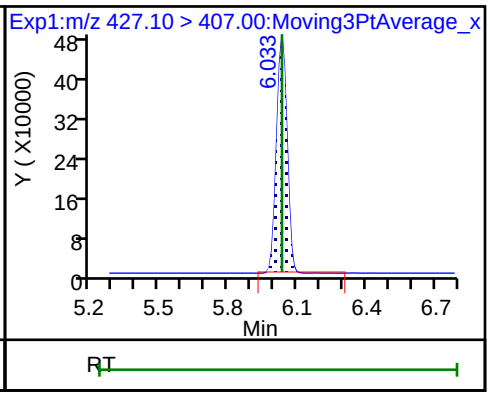
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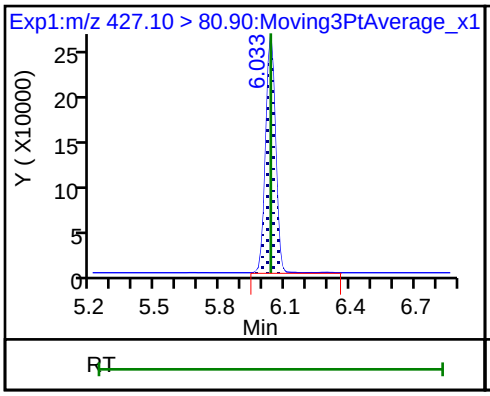
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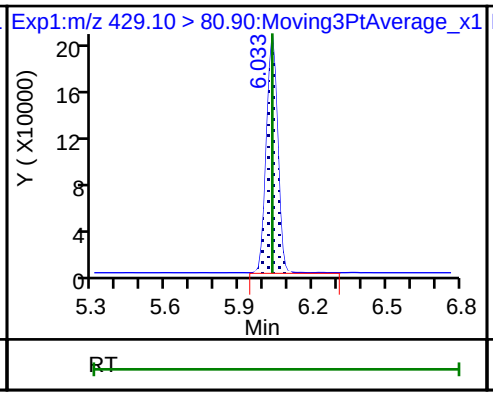
31 6:2FTS



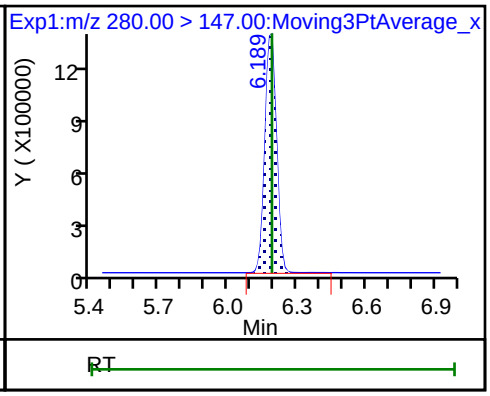
31 6:2FTS



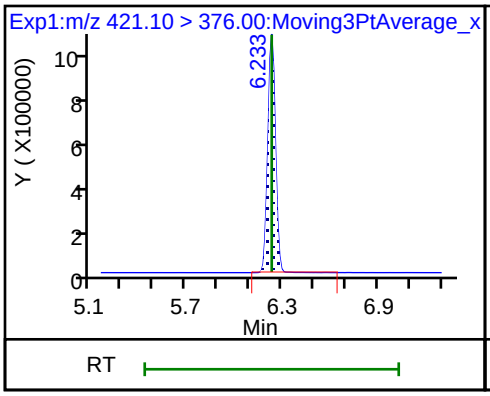
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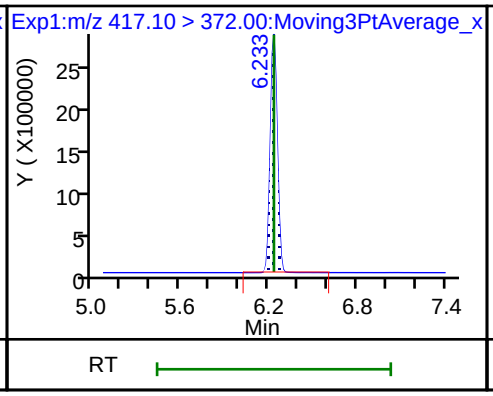
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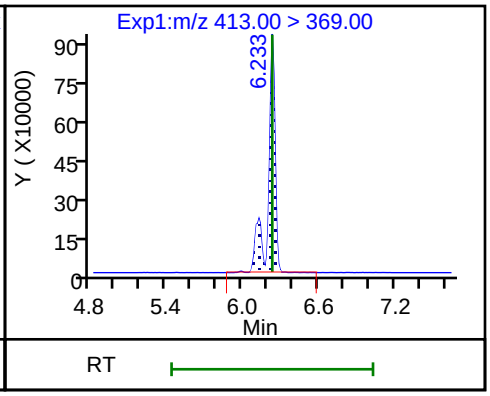
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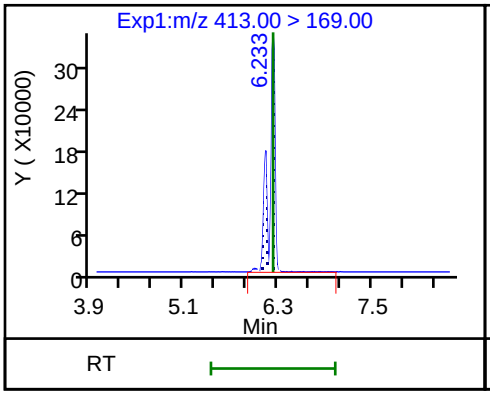
* 34 13C4 PFOA



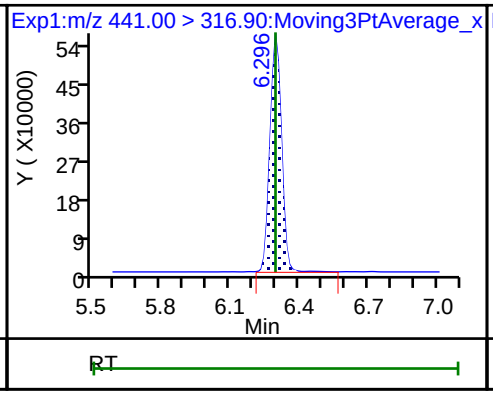
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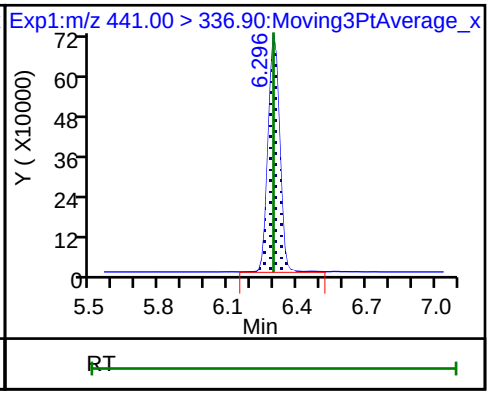
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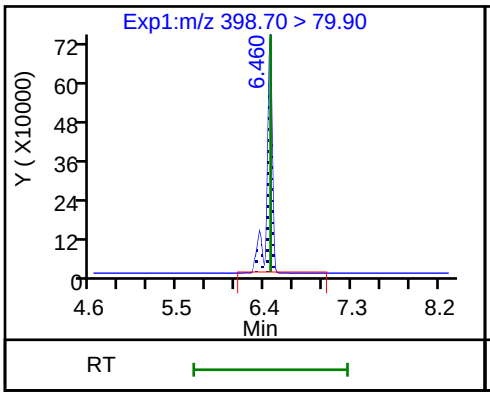
39 7:3 FTCA



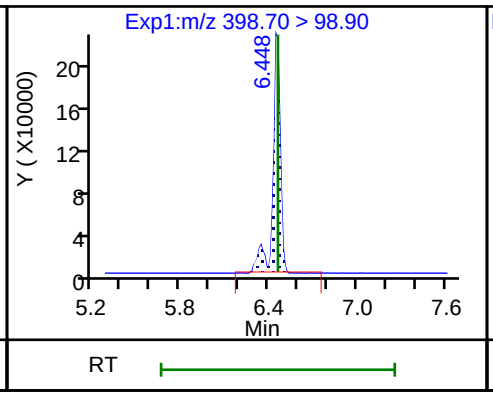
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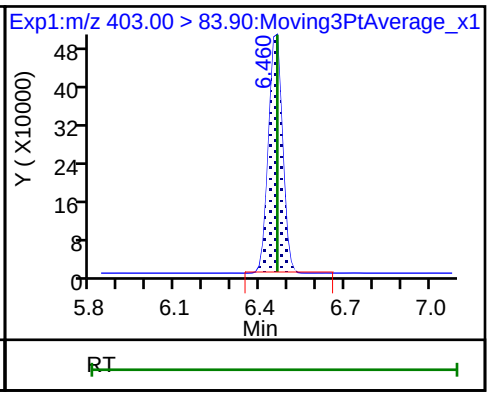
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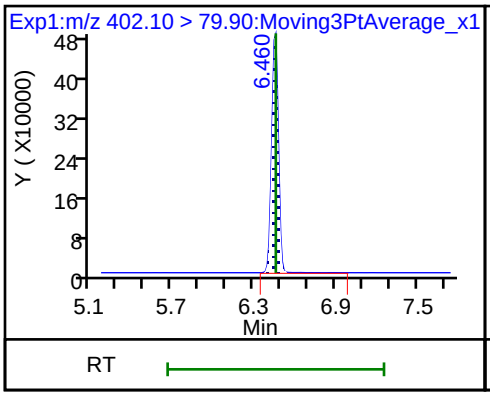
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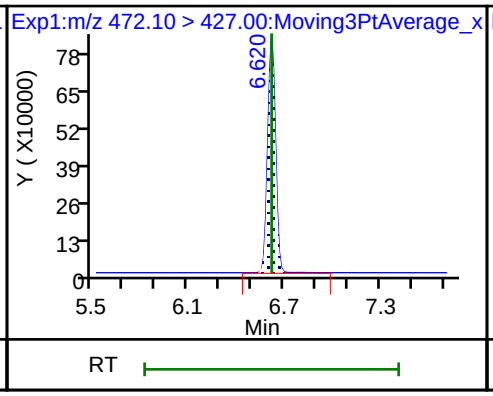
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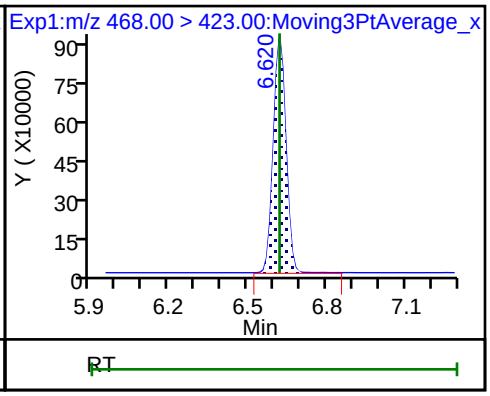
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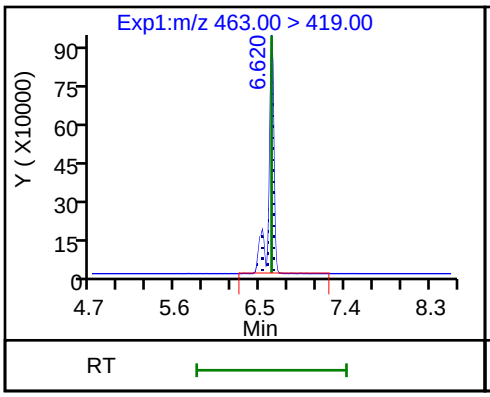
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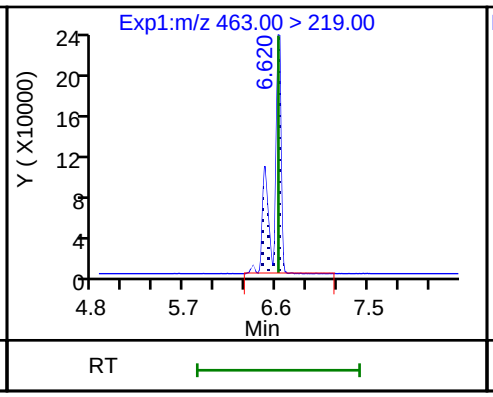
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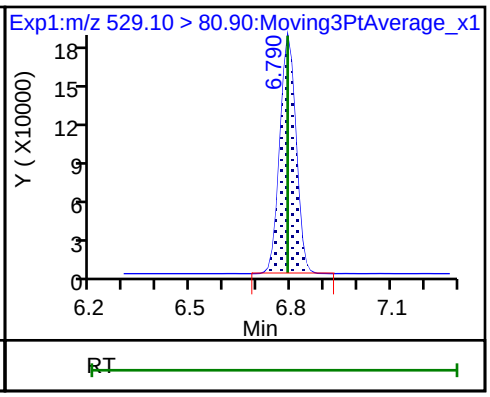
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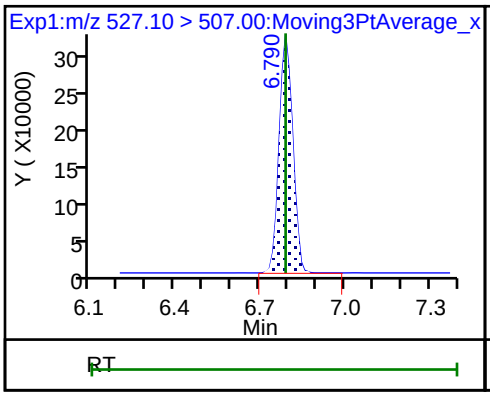
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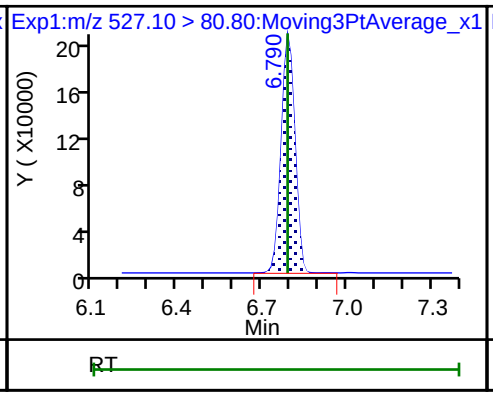
D 44 13C2-8:2FTS



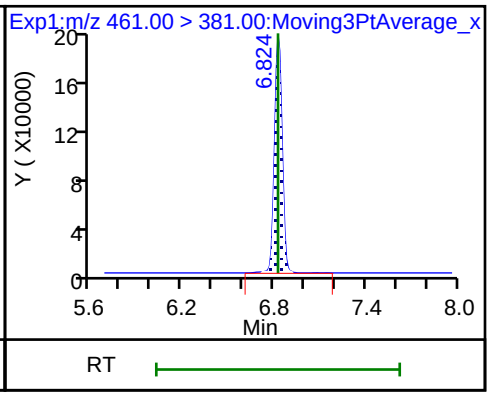
45 8:2FTS



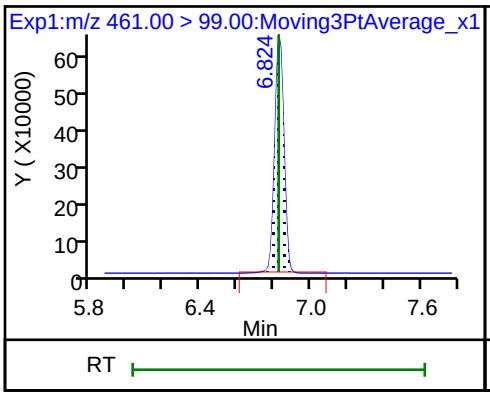
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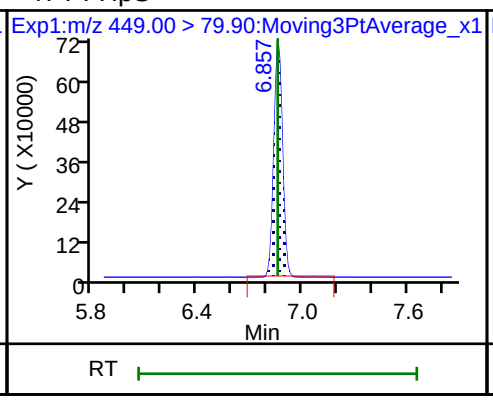
46 PFECHS



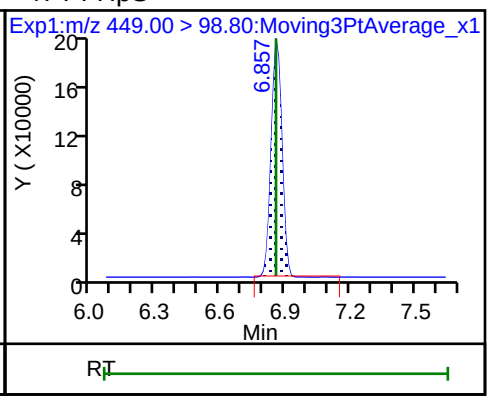
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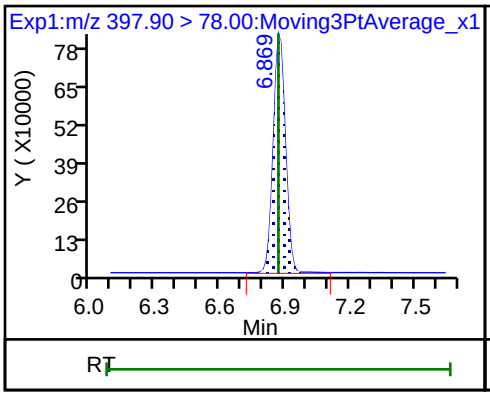
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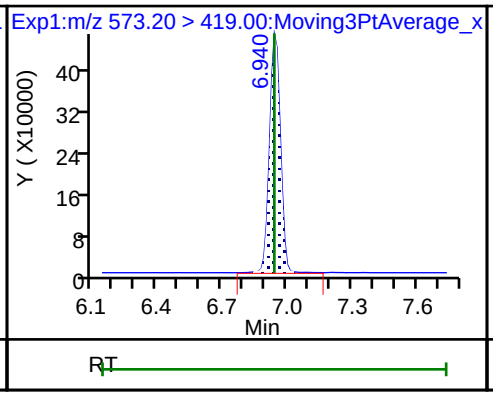
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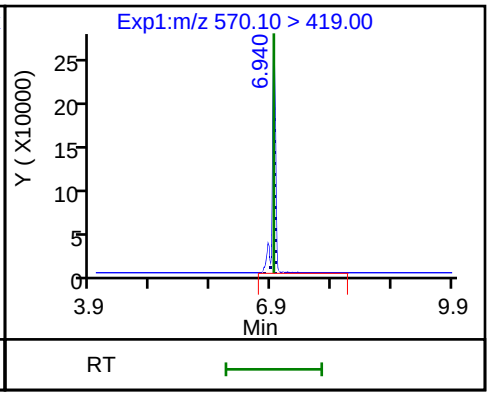
53 FHxSA



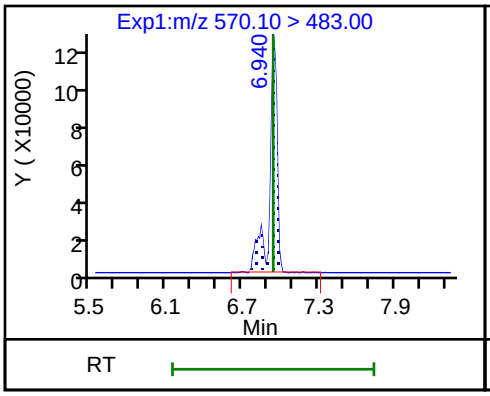
D 48 d3-NMeFOSAA



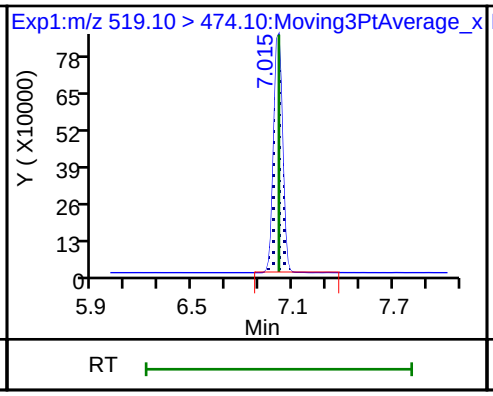
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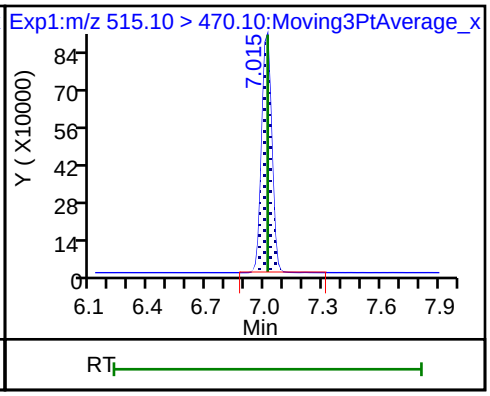
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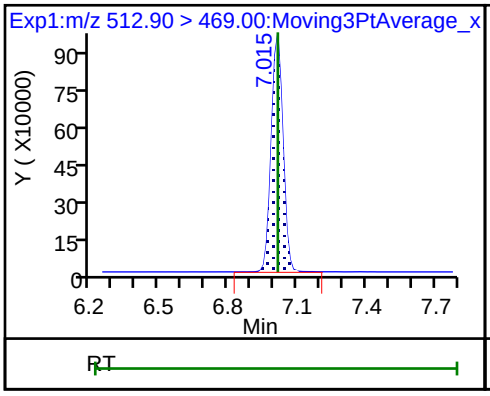
D 50 13C6 PFDA



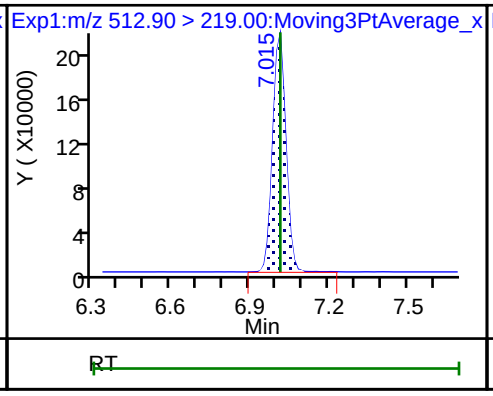
* 52 13C2 PFDA



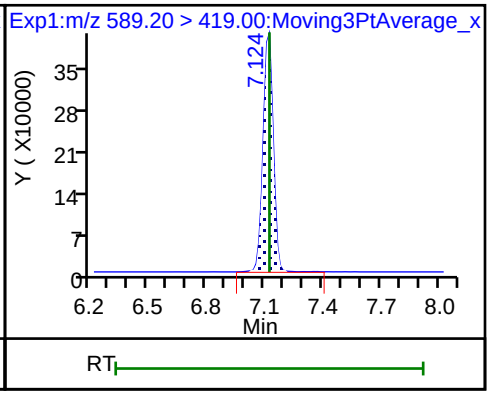
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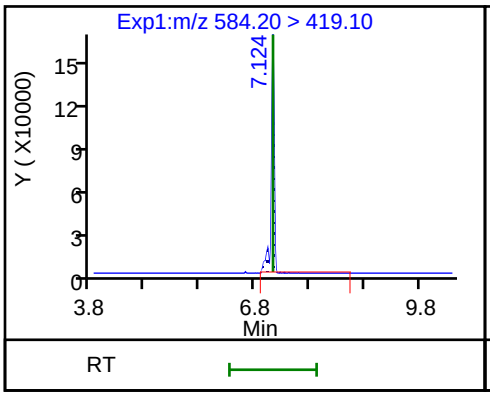
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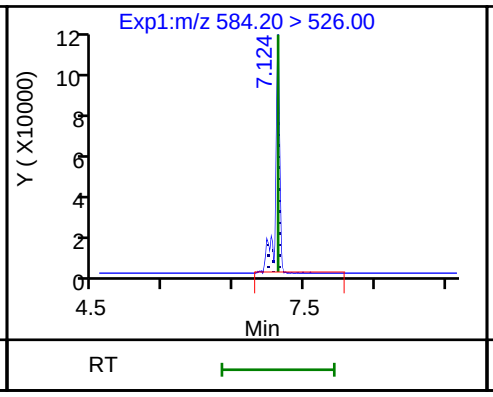
D 54 d5-NEtFOSAA



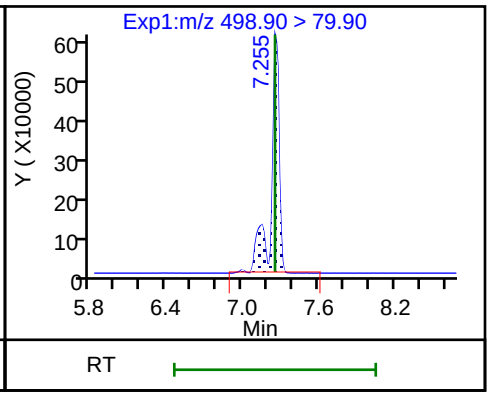
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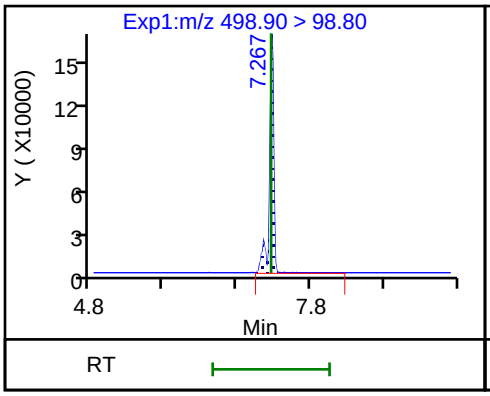
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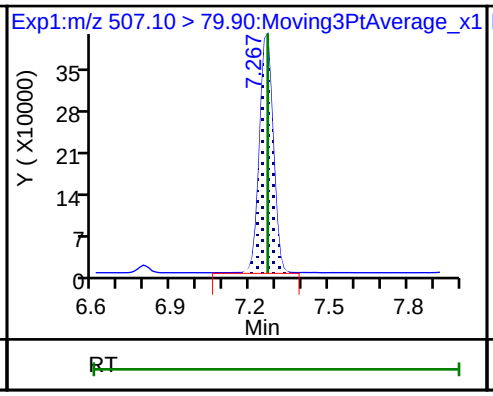
58 PFOS



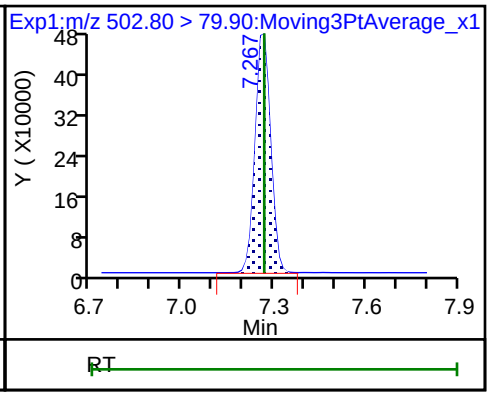
58 PFOS



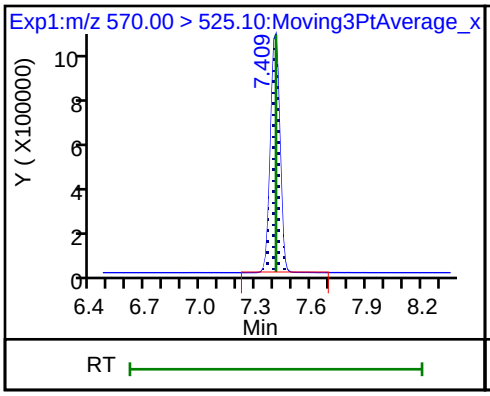
D 56 13C8 PFOS



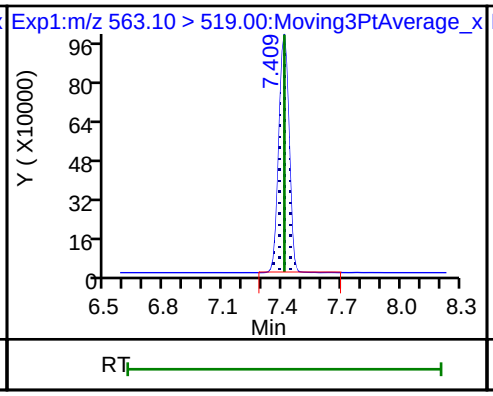
* 57 13C4 PFOS



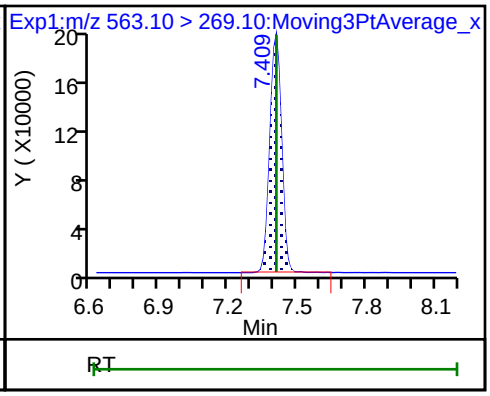
D 59 13C7 PFUnA



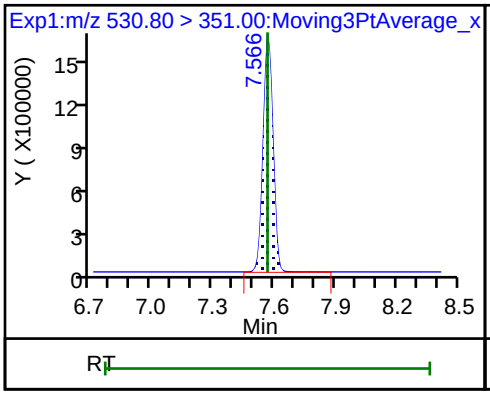
60 PFUnA



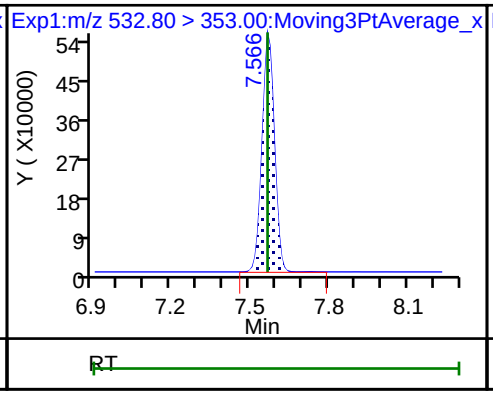
60 PFUnA



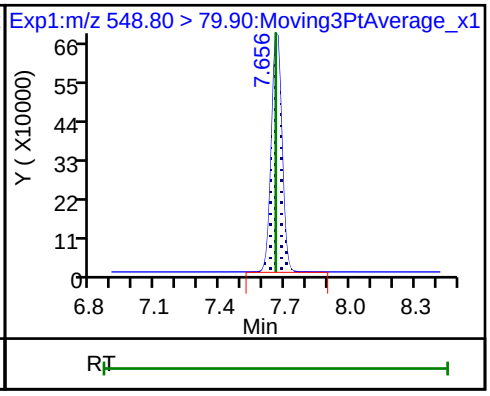
61 9ClFOS



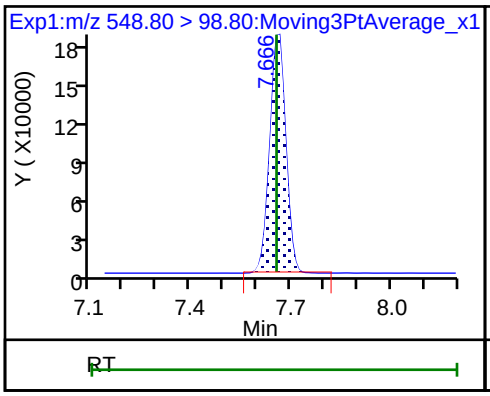
61 9ClFOS



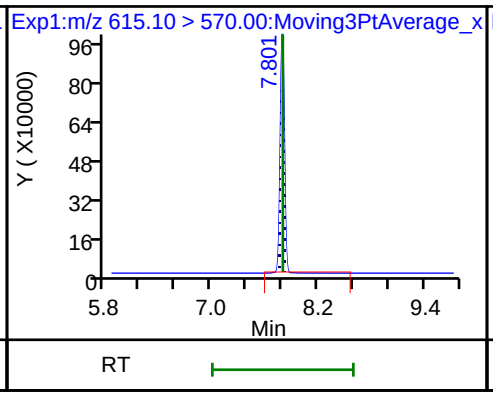
62 PFNS



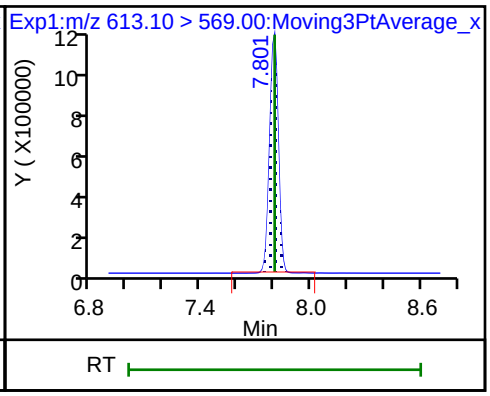
62 PFNS



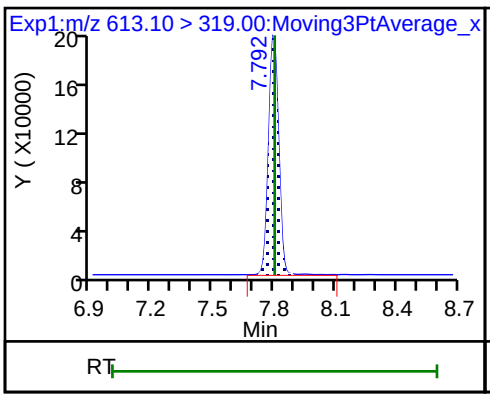
D 81 PFDoA



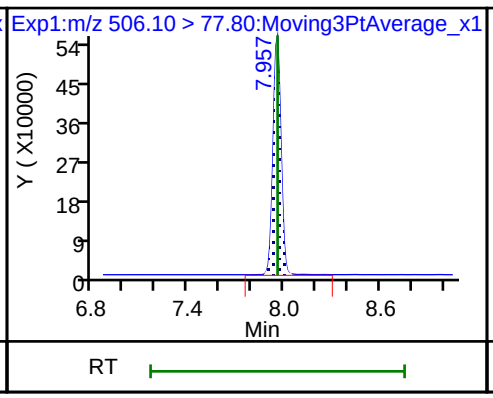
63 PFDoA



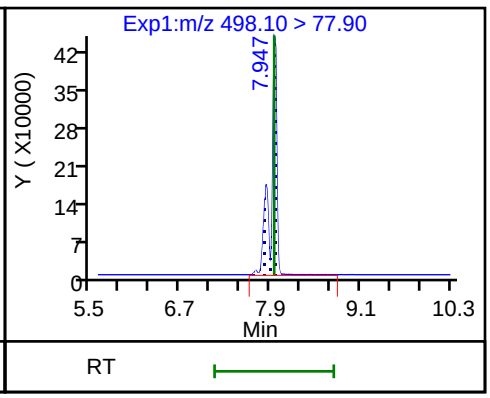
63 PFDoA



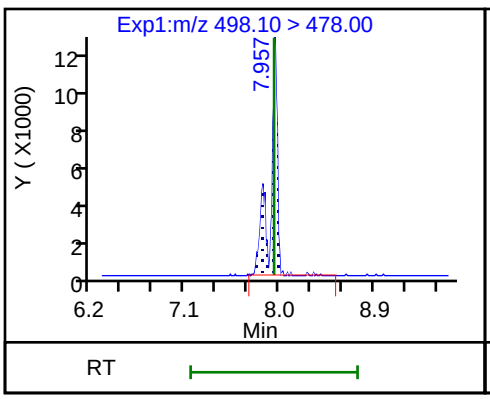
D 65 13C8 FOSA



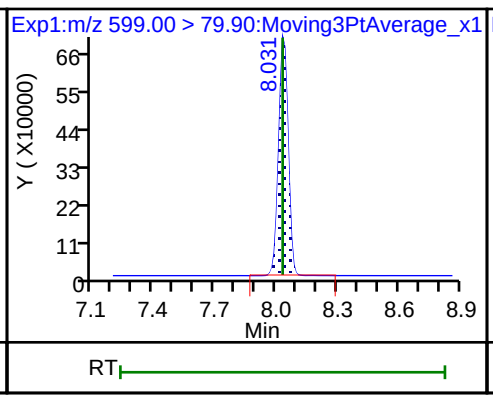
64 PFOSA



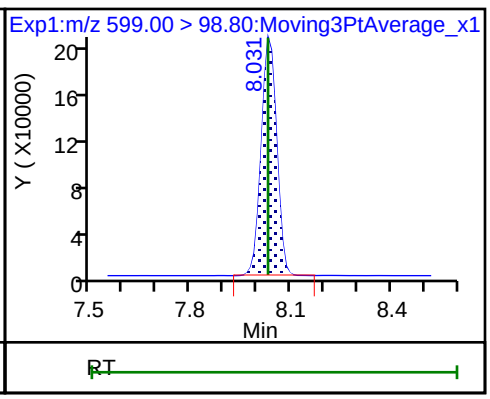
64 PFOSA



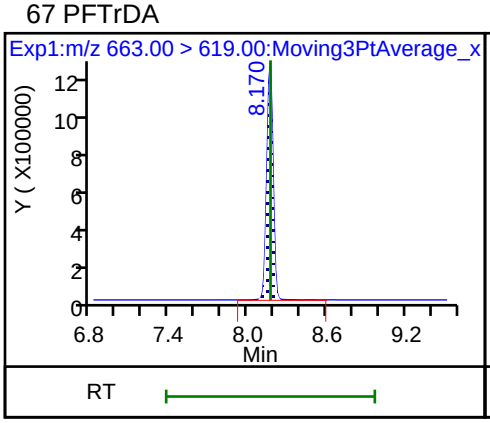
66 PFDS



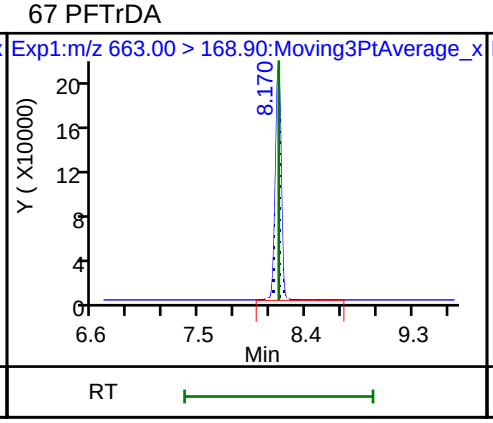
66 PFDS



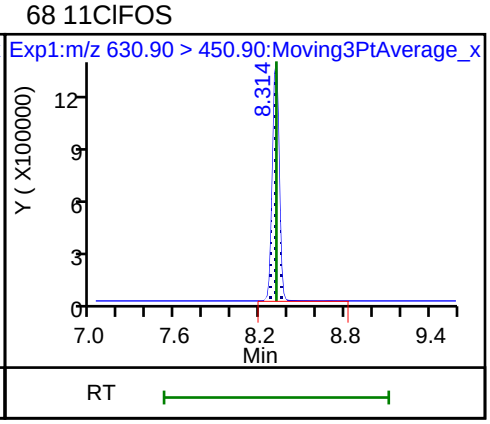
67 PFTrDA



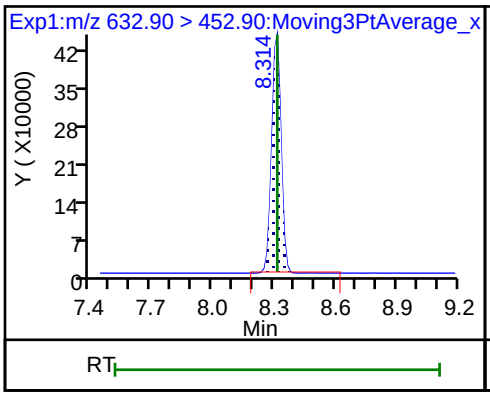
67 PFTrDA



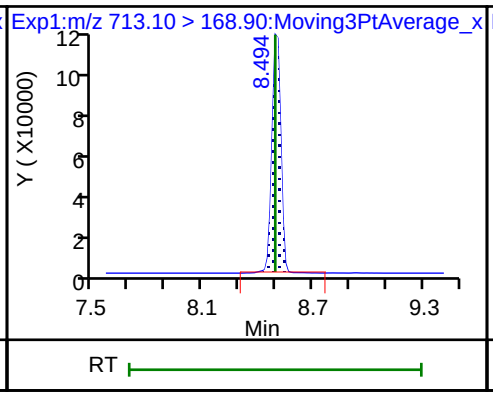
68 11ClFOS



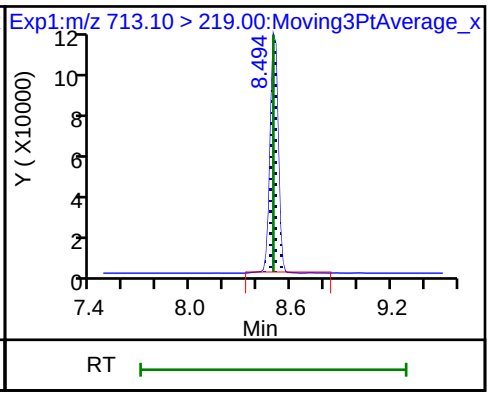
68 11ClFOS



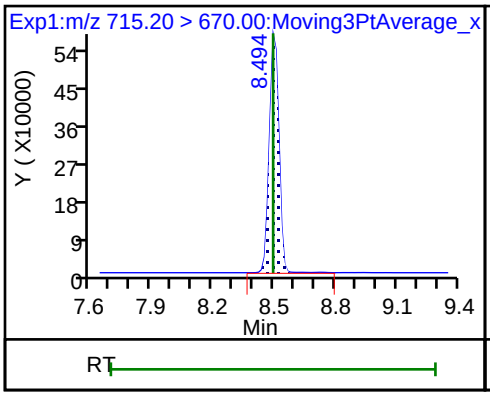
70 PFTeDA



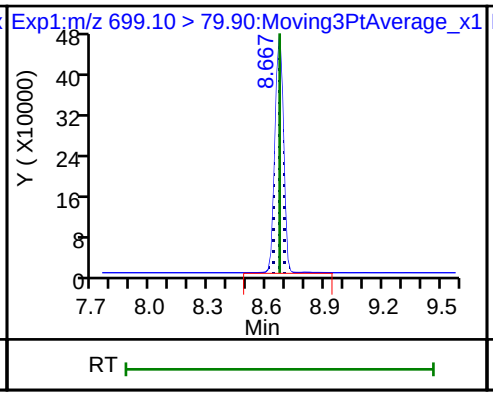
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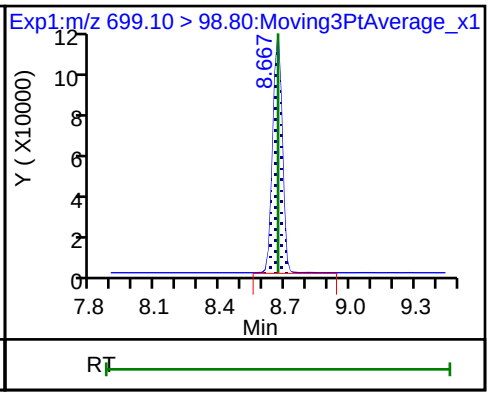
D 69 13C2 PFTeDA



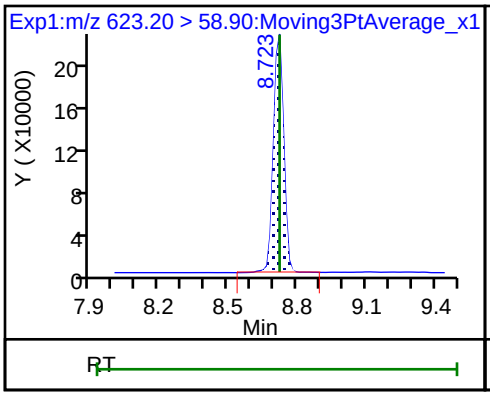
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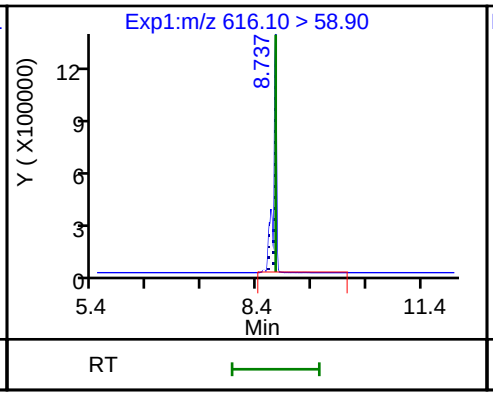
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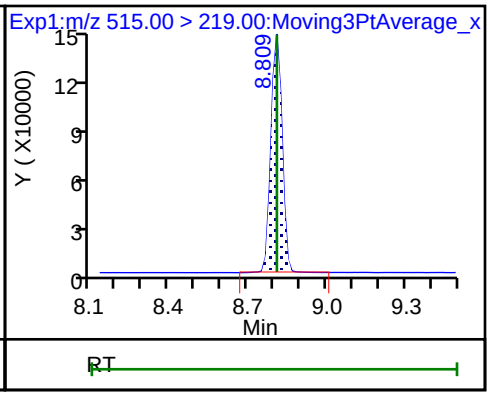
D 71 d7-N-Me-FOSE



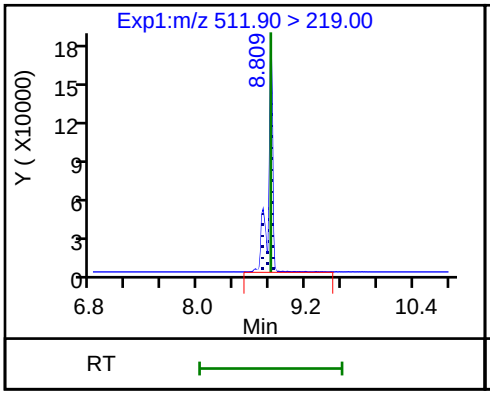
72 N-MeFOSE-M



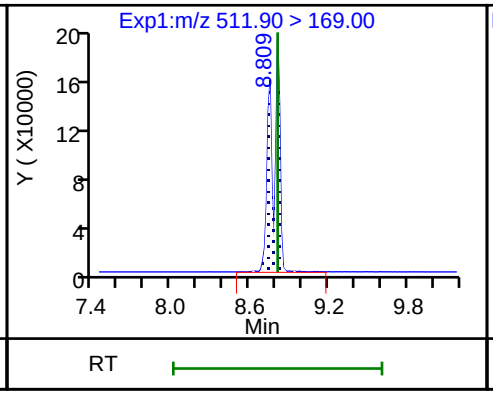
D 74 d3-NMePFOSA



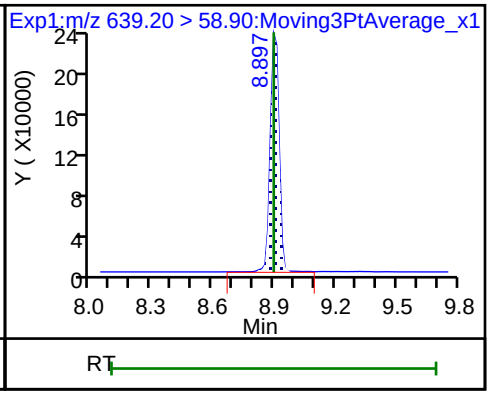
75 NMeFOSA



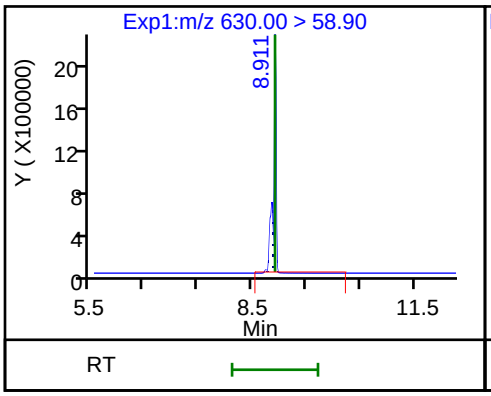
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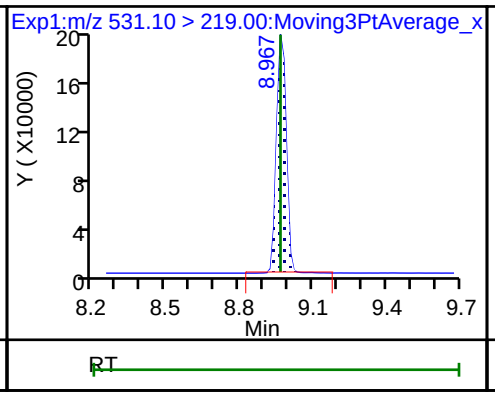
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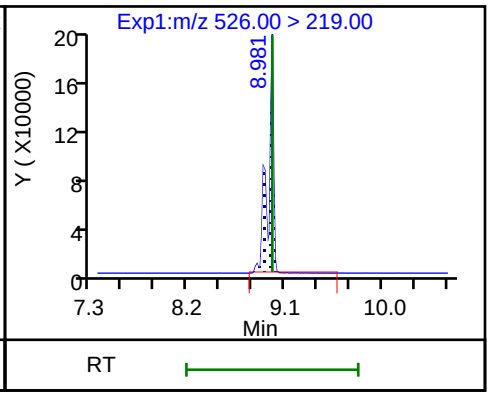
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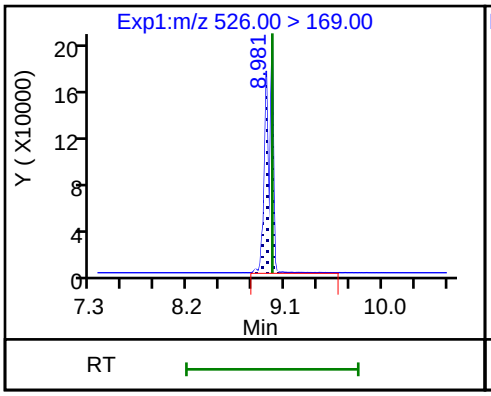
D 78 d5-NEtPFOSA



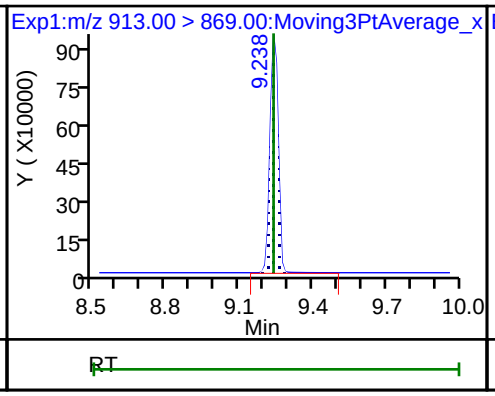
79 N-EtFOSA-M



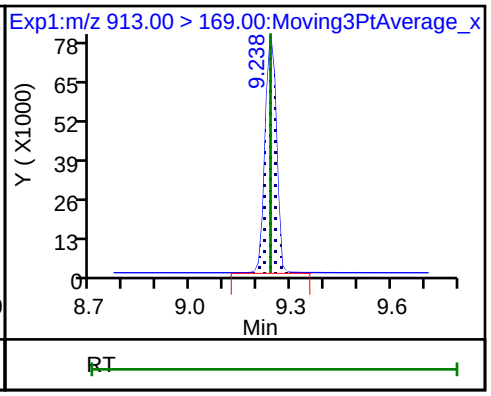
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-06.d
Lims ID: IC CAL 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 02-Feb-2026 12:51:38 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 6
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:57:21 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: P7EB Date: 02-Feb-2026 15:08:57
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										
163.00 > 119.00	2.083	2.098	-0.015	1.000	18347988	24.8		99.2	17456	
D 2 13C3PFPrA										
166.00 > 121.00	2.083	2.114	-0.031	0.480	1593795	2.02		101	855	
5 PFBA										
212.80 > 168.90	4.329	4.330	-0.001	0.998	12017466	9.74		97.4	21520	
D 6 13C4-PFBA										
216.80 > 171.90	4.337	4.338	-0.001	1.000	2629643	2.00		99.9	5135	
* 7 13C3PFBA										
216.00 > 172.00	4.337	4.338	-0.001		2179484	2.00			5880	
9 PFMPA										
229.00 > 84.90	4.634	4.627	0.007	0.934	5265717	4.89		97.9	6512	
10 3:3 FTCA										
241.00 > 177.00	4.644	4.637	0.007	0.936	529700	10.2	Target=1.27	102	1289	
241.00 > 117.00	4.634	4.637	-0.003	0.934	413481		1.28(0.63-1.90)	102	2585	
D 11 13C5 PFPeA										
268.30 > 223.00	4.964	4.955	0.009	0.915	2012315	2.03		101	11852	
12 PFPA										
263.00 > 219.00	4.964	4.968	-0.004	1.000	5473948	4.78		95.5	5710	
13 PFMBA										
279.00 > 85.10	5.120	5.112	0.008	1.032	6306308	4.86		97.2	43622	
15 4:2FTS										
327.10 > 307.00	5.235	5.240	-0.005	1.000	3446554	9.01	Target=1.60	96.1	14254	
327.10 > 80.90	5.235	5.240	-0.005	1.000	2203756		1.56(0.80-2.40)	96.1	2187	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.235	5.240	-0.005	0.811	1034125	4.49		95.8	6275	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.386	5.378	0.008	0.992	2626726	4.82	Target=1.47	96.4	5614	
295.00 > 84.90	5.386	5.378	0.008	0.992	1859781		1.41(0.74-2.21)	96.4	7603	
D 17 13C5 PFHxA										
318.00 > 273.00	5.427	5.418	0.009	1.000	2773862	1.98		99.2	4799	
* 18 13C2 PFHxA										
315.10 > 270.00	5.427	5.432	-0.005		6049587	5.00			7762	
19 PFHxA										
313.00 > 269.00	5.427	5.432	-0.005	1.000	6293324	4.73	Target=11.71	94.5	13025	
313.00 > 118.90	5.427	5.432	-0.005	1.000	562321		11.19(5.85-17.56)	94.5	3512	
22 5:3 FTCA										
341.00 > 237.10	5.496	5.500	-0.004	1.013	4200925	24.7	Target=0.90	98.9	25087	
341.00 > 217.00	5.496	5.500	-0.004	1.013	4766049		0.88(0.45-1.35)	98.9	17766	
21 PFBS										
298.70 > 79.90	5.564	5.568	-0.004	1.000	4724783	4.61	Target=2.89	104	12953	
298.70 > 98.80	5.564	5.568	-0.004	1.000	1616755		2.92(1.44-4.33)	104	9877	
D 20 13C3 PFBS										
302.10 > 79.90	5.564	5.568	-0.004	0.862	2108815	1.82		97.7	9472	
28 FBSA										
297.90 > 78.00	5.579	5.582	-0.003	1.003	4719043	5.24		105	4013	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.607	5.611	-0.004	1.033	1991911	2.08		104	2827	
24 HFPO-DA										
284.90 > 168.90	5.607	5.611	-0.004	1.000	3386882	3.55	Target=2.42	94.6	4225	
284.90 > 184.90	5.607	5.611	-0.004	1.000	1455518		2.33(1.21-3.62)	94.6	4822	
25 PFEESA										
314.80 > 134.90	5.802	5.791	0.011	1.069	13448156	4.63	Target=13.09	104	84731	
314.80 > 82.90	5.802	5.791	0.011	1.069	991594		13.56(6.55-19.64)	104	3612	
27 PFHpA										
363.10 > 319.00	5.842	5.845	-0.003	1.000	6827189	5.02	Target=2.35	100	9243	
363.10 > 169.00	5.842	5.845	-0.003	1.000	2771009		2.46(1.17-3.52)	100	4417	
D 26 13C4 PFHpA										
367.10 > 322.00	5.842	5.845	-0.003	1.076	2773060	2.02		101	4760	
29 ADONA										
376.90 > 250.90	5.985	5.988	-0.003	1.067	14740553	4.53	Target=1.85	95.7	27252	
376.90 > 84.80	5.985	5.988	-0.003	1.067	8216825		1.79(0.92-2.77)	95.7	7872	
32 PFPeS										
349.10 > 79.90	6.030	6.033	-0.003	0.934	5664698	4.80	Target=3.28	102	25378	
349.10 > 98.90	6.030	6.033	-0.003	0.934	1739105		3.26(1.64-4.92)	102	8011	
31 6:2FTS										
427.10 > 407.00	6.030	6.033	-0.003	1.000	2514735	9.67	Target=1.80	102	8209	
427.10 > 80.90	6.030	6.033	-0.003	1.000	1391632		1.81(0.90-2.70)	102	3075	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.030	6.033	-0.003	0.934	594499	4.35		91.5	2530	
33 BTS										
280.00 > 147.00	6.176	6.189	-0.013	0.957	9483852	4.90		100	34209	
D 35 13C8 PFOA										
421.10 > 376.00	6.230	6.233	-0.003	1.000	3493877	2.01		101	8956	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.230	6.233	-0.003		8685102	5.00			9636	
36 PFOA										
413.00 > 369.00	6.230	6.233	-0.003	1.000	6372690	4.81	Target=2.11	96.2	340385	
413.00 > 169.00	6.230	6.233	-0.003	1.000	2978129		2.14(1.06-3.17)	96.2	353290	
39 7:3 FTCA										
441.00 > 316.90	6.292	6.296	-0.004	1.159	3961065	25.6	Target=0.82	103	1806	
441.00 > 336.90	6.292	6.296	-0.004	1.159	4886996		0.81(0.41-1.23)	103	3017	
40 PFHxS										
398.70 > 79.90	6.455	6.460	-0.005	1.000	5295247	4.60	Target=3.44	101	10587	
398.70 > 98.90	6.455	6.460	-0.005	1.000	1468431		3.61(1.72-5.16)	101	2188	
* 38 18O2 PFHxS										
403.00 > 83.90	6.455	6.460	-0.005		1724837	1.90			6375	
D 37 13C3 PFHxS										
402.10 > 79.90	6.455	6.460	-0.005	1.000	1703545	1.87		98.6	5456	
43 PFNA										
463.00 > 419.00	6.615	6.620	-0.005	1.000	6410956	5.08	Target=2.84	102	1733344	
463.00 > 219.00	6.615	6.620	-0.005	1.000	2262287		2.83(1.42-4.26)	102	2746	
D 42 13C9 PFNA										
472.10 > 427.00	6.615	6.620	-0.005	1.000	2877768	1.91		95.5	7147	
* 41 13C5 PFNA										
468.00 > 423.00	6.615	6.620	-0.005		3001338	2.00			7212	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.785	6.790	-0.005	1.051	639586	4.81		100	3913	
45 8:2FTS										
527.10 > 507.00	6.785	6.790	-0.005	1.000	2047062	9.36	Target=1.52	97.5	7662	
527.10 > 80.80	6.785	6.790	-0.005	1.000	1374456		1.49(0.76-2.28)	97.5	4798	
46 PFECHS										
461.00 > 381.00	6.819	6.824	-0.005	1.056	1350771	4.52	Target=0.31	97.8	3816	
461.00 > 99.00	6.819	6.824	-0.005	1.056	4501913		0.30(0.16-0.47)	97.8	23290	
47 PFHpS										
449.00 > 79.90	6.853	6.857	-0.004	0.944	4460896	4.61	Target=3.44	96.7	16487	
449.00 > 98.80	6.853	6.857	-0.004	0.944	1267106		3.52(1.72-5.16)	96.7	2957	
53 FHxSA										
397.90 > 78.00	6.864	6.869	-0.005	1.063	6083519	4.94		98.8	3273	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.934	6.940	-0.006	0.955	1616653	5.17		103	3290	
49 NMeFOSAA										
570.10 > 419.00	6.947	6.940	0.007	1.002	1792195	4.96	Target=1.84	99.2	3971	
570.10 > 483.00	6.947	6.940	0.007	1.002	993267		1.80(0.92-2.76)	99.2	1167	
D 50 13C6 PFDA										
519.10 > 474.10	7.008	7.015	-0.007	1.000	2985012	2.02		101	6344	
* 52 13C2 PFDA										
515.10 > 470.10	7.008	7.015	-0.007		2902453	2.00			7696	
51 PFDA										
512.90 > 469.00	7.008	7.015	-0.007	1.000	6025453	4.82	Target=4.61	96.4	6434	
512.90 > 219.00	7.008	7.015	-0.007	1.000	1308225		4.61(2.31-6.92)	96.4	8209	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.117	7.124	-0.007	0.980	1359926	4.93		98.5	3945	
55 NEtFOSAA										
584.20 > 419.10	7.117	7.124	-0.007	1.000	1139081	5.10	Target=1.44	102	1308	
584.20 > 526.00	7.117	7.124	-0.007	1.000	829262		1.37(0.72-2.16)	102	1021	
58 PFOS										
498.90 > 79.90	7.260	7.255	0.005	1.000	4995607	4.32	Target=4.21	93.0	573355	
498.90 > 98.80	7.260	7.255	0.005	1.000	1171220		4.27(2.11-6.32)	93.0	3138	
D 56 13C8 PFOS										
507.10 > 79.90	7.260	7.267	-0.007	1.000	1535223	1.98		103	263	
* 57 13C4 PFOS										
502.80 > 79.90	7.260	7.267	-0.007		1608757	1.92			8948	
D 59 13C7 PFUnA										
570.00 > 525.10	7.403	7.409	-0.006	1.056	3699965	2.08		104	6949	
60 PFUnA										
563.10 > 519.00	7.403	7.409	-0.006	1.000	6584536	4.81	Target=5.05	96.2	4525	
563.10 > 269.10	7.403	7.409	-0.006	1.000	1284239		5.13(2.52-7.57)	96.2	5520	
61 9ClFOS										
530.80 > 351.00	7.560	7.566	-0.006	1.041	10353175	4.53	Target=3.14	97.1	17077	
532.80 > 353.00	7.569	7.566	0.003	1.043	3322230		3.12(1.57-4.71)	97.1	18843	
62 PFNS										
548.80 > 79.90	7.651	7.656	-0.005	1.054	4209844	4.57	Target=3.68	94.9	9922	
548.80 > 98.80	7.660	7.656	0.004	1.055	1169659		3.60(1.84-5.52)	94.9	5842	
D 81 PFDoA										
615.10 > 570.00	7.786	7.801	-0.015	1.111	3233567	2.05		102	5985	
63 PFDoA										
613.10 > 569.00	7.796	7.801	-0.005		7137322	4.95	Target=5.59	99.0	12922	
613.10 > 319.00	7.796	7.801	-0.005		1310746		5.45(2.80-8.39)	99.0	5746	
64 PFOSA										
498.10 > 77.90	7.952	7.947	0.005	1.000	4379297	4.88	Target=41.61	97.6	960209	
498.10 > 478.00	7.941	7.947	-0.006	0.999	100139		43.73(20.81-62.42)	97.6	188	
D 65 13C8 FOSA										
506.10 > 77.80	7.952	7.957	-0.005	1.095	1957375	2.04		102	5572	
66 PFDS										
599.00 > 79.90	8.025	8.031	-0.006	1.105	4387814	4.68	Target=3.58	97.1	23517	
599.00 > 98.80	8.025	8.031	-0.006	1.105	1211410		3.62(1.79-5.38)	97.1	7299	
67 PFTrDA										
663.00 > 619.00	8.164	8.170	-0.006	0.961	7304148	4.78	Target=5.80	95.6	12729	
663.00 > 168.90	8.164	8.170	-0.006	0.961	1288676		5.67(2.90-8.70)	95.6	3798	
68 11ClFOS										
630.90 > 450.90	8.306	8.314	-0.008	1.144	8083091	4.58	Target=3.03	97.0	30978	
632.90 > 452.90	8.306	8.314	-0.008	1.144	2653107		3.05(1.51-4.55)	97.0	9811	
70 PFTeDA										
713.10 > 168.90	8.498	8.494	0.004	1.000	770998	4.91	Target=1.08	98.2	3046	
713.10 > 219.00	8.498	8.494	0.004	1.000	723649		1.07(0.54-1.62)	98.2	4054	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.498	8.494	0.004	1.213	1799704	2.07		103	3484	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.658	8.667	-0.009	1.193	2616776	4.71	Target=4.08	97.1	12240	
699.10 > 98.80	8.658	8.667	-0.009	1.193	649986		4.03(2.04-6.11)	97.1	5647	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.714	8.723	-0.009	1.200	709006	5.04		101	581	
72 N-MeFOSE-M										
616.10 > 58.90	8.728	8.737	-0.009	1.002	9458142	24.8		99.3	2682168	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.815	8.809	0.006	1.214	441724	2.02		101	3161	
75 NMeFOSA										
511.90 > 219.00	8.815	8.809	0.006	1.000	1098739	4.86	Target=0.70	97.2	5299	
511.90 > 169.00	8.815	8.809	0.006	1.000	1556083		0.71(0.35-1.06)	97.2	391924	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.902	8.897	0.005	1.226	758528	5.30		106	1386	
77 N-EtFOSE-M										
630.00 > 58.90	8.916	8.911	0.005	1.002	14176138	23.6		94.6	2340353	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.971	8.967	0.004	1.236	543957	2.04		102	2446	
79 N-EtFOSA-M										
526.00 > 219.00	8.971	8.981	-0.010	1.000	1236800	4.83	Target=0.80	96.5	358646	
526.00 > 169.00	8.971	8.981	-0.010	1.000	1530010		0.81(0.40-1.20)	96.5	5480	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.229	9.238	-0.009	1.086	4237134	4.96	Target=11.76	99.2	98904	
913.00 > 169.00	9.229	9.238	-0.009	1.086	372744		11.37(5.88-17.64)	99.2	14317	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL6_00035 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 17:57:22 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-06.d

Injection Date: 02-Feb-2026 12:51:38 Instrument ID: 30575

Lims ID: IC CAL 6

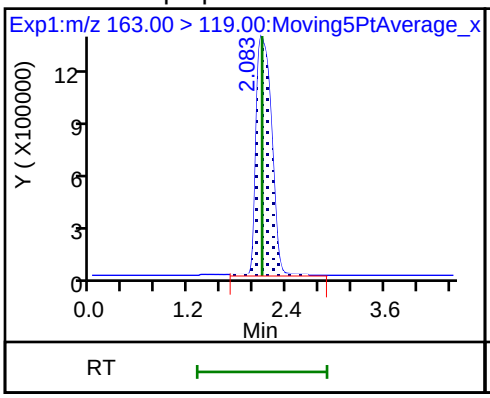
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Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 7 Worklist Smp#: 6

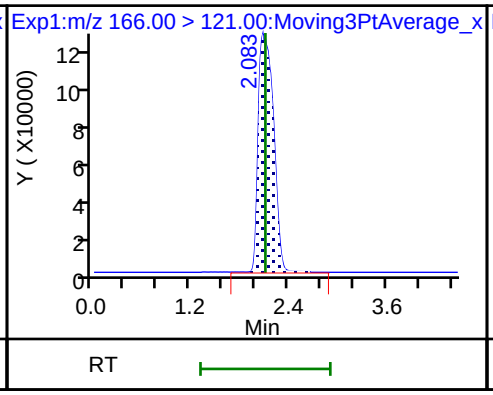
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Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

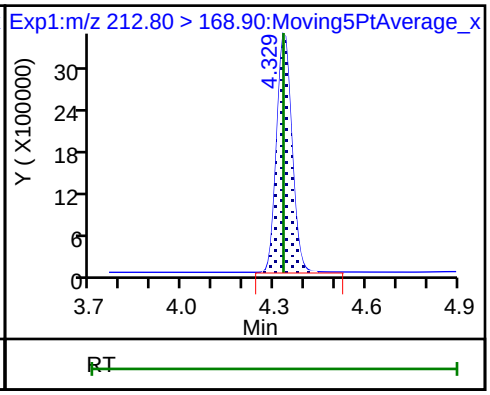
1 Perfluoropropionic acid



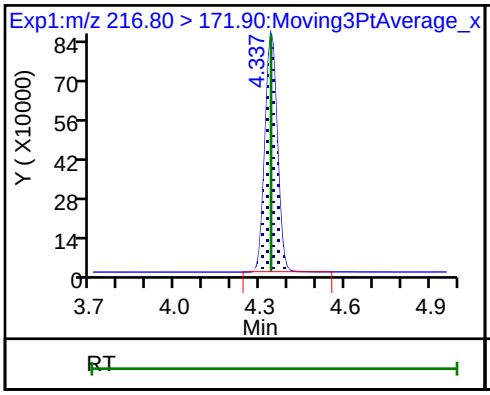
D 2 13C3PFPrA



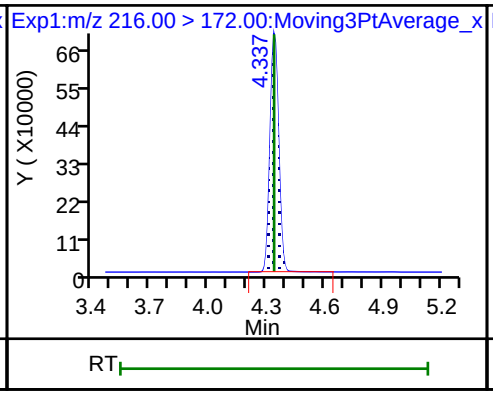
5 PFBA



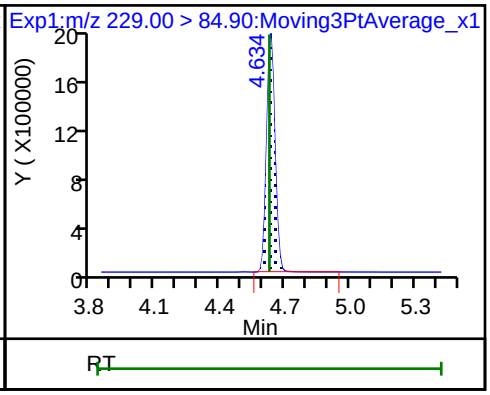
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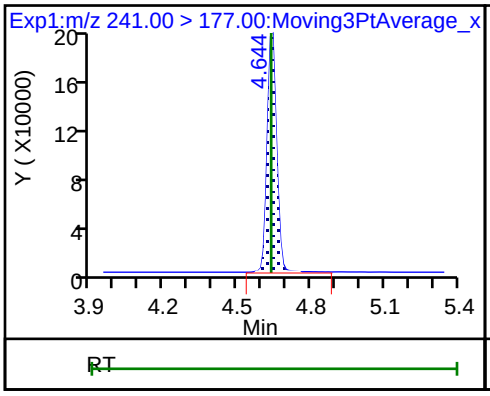
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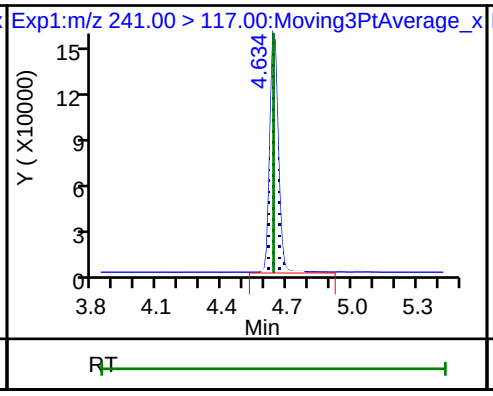
9 PFMPA



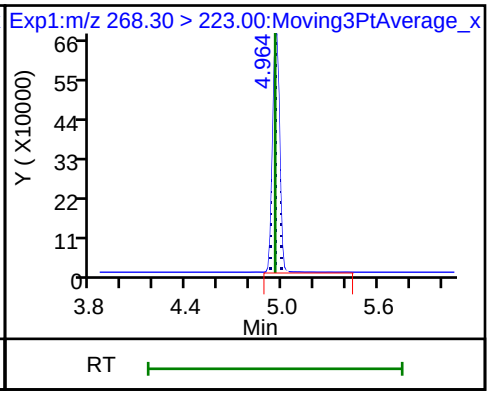
10 3:3 FTCA



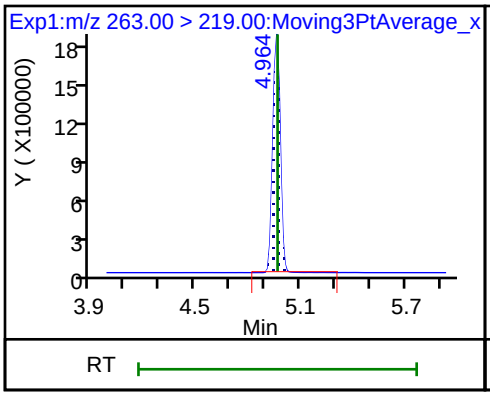
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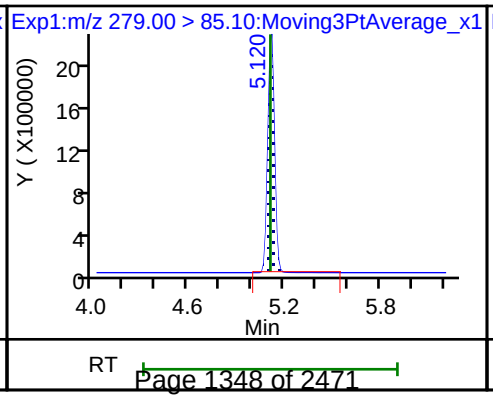
D 11 13C5 PFPeA



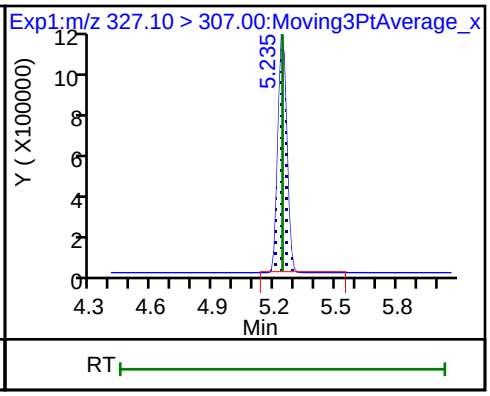
12 PFPA



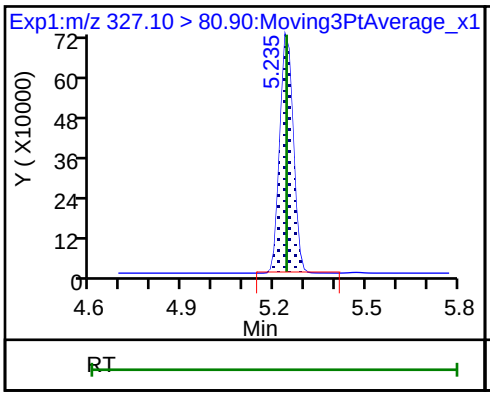
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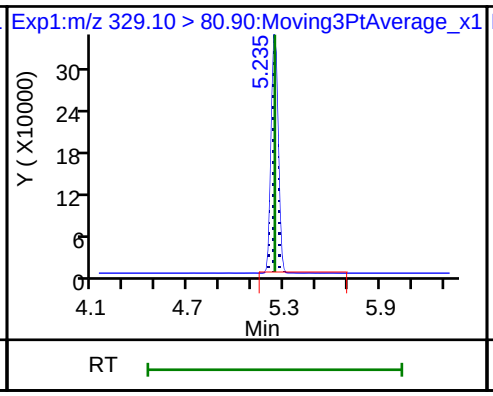
15 4:2FTS



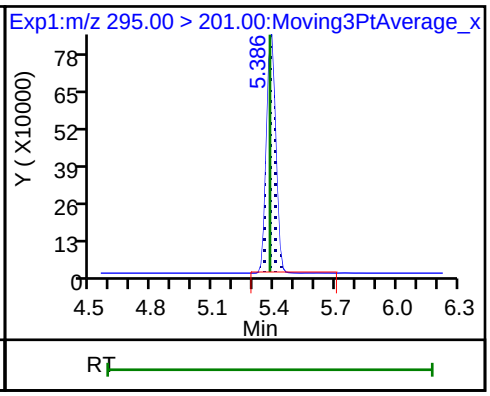
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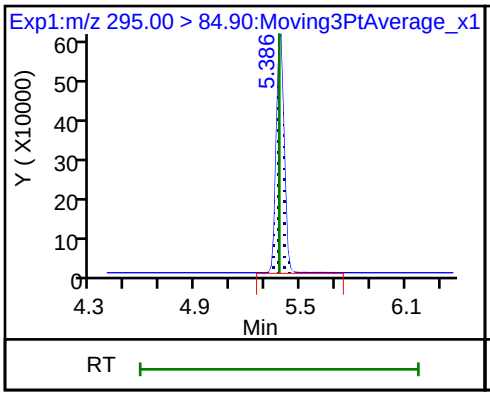
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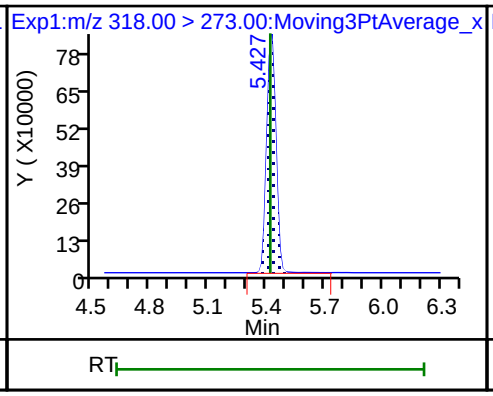
16 NFDHA



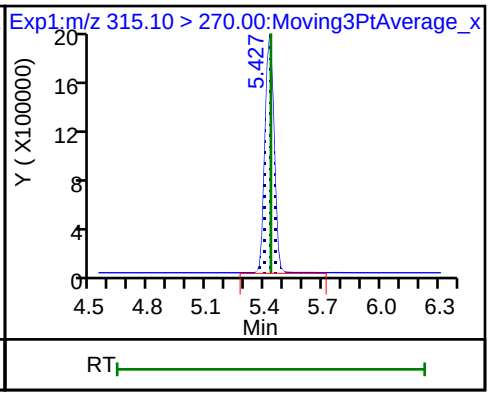
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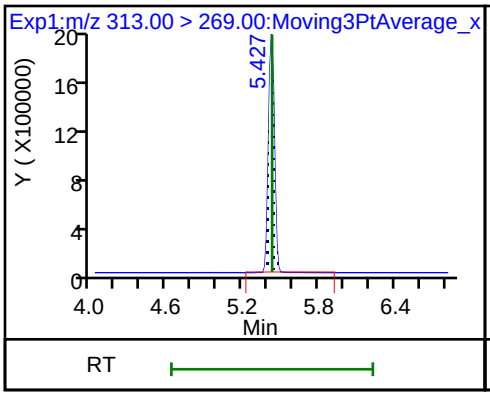
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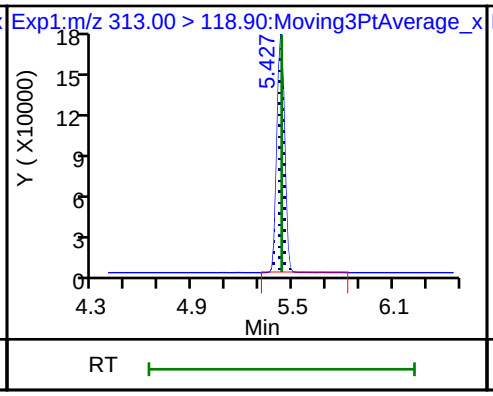
* 18 13C2 PFHxA



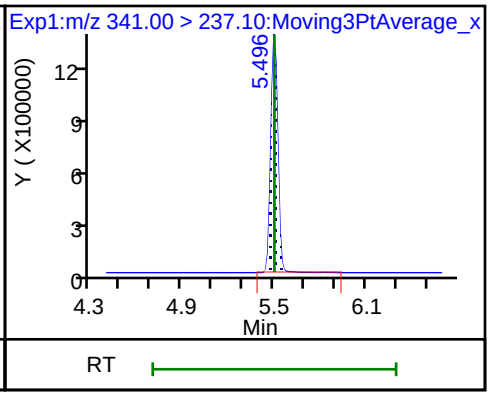
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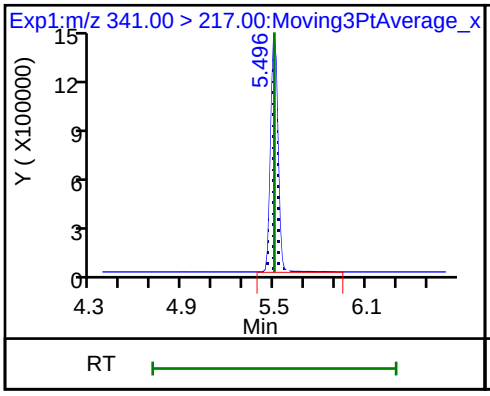
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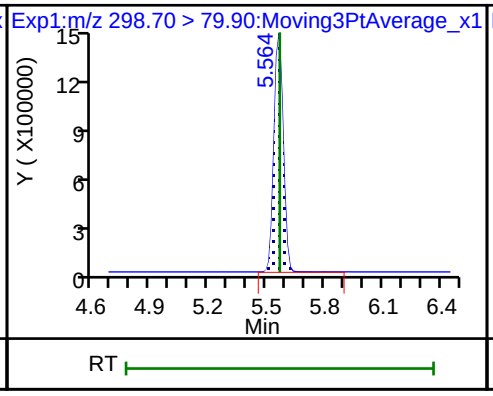
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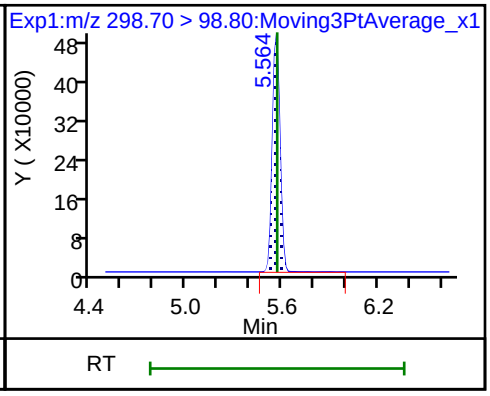
22 5:3 FTCA



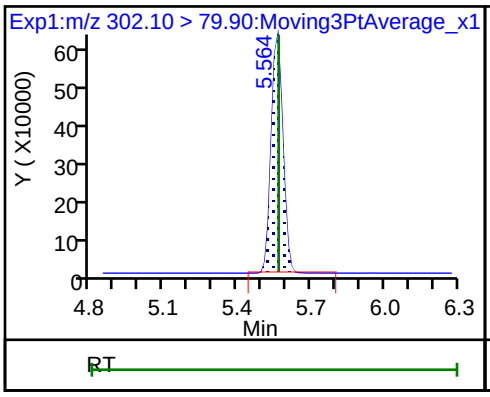
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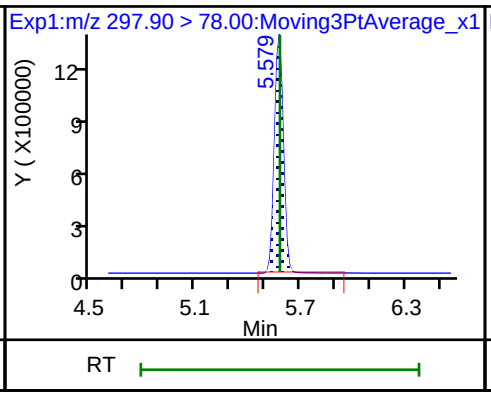
21 PFBS



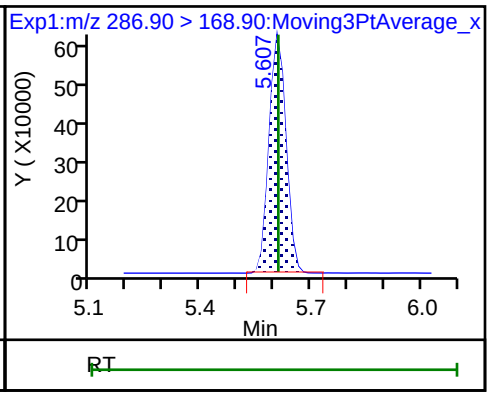
D 20 13C3 PFBS



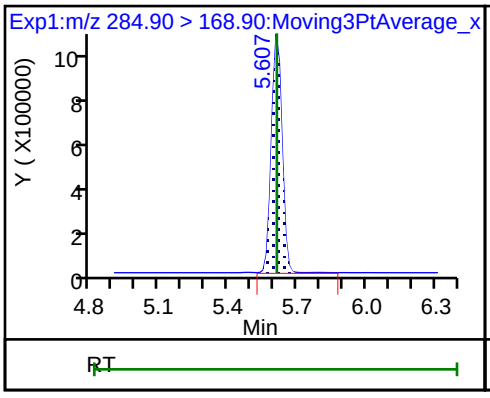
28 FBSA



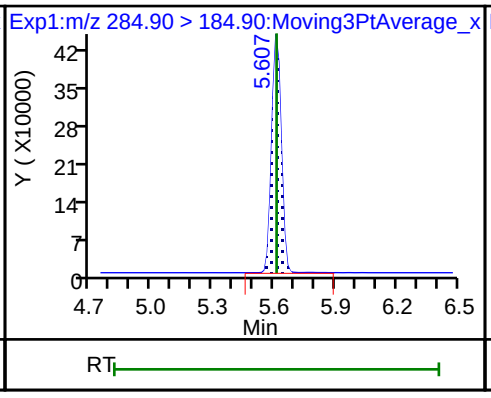
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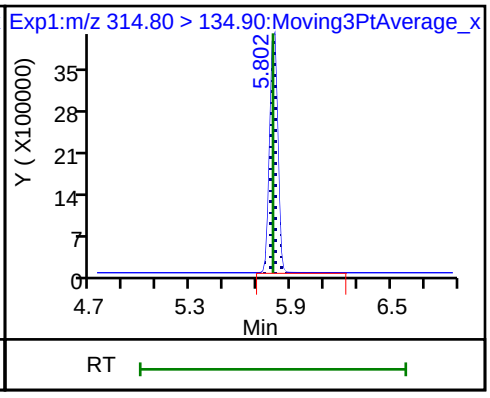
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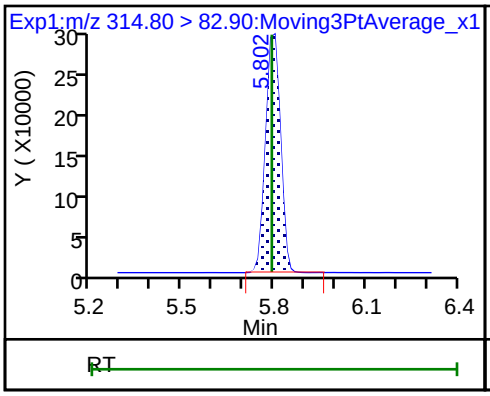
24 HFPO-DA



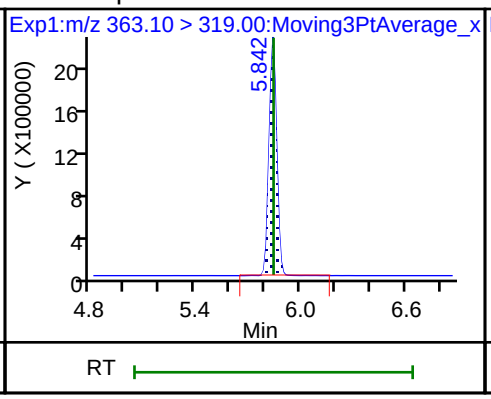
25 PFEESA



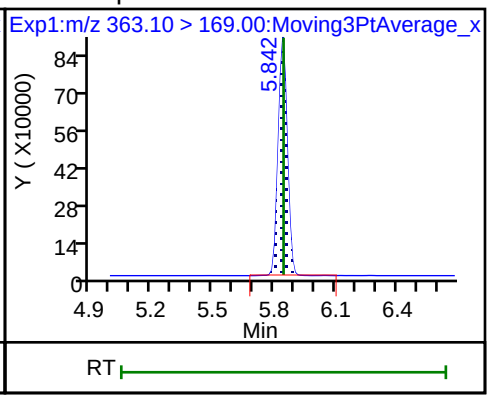
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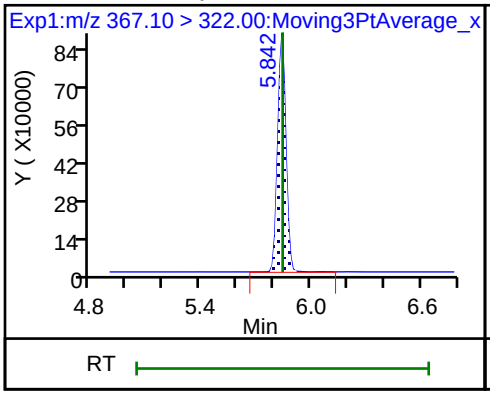
27 PFHpA



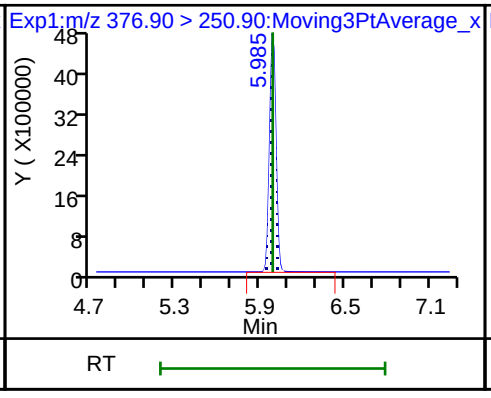
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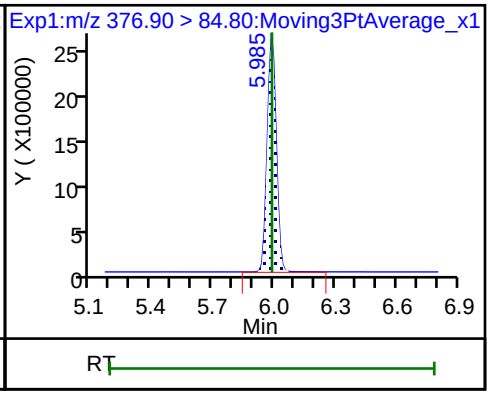
D 26 13C4 PFHpA



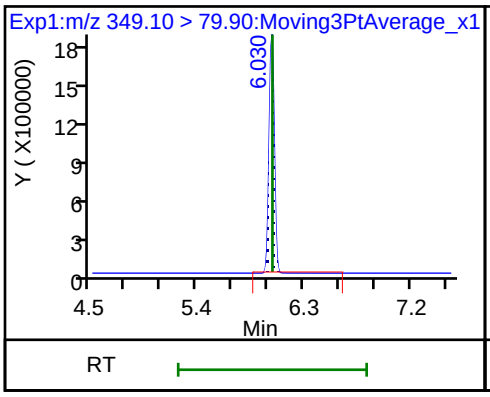
29 ADONA



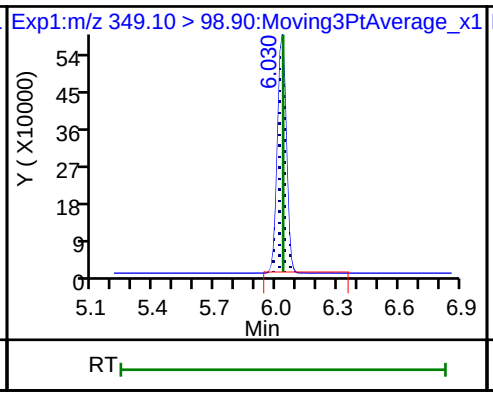
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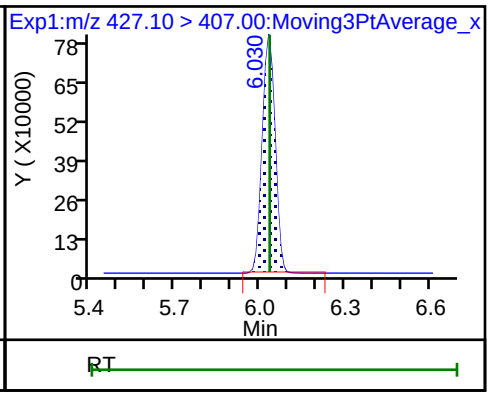
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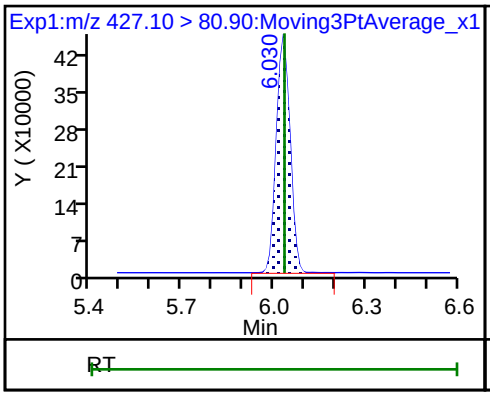
32 PFPeS



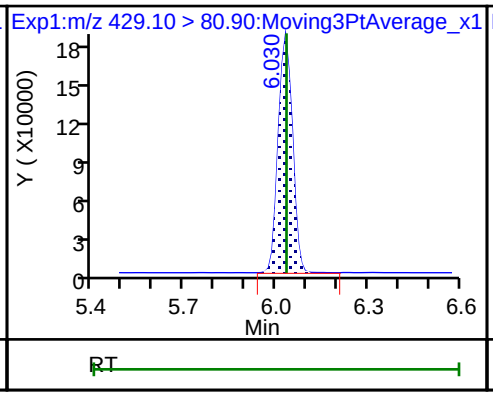
31 6:2FTS



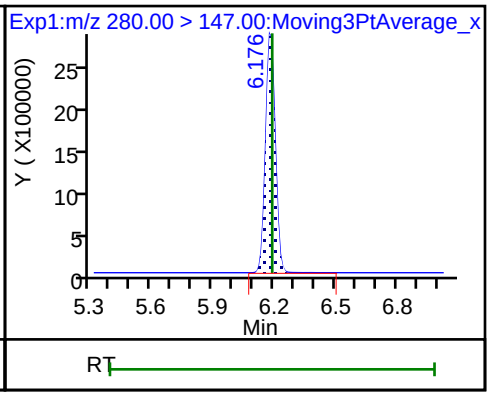
31 6:2FTS



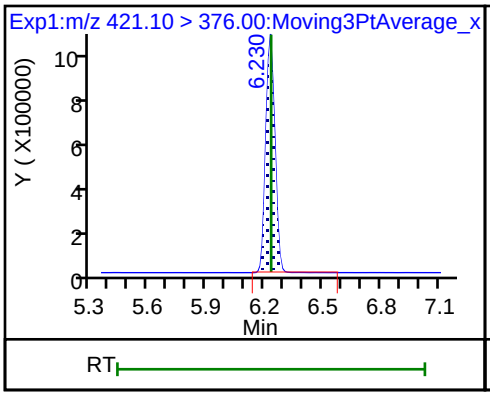
D 30 13C2-6:2FTS



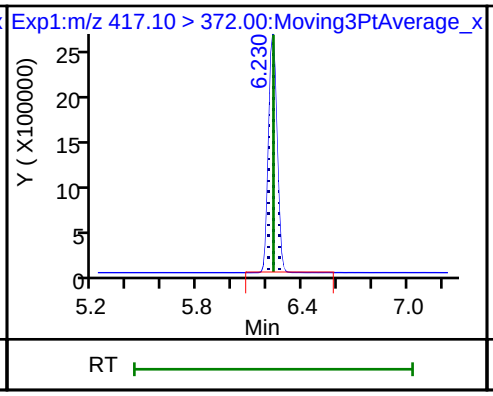
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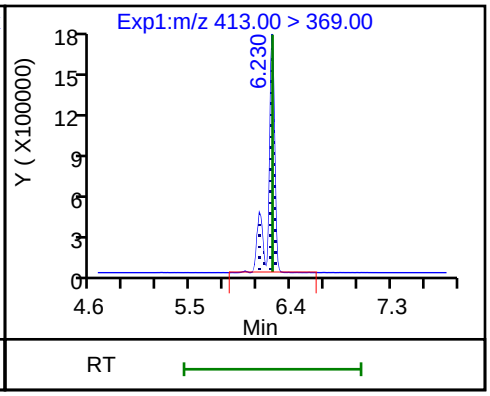
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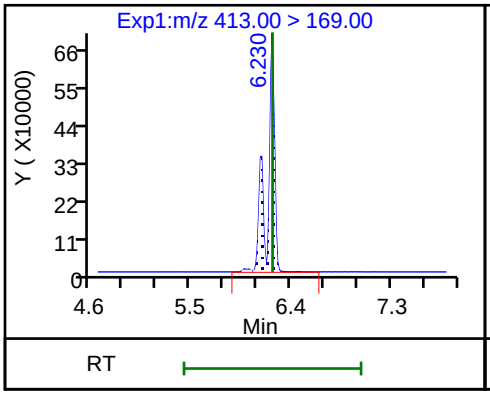
* 34 13C4 PFOA



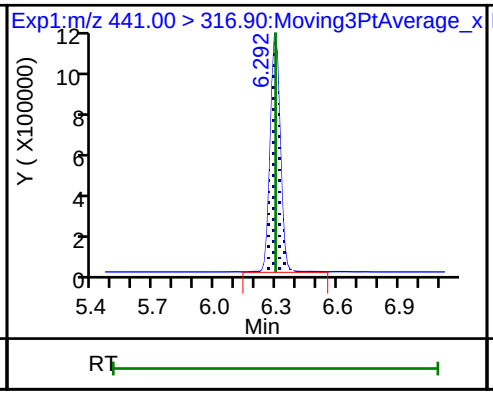
36 PFOA



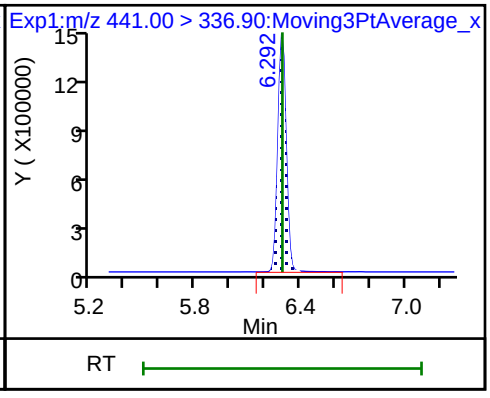
36 PFOA



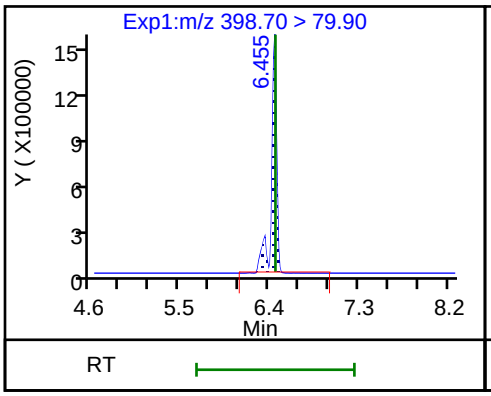
39 7:3 FTCA



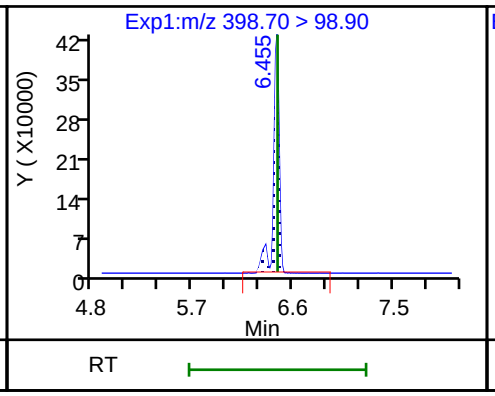
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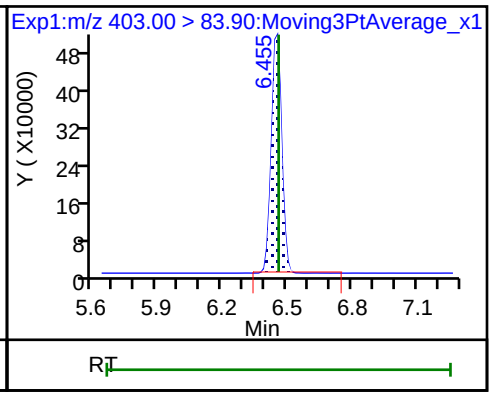
40 PFHxS



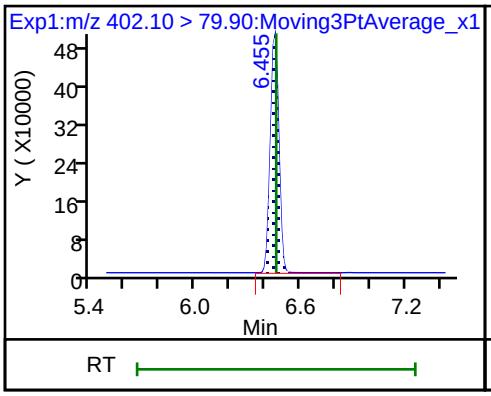
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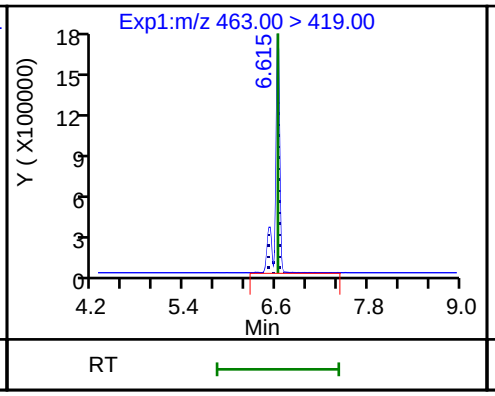
* 38 18O2 PFHxS



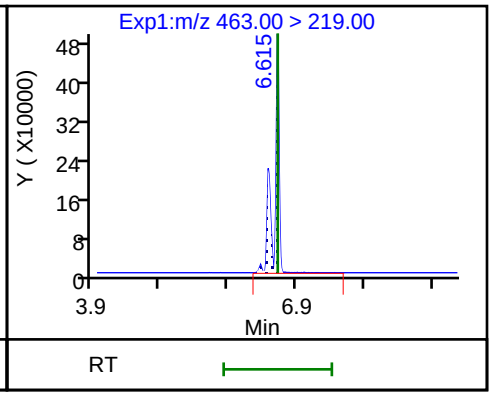
D 37 13C3 PFHxS



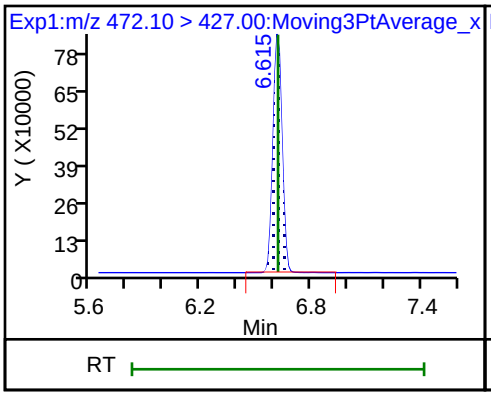
43 PFNA



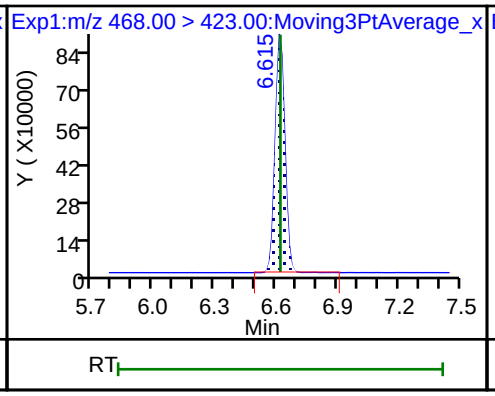
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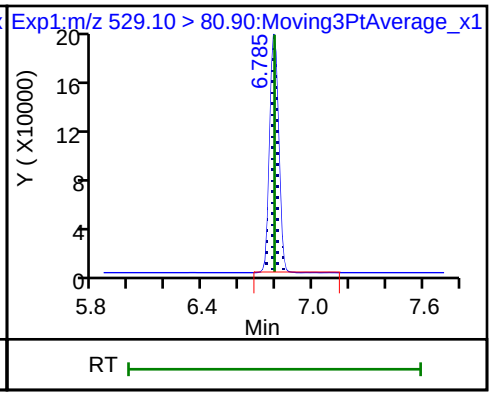
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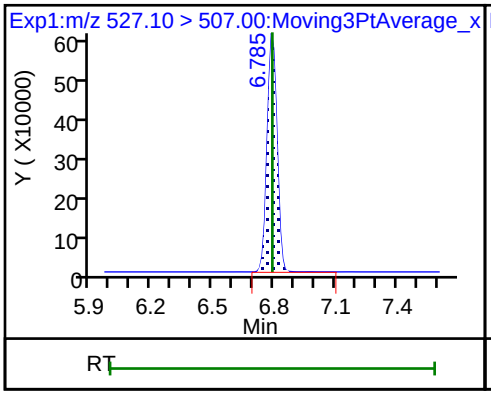
* 41 13C5 PFNA



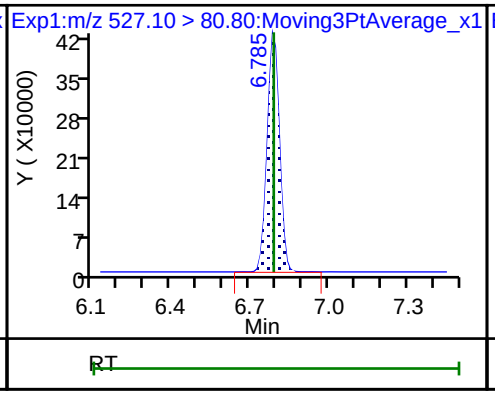
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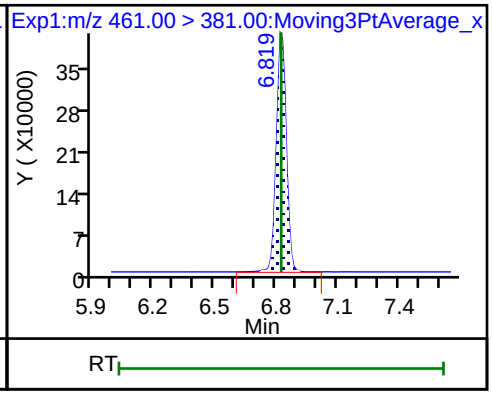
45 8:2FTS



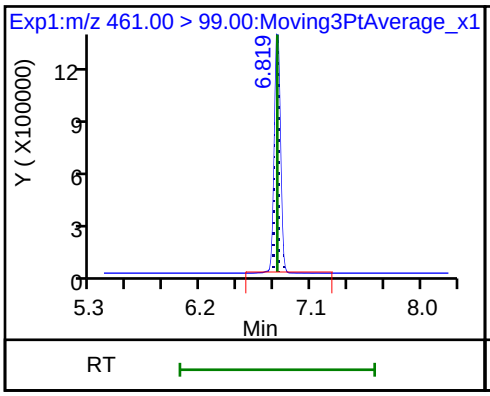
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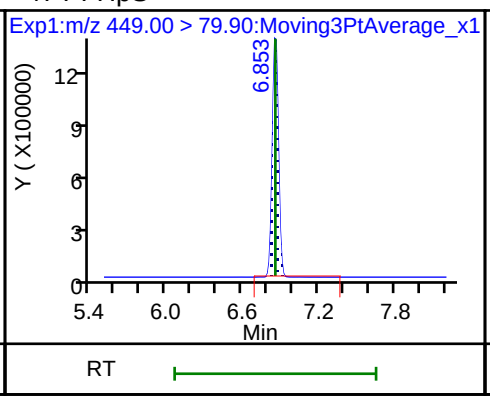
46 PFECHS



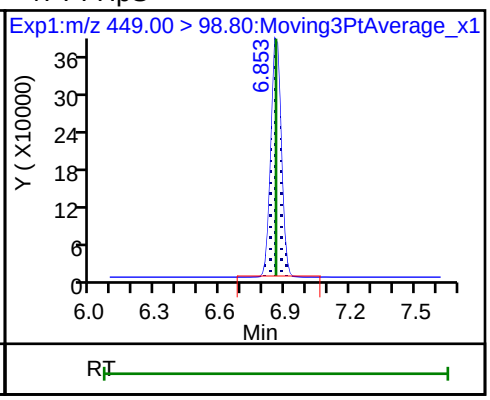
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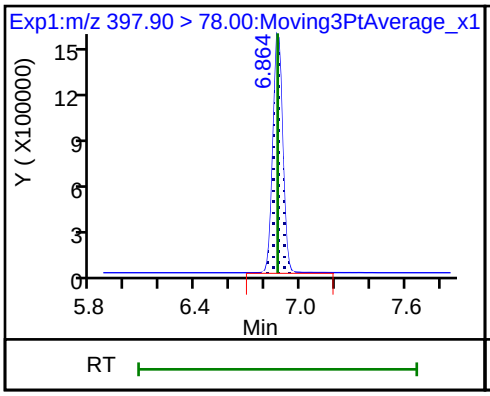
47 PFHpS



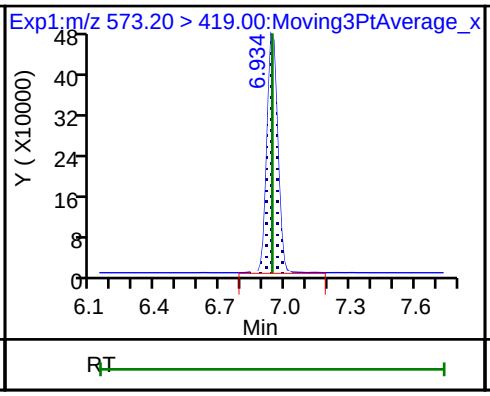
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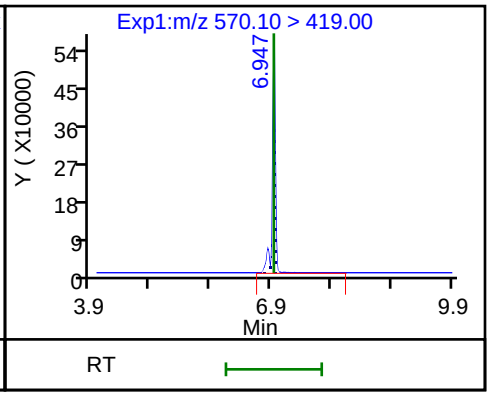
53 FHxSA



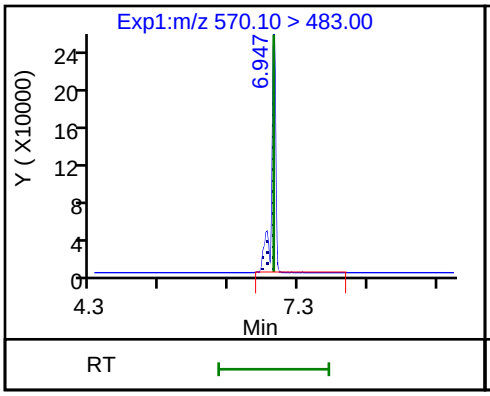
D 48 d3-NMeFOSAA



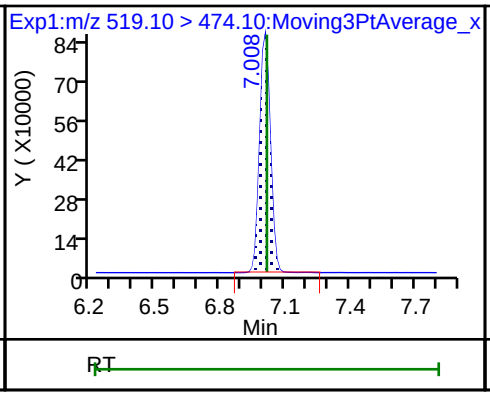
49 NMeFOSAA



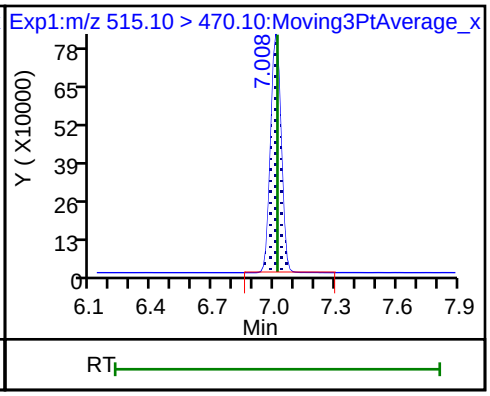
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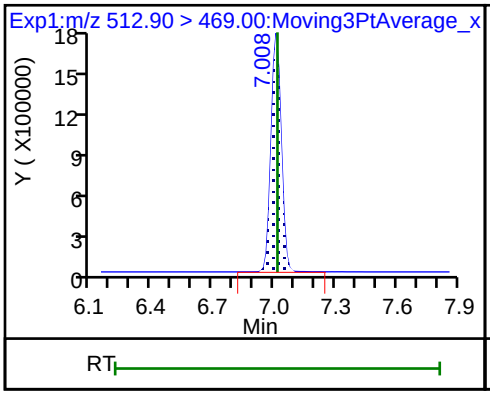
D 50 13C6 PFDA



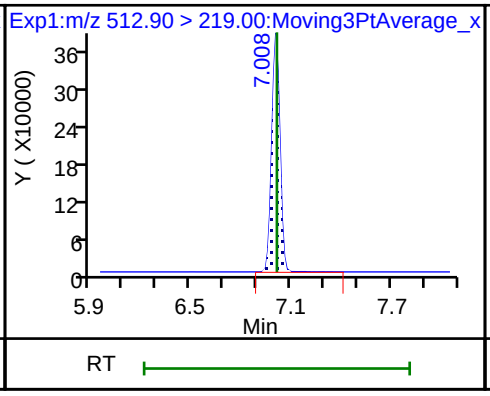
* 52 13C2 PFDA



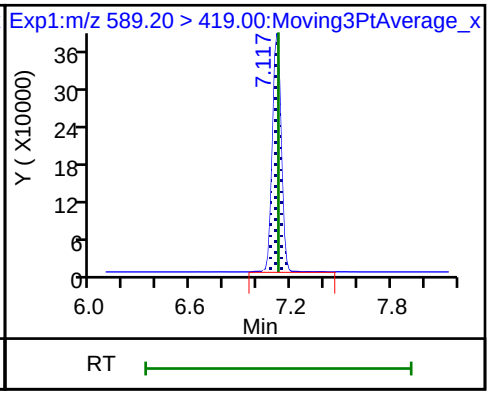
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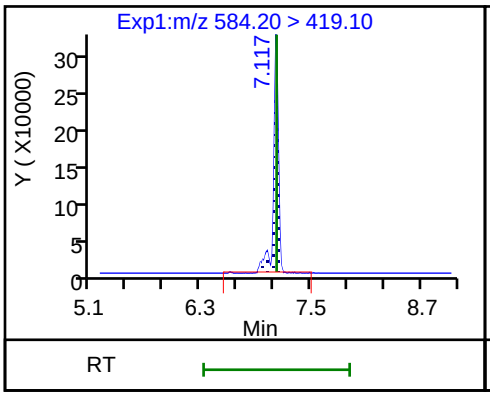
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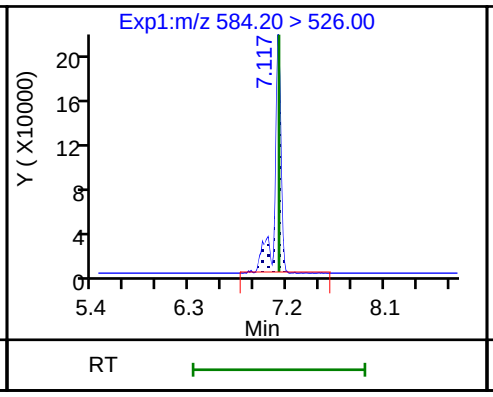
D 54 d5-NEtFOSAA



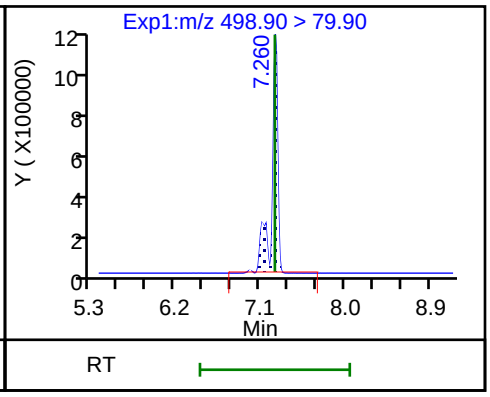
55 NEtFOSAA



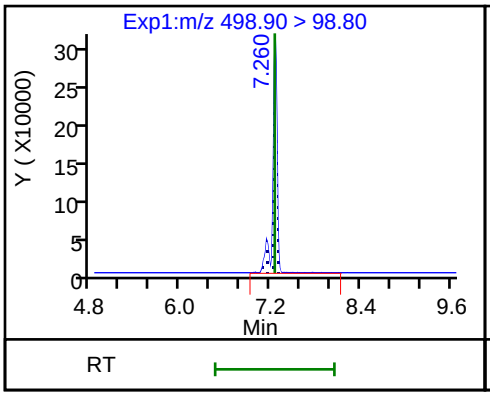
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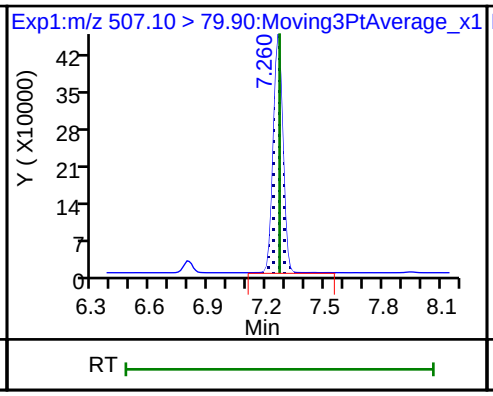
58 PFOS



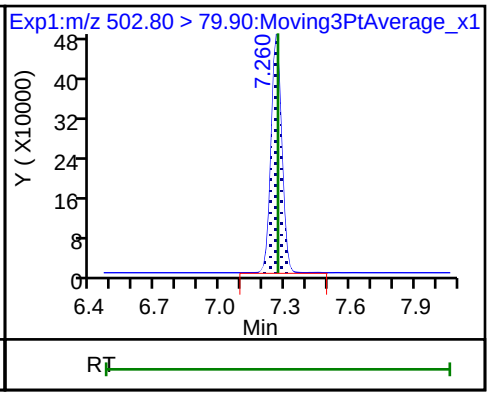
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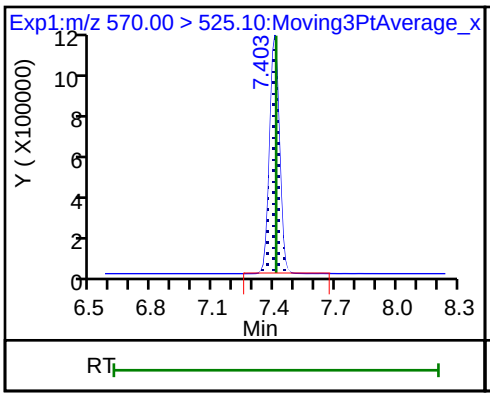
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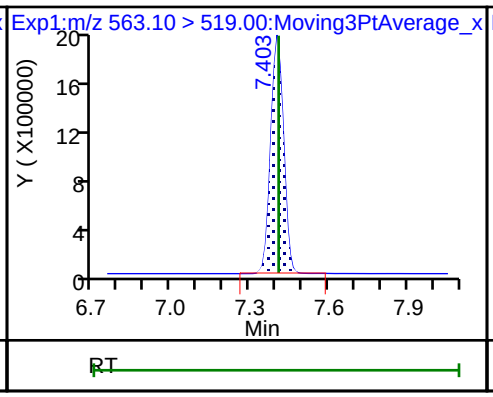
* 57 13C4 PFOS



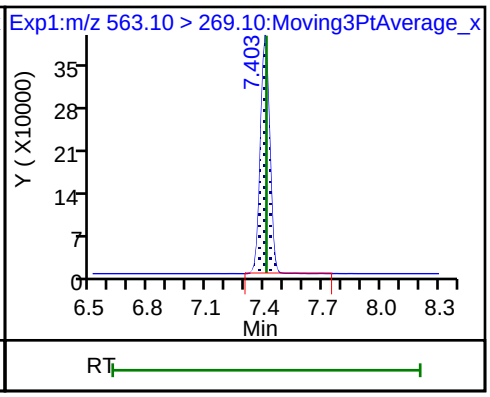
D 59 13C7 PFUnA



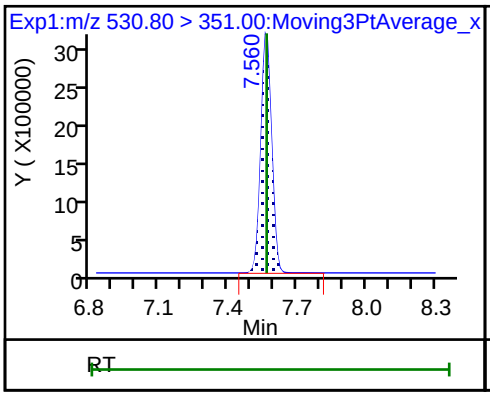
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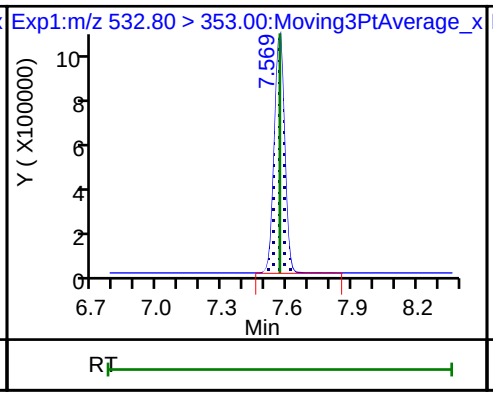
60 PFUnA



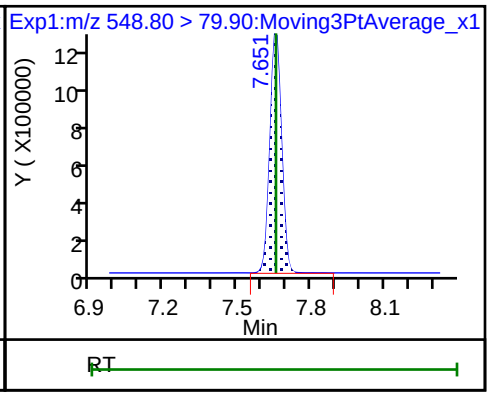
61 9ClFOS



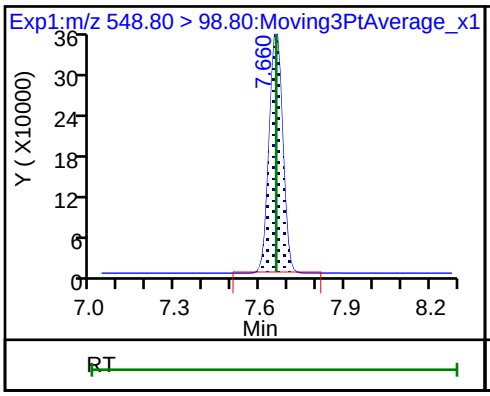
61 9ClFOS



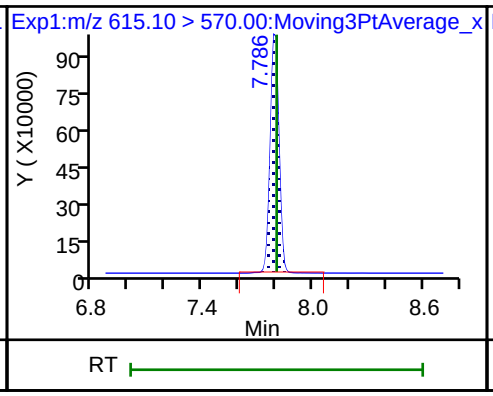
62 PFNS



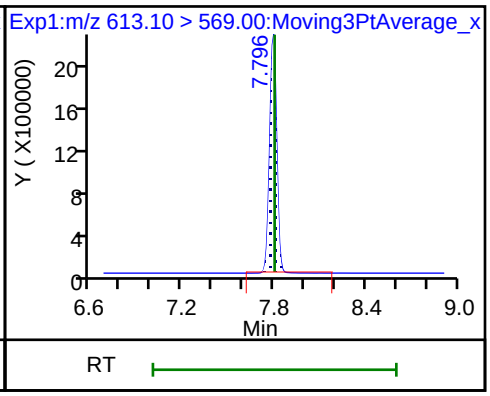
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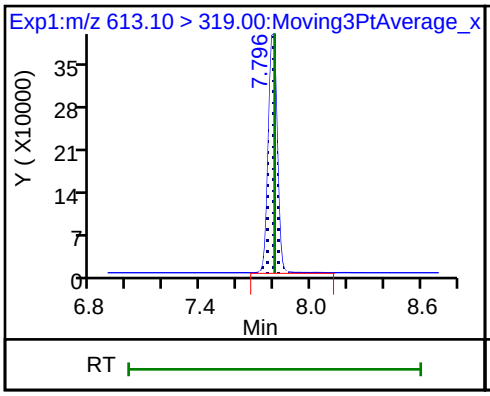
D 81 PFDoA



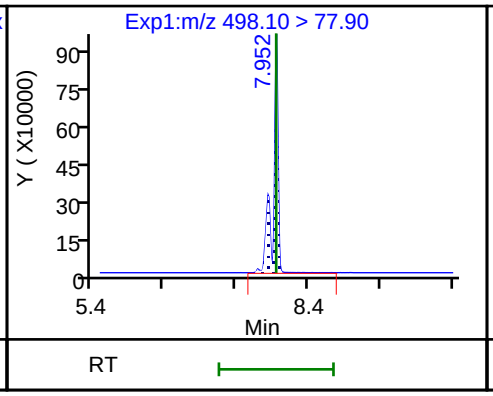
63 PFDoA



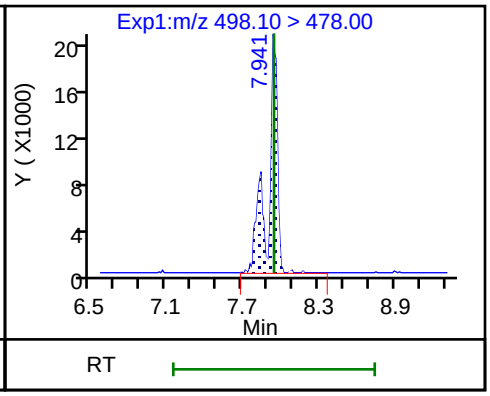
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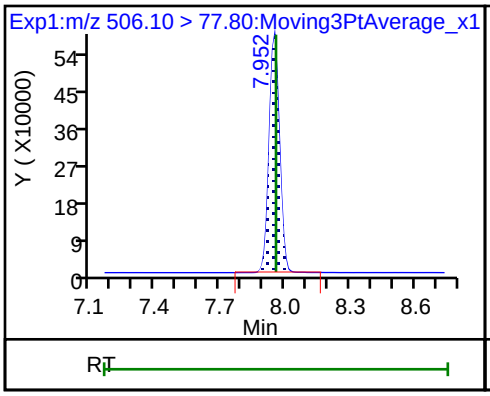
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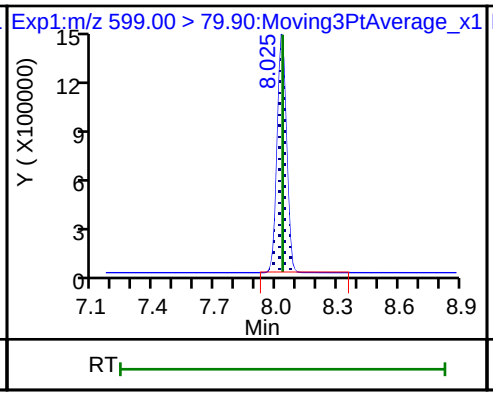
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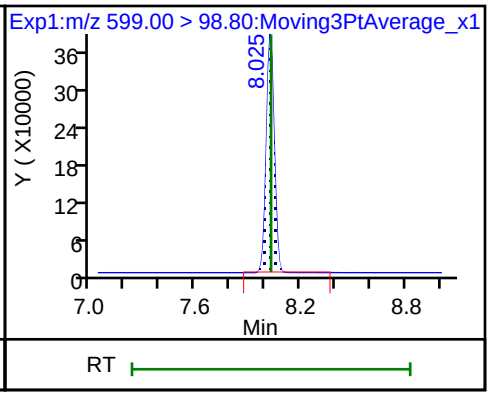
D 65 13C8 FOSA



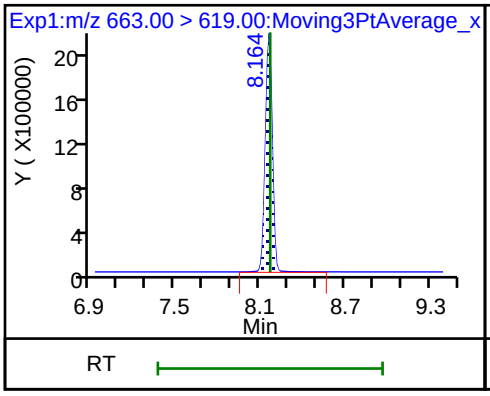
66 PFDS



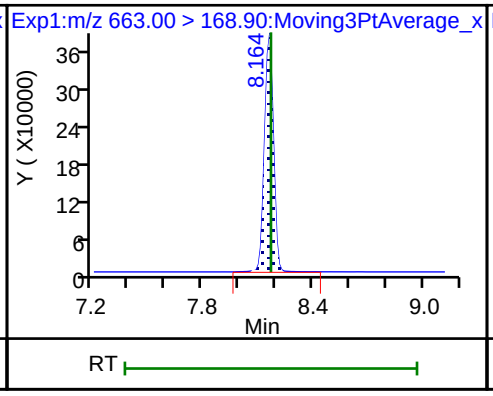
66 PFDS



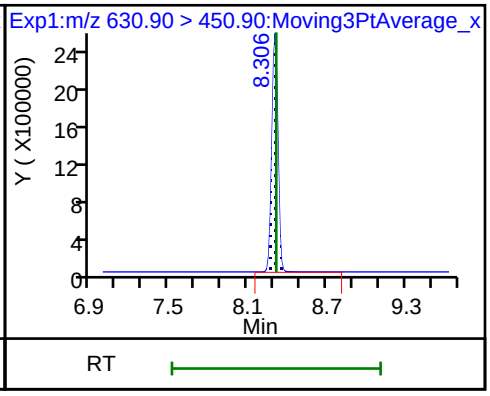
67 PFTrDA



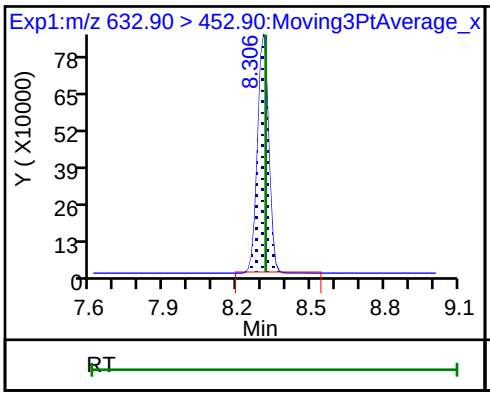
67 PFTrDA



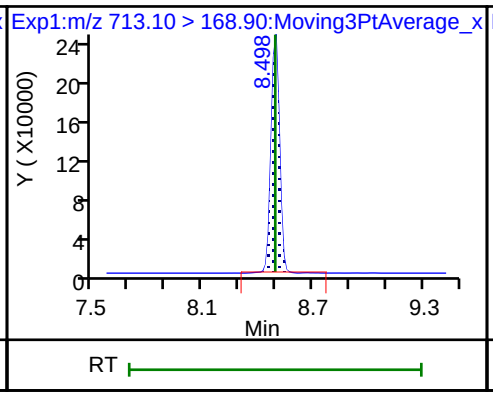
68 11ClFOS



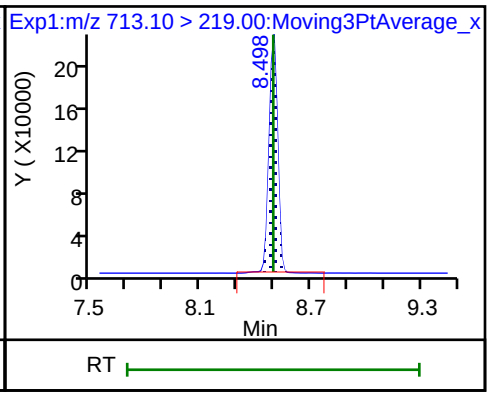
68 11ClFOS



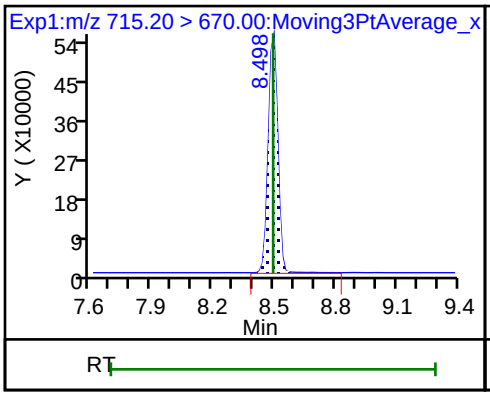
70 PFTeDA



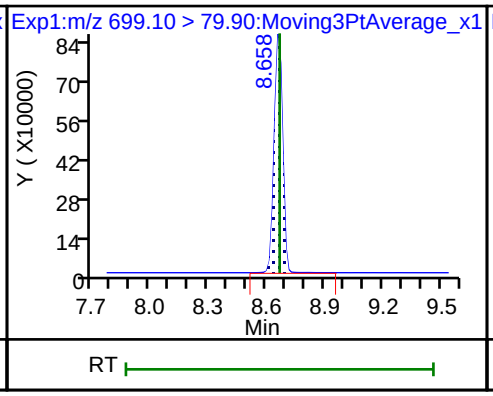
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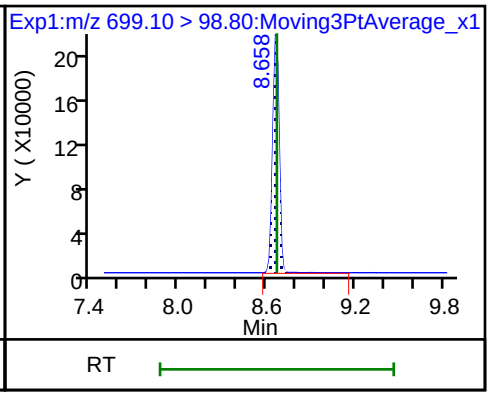
D 69 13C2 PFTeDA



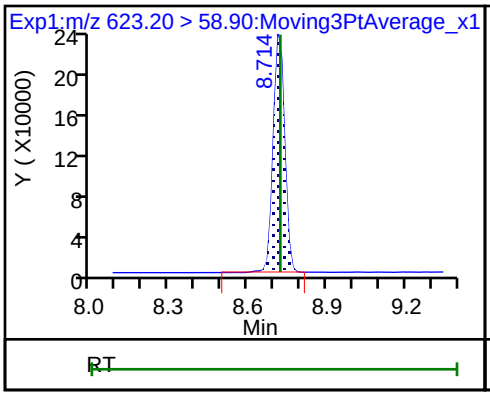
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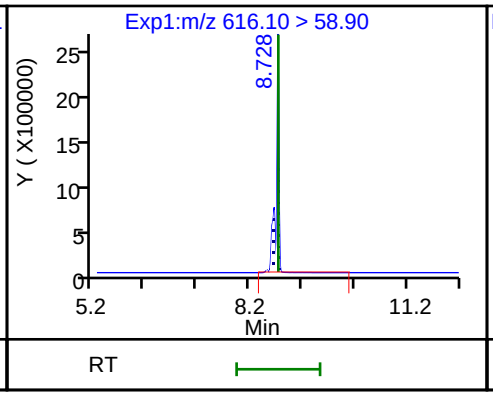
73 PFDoS



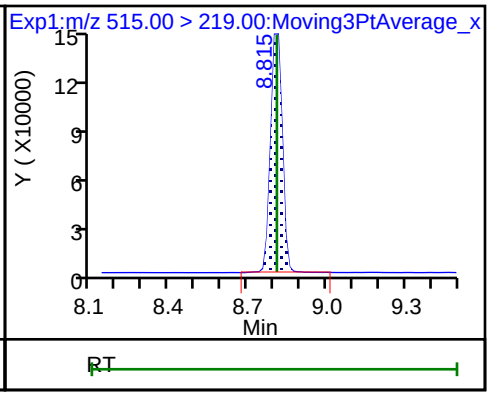
D 71 d7-N-Me-FOSE



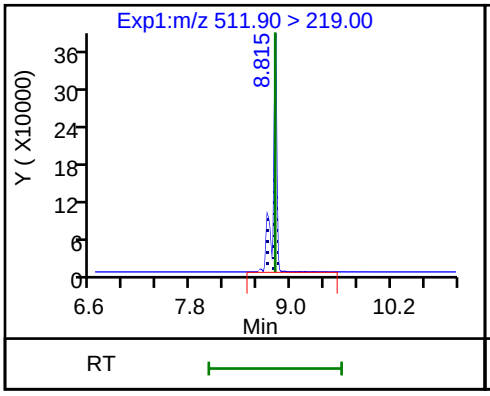
72 N-MeFOSE-M



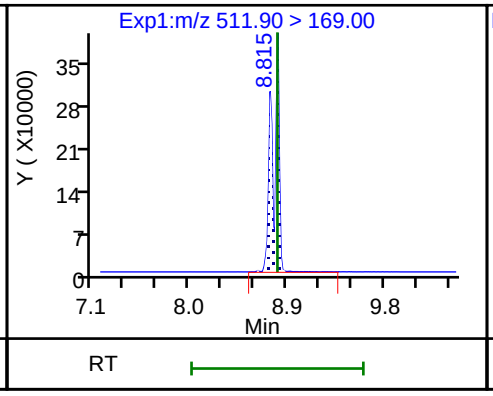
D 74 d3-NMePFOSA



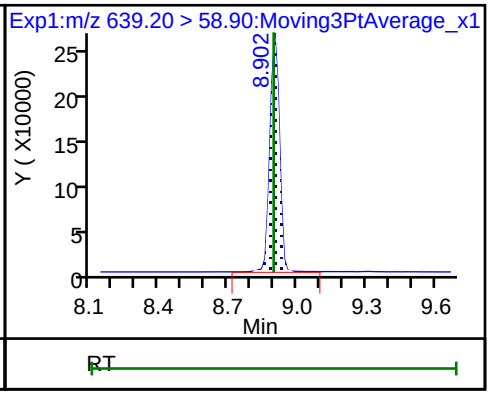
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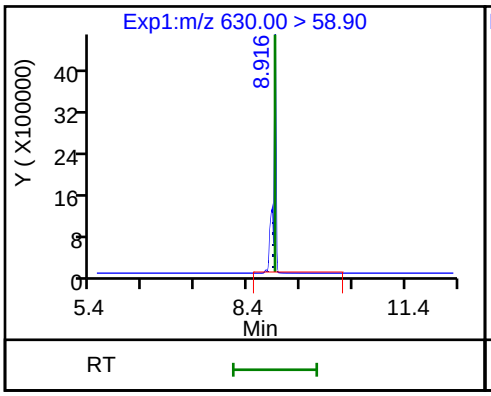
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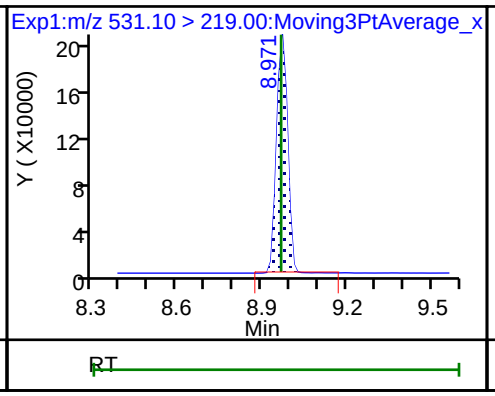
D 76 d9-N-EtFOSE



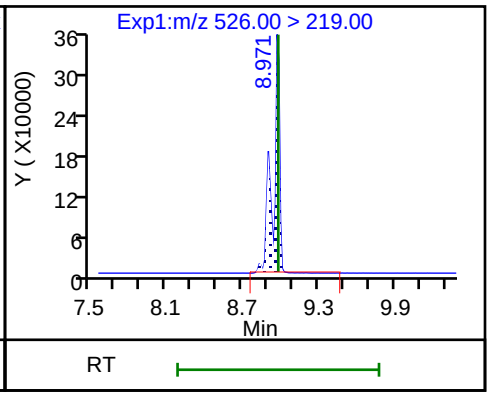
77 N-EtFOSE-M



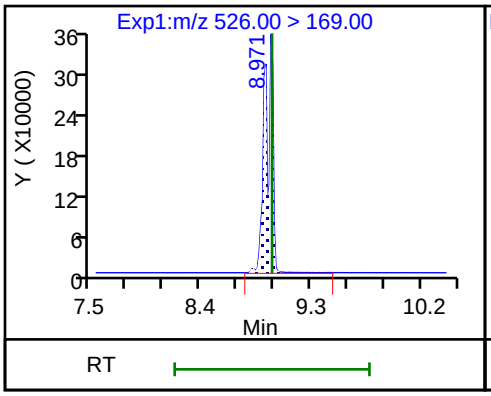
D 78 d5-NEtPFOSA



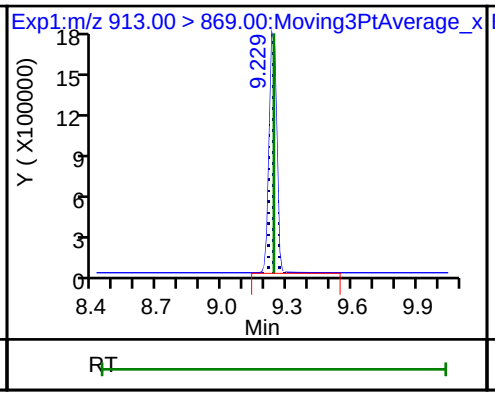
79 N-EtFOSA-M



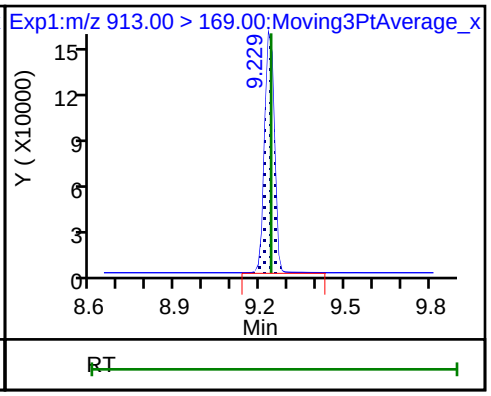
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-07.d
Lims ID: IC CAL 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 02-Feb-2026 13:05:14 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 7
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:57:35 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: P7EB Date: 02-Feb-2026 15:09:32
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										
163.00 > 119.00	2.083	2.098	-0.016	0.996	35595948	50.0		100	24658	
D 2 13C3PFPrA										
166.00 > 121.00	2.090	2.114	-0.024	0.482	1533361	2.04		102	994	
5 PFBA										
212.80 > 168.90	4.330	4.330	0.0	0.998	23619846	19.7		98.4	36751	
D 6 13C4-PFBA										
216.80 > 171.90	4.338	4.338	0.0	1.000	2557702	2.05		102	10237	
* 7 13C3PFBA										
216.00 > 172.00	4.338	4.338	0.0		2069532	2.00			5995	
9 PFMPA										
229.00 > 84.90	4.627	4.627	0.0	0.934	10394919	9.71		97.1	8078	
10 3:3 FTCA										
241.00 > 177.00	4.637	4.637	-0.001	0.936	1025653	19.9	Target=1.27	99.3	1767	
241.00 > 117.00	4.637	4.637	-0.001	0.936	816626		1.26(0.63-1.90)	99.3	4479	
D 11 13C5 PFPeA										
268.30 > 223.00	4.955	4.955	0.0	0.914	2001119	2.05		103	5271	
12 PFPA										
263.00 > 219.00	4.968	4.968	0.0	1.003	11055241	9.70		97.0	8759	
13 PFMBA										
279.00 > 85.10	5.112	5.112	0.0	1.032	12740458	9.88		98.8	55188	
15 4:2FTS										
327.10 > 307.00	5.240	5.240	0.0	1.000	6529279	18.3	Target=1.60	97.6	14904	
327.10 > 80.90	5.240	5.240	0.0	1.000	4275638		1.53(0.80-2.40)	97.6	5267	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.240	5.240	0.0	0.813	964066	4.37		93.1	5748	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.378	5.378	0.0	0.993	5419946	9.95	Target=1.47	99.5	46130	
295.00 > 84.90	5.378	5.378	0.0	0.993	3594317		1.51(0.74-2.21)	99.5	16363	
D 17 13C5 PFHxA										
318.00 > 273.00	5.418	5.418	0.0	1.000	2775135	2.02		101	12513	
* 18 13C2 PFHxA										
315.10 > 270.00	5.418	5.432	-0.014		5944861	5.00			25314	
19 PFHxA										
313.00 > 269.00	5.432	5.432	0.0	1.003	13027924	9.78	Target=11.71	97.8	25125	
313.00 > 118.90	5.432	5.432	0.0	1.003	1073985		12.13(5.85-17.56)	97.8	4564	
22 5:3 FTCA										
341.00 > 237.10	5.500	5.500	0.0	1.015	8807541	51.8	Target=0.90	104	46184	
341.00 > 217.00	5.500	5.500	0.0	1.015	9978871		0.88(0.45-1.35)	104	70154	
21 PFBS										
298.70 > 79.90	5.554	5.568	-0.014	1.000	8907787	8.84	Target=2.89	99.6	9639	
298.70 > 98.80	5.554	5.568	-0.014	1.000	3101965		2.87(1.44-4.33)	99.6	10312	
D 20 13C3 PFBS										
302.10 > 79.90	5.554	5.568	-0.014	0.861	2073929	1.87		100	8272	
28 FBSA										
297.90 > 78.00	5.568	5.582	-0.014	1.003	8758574	9.89		98.9	3649	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.611	5.611	0.0	1.036	1932218	2.05		103	7415	
24 HFPO-DA										
284.90 > 168.90	5.611	5.611	0.0	1.000	6811368	7.35	Target=2.42	98.0	4577	
284.90 > 184.90	5.611	5.611	0.0	1.000	2829899		2.41(1.21-3.62)	98.0	4452	
25 PFEESA										
314.80 > 134.90	5.792	5.791	0.001	1.069	24968942	8.59	Target=13.09	96.3	166491	
314.80 > 82.90	5.792	5.791	0.001	1.069	1963729		12.72(6.55-19.64)	96.3	13120	
27 PFHpA										
363.10 > 319.00	5.846	5.845	0.001	1.000	13209493	9.67	Target=2.35	96.7	6528	
363.10 > 169.00	5.846	5.845	0.001	1.000	5778840		2.29(1.17-3.52)	96.7	8165	
D 26 13C4 PFHpA										
367.10 > 322.00	5.846	5.845	0.001	1.079	2786329	2.07		103	4219	
29 ADONA										
376.90 > 250.90	5.989	5.988	0.001	1.067	28929041	9.16	Target=1.85	96.8	31599	
376.90 > 84.80	5.989	5.988	0.001	1.067	15682432		1.84(0.92-2.77)	96.8	7828	
32 PFPeS										
349.10 > 79.90	6.023	6.033	-0.011	0.934	10553637	9.30	Target=3.28	98.9	12609	
349.10 > 98.90	6.023	6.033	-0.011	0.934	3202067		3.30(1.64-4.92)	98.9	9425	
31 6:2FTS										
427.10 > 407.00	6.034	6.033	0.001	1.000	4382041	18.8	Target=1.80	99.0	5434	
427.10 > 80.90	6.034	6.033	0.001	1.000	2374410		1.85(0.90-2.70)	99.0	8595	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.034	6.033	0.001	0.936	531365	4.05		85.2	2800	
33 BTS										
280.00 > 147.00	6.180	6.189	-0.009	0.958	19049826	10.2		105	23535	
D 35 13C8 PFOA										
421.10 > 376.00	6.233	6.233	0.0	1.000	3427872	2.06		103	8615	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.233	6.233	0.0		8317770	5.00			12454	
36 PFOA										
413.00 > 369.00	6.233	6.233	0.0	1.000	13084845	10.1	Target=2.11	101	1947912	
413.00 > 169.00	6.233	6.233	0.0	1.000	6253656		2.09(1.06-3.17)	101	746791	
39 7:3 FTCA										
441.00 > 316.90	6.296	6.296	0.0	1.162	8140278	52.7	Target=0.82	105	3379	
441.00 > 336.90	6.296	6.296	0.0	1.162	9908596		0.82(0.41-1.23)	105	4156	
40 PFHxS										
398.70 > 79.90	6.448	6.460	-0.012	1.000	9975990	9.02	Target=3.44	98.9	16887	
398.70 > 98.90	6.448	6.460	-0.012	1.000	2832965		3.52(1.72-5.16)	98.9	5092	
* 38 18O2 PFHxS										
403.00 > 83.90	6.448	6.460	-0.012		1655188	1.90			3990	
D 37 13C3 PFHxS										
402.10 > 79.90	6.448	6.460	-0.012	1.000	1637974	1.87		98.8	5504	
* 41 13C5 PFNA										
468.00 > 423.00	6.620	6.620	0.0		2933767	2.00			10051	
43 PFNA										
463.00 > 419.00	6.620	6.620	0.0	1.000	12243666	9.21	Target=2.84	92.1	3636923	
463.00 > 219.00	6.620	6.620	0.0	1.000	4389102		2.79(1.42-4.26)	92.1	530975	
D 42 13C9 PFNA										
472.10 > 427.00	6.620	6.620	0.0	1.000	3032084	2.06		103	10844	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.790	6.790	0.0	1.053	616389	4.83		101	1714	
45 8:2FTS										
527.10 > 507.00	6.790	6.790	0.0	1.000	4109263	19.5	Target=1.52	102	18850	
527.10 > 80.80	6.790	6.790	0.0	1.000	2548390		1.61(0.76-2.28)	102	6940	
46 PFECHS										
461.00 > 381.00	6.824	6.824	0.0	1.058	2725652	9.48	Target=0.31	103	13519	
461.00 > 99.00	6.824	6.824	0.0	1.058	9019932		0.30(0.16-0.47)	103	28071	
47 PFHpS										
449.00 > 79.90	6.858	6.857	0.001	0.945	8638480	9.71	Target=3.44	102	5742	
449.00 > 98.80	6.858	6.857	0.001	0.945	2423056		3.57(1.72-5.16)	102	4359	
53 FHxSA										
397.90 > 78.00	6.869	6.869	0.0	1.065	12239999	10.3		103	5903	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.941	6.940	0.001	0.955	1628092	5.58		112	2984	
49 NMeFOSAA										
570.10 > 419.00	6.941	6.940	0.001	1.000	3525334	9.69	Target=1.84	96.9	7814	
570.10 > 483.00	6.941	6.940	0.001	1.000	1918523		1.84(0.92-2.76)	96.9	3711	
D 50 13C6 PFDA										
519.10 > 474.10	7.015	7.015	0.0	1.000	2968739	2.06		103	10416	
* 52 13C2 PFDA										
515.10 > 470.10	7.015	7.015	0.0		2821426	2.00			8510	
51 PFDA										
512.90 > 469.00	7.015	7.015	0.0	1.000	11827432	9.51	Target=4.61	95.1	8795	
512.90 > 219.00	7.015	7.015	0.0	1.000	2583844		4.58(2.31-6.92)	95.1	3035	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.111	7.124	-0.013	0.978	1419720	5.51		110	4185	
55 NEtFOSAA										
584.20 > 419.10	7.124	7.124	0.0	1.002	2296236	9.85	Target=1.44	98.5	719638	
584.20 > 526.00	7.124	7.124	0.0	1.002	1666687		1.38(0.72-2.16)	98.5	2071	
58 PFOS										
498.90 > 79.90	7.267	7.255	0.012	1.002	10281147	9.67	Target=4.21	104	1283131	
498.90 > 98.80	7.255	7.255	0.0	1.000	2366156		4.35(2.11-6.32)	104	6210	
D 56 13C8 PFOS										
507.10 > 79.90	7.255	7.267	-0.012	0.998	1412203	1.95		102	161	
* 57 13C4 PFOS										
502.80 > 79.90	7.267	7.267	0.0		1502514	1.92			8670	
D 59 13C7 PFUnA										
570.00 > 525.10	7.409	7.409	0.0	1.056	3408605	1.97		98.5	4358	
60 PFUnA										
563.10 > 519.00	7.409	7.409	0.0	1.000	13165380	10.4	Target=5.05	104	11725	
563.10 > 269.10	7.409	7.409	0.0	1.000	2551777		5.16(2.52-7.57)	104	10848	
61 9ClFOS										
530.80 > 351.00	7.566	7.566	0.0	1.043	20051598	9.54	Target=3.14	102	222307	
532.80 > 353.00	7.566	7.566	0.0	1.043	6516373		3.08(1.57-4.71)	102	12466	
62 PFNS										
548.80 > 79.90	7.657	7.656	0.001	1.055	8067541	9.51	Target=3.68	98.9	10053	
548.80 > 98.80	7.657	7.656	0.001	1.055	2276704		3.54(1.84-5.52)	98.9	16999	
D 81 PFDoA										
615.10 > 570.00	7.792	7.801	-0.009	1.111	3274670	2.14		107	7292	
63 PFDoA										
613.10 > 569.00	7.802	7.801	0.001		14509100	9.93	Target=5.59	99.3	27069	
613.10 > 319.00	7.802	7.801	0.001		2641352		5.49(2.80-8.39)	99.3	13571	
64 PFOSA										
498.10 > 77.90	7.958	7.947	0.011	1.000	8799999	9.71	Target=41.61	97.1	19883	
498.10 > 478.00	7.958	7.947	0.011	1.000	208622		42.18(20.81-62.42)	97.1	442	
D 65 13C8 FOSA										
506.10 > 77.80	7.958	7.957	0.001	1.095	1975083	2.20		110	7596	
66 PFDS										
599.00 > 79.90	8.031	8.031	0.0	1.107	8416905	9.76	Target=3.58	101	62764	
599.00 > 98.80	8.031	8.031	0.0	1.107	2325423		3.62(1.79-5.38)	101	17733	
67 PFTrDA										
663.00 > 619.00	8.170	8.170	0.0	0.962	14918045	9.66	Target=5.80	96.6	57056	
663.00 > 168.90	8.170	8.170	0.0	0.962	2539161		5.88(2.90-8.70)	96.6	5249	
68 11ClFOS										
630.90 > 450.90	8.314	8.314	0.0	1.146	15568488	9.59	Target=3.03	102	119845	
632.90 > 452.90	8.314	8.314	0.0	1.146	5108223		3.05(1.51-4.55)	102	14707	
70 PFTeDA										
713.10 > 168.90	8.494	8.494	0.0	1.000	1630354	10.3	Target=1.08	103	4140	
713.10 > 219.00	8.494	8.494	0.0	1.000	1378908		1.18(0.54-1.62)	103	1236	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.494	8.494	0.0	1.211	1809567	2.14		107	6869	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.667	8.667	0.0	1.195	5182622	10.1	Target=4.08	105	19001	
699.10 > 98.80	8.667	8.667	0.0	1.195	1245366		4.16(2.04-6.11)	105	12038	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.723	8.723	0.0	1.200	747186	5.69		114	680	
72 N-MeFOSE-M										
616.10 > 58.90	8.737	8.737	0.0	1.002	19688191	49.0		98.1	3033350	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.809	8.809	0.0	1.212	438166	2.15		108	2807	
75 NMeFOSA										
511.90 > 219.00	8.824	8.809	0.015	1.002	2217920	9.89	Target=0.70	98.9	706397	
511.90 > 169.00	8.824	8.809	0.015	1.002	3202757		0.69(0.35-1.06)	98.9	776537	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.911	8.897	0.014	1.226	727574	5.44		109	1084	
77 N-EtFOSE-M										
630.00 > 58.90	8.925	8.911	0.014	1.002	28245248	49.1		98.3	3087211	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.981	8.967	0.014	1.236	533251	2.14		107	2662	
79 N-EtFOSA-M										
526.00 > 219.00	8.981	8.981	0.0	1.000	2501256	9.96	Target=0.80	99.6	12718	
526.00 > 169.00	8.981	8.981	0.0	1.000	3163368		0.79(0.40-1.20)	99.6	13062	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.238	9.238	0.0	1.088	9613451	11.2	Target=11.76	112	273096	
913.00 > 169.00	9.238	9.238	0.0	1.088	758965		12.67(5.88-17.64)	112	15073	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL7_00036 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 17:57:40 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-07.d

Injection Date: 02-Feb-2026 13:05:14 Instrument ID: 30575

Lims ID: IC CAL 7

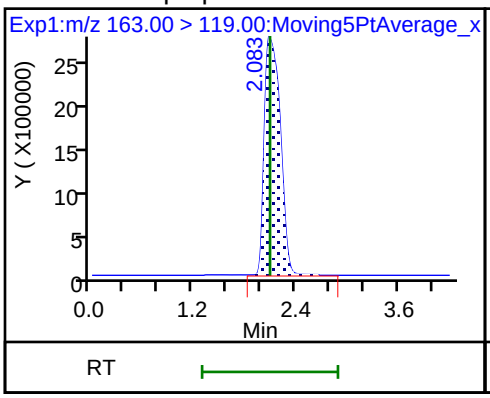
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Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 8 Worklist Smp#: 7

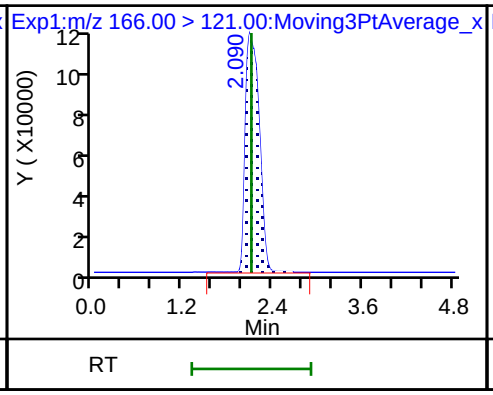
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

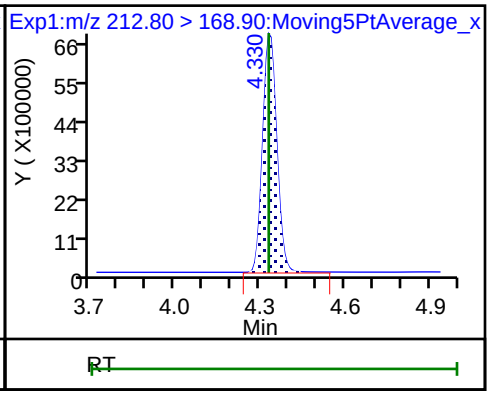
1 Perfluoropropionic acid



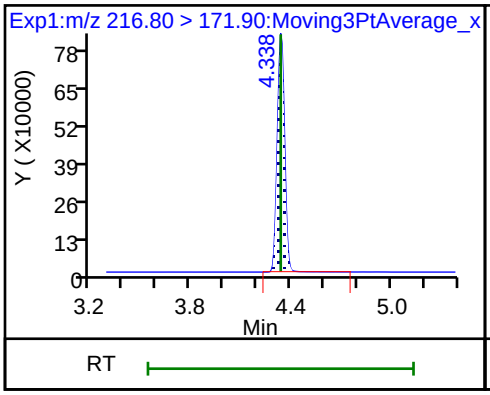
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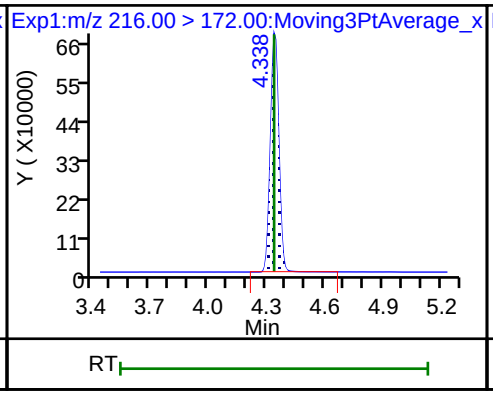
5 PFBA



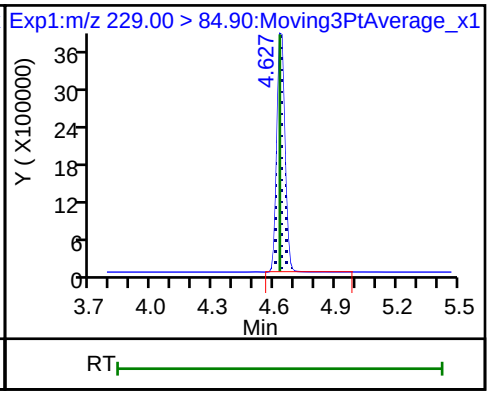
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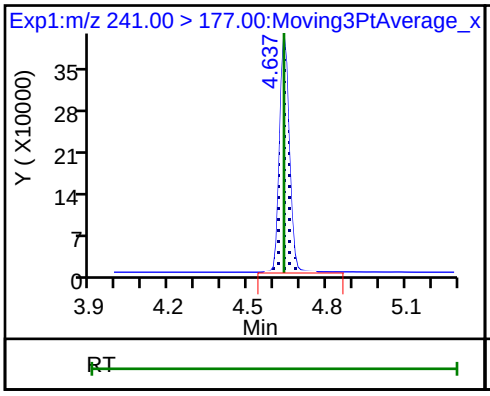
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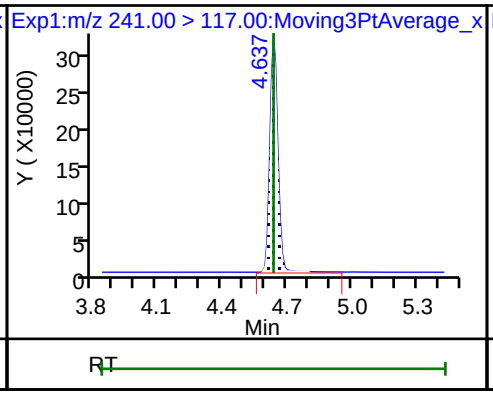
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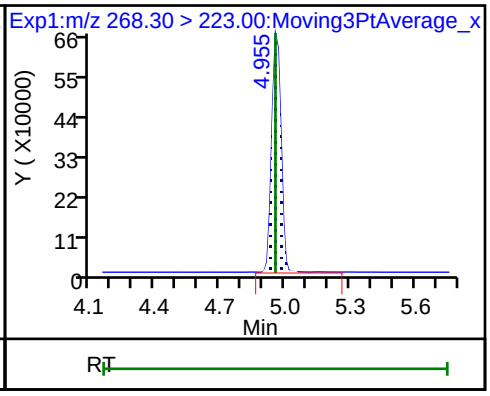
10 3:3 FTCA



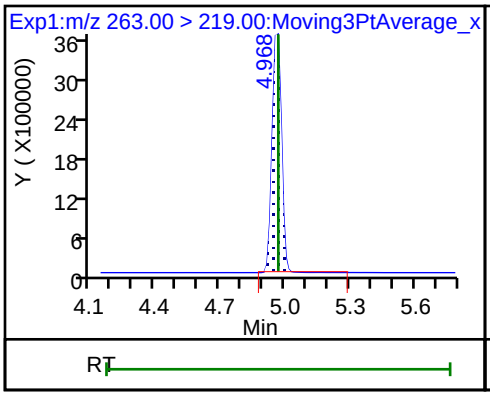
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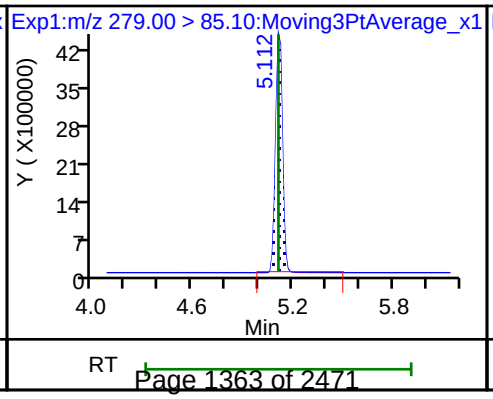
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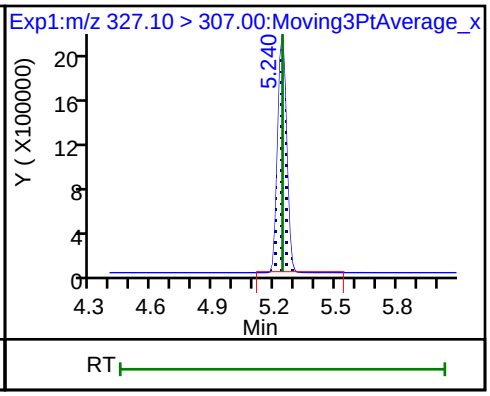
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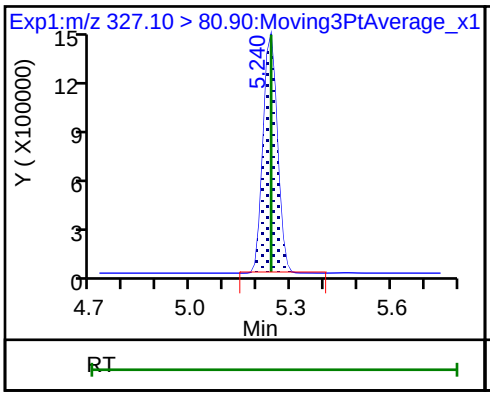
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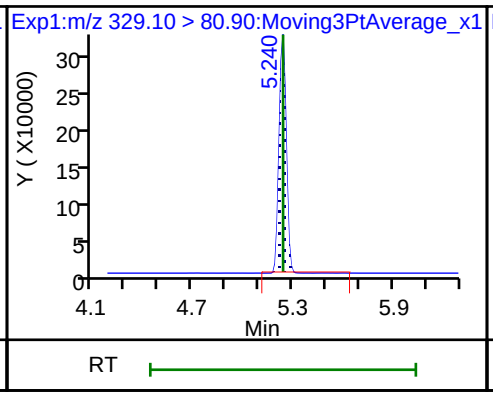
15 4:2FTS



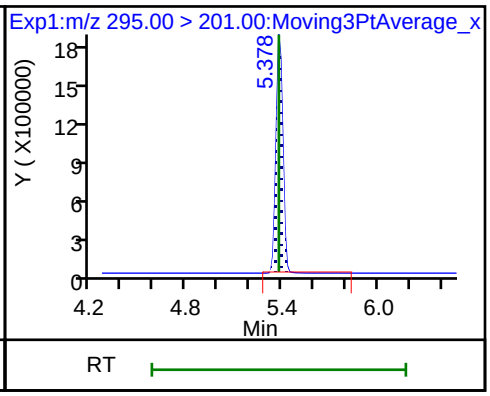
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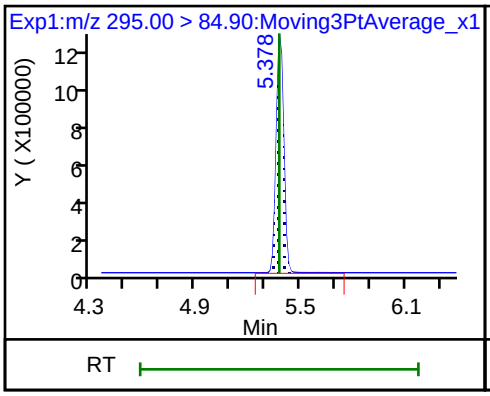
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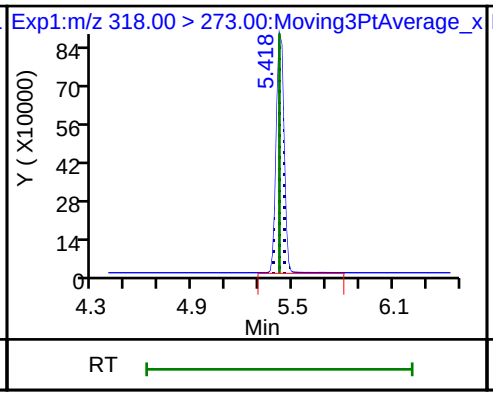
16 NFDHA



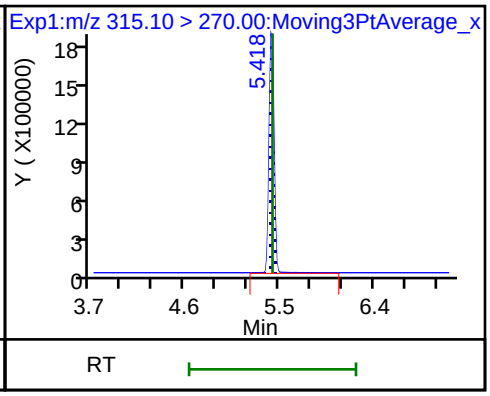
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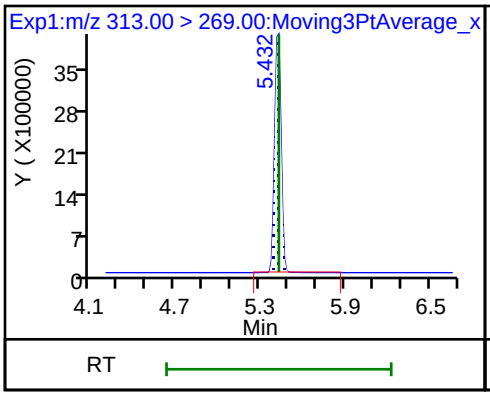
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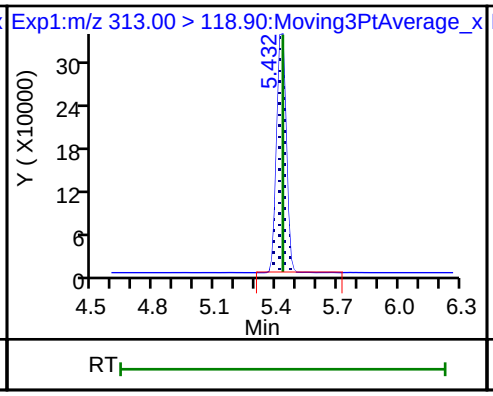
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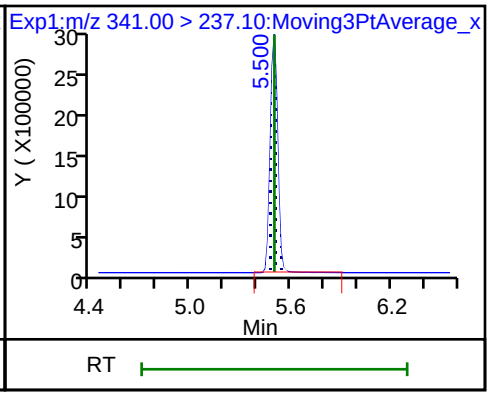
19 PFHxA



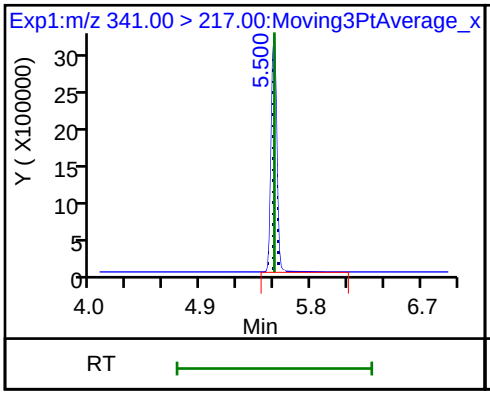
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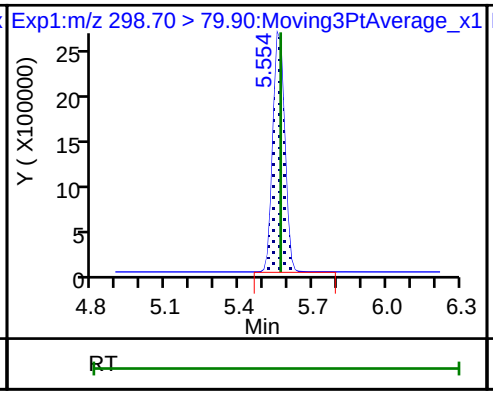
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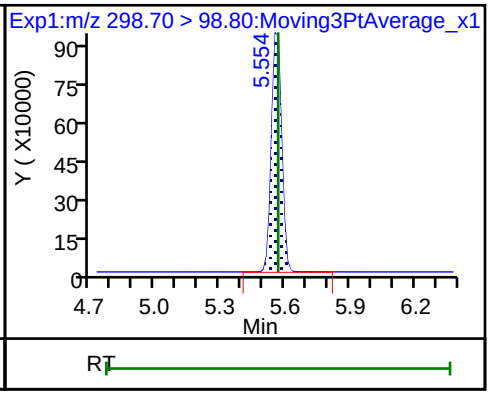
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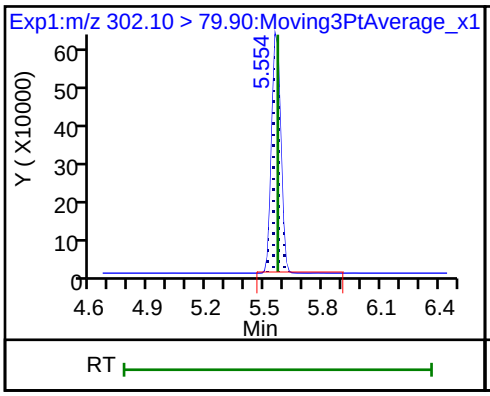
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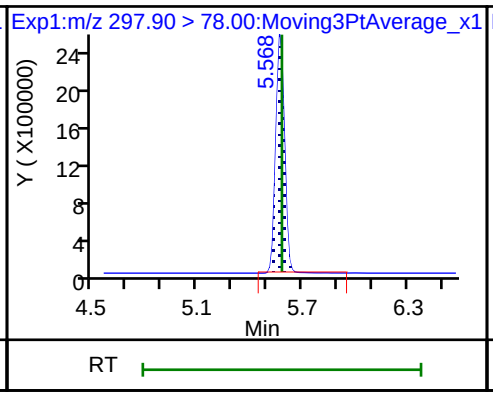
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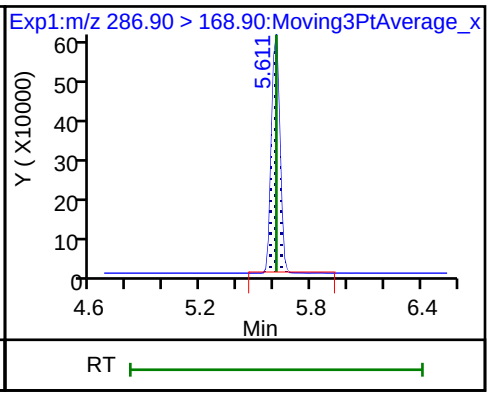
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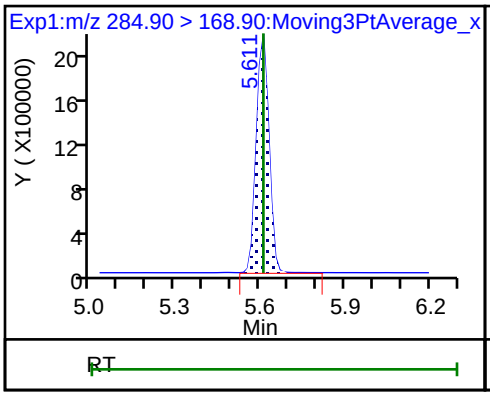
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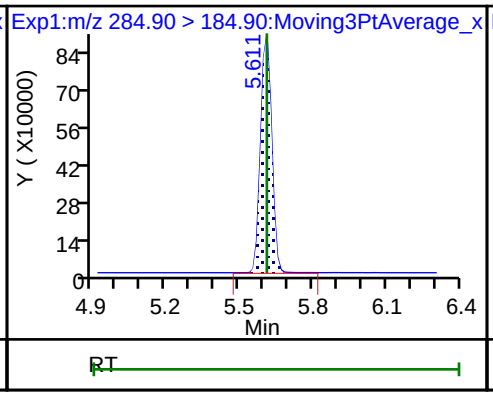
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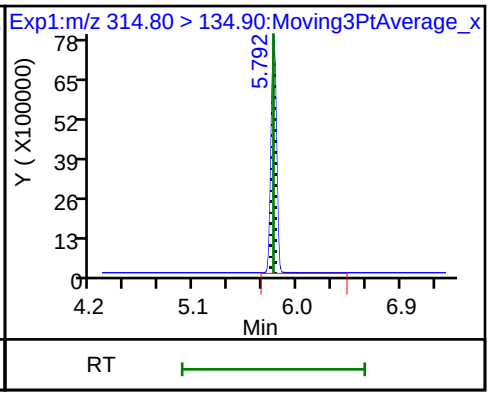
24 HFPO-DA



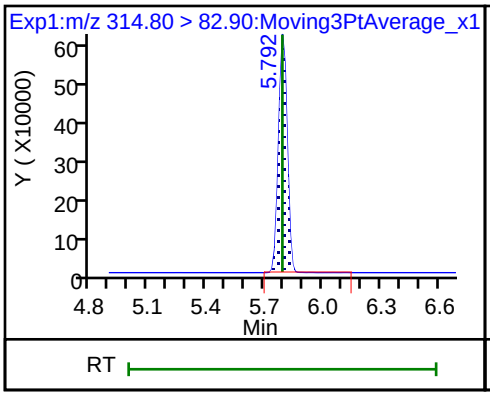
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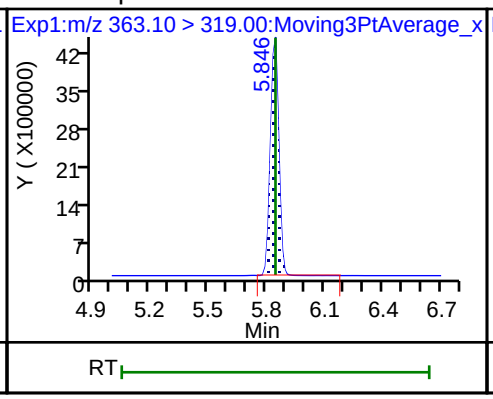
25 PFEESA



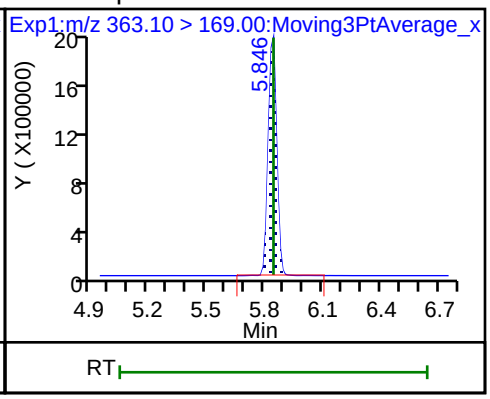
25 PFEESA



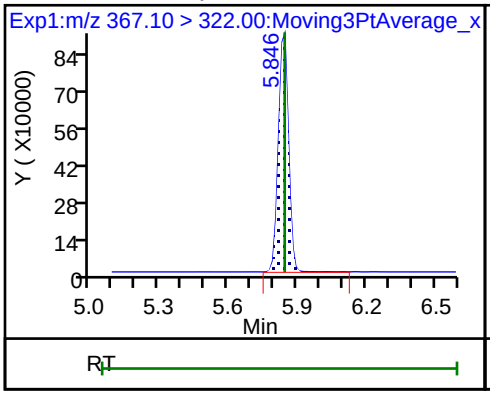
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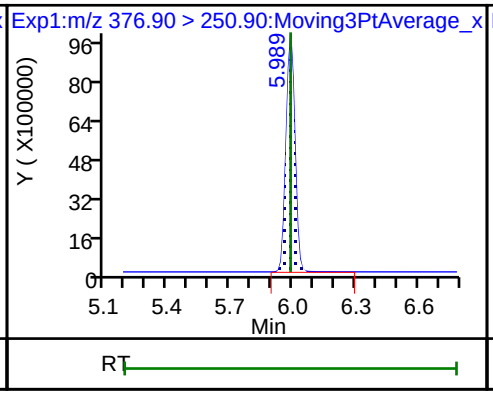
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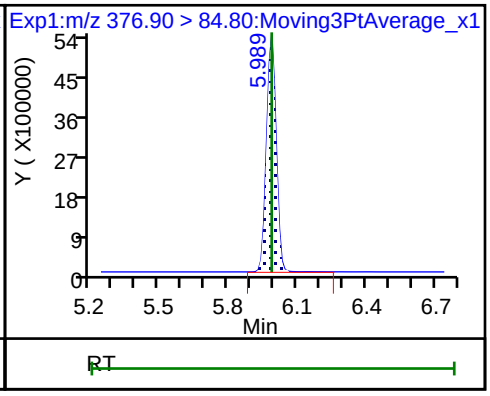
D 26 13C4 PFHpA



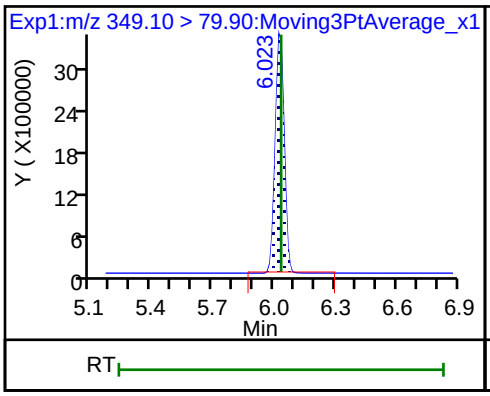
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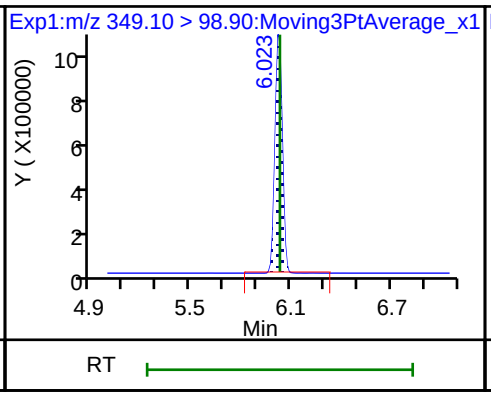
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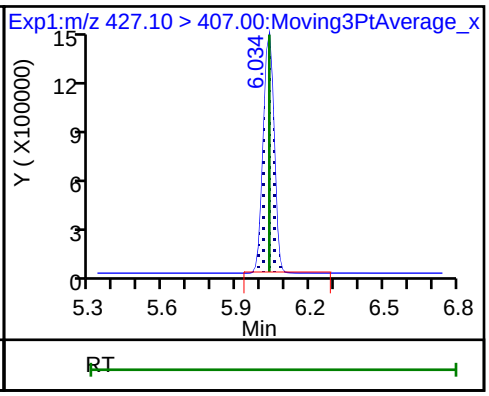
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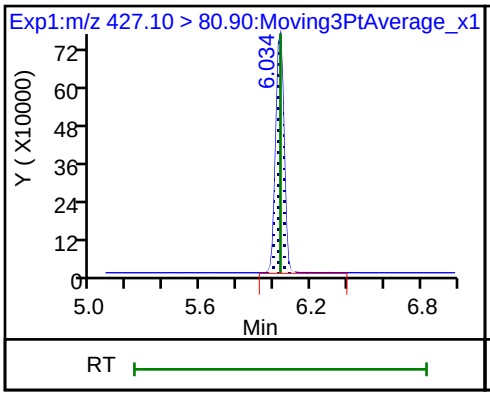
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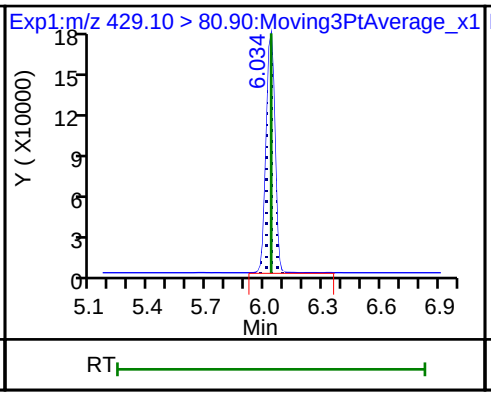
31 6:2FTS



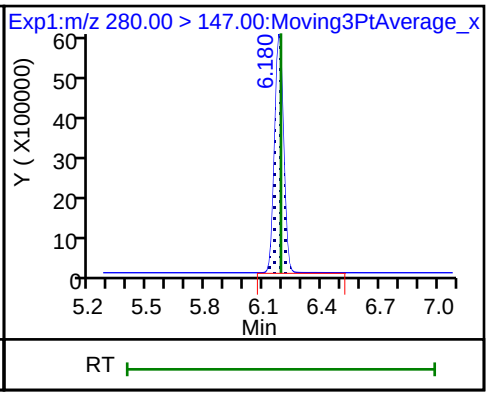
31 6:2FTS



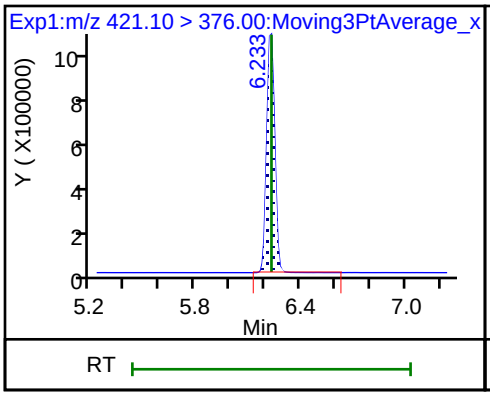
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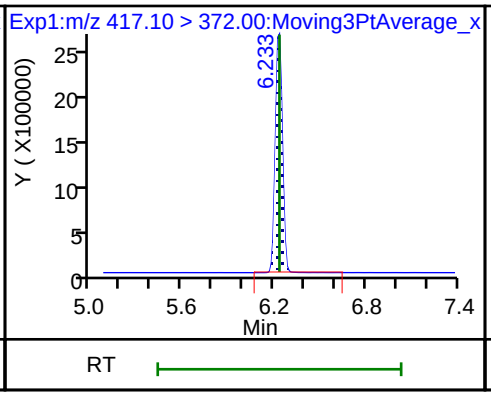
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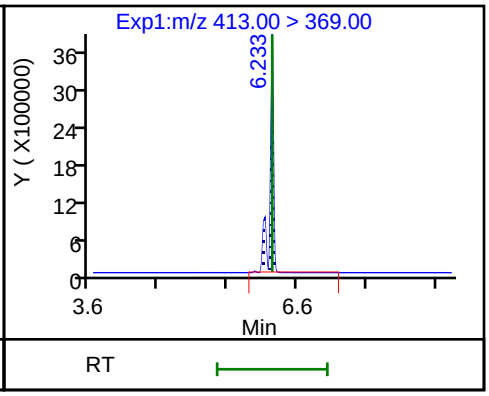
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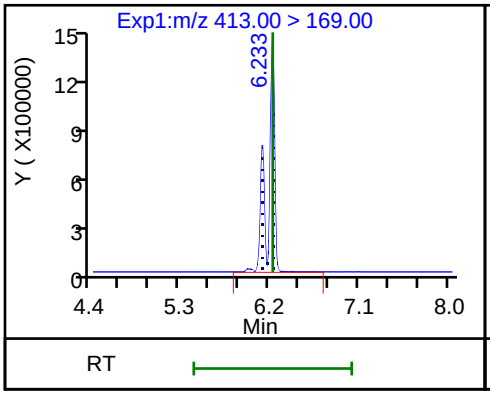
* 34 13C4 PFOA



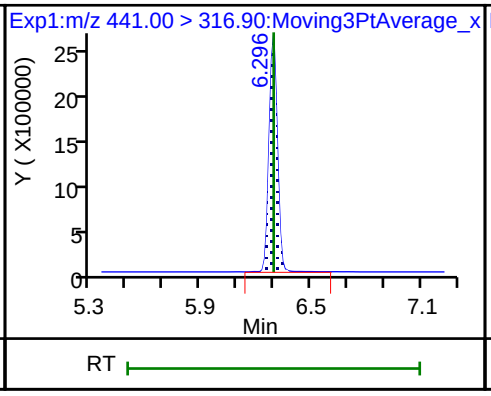
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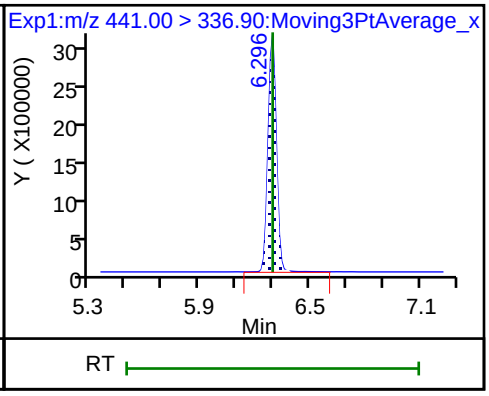
36 PFOA



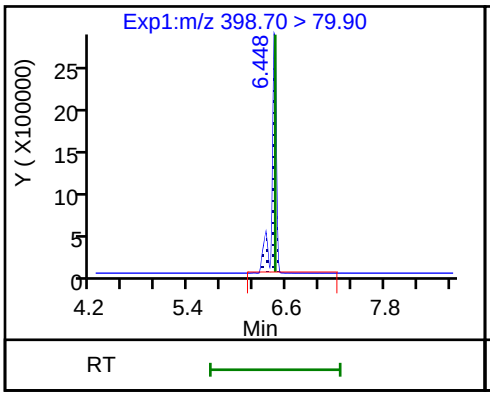
39 7:3 FTCA



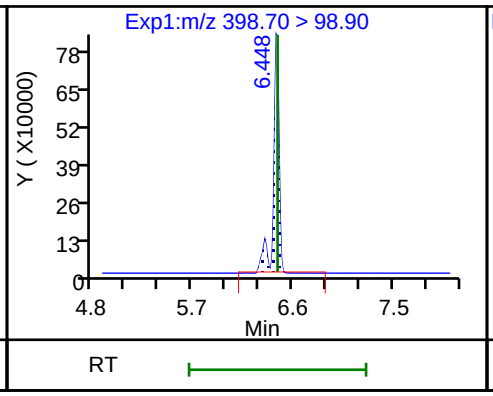
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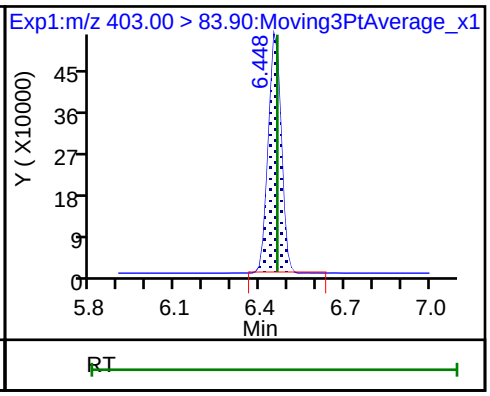
40 PFHxS



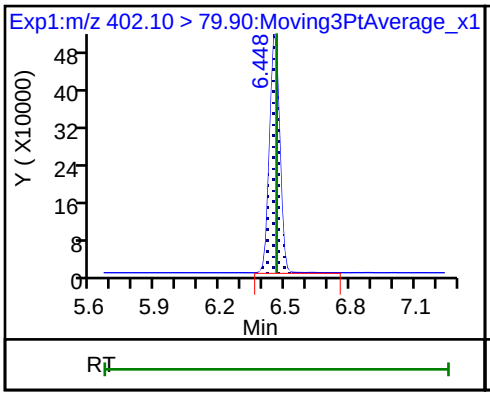
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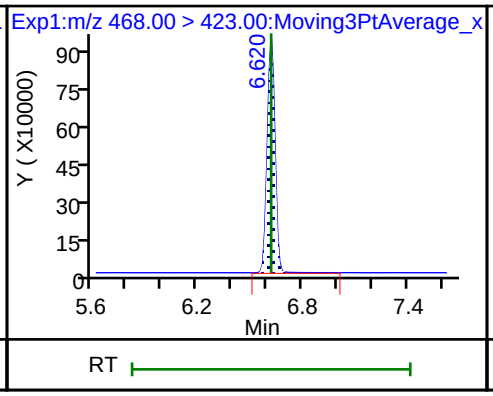
* 38 18O2 PFHxS



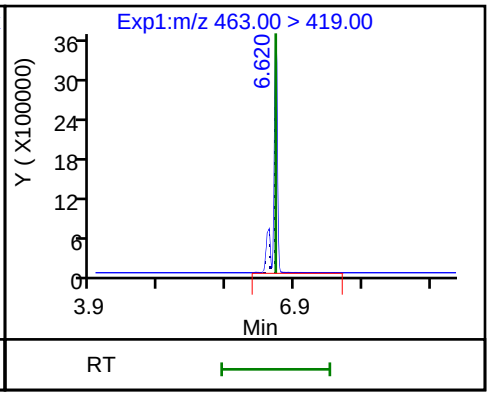
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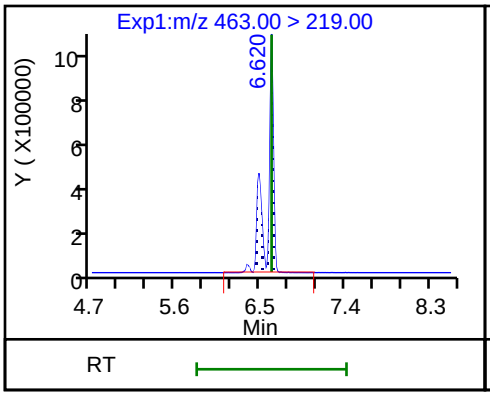
* 41 13C5 PFNA



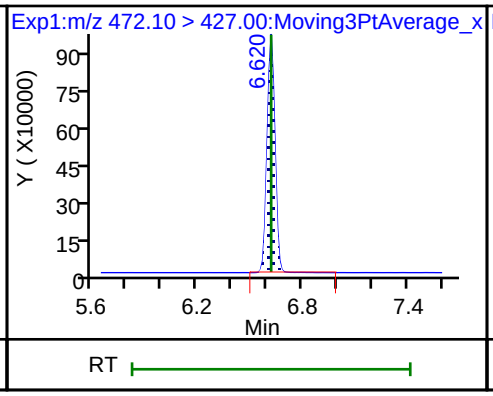
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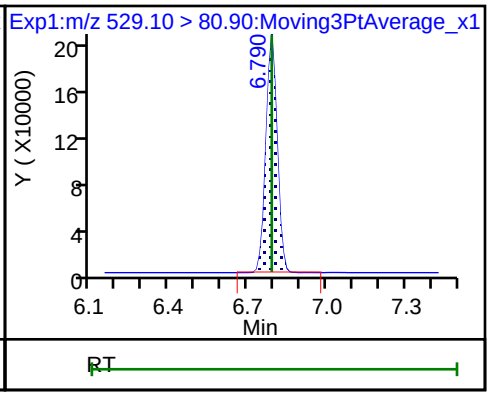
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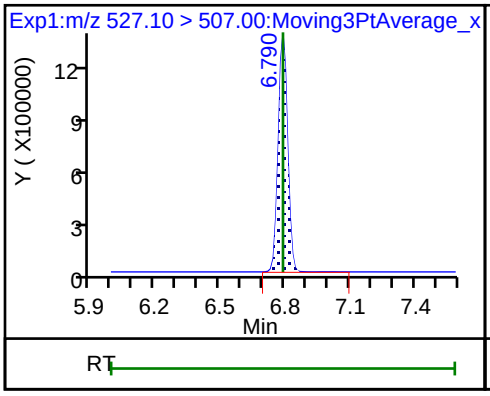
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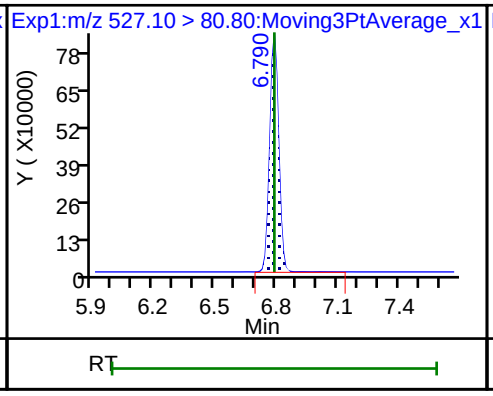
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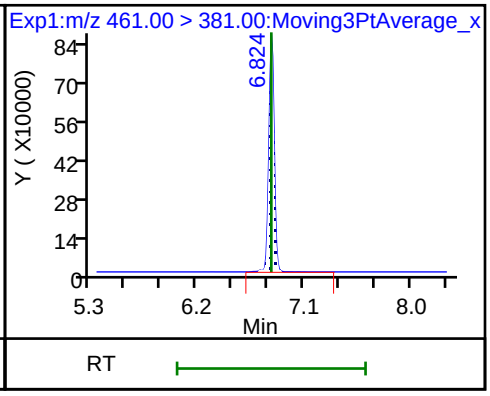
45 8:2FTS



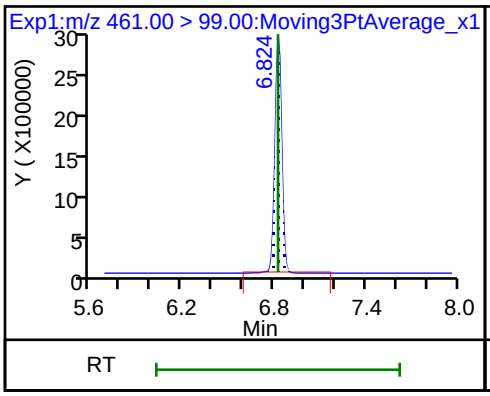
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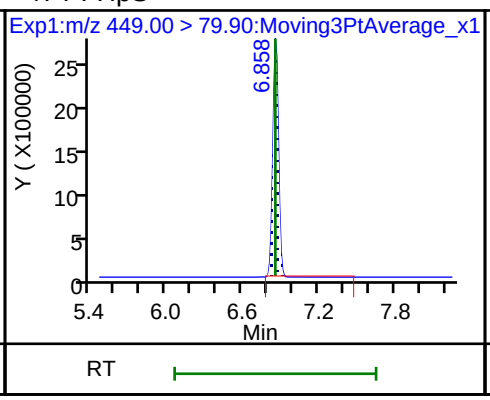
46 PFECHS



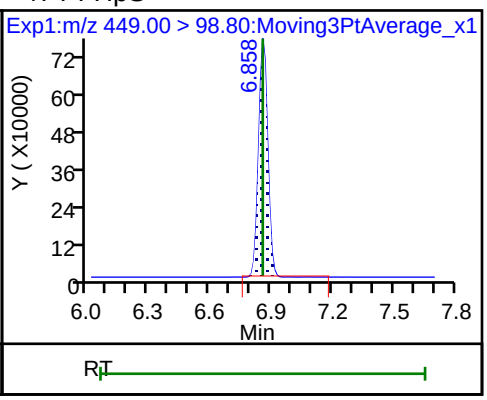
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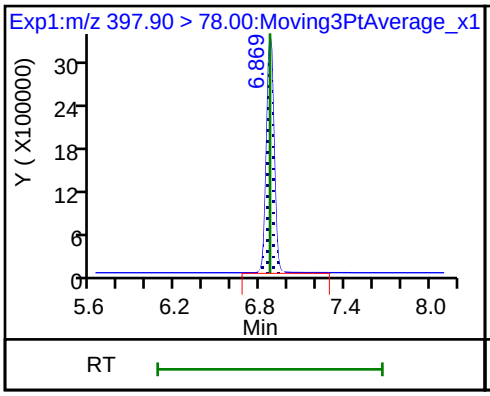
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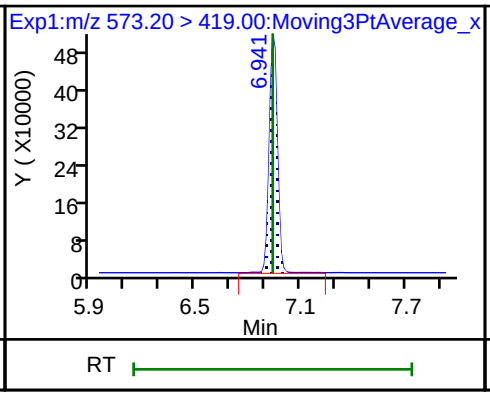
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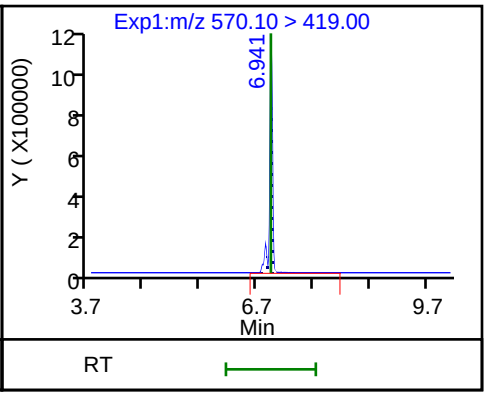
53 FHxSA



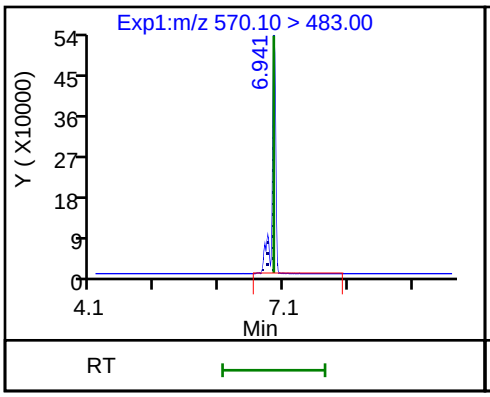
D 48 d3-NMeFOSAA



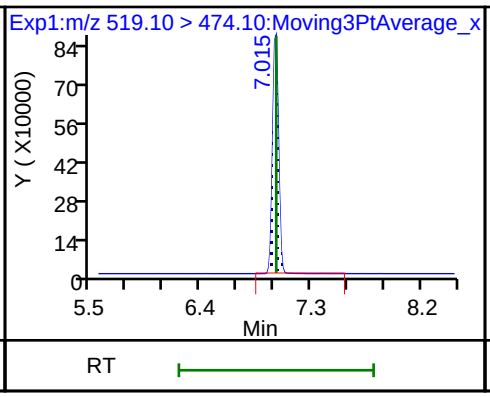
49 NMeFOSAA



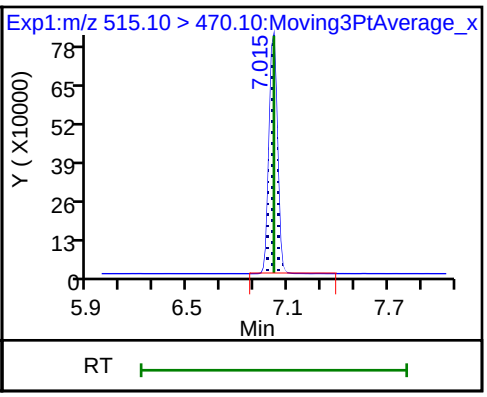
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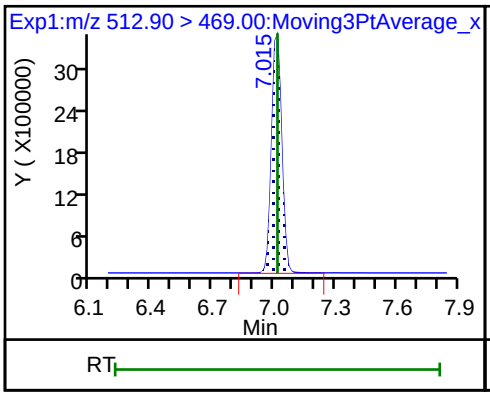
D 50 13C6 PFDA



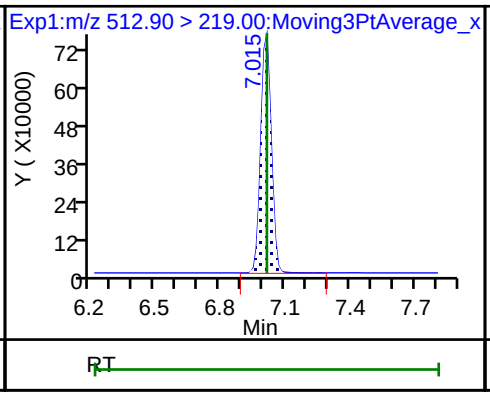
* 52 13C2 PFDA



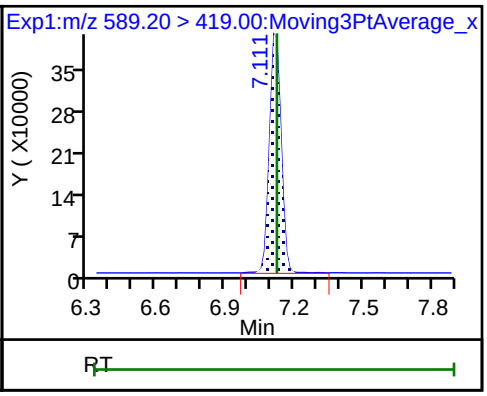
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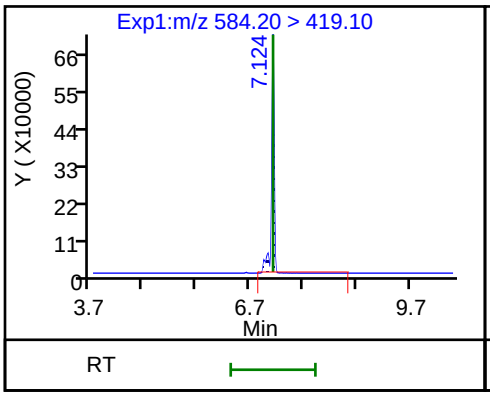
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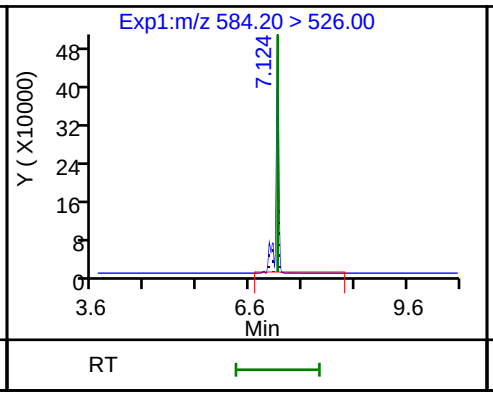
D 54 d5-NEtFOSAA



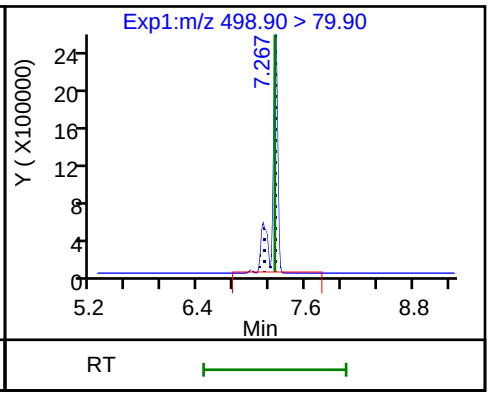
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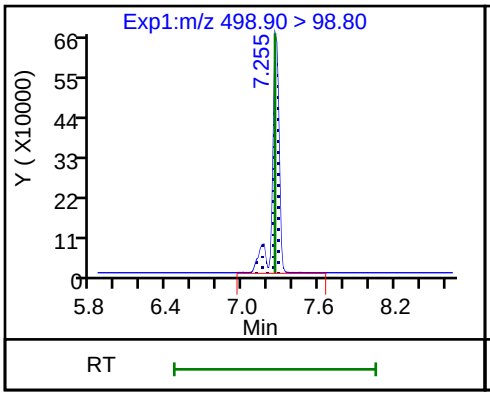
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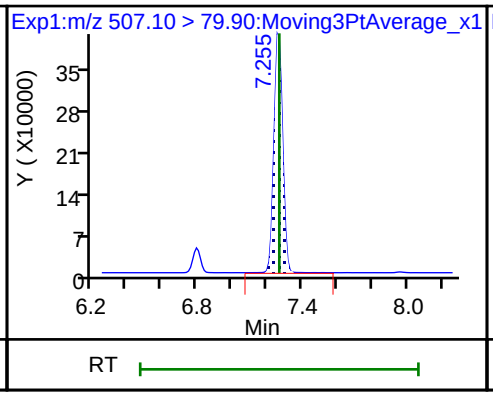
58 PFOS



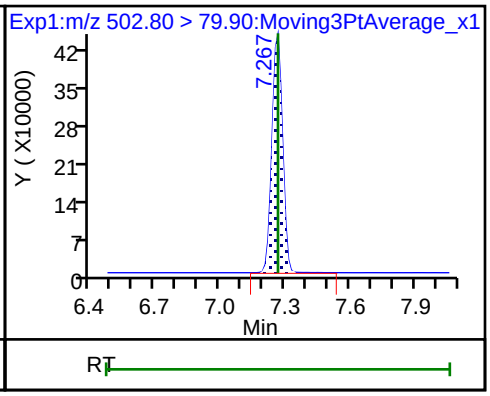
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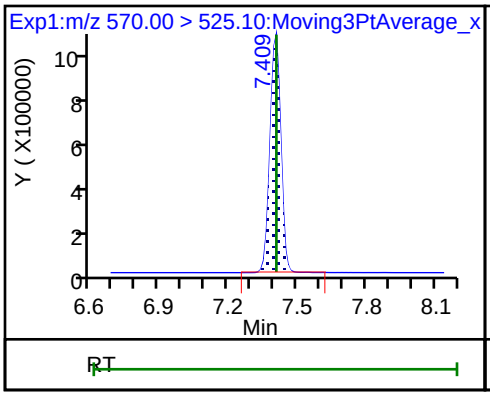
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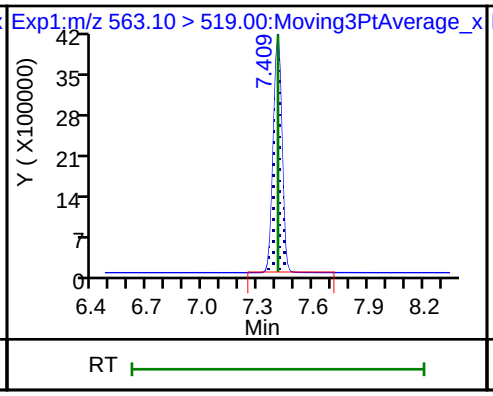
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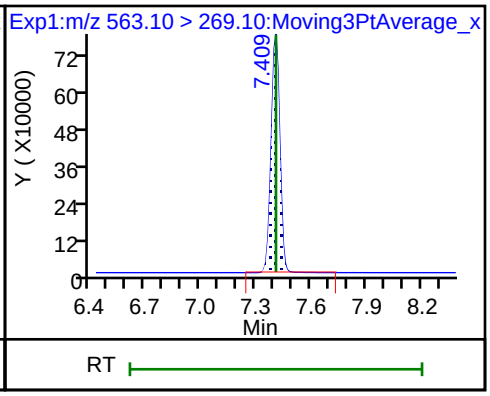
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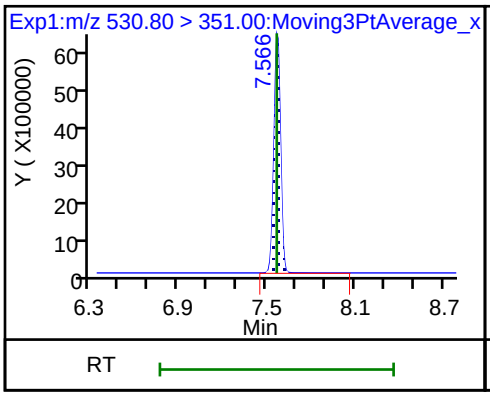
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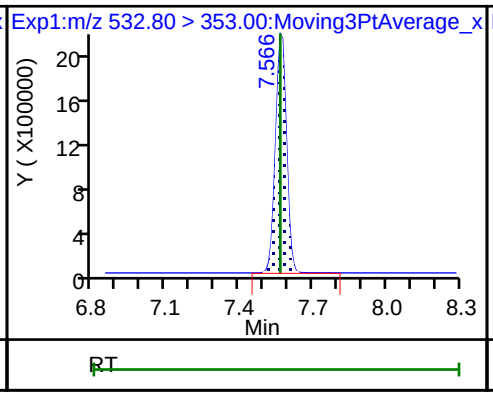
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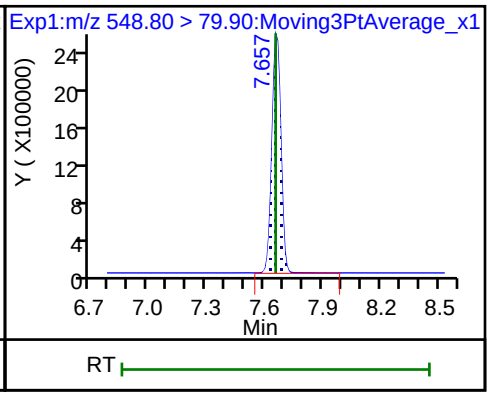
61 9ClFOS



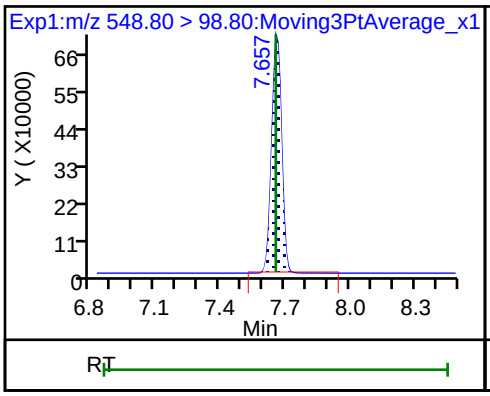
61 9ClFOS



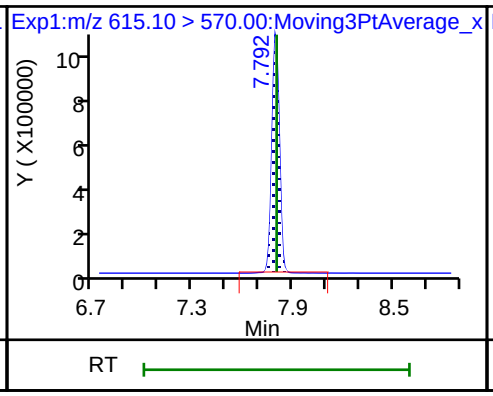
62 PFNS



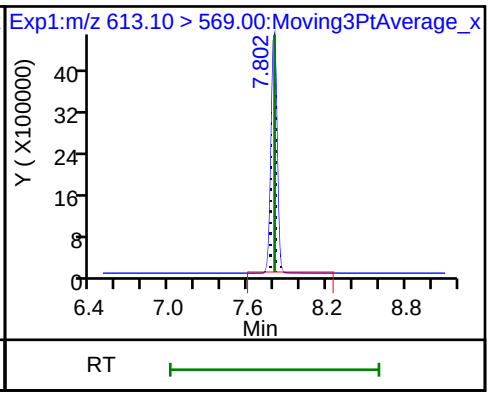
62 PFNS



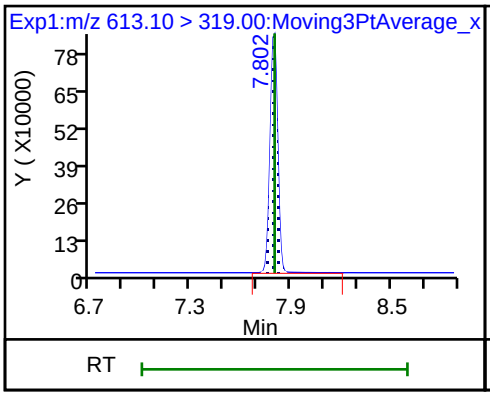
D 81 PFDoA



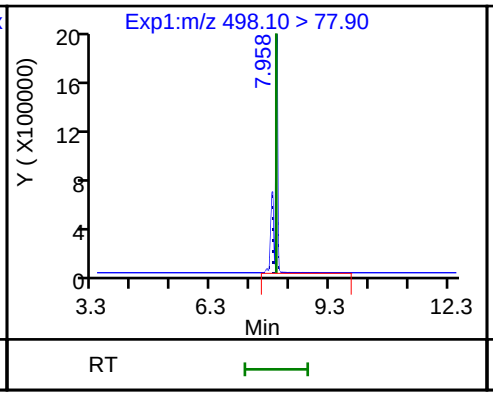
63 PFDoA



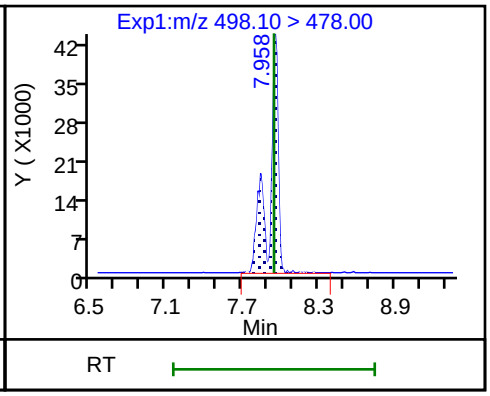
63 PFDoA



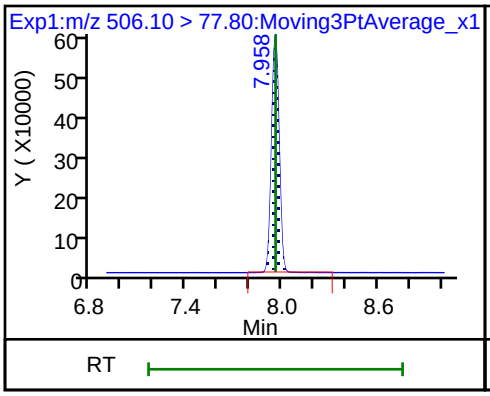
64 PFOSA



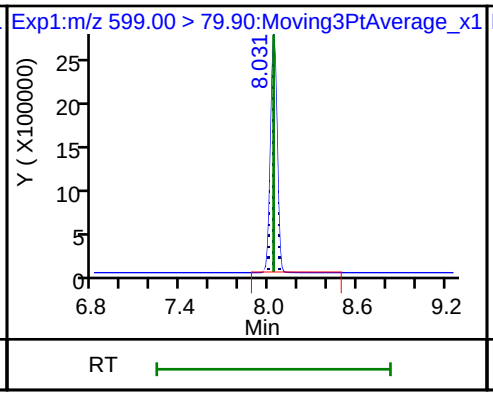
64 PFOSA



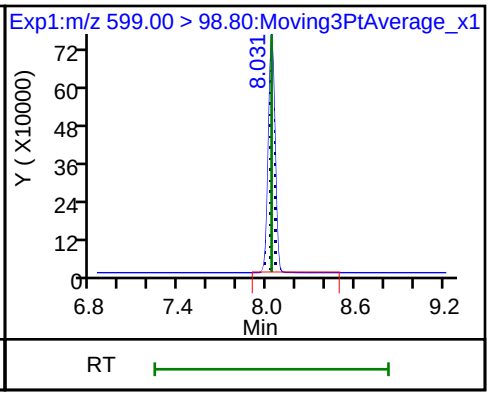
D 65 13C8 FOSA



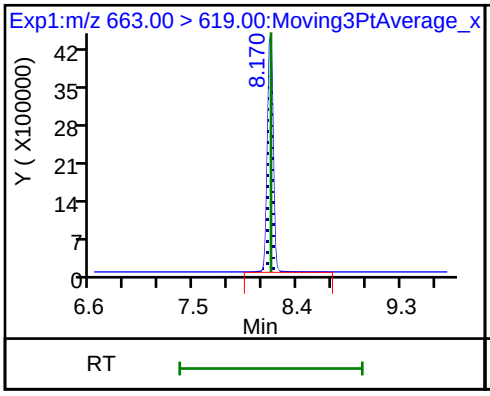
66 PFDS



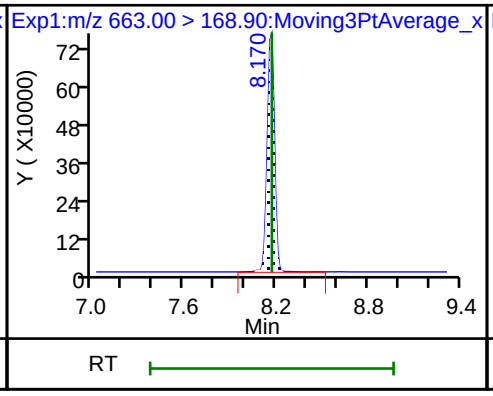
66 PFDS



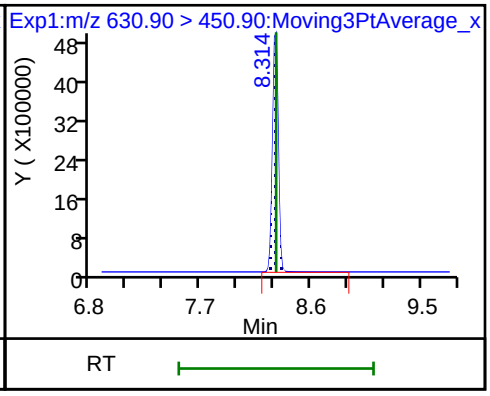
67 PFTrDA



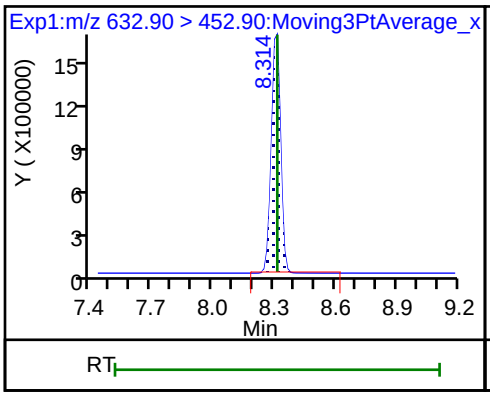
67 PFTrDA



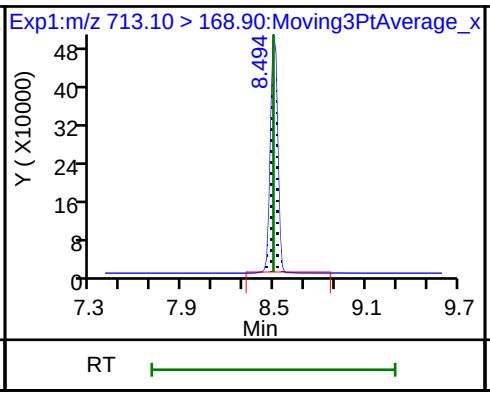
68 11ClFOS



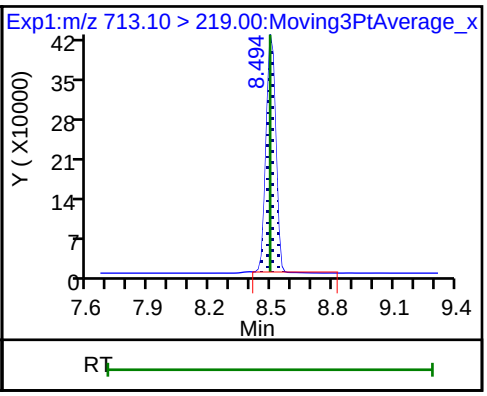
68 11ClFOS



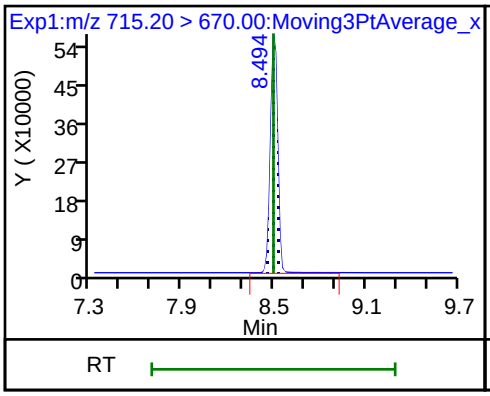
70 PFTeDA



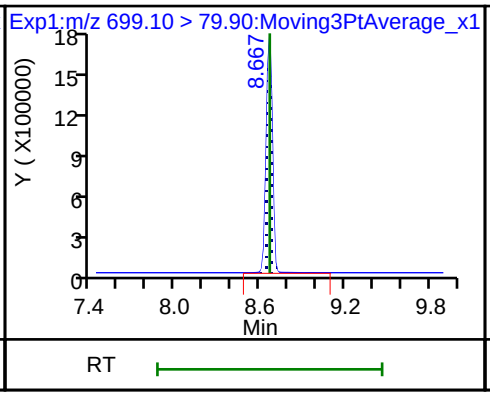
70 PFTeDA



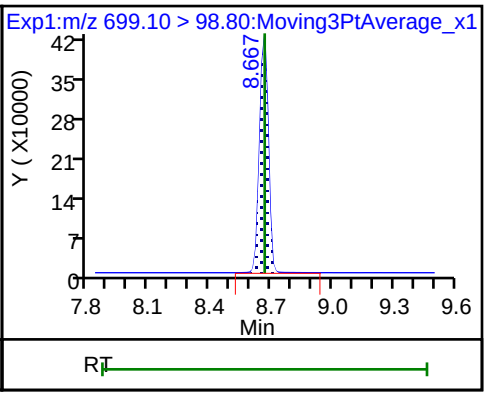
D 69 13C2 PFTeDA



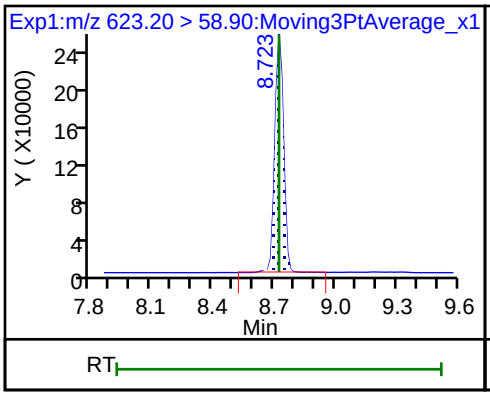
73 PFDoS



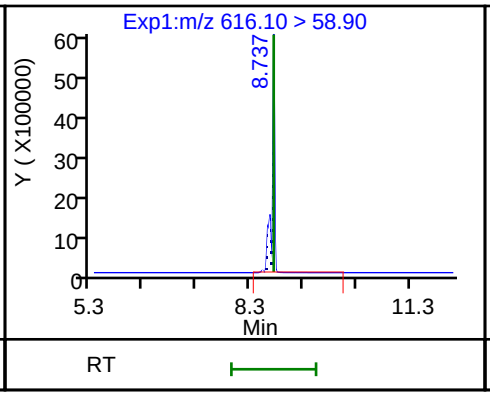
73 PFDoS



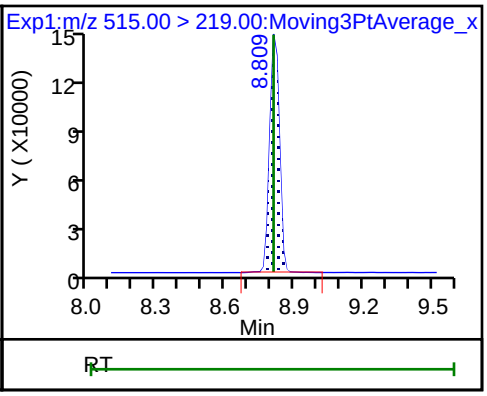
D 71 d7-N-Me-FOSE



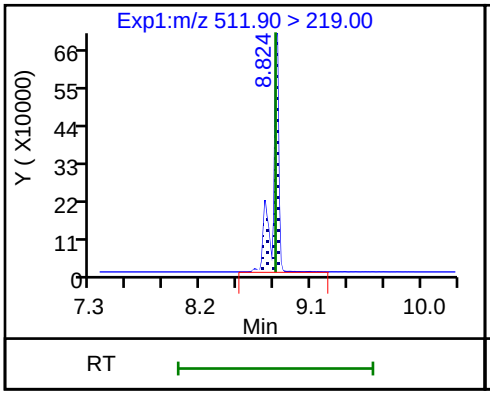
72 N-MeFOSE-M



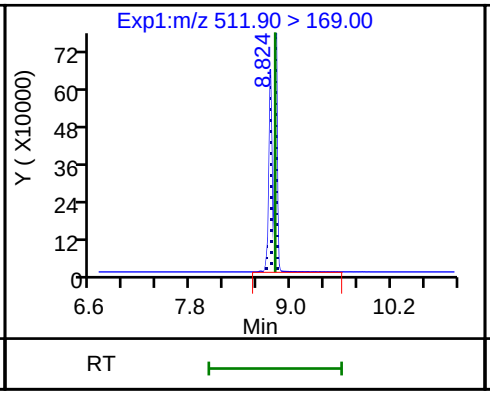
D 74 d3-NMePFOSA



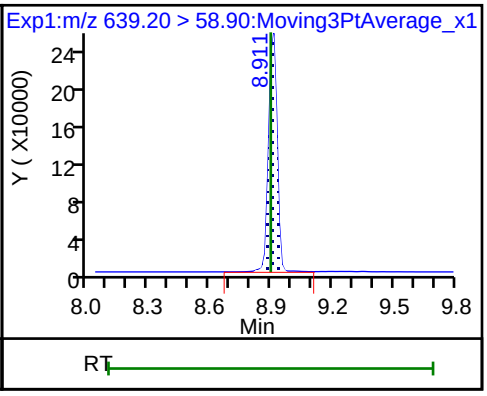
75 NMeFOSA



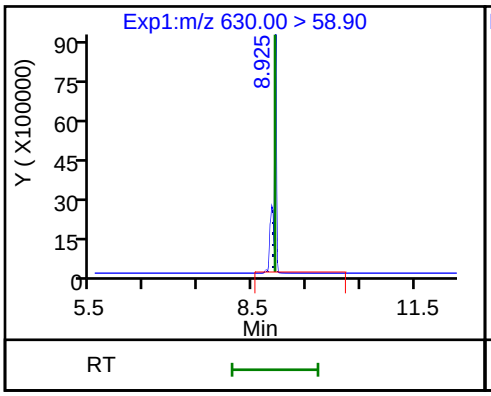
75 NMeFOSA



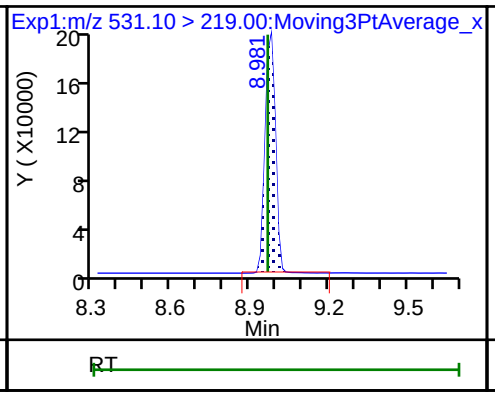
D 76 d9-N-EtFOSE



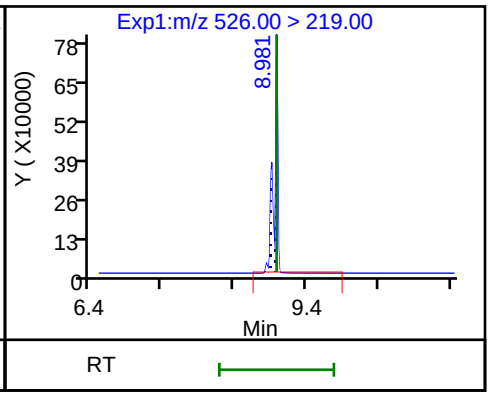
77 N-EtFOSE-M



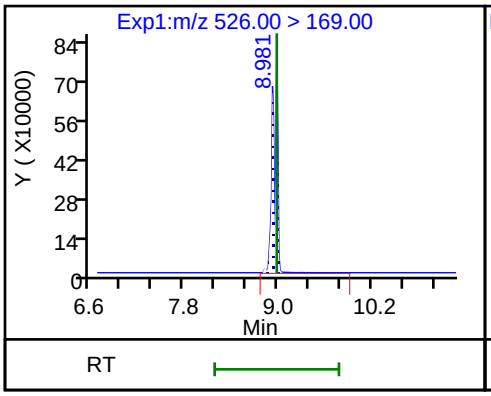
D 78 d5-NEtPFOSA



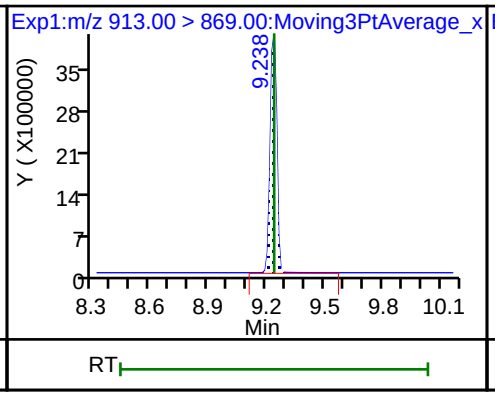
79 N-EtFOSA-M



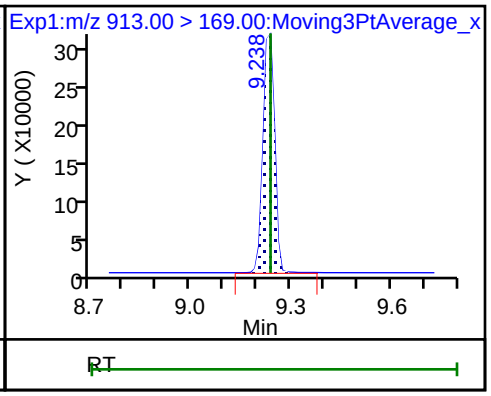
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d
Lims ID: IC CAL 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 02-Feb-2026 16:40:11 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 8
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:58:00 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: LDU5 Date: 02-Feb-2026 17:25:27
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C3PFPrA										
166.00 > 121.00	2.089	2.114	-0.025	0.480	1625934	3.05		153	927	
5 PFBA										
212.80 > 168.90	4.340	4.330	0.010	0.998	79939334	96.2		96.2	30701	
D 6 13C4-PFBA										
216.80 > 171.90	4.348	4.338	0.010	1.000	1769316	1.99		99.7	6051	
* 7 13C3PFBA										
216.00 > 172.00	4.348	4.338	0.010		1468889	2.00			4141	
D 11 13C5 PFPeA										
268.30 > 223.00	4.970	4.955	0.015	0.914	1590316	1.93		96.7	9478	
12 PFPA										
263.00 > 219.00	4.970	4.968	0.002	1.000	44674500	49.3		98.6	34651	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.243	5.240	0.003	0.811	1110720	6.31		134	6882	
D 17 13C5 PFHxA										
318.00 > 273.00	5.437	5.418	0.019	1.000	2234657	1.93		96.4	4464	
* 18 13C2 PFHxA										
315.10 > 270.00	5.437	5.432	0.005		5015742	5.00			10041	
19 PFHxA										
313.00 > 269.00	5.437	5.432	0.005	1.000	50985542	47.5	Target=11.71	95.0	56374	
313.00 > 118.90	5.437	5.432	0.005	1.000	4373147		11.66(5.85-17.56)	95.0	19739	
21 PFBS										
298.70 > 79.90	5.574	5.568	0.006	1.000	30792531	41.4	Target=2.89	93.2	10519	
298.70 > 98.80	5.574	5.568	0.006	1.000	10743830		2.87(1.44-4.33)	93.2	38319	
D 20 13C3 PFBS										
302.10 > 79.90	5.574	5.568	0.006	0.862	1532156	1.73		92.7	5405	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.617	5.611	0.006	1.033	1668805	2.10		105	3970	
24 HFPO-DA										
284.90 > 168.90	5.617	5.611	0.006	1.000	35776652	44.7	Target=2.42	89.4	4601	
284.90 > 184.90	5.617	5.611	0.006	1.000	15479765		2.31(1.21-3.62)	89.4	8897	
27 PFHpA										
363.10 > 319.00	5.849	5.845	0.004	1.000	52730122	48.2	Target=2.35	96.4	10863	
363.10 > 169.00	5.849	5.845	0.004	1.000	22766458		2.32(1.17-3.52)	96.4	8868	
D 26 13C4 PFHpA										
367.10 > 322.00	5.849	5.845	0.004	1.076	2232134	1.96		98.2	5583	
29 ADONA										
376.90 > 250.90	5.992	5.988	0.004	1.067	84368534	30.9	Target=1.85	87.2	26141	
376.90 > 84.80	5.992	5.988	0.004	1.067	49854148		1.69(0.92-2.77)	87.2	20200	
32 PFPeS										
349.10 > 79.90	6.037	6.033	0.004	0.934	40865762	42.9	Target=3.28	91.3	168246	
349.10 > 98.90	6.037	6.033	0.004	0.934	12034254		3.40(1.64-4.92)	91.3	4410	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.037	6.033	0.004	0.934	377860	3.61		75.9	2050	
D 35 13C8 PFOA										
421.10 > 376.00	6.238	6.233	0.005	1.000	3114619	2.03		102	8348	
* 34 13C4 PFOA										
417.10 > 372.00	6.238	6.233	0.005		7663734	5.00			8936	
36 PFOA										
413.00 > 369.00	6.238	6.233	0.005	1.000	54358173	46.0	Target=2.11	92.1	4574612	
413.00 > 169.00	6.238	6.233	0.005	1.000	27338238		1.99(1.06-3.17)	92.1	1166899	
40 PFHxS										
398.70 > 79.90	6.466	6.460	0.006	1.000	38867345	41.9	Target=3.44	91.8	9208469	
398.70 > 98.90	6.466	6.460	0.006	1.000	11040534		3.52(1.72-5.16)	91.8	17328	
* 38 18O2 PFHxS										
403.00 > 83.90	6.466	6.460	0.006		1320282	1.90			1955	
D 37 13C3 PFHxS										
402.10 > 79.90	6.466	6.460	0.006	1.000	1374187	1.97		104	4771	
D 42 13C9 PFNA										
472.10 > 427.00	6.625	6.620	0.005	1.000	2524652	1.99		99.6	5841	
* 41 13C5 PFNA										
468.00 > 423.00	6.625	6.620	0.005		2523509	2.00			6391	
43 PFNA										
463.00 > 419.00	6.625	6.620	0.005	1.000	53452237	48.3	Target=2.84	96.6	6416851	
463.00 > 219.00	6.625	6.620	0.005	1.000	19111221		2.80(1.42-4.26)	96.6	1856981	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.794	6.790	0.004	1.051	658259	6.47		135	2446	
47 PFHpS										
449.00 > 79.90	6.873	6.857	0.016	0.945	32584874	46.7	Target=3.44	97.9	140580	
449.00 > 98.80	6.873	6.857	0.016	0.945	9367971		3.48(1.72-5.16)	97.9	4577	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.957	6.940	0.017	0.957	1670308	7.16		143	2374	
D 50 13C6 PFDA										
519.10 > 474.10	7.019	7.015	0.004	1.000	3262868	1.91		95.7	9711	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 52 13C2 PFDA										
515.10 > 470.10	7.019	7.015	0.004		3340463	2.00			9285	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.129	7.124	0.005	0.980	1414510	6.87		137	2517	
58 PFOS										
498.90 > 79.90	7.271	7.255	0.016	1.000	39698565	47.6	Target=4.21	102	49618	
498.90 > 98.80	7.271	7.255	0.016	1.000	8953372		4.43(2.11-6.32)	102	16632	
D 56 13C8 PFOS										
507.10 > 79.90	7.271	7.267	0.004	1.000	1107567	1.91		99.7	1613	
* 57 13C4 PFOS										
502.80 > 79.90	7.271	7.267	0.004		1200592	1.92			6119	
D 59 13C7 PFUnA										
570.00 > 525.10	7.413	7.409	0.004	1.056	3897823	1.90		95.1	8077	
D 81 PFDoA										
615.10 > 570.00	7.805	7.801	0.004	1.112	3454222	1.90		95.1	5498	
D 65 13C8 FOSA										
506.10 > 77.80	7.960	7.957	0.003	1.095	1916261	2.68		134	5091	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.511	8.494	0.017	1.212	2215355	2.21		111	5322	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.726	8.723	0.003	1.200	750003	7.15		143	584	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.813	8.809	0.004	1.212	435773	2.68		134	2920	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.914	8.897	0.017	1.226	800894	7.50		150	1388	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.983	8.967	0.016	1.236	584514	2.94		147	2639	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL8_00032 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 17:58:04 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Injection Date: 02-Feb-2026 16:40:11 Instrument ID: 30575

Lims ID: IC CAL 8

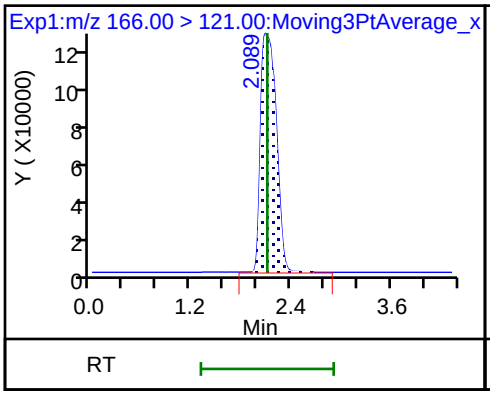
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Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 9 Worklist Smp#: 8

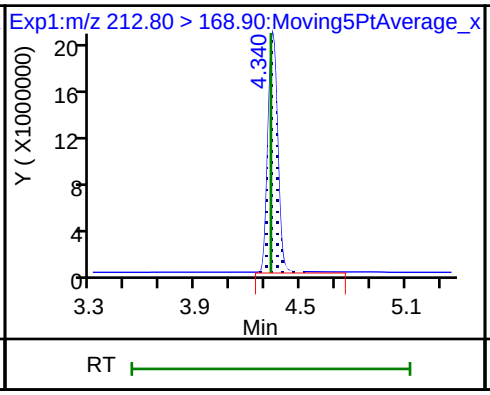
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Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

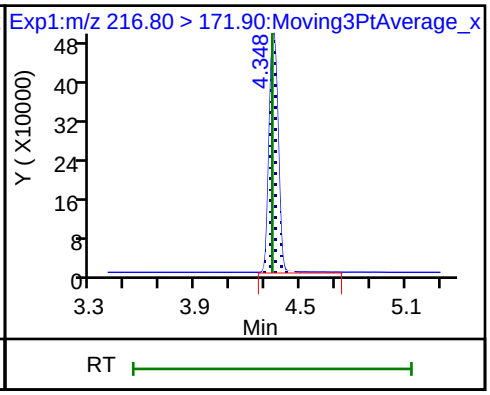
D 2 13C3PFPrA



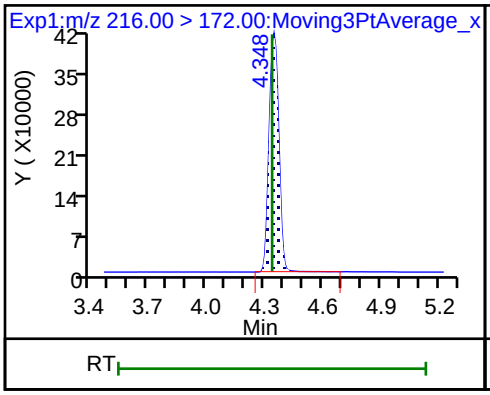
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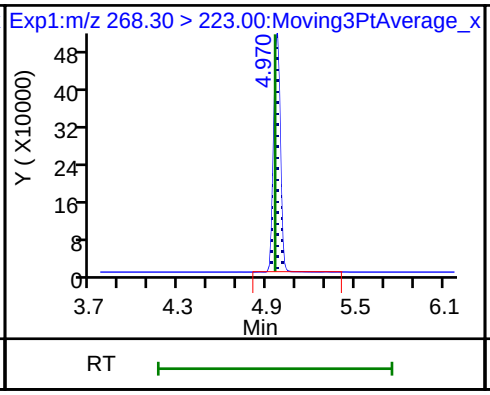
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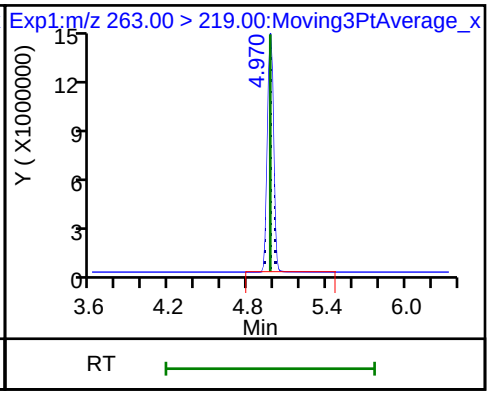
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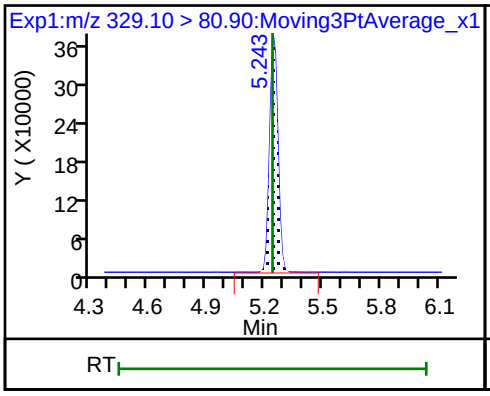
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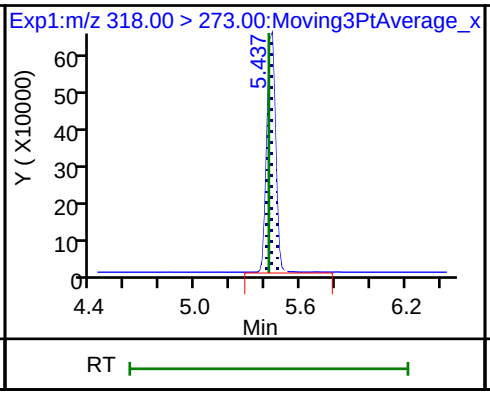
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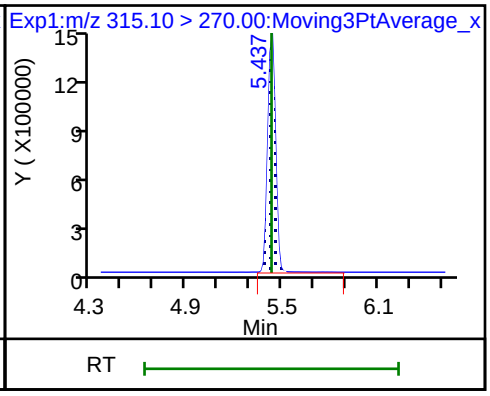
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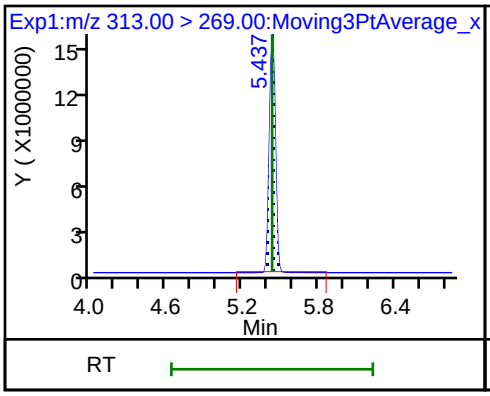
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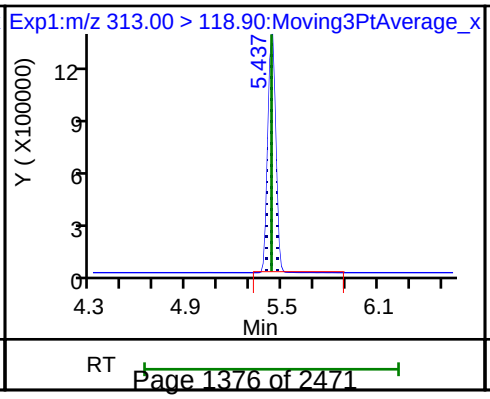
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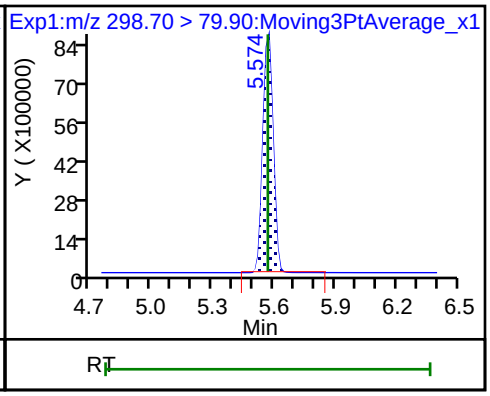
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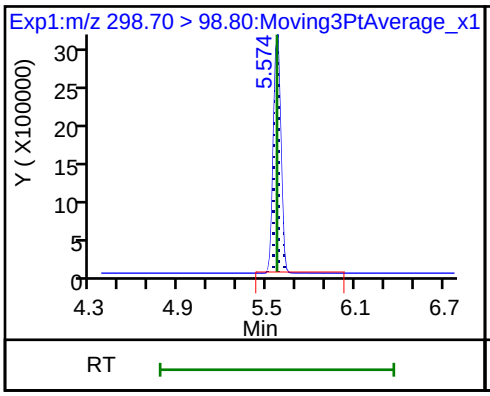
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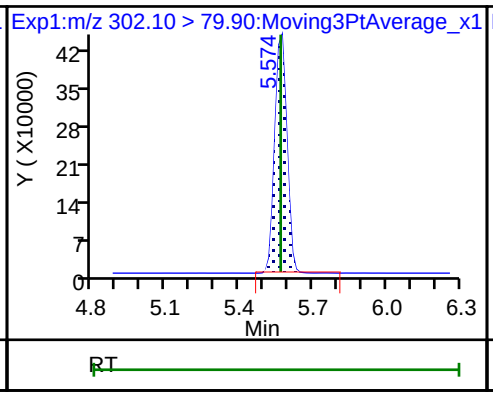
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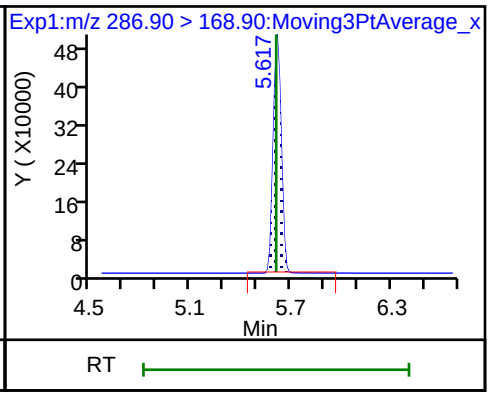
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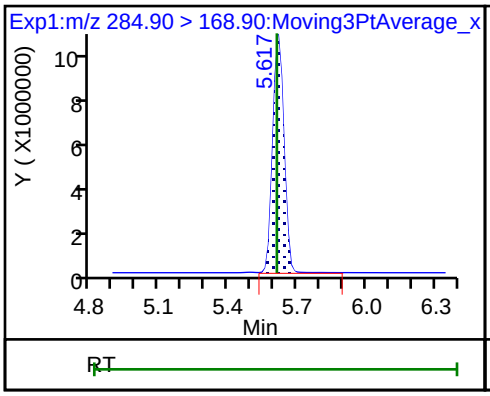
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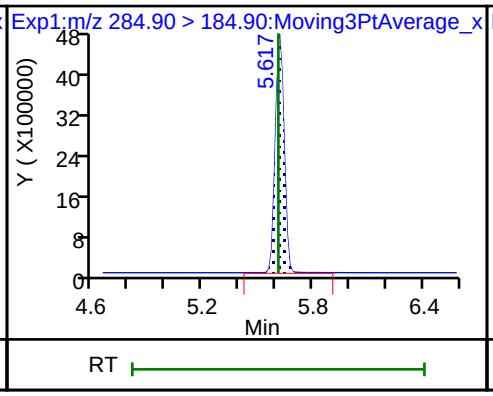
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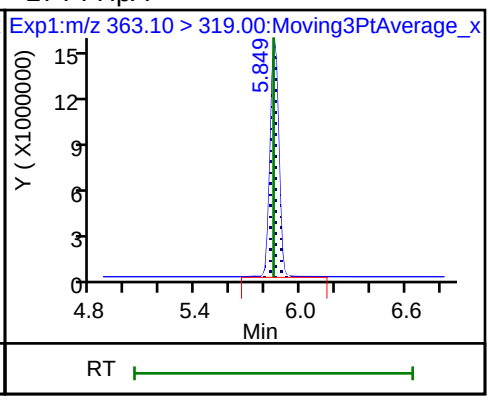
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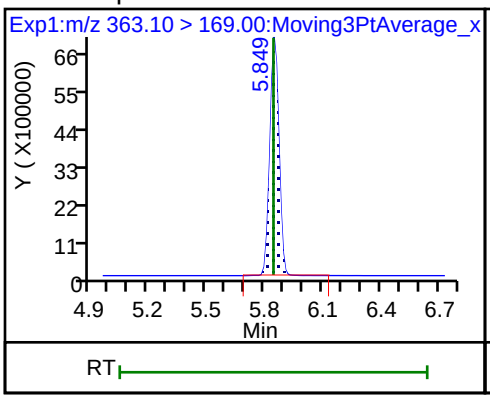
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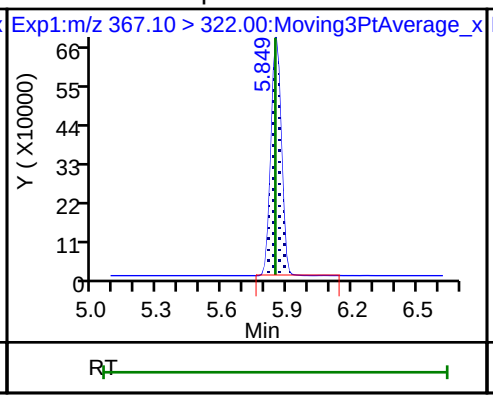
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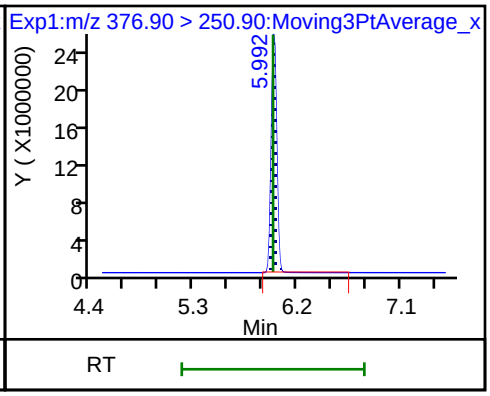
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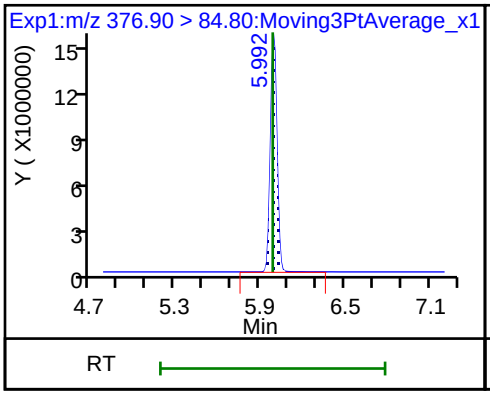
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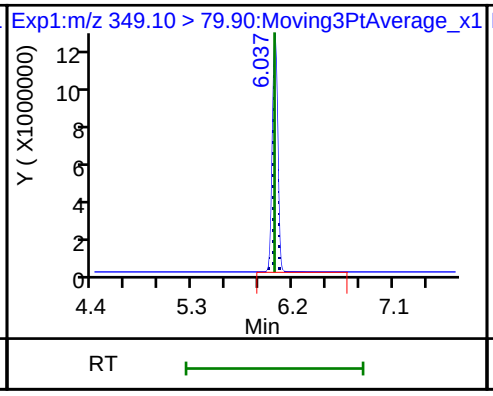
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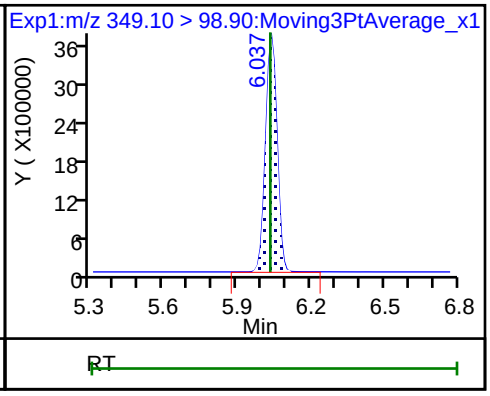
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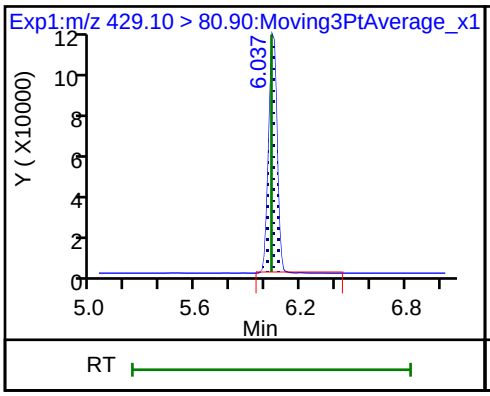
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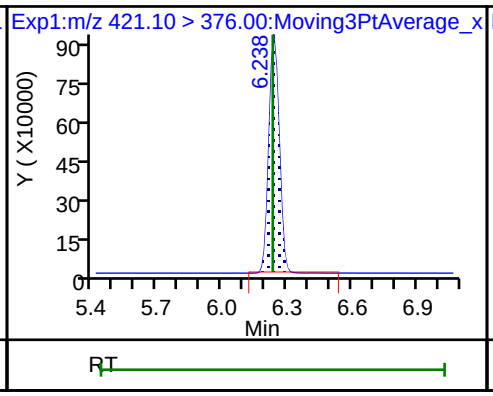
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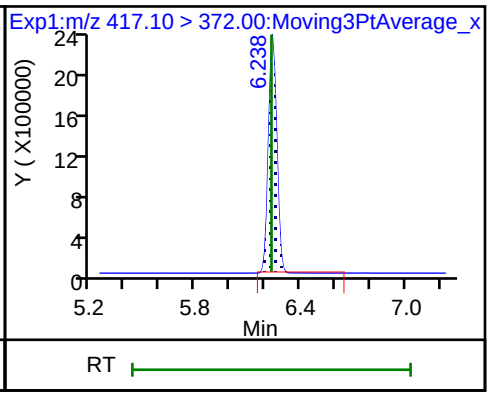
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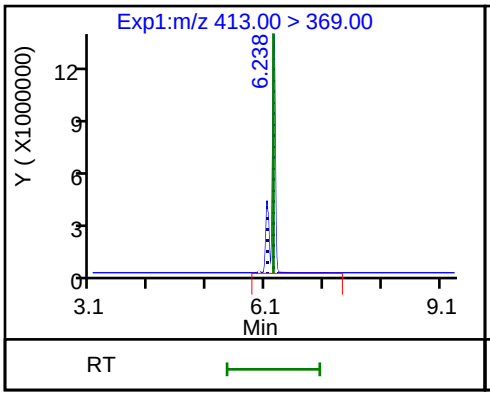
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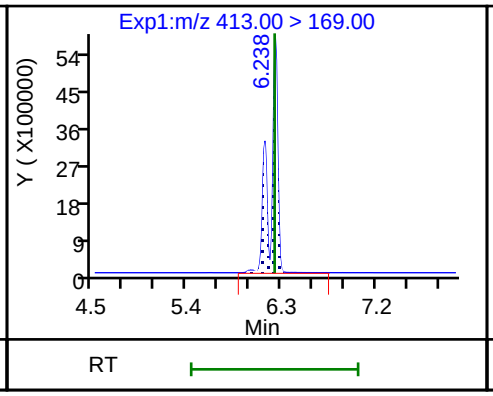
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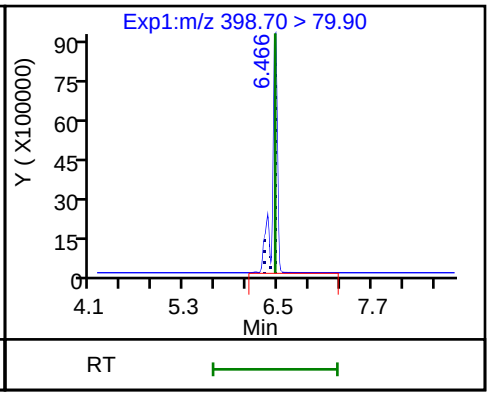
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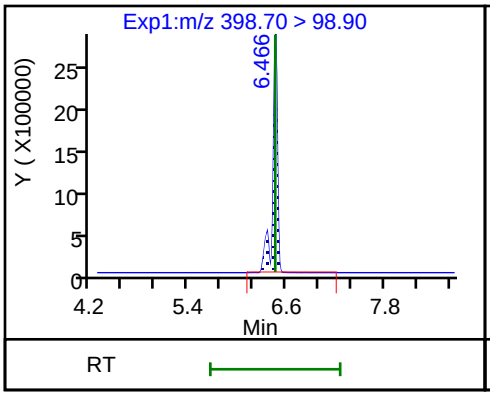
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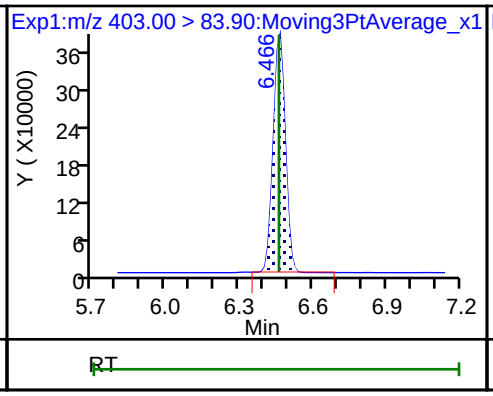
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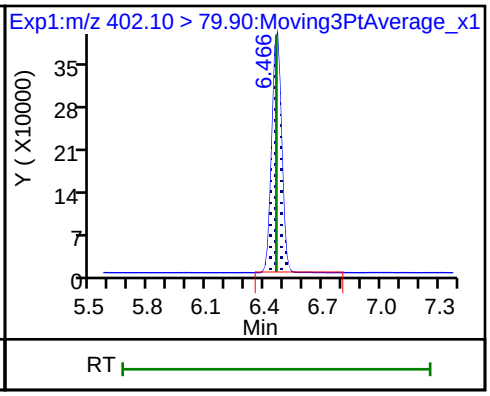
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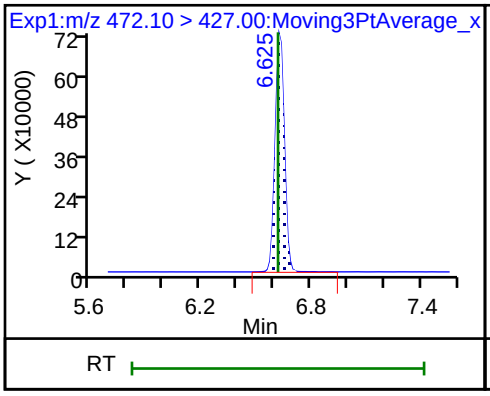
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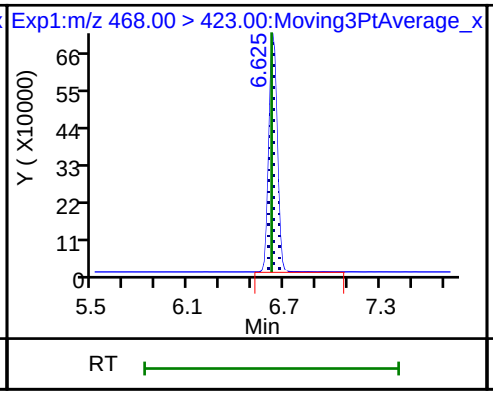
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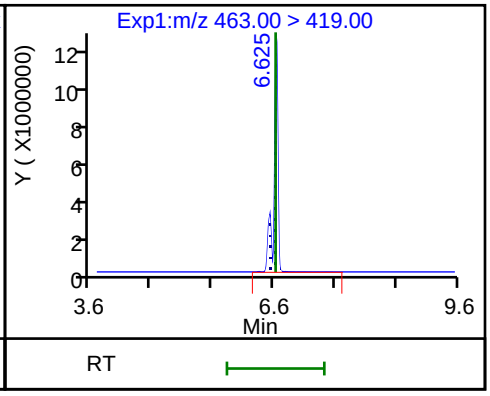
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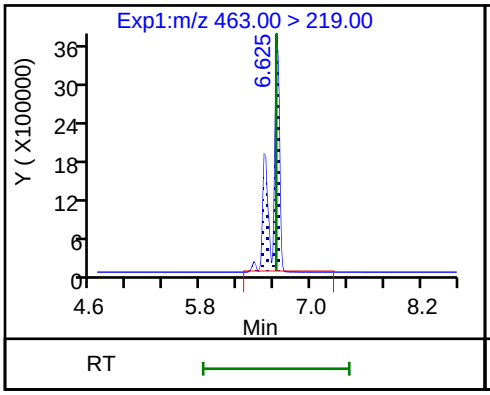
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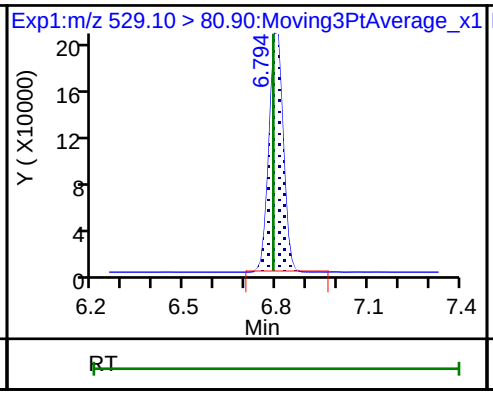
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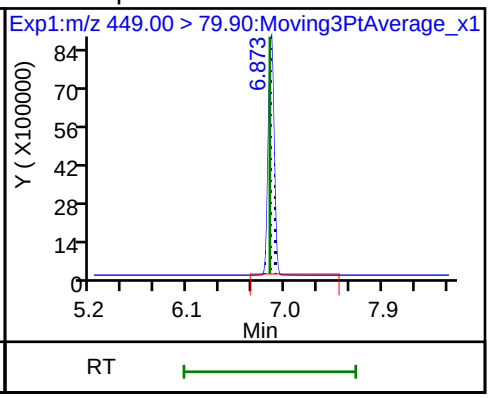
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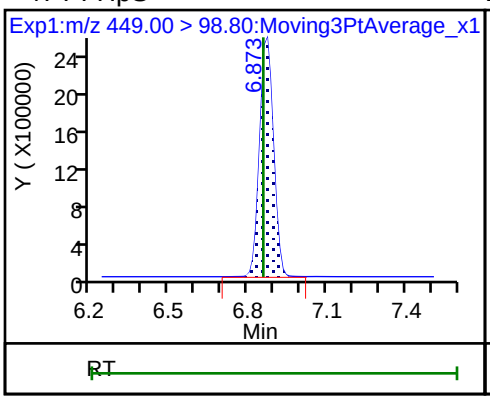
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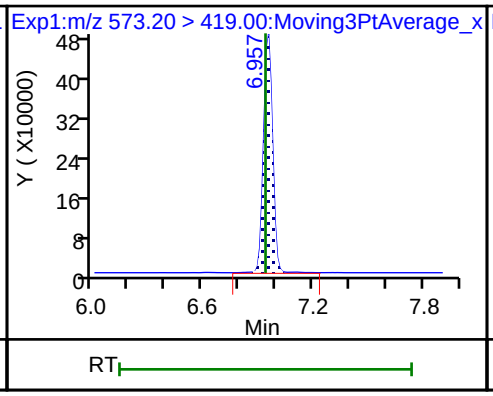
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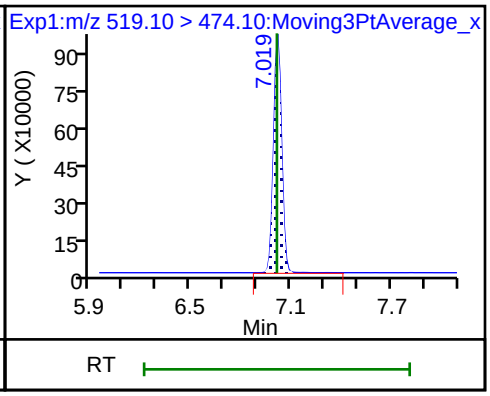
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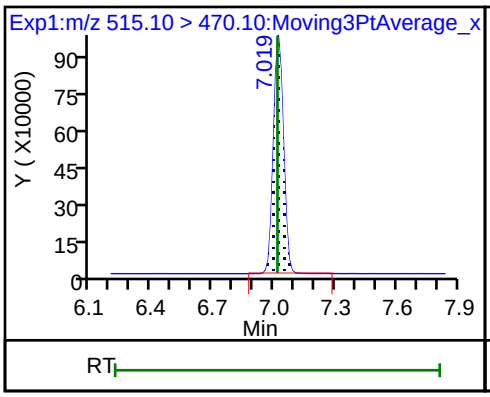
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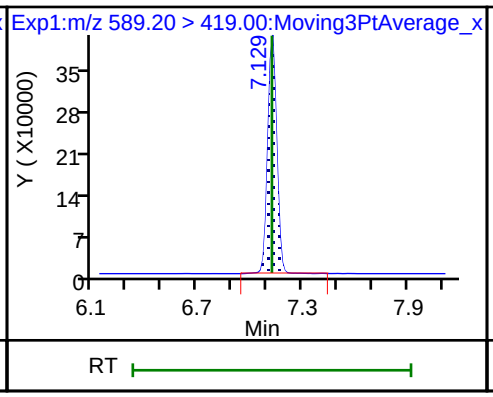
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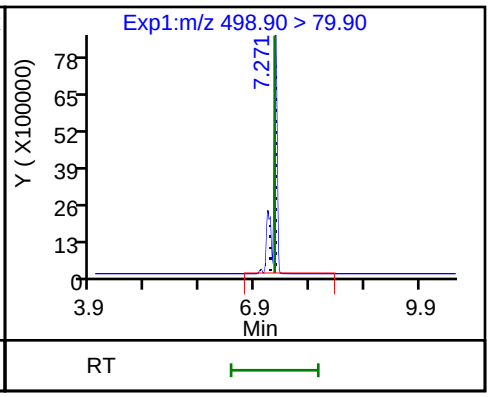
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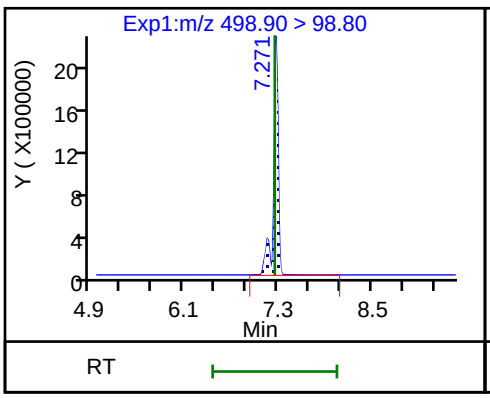
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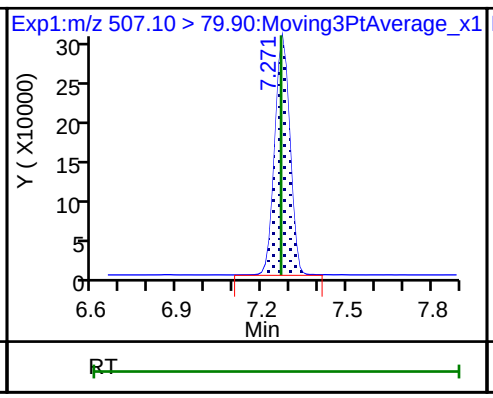
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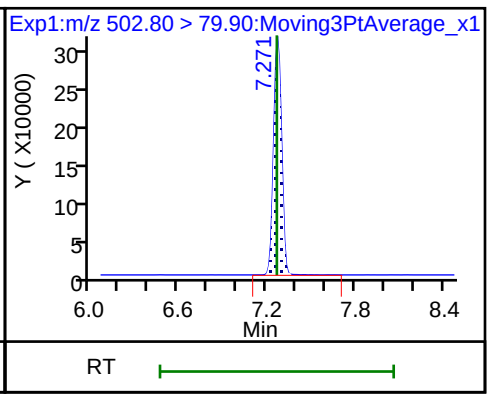
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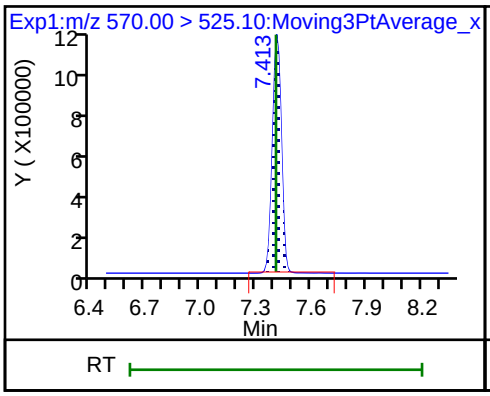
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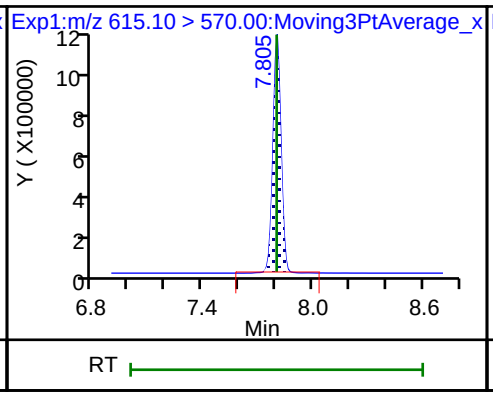
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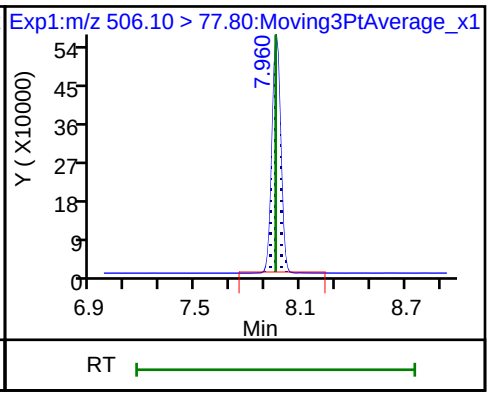
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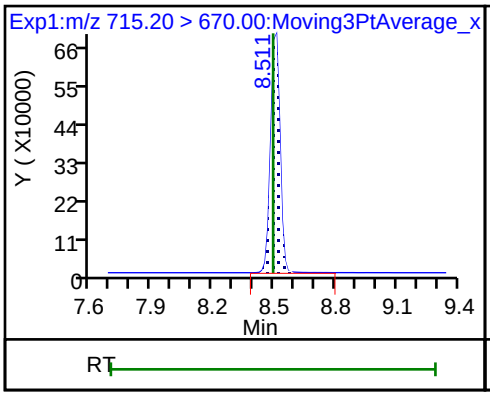
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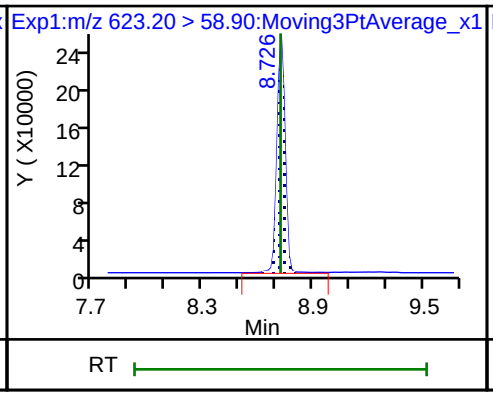
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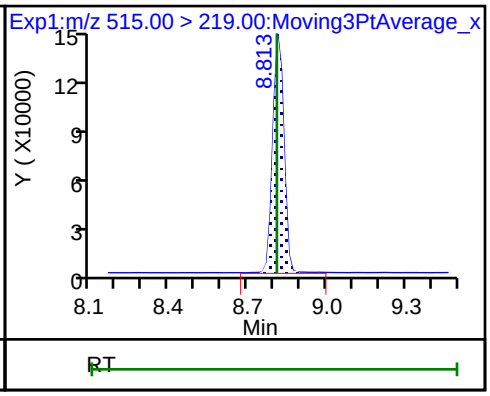
D 69 13C2 PFTeDA



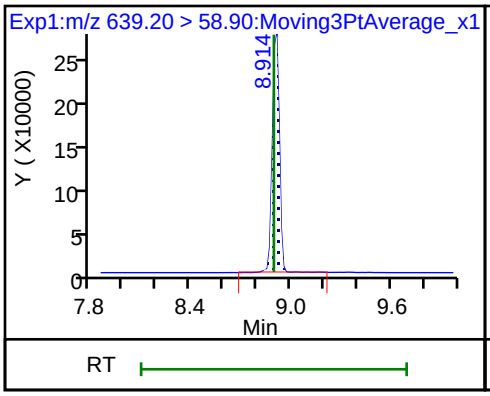
D 71 d7-N-Me-FOSE



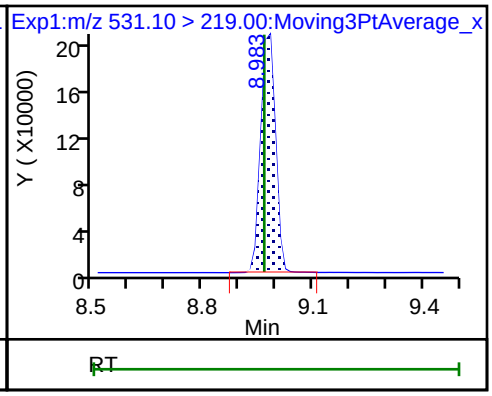
D 74 d3-NMePFOSA



D 76 d9-N-EtFOSE



D 78 d5-NEtPFOSA



Calibration / Perfluoropropionic acid

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

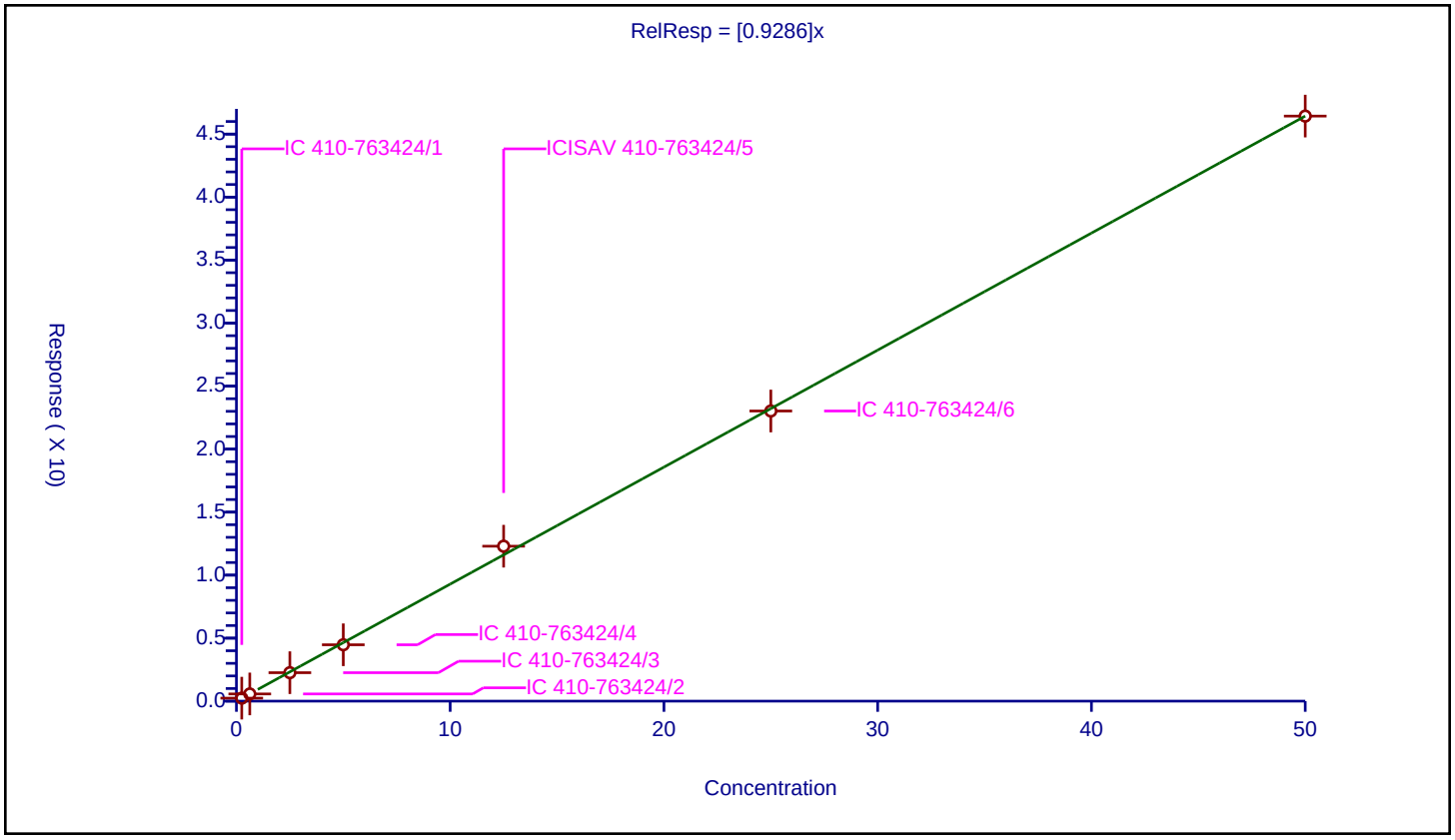
Curve Coefficients

Intercept:	0
Slope:	0.9286

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.25	0.23856	2.0	1608171.0	0.954242	Y
2	IC 410-763424/2	0.625	0.571723	2.0	1621849.0	0.914756	Y
3	IC 410-763424/3	2.5	2.25801	2.0	1645190.0	0.903204	Y
4	IC 410-763424/4	5.0	4.473651	2.0	1704090.0	0.89473	Y
5	ICISAV 410-763424/5	12.5	12.295593	2.0	1600708.0	0.983647	Y
6	IC 410-763424/6	25.0	23.024276	2.0	1593795.0	0.920971	Y
7	IC 410-763424/7	50.0	46.42866	2.0	1533361.0	0.928573	Y



Calibration / Perfluorobutanoic acid

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

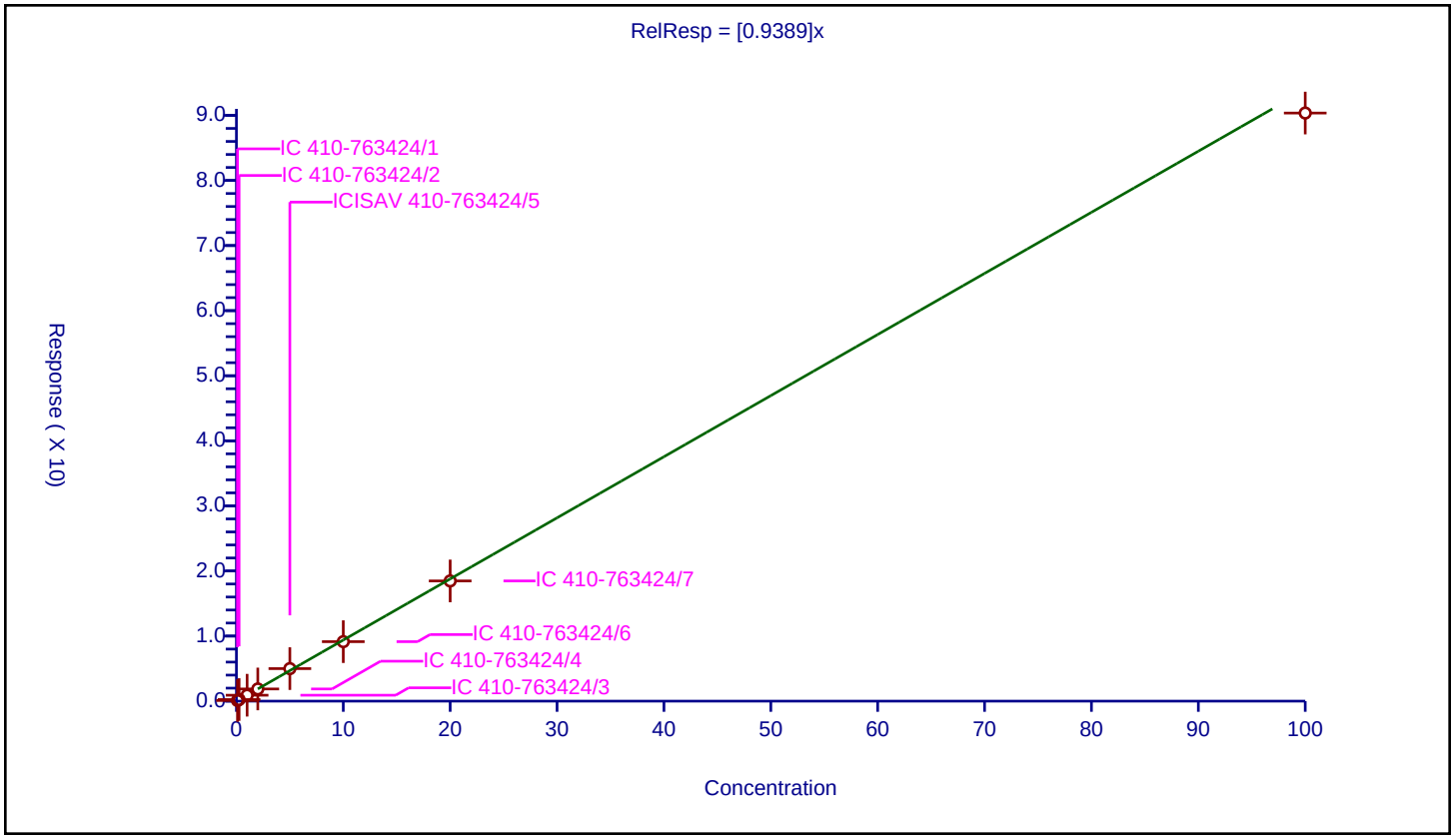
Curve Coefficients

Intercept:	0
Slope:	0.9389

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.1	0.094871	2.0	2716028.0	0.948709	Y
2	IC 410-763424/2	0.25	0.24413	2.0	2684165.0	0.976521	Y
3	IC 410-763424/3	1.0	0.909706	2.0	2761611.0	0.909706	Y
4	IC 410-763424/4	2.0	1.870673	2.0	2853201.0	0.935336	Y
5	ICISAV 410-763424/5	5.0	4.997264	2.0	2649798.0	0.999453	Y
6	IC 410-763424/6	10.0	9.139998	2.0	2629643.0	0.914	Y
7	IC 410-763424/7	20.0	18.469584	2.0	2557702.0	0.923479	Y
8	IC 410-763424/8	100.0	90.361851	2.0	1769316.0	0.903619	Y



Calibration / Perfluoro-3-methoxypropanoic acid

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

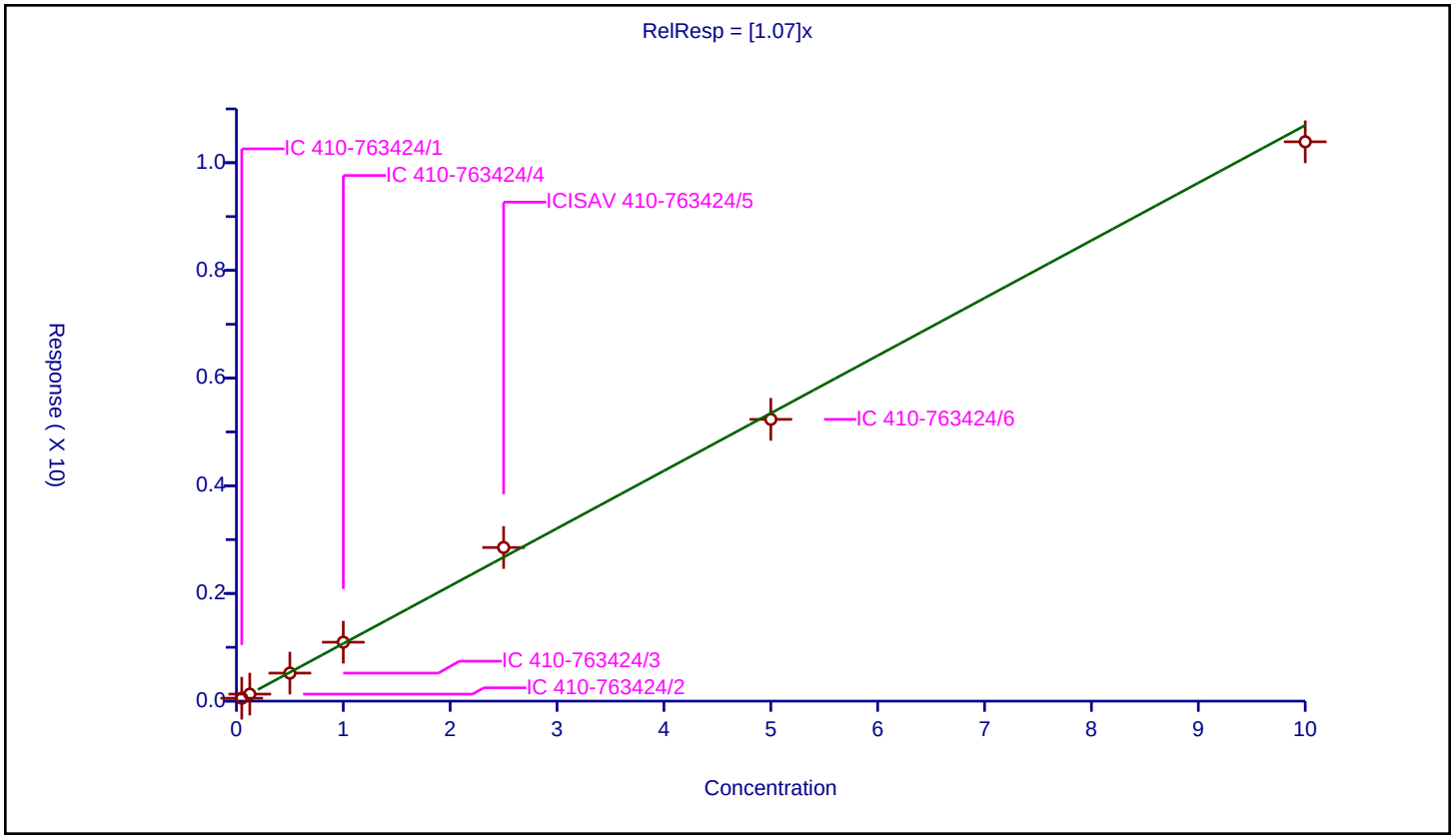
Curve Coefficients

Intercept:	0
Slope:	1.07

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.054062	2.0	1996702.0	1.081243	Y
2	IC 410-763424/2	0.125	0.130336	2.0	2076364.0	1.042684	Y
3	IC 410-763424/3	0.5	0.520627	2.0	2012670.0	1.041254	Y
4	IC 410-763424/4	1.0	1.094239	2.0	2082289.0	1.094239	Y
5	ICISAV 410-763424/5	2.5	2.853794	2.0	1975768.0	1.141517	Y
6	IC 410-763424/6	5.0	5.233492	2.0	2012315.0	1.046698	Y
7	IC 410-763424/7	10.0	10.389106	2.0	2001119.0	1.038911	Y



Calibration / 3:3 FTCA

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

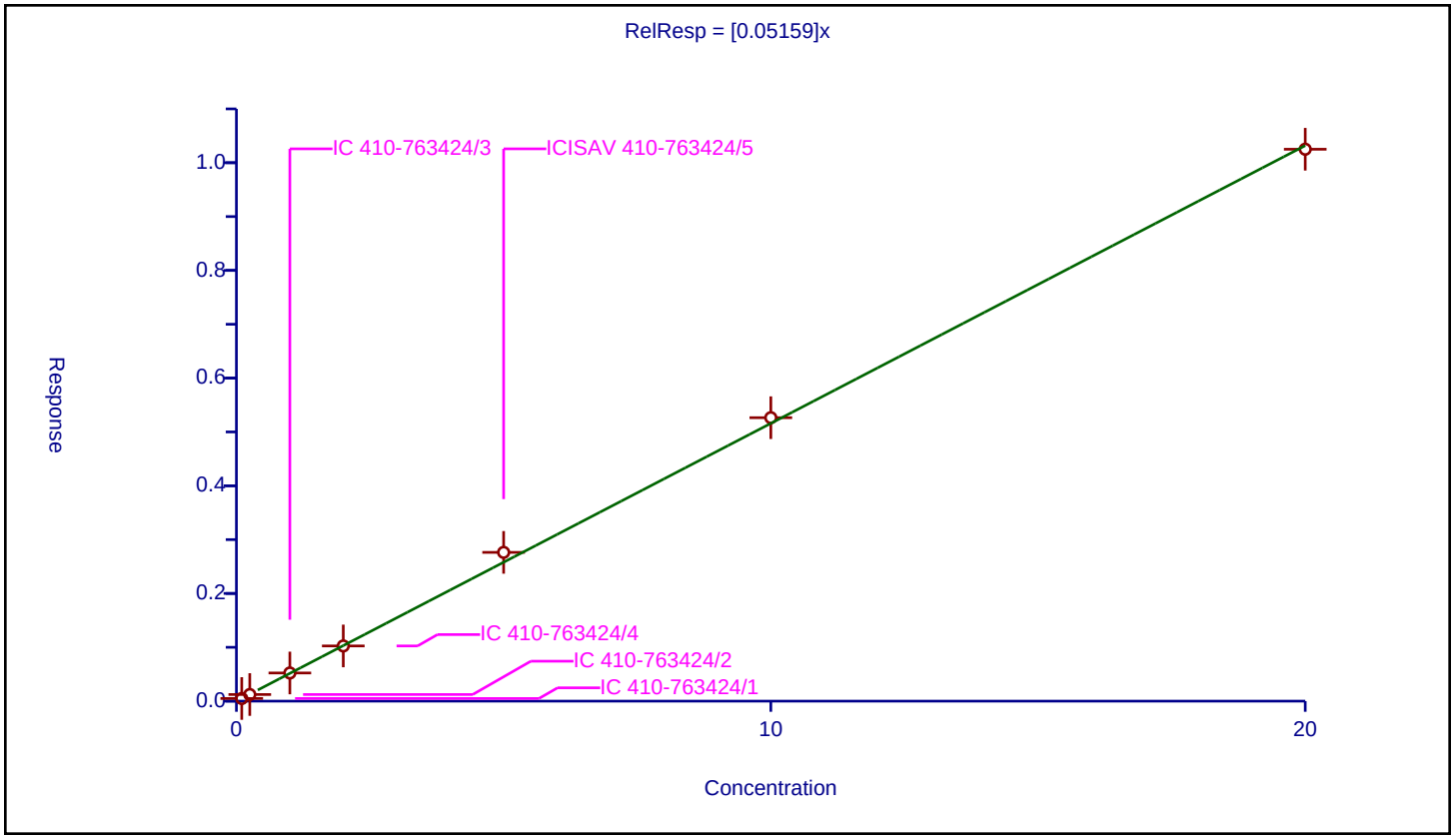
Curve Coefficients

Intercept:	0
Slope:	0.05159

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.1	0.004931	2.0	1996702.0	0.049311	Y
2	IC 410-763424/2	0.25	0.012276	2.0	2076364.0	0.049105	Y
3	IC 410-763424/3	1.0	0.052296	2.0	2012670.0	0.052296	Y
4	IC 410-763424/4	2.0	0.10251	2.0	2082289.0	0.051255	Y
5	ICISAV 410-763424/5	5.0	0.276314	2.0	1975768.0	0.055263	Y
6	IC 410-763424/6	10.0	0.526458	2.0	2012315.0	0.052646	Y
7	IC 410-763424/7	20.0	1.025079	2.0	2001119.0	0.051254	Y



Calibration / Perfluoropentanoic acid

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

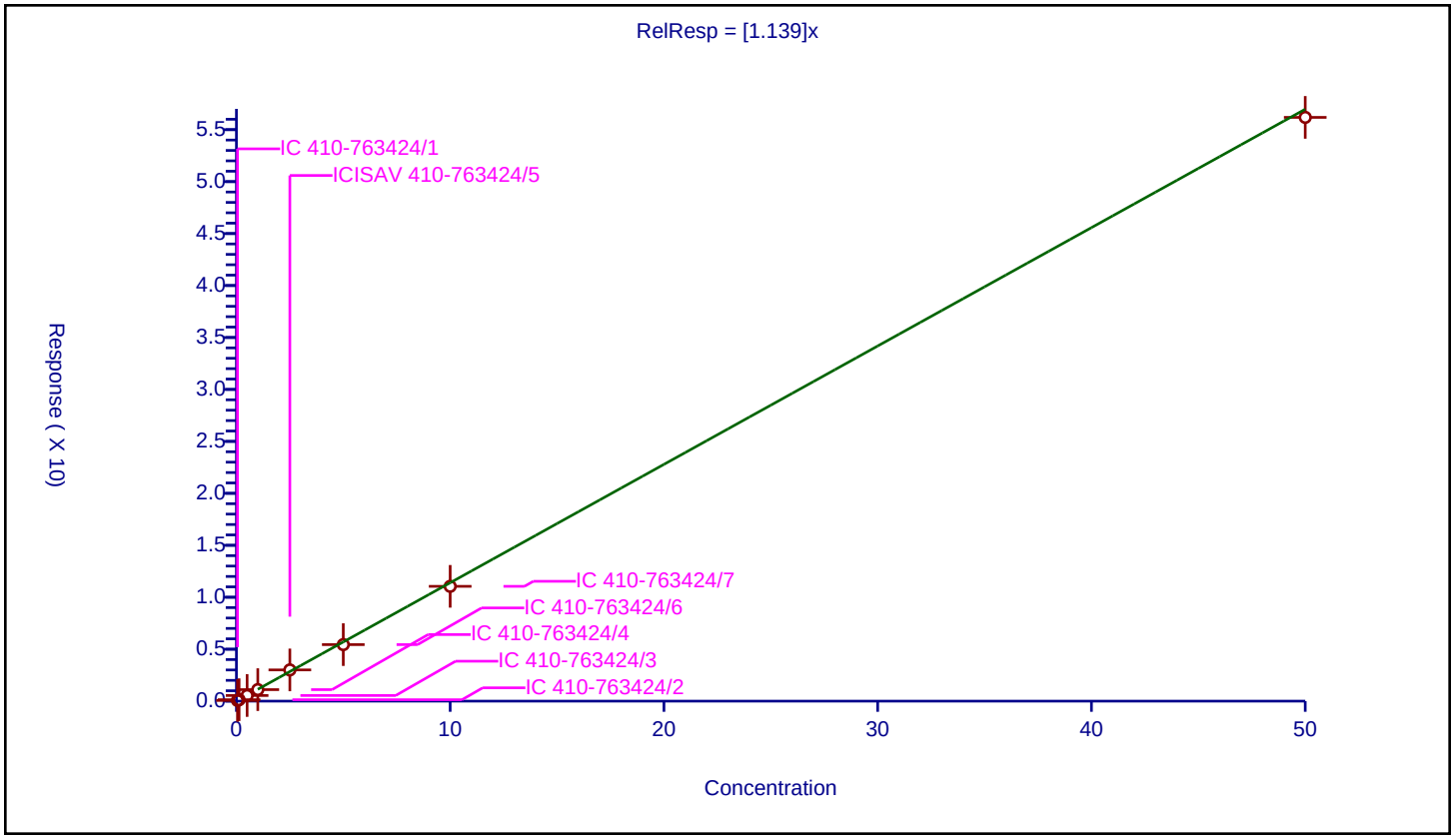
Curve Coefficients

Intercept:	0
Slope:	1.139

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.065002	2.0	1996702.0	1.300044	Y
2	IC 410-763424/2	0.125	0.137958	2.0	2076364.0	1.103668	Y
3	IC 410-763424/3	0.5	0.541223	2.0	2012670.0	1.082447	Y
4	IC 410-763424/4	1.0	1.109467	2.0	2082289.0	1.109467	Y
5	ICISAV 410-763424/5	2.5	3.005938	2.0	1975768.0	1.202375	Y
6	IC 410-763424/6	5.0	5.440448	2.0	2012315.0	1.08809	Y
7	IC 410-763424/7	10.0	11.049059	2.0	2001119.0	1.104906	Y
8	IC 410-763424/8	50.0	56.183174	2.0	1590316.0	1.123663	Y



Calibration / Perfluoro(4-methoxybutanoic acid)

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

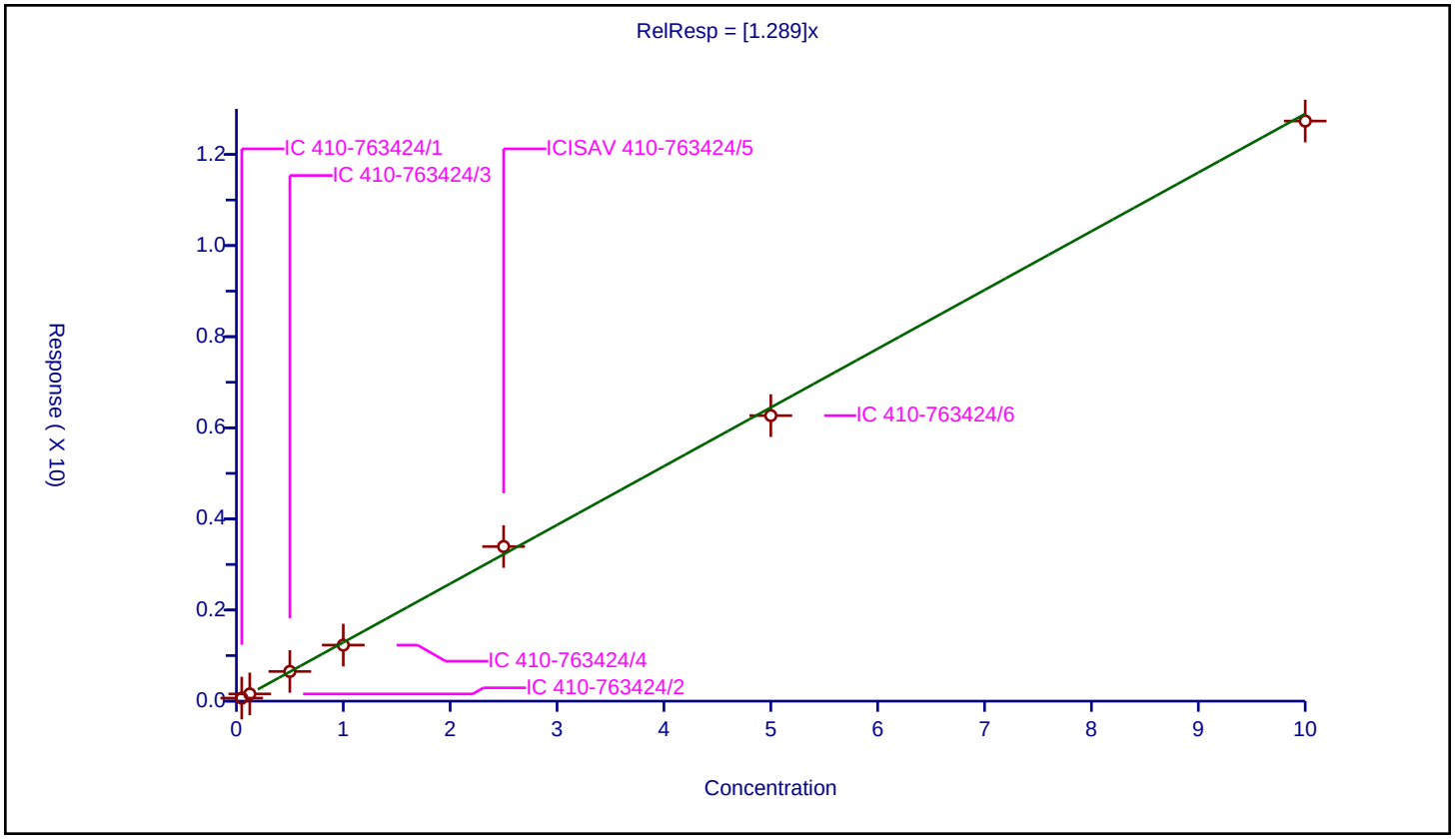
Curve Coefficients

Intercept:	0
Slope:	1.289

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.067108	2.0	1996702.0	1.342153	Y
2	IC 410-763424/2	0.125	0.158039	2.0	2076364.0	1.26431	Y
3	IC 410-763424/3	0.5	0.651674	2.0	2012670.0	1.303347	Y
4	IC 410-763424/4	1.0	1.230193	2.0	2082289.0	1.230193	Y
5	ICISAV 410-763424/5	2.5	3.393685	2.0	1975768.0	1.357474	Y
6	IC 410-763424/6	5.0	6.267715	2.0	2012315.0	1.253543	Y
7	IC 410-763424/7	10.0	12.733334	2.0	2001119.0	1.273333	Y



Calibration / 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

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

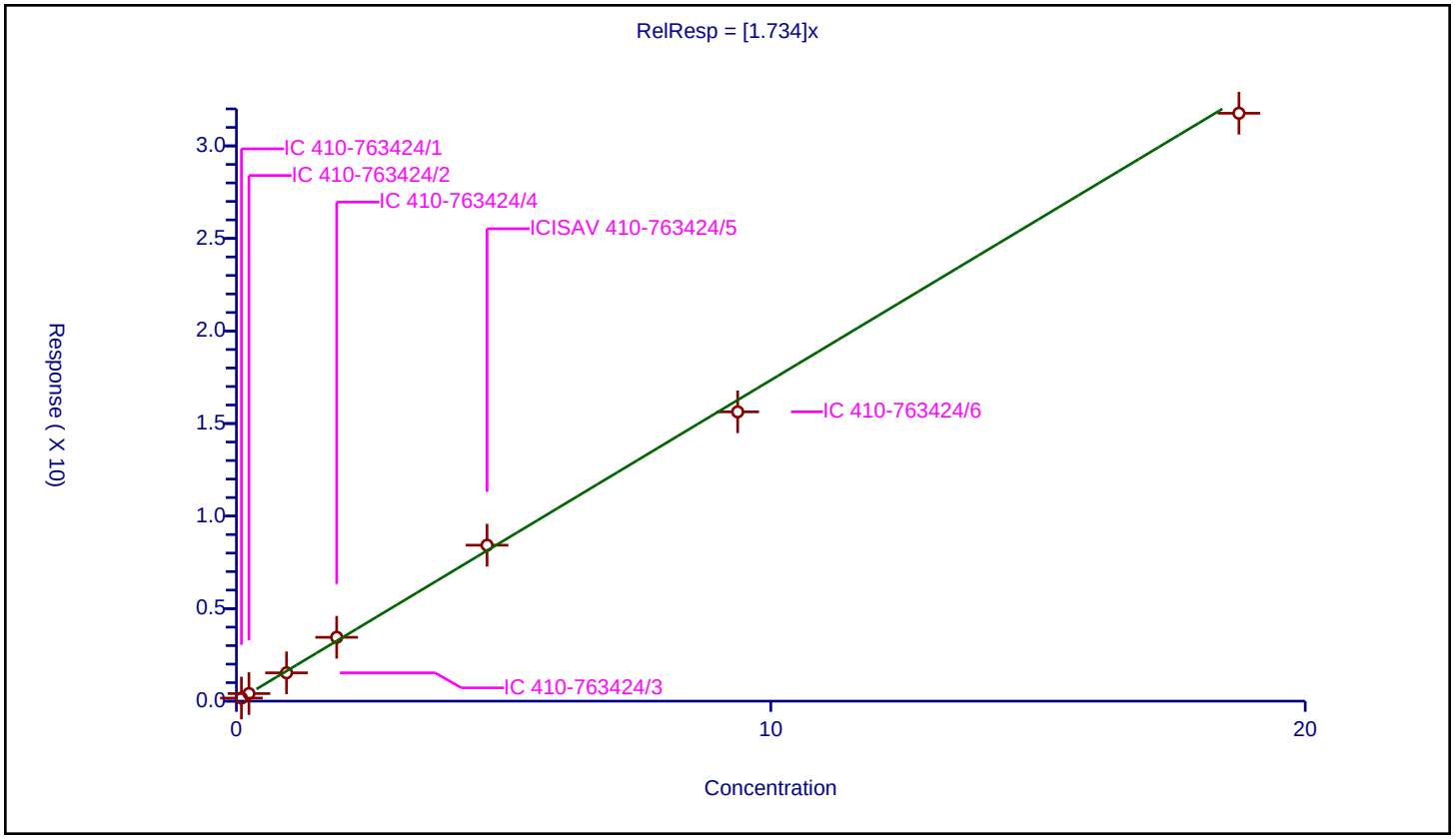
Curve Coefficients

Intercept:	0
Slope:	1.734

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0938	0.165891	4.69	1154273.0	1.768559	Y
2	IC 410-763424/2	0.2345	0.409559	4.69	1106176.0	1.746521	Y
3	IC 410-763424/3	0.938	1.529923	4.69	1179941.0	1.631048	Y
4	IC 410-763424/4	1.876	3.448716	4.69	1098403.0	1.838335	Y
5	ICISAV 410-763424/5	4.69	8.426662	4.69	1069212.0	1.79673	Y
6	IC 410-763424/6	9.38	15.630933	4.69	1034125.0	1.666411	Y
7	IC 410-763424/7	18.76	31.763716	4.69	964066.0	1.693162	Y



Calibration / Perfluoro-3,6-dioxaheptanoic acid

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

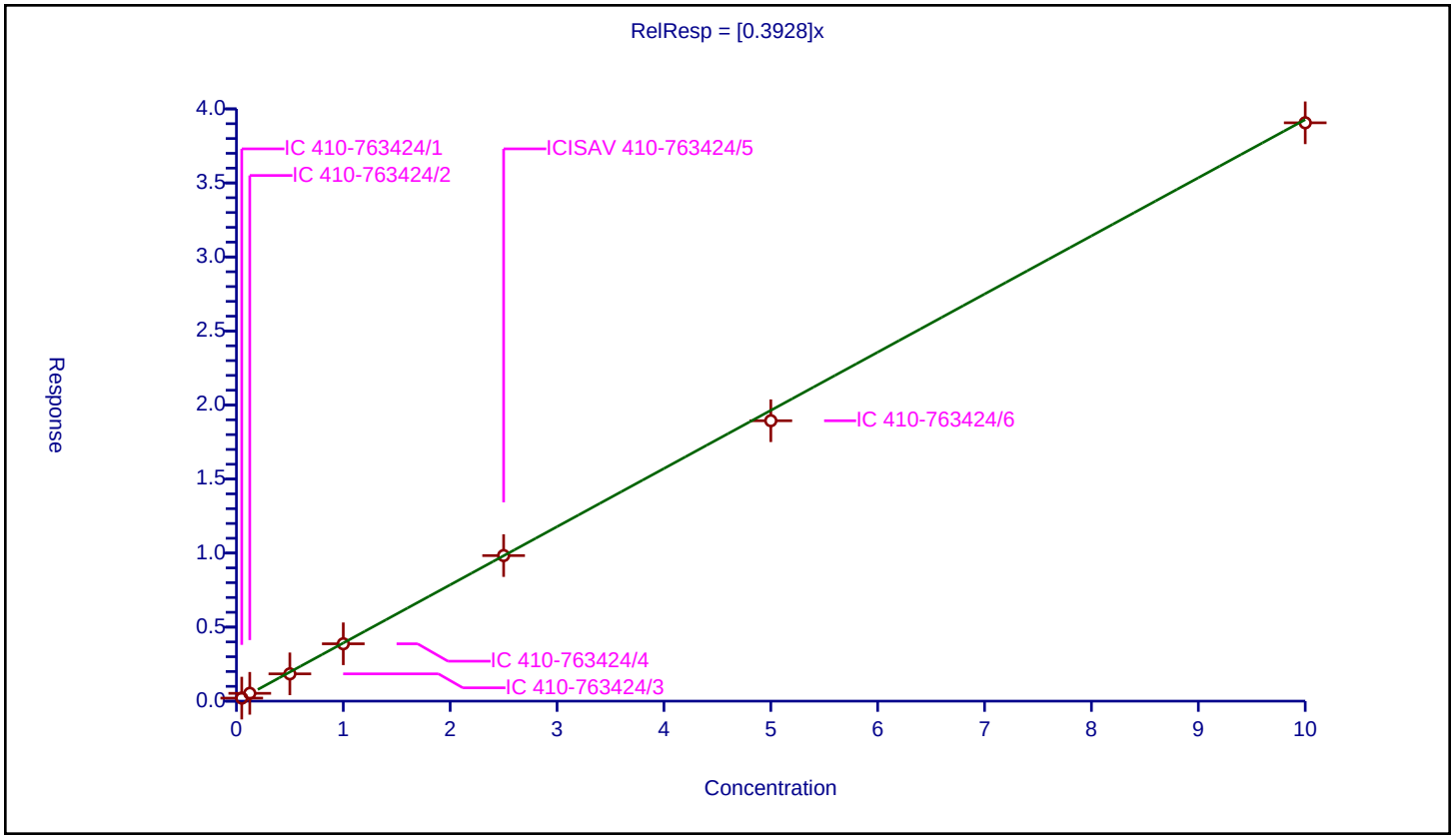
Curve Coefficients

Intercept:	0
Slope:	0.3928

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.020455	2.0	2892934.0	0.409107	Y
2	IC 410-763424/2	0.125	0.05272	2.0	2736629.0	0.421763	Y
3	IC 410-763424/3	0.5	0.184242	2.0	2911762.0	0.368483	Y
4	IC 410-763424/4	1.0	0.387363	2.0	2912880.0	0.387363	Y
5	ICISAV 410-763424/5	2.5	0.98313	2.0	2963040.0	0.393252	Y
6	IC 410-763424/6	5.0	1.893913	2.0	2773862.0	0.378783	Y
7	IC 410-763424/7	10.0	3.906077	2.0	2775135.0	0.390608	Y



Calibration / Perfluorohexanoic acid

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

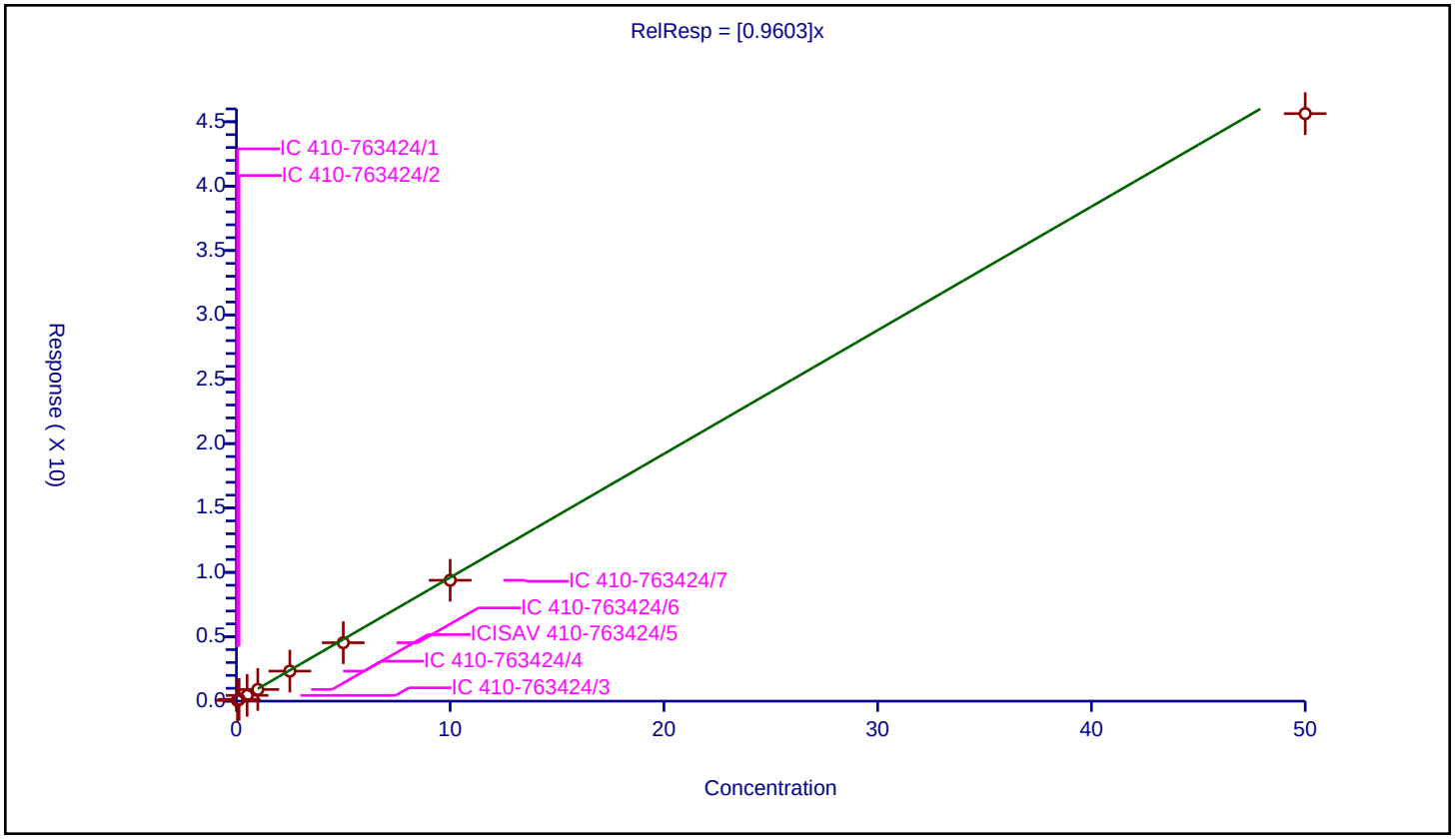
Curve Coefficients

Intercept:	0
Slope:	0.9603

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.054538	2.0	2892934.0	1.090754	Y
2	IC 410-763424/2	0.125	0.13741	2.0	2736629.0	1.099279	Y
3	IC 410-763424/3	0.5	0.446736	2.0	2911762.0	0.893471	Y
4	IC 410-763424/4	1.0	0.907156	2.0	2912880.0	0.907156	Y
5	ICISAV 410-763424/5	2.5	2.33158	2.0	2963040.0	0.932632	Y
6	IC 410-763424/6	5.0	4.53759	2.0	2773862.0	0.907518	Y
7	IC 410-763424/7	10.0	9.389038	2.0	2775135.0	0.938904	Y
8	IC 410-763424/8	50.0	45.631649	2.0	2234657.0	0.912633	Y



Calibration / 5:3 FTCA

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

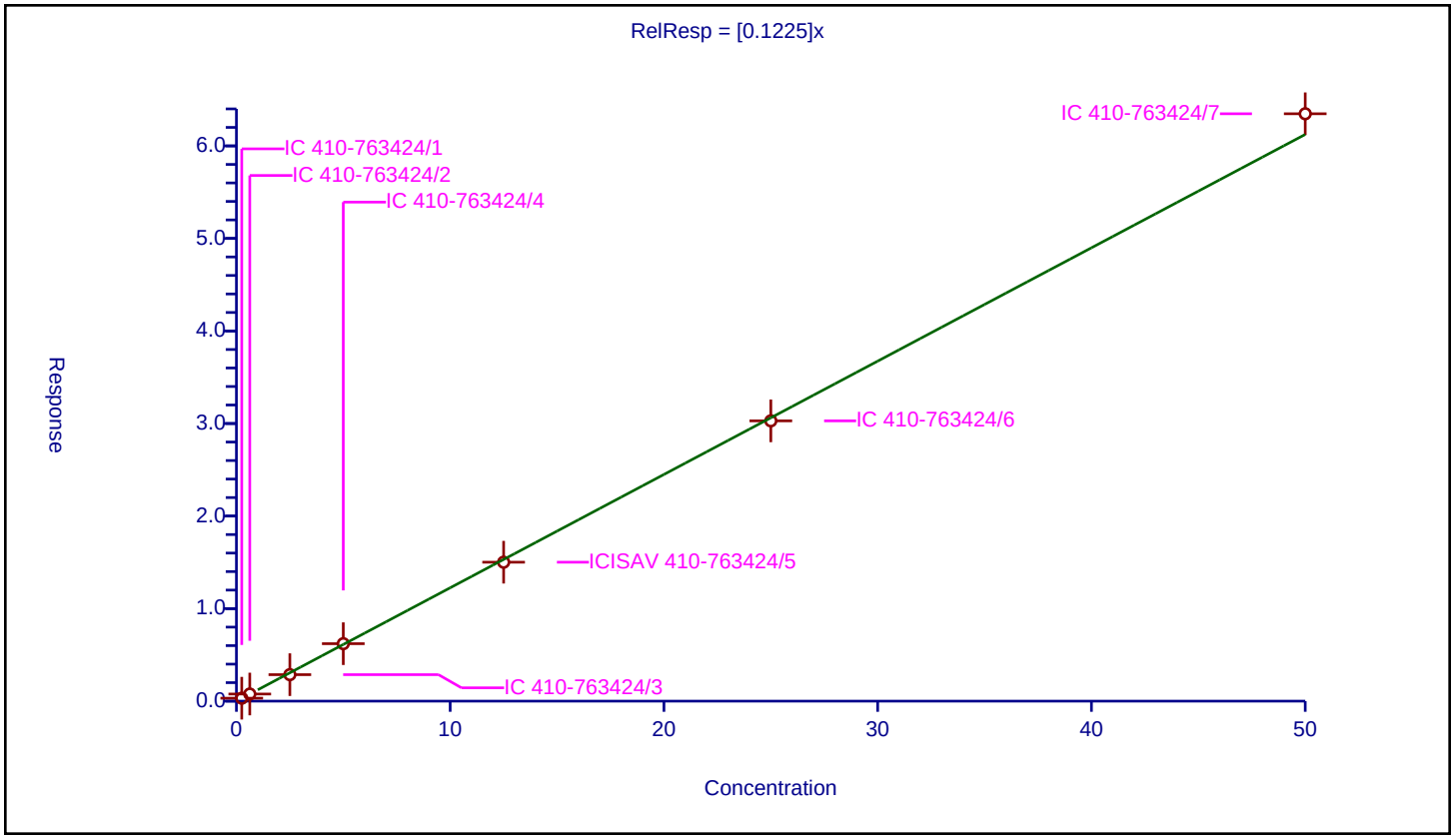
Curve Coefficients

Intercept:	0
Slope:	0.1225

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.25	0.031784	2.0	2892934.0	0.127135	Y
2	IC 410-763424/2	0.625	0.077032	2.0	2736629.0	0.123251	Y
3	IC 410-763424/3	2.5	0.286306	2.0	2911762.0	0.114522	Y
4	IC 410-763424/4	5.0	0.620961	2.0	2912880.0	0.124192	Y
5	ICISAV 410-763424/5	12.5	1.501457	2.0	2963040.0	0.120117	Y
6	IC 410-763424/6	25.0	3.028936	2.0	2773862.0	0.121157	Y
7	IC 410-763424/7	50.0	6.347469	2.0	2775135.0	0.126949	Y



Calibration / Perfluorobutanesulfonic acid

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

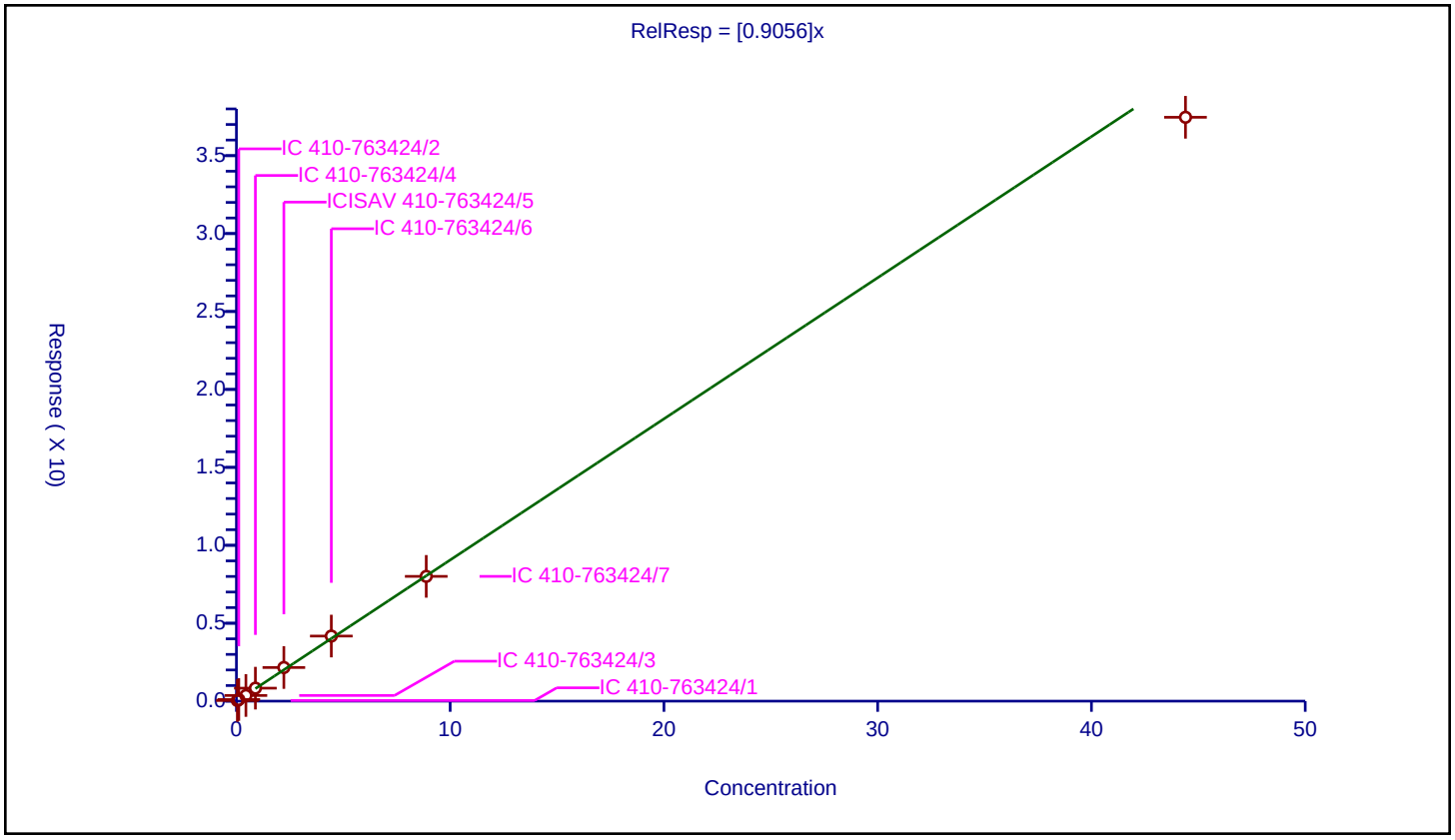
Curve Coefficients

Intercept:	0
Slope:	0.9056

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0444	0.039769	1.864	2202736.0	0.895698	Y
2	IC 410-763424/2	0.111	0.103962	1.864	2248706.0	0.936591	Y
3	IC 410-763424/3	0.444	0.362336	1.864	2328180.0	0.816072	Y
4	IC 410-763424/4	0.888	0.832943	1.864	2219097.0	0.937999	Y
5	ICISAV 410-763424/5	2.22	2.158196	1.864	2189227.0	0.97216	Y
6	IC 410-763424/6	4.44	4.176277	1.864	2108815.0	0.940603	Y
7	IC 410-763424/7	8.88	8.006115	1.864	2073929.0	0.90159	Y
8	IC 410-763424/8	44.4	37.461771	1.864	1532156.0	0.843734	Y



Calibration / FBSA

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

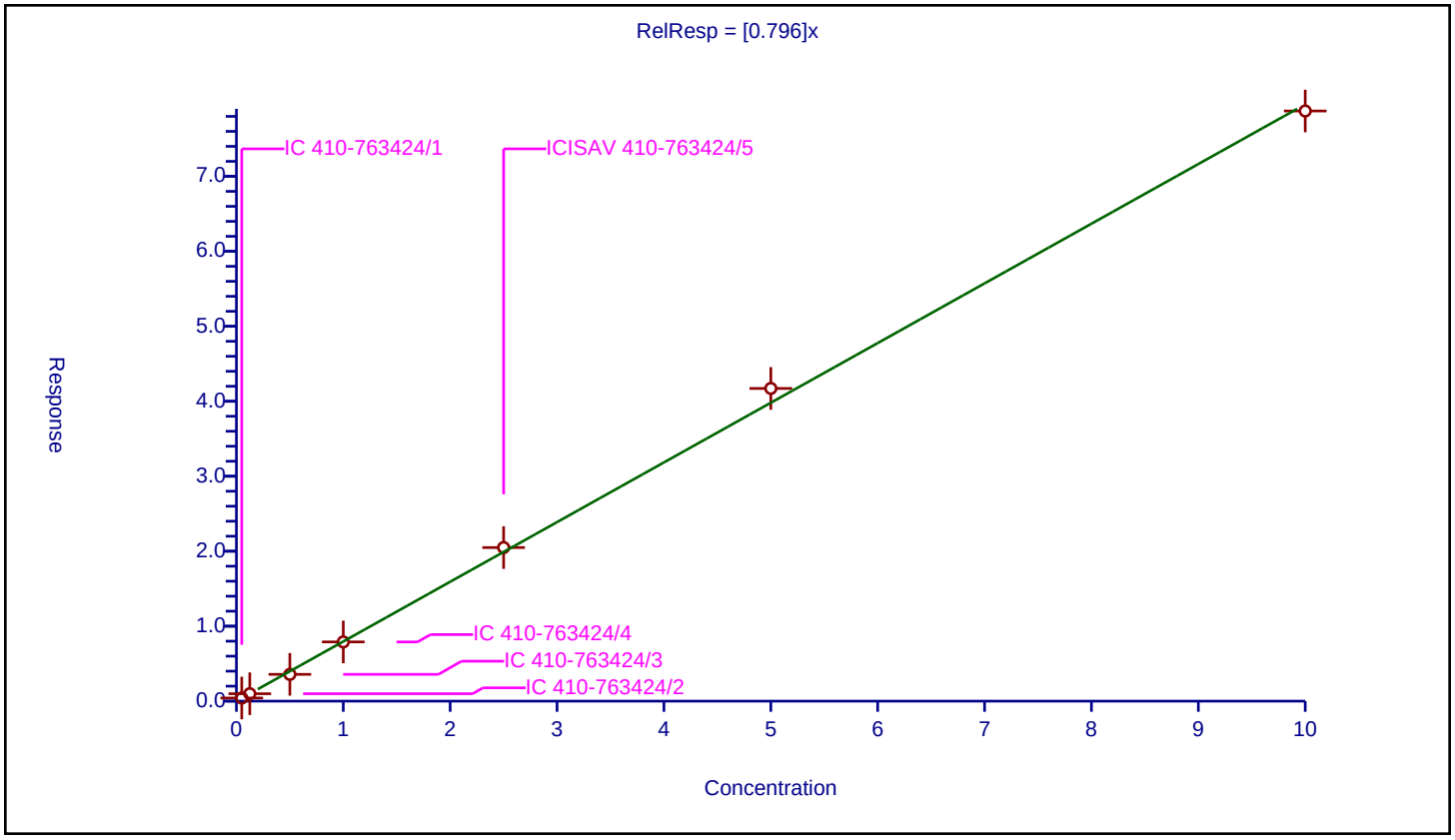
Curve Coefficients

Intercept:	0
Slope:	0.796

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.041742	1.864	2202736.0	0.834847	Y
2	IC 410-763424/2	0.125	0.099044	1.864	2248706.0	0.792356	Y
3	IC 410-763424/3	0.5	0.357143	1.864	2328180.0	0.714286	Y
4	IC 410-763424/4	1.0	0.789831	1.864	2219097.0	0.789831	Y
5	ICISAV 410-763424/5	2.5	2.048684	1.864	2189227.0	0.819473	Y
6	IC 410-763424/6	5.0	4.171203	1.864	2108815.0	0.834241	Y
7	IC 410-763424/7	10.0	7.872006	1.864	2073929.0	0.787201	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

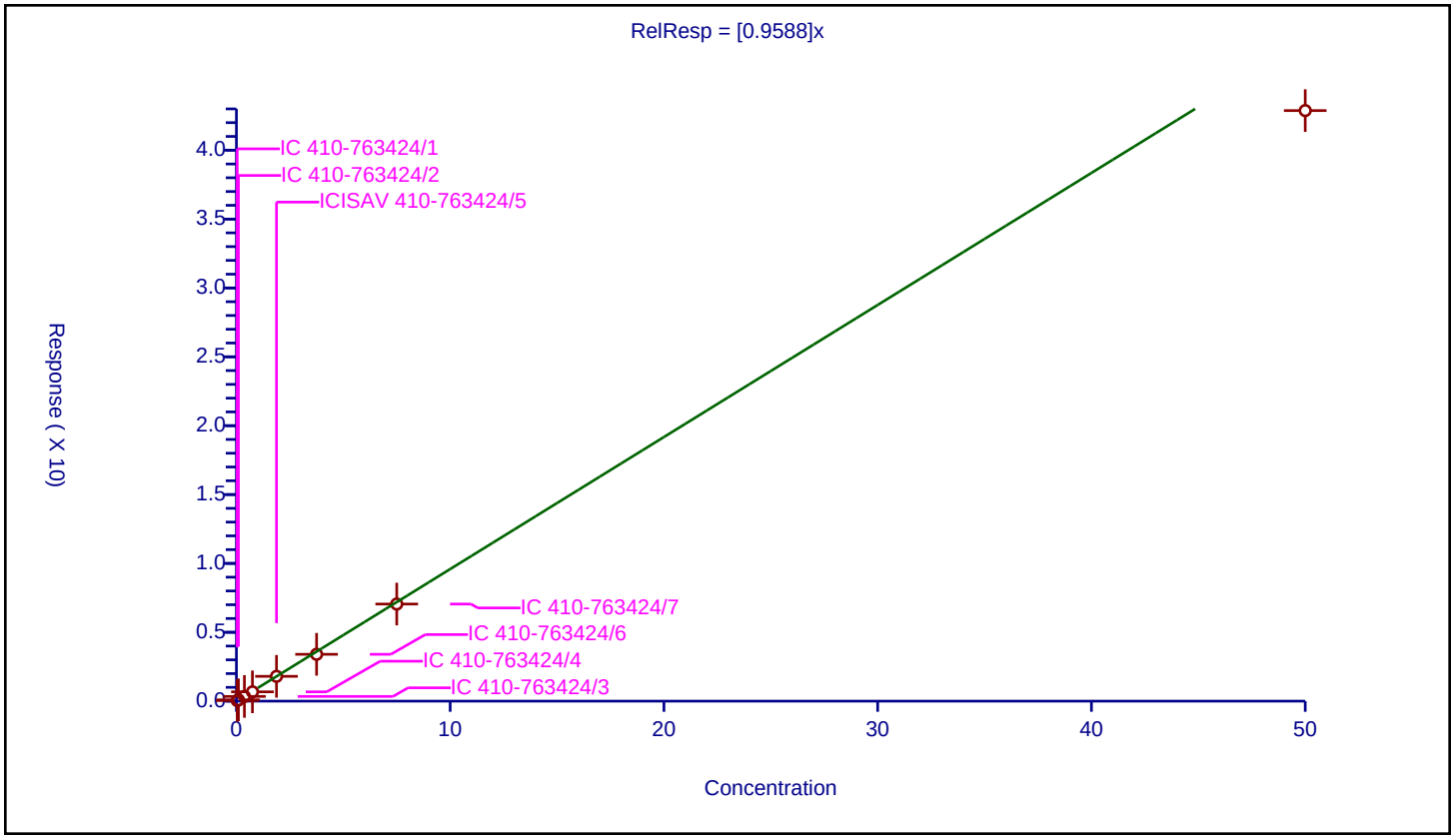
Curve Coefficients

Intercept:	0
Slope:	0.9588

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0375	0.043773	2.0	1784435.0	1.167279	Y
2	IC 410-763424/2	0.09375	0.095982	2.0	1873985.0	1.023803	Y
3	IC 410-763424/3	0.375	0.342183	2.0	1954578.0	0.912489	Y
4	IC 410-763424/4	0.75	0.675816	2.0	2002913.0	0.901088	Y
5	ICISAV 410-763424/5	1.875	1.802088	2.0	1953115.0	0.961114	Y
6	IC 410-763424/6	3.75	3.400636	2.0	1991911.0	0.906836	Y
7	IC 410-763424/7	7.5	7.05031	2.0	1932218.0	0.940041	Y
8	IC 410-763424/8	50.0	42.876971	2.0	1668805.0	0.857539	Y



Calibration / Perfluoro (2-ethoxyethane) sulfonic acid

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

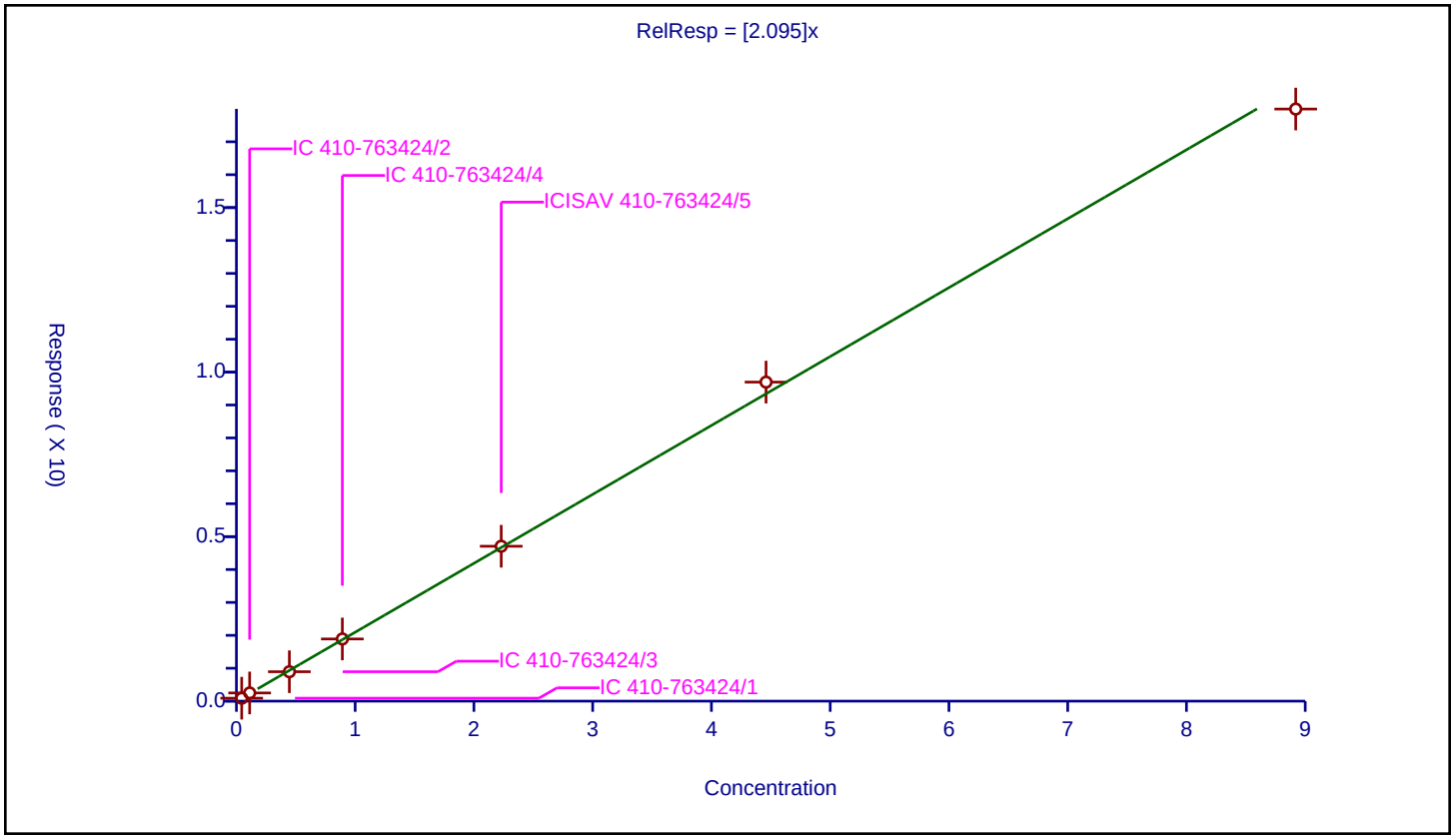
Curve Coefficients

Intercept:	0
Slope:	2.095

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0446	0.089405	2.0	2892934.0	2.00459	Y
2	IC 410-763424/2	0.1115	0.248719	2.0	2736629.0	2.230665	Y
3	IC 410-763424/3	0.446	0.894423	2.0	2911762.0	2.005432	Y
4	IC 410-763424/4	0.892	1.889677	2.0	2912880.0	2.118472	Y
5	ICISAV 410-763424/5	2.23	4.707776	2.0	2963040.0	2.111111	Y
6	IC 410-763424/6	4.46	9.696341	2.0	2773862.0	2.174068	Y
7	IC 410-763424/7	8.92	17.994758	2.0	2775135.0	2.01735	Y



Calibration / Perfluoroheptanoic acid

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

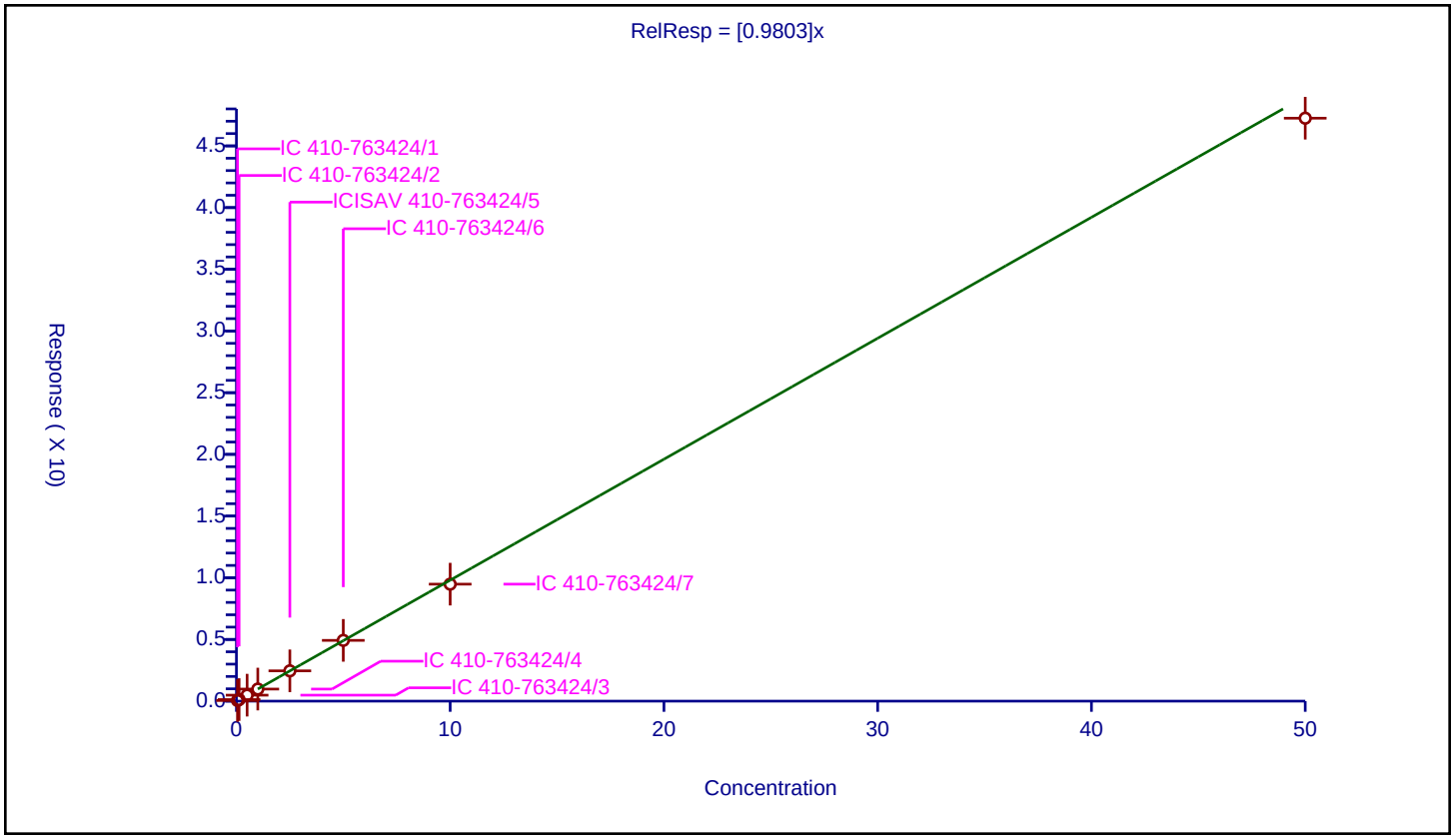
Curve Coefficients

Intercept:	0
Slope:	0.9803

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.051503	2.0	2623767.0	1.030061	Y
2	IC 410-763424/2	0.125	0.125599	2.0	2787718.0	1.00479	Y
3	IC 410-763424/3	0.5	0.48418	2.0	2734403.0	0.968361	Y
4	IC 410-763424/4	1.0	0.979254	2.0	2937982.0	0.979254	Y
5	ICISAV 410-763424/5	2.5	2.455806	2.0	2874716.0	0.982323	Y
6	IC 410-763424/6	5.0	4.923939	2.0	2773060.0	0.984788	Y
7	IC 410-763424/7	10.0	9.481646	2.0	2786329.0	0.948165	Y
8	IC 410-763424/8	50.0	47.246377	2.0	2232134.0	0.944928	Y



Calibration / DONA

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

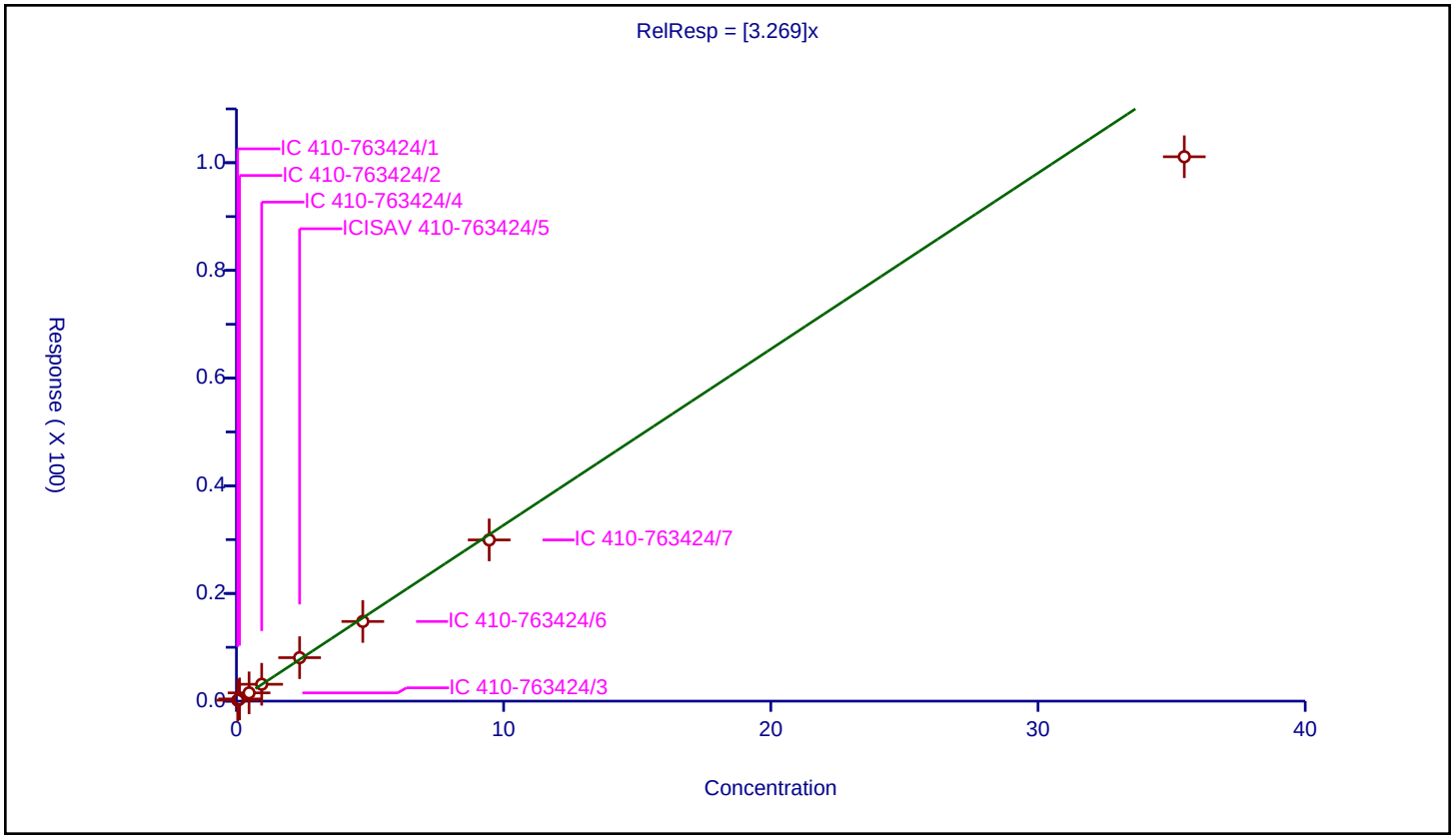
Curve Coefficients

Intercept:	0
Slope:	3.269

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0473	0.16985	2.0	1784435.0	3.590906	Y
2	IC 410-763424/2	0.11825	0.407307	2.0	1873985.0	3.44446	Y
3	IC 410-763424/3	0.473	1.537385	2.0	1954578.0	3.250284	Y
4	IC 410-763424/4	0.946	3.132444	2.0	2002913.0	3.311251	Y
5	ICISAV 410-763424/5	2.365	8.073974	2.0	1953115.0	3.413943	Y
6	IC 410-763424/6	4.73	14.800413	2.0	1991911.0	3.129051	Y
7	IC 410-763424/7	9.46	29.943869	2.0	1932218.0	3.165314	Y
8	IC 410-763424/8	35.475	101.112513	2.0	1668805.0	2.850247	Y



Calibration / Perfluoropentanesulfonic acid

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

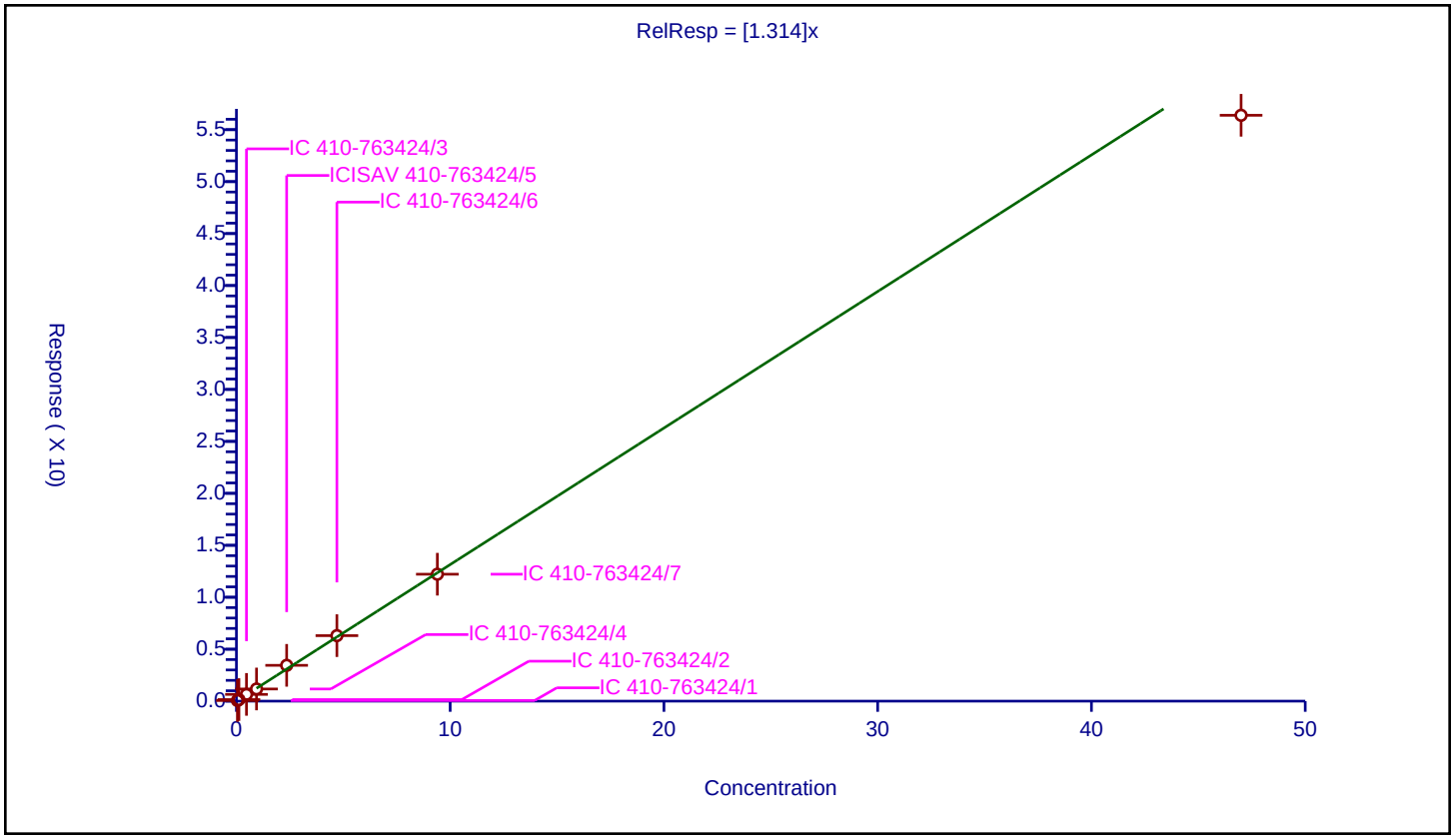
Curve Coefficients

Intercept:	0
Slope:	1.314

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.047	0.061385	1.896	1749401.0	1.306071	Y
2	IC 410-763424/2	0.1175	0.149745	1.896	1788184.0	1.274428	Y
3	IC 410-763424/3	0.47	0.648543	1.896	1727016.0	1.37988	Y
4	IC 410-763424/4	0.94	1.170953	1.896	1838796.0	1.245694	Y
5	ICISAV 410-763424/5	2.35	3.446291	1.896	1662870.0	1.466507	Y
6	IC 410-763424/6	4.7	6.304657	1.896	1703545.0	1.341416	Y
7	IC 410-763424/7	9.4	12.216125	1.896	1637974.0	1.299588	Y
8	IC 410-763424/8	47.0	56.383509	1.896	1374187.0	1.199649	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

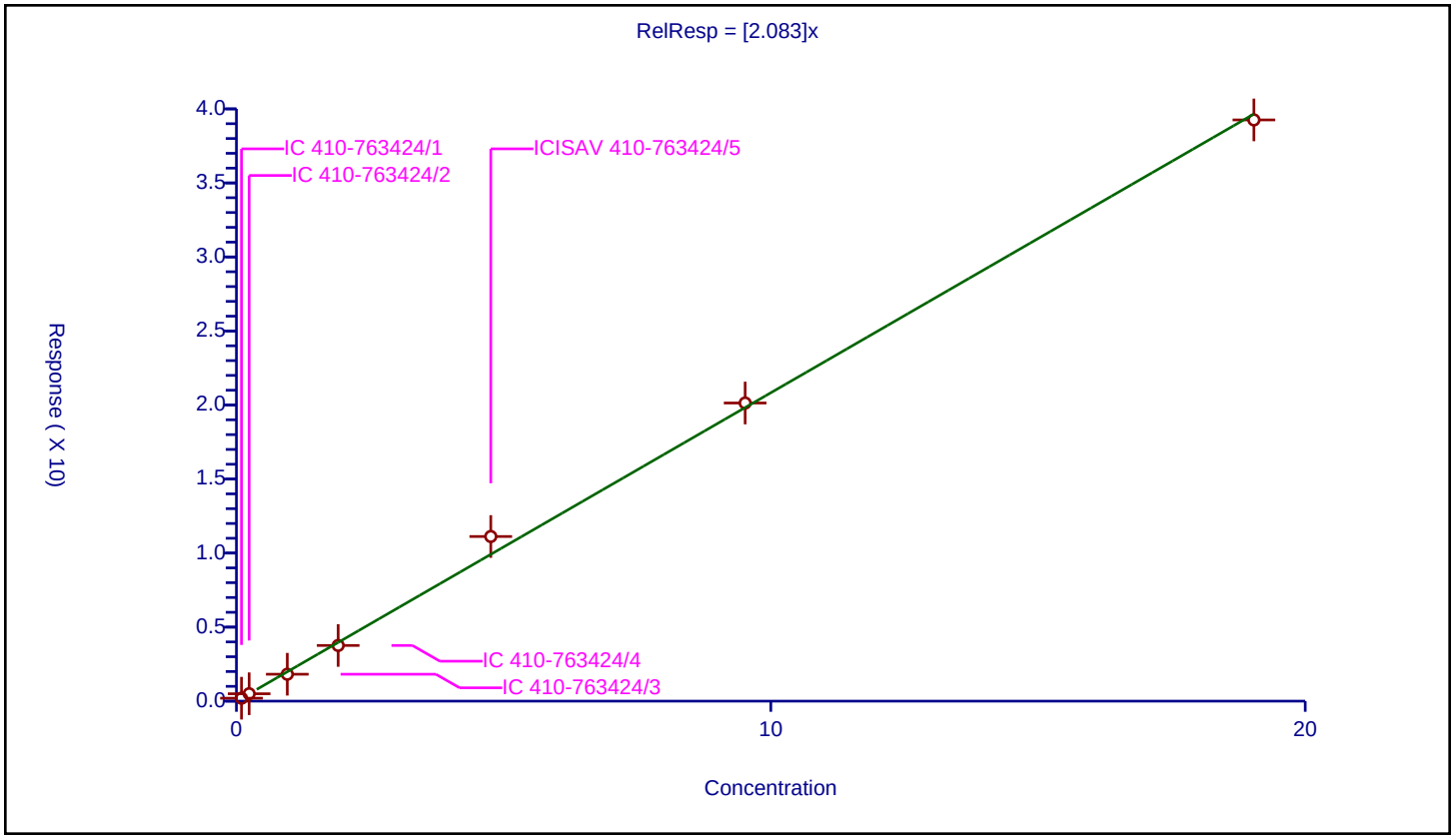
Curve Coefficients

Intercept:	0
Slope:	2.083

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0952	0.198297	4.76	700522.0	2.082947	Y
2	IC 410-763424/2	0.238	0.499594	4.76	697735.0	2.099135	Y
3	IC 410-763424/3	0.952	1.817649	4.76	698551.0	1.909295	Y
4	IC 410-763424/4	1.904	3.75973	4.76	712051.0	1.974648	Y
5	ICISAV 410-763424/5	4.76	11.120194	4.76	652981.0	2.336175	Y
6	IC 410-763424/6	9.52	20.134834	4.76	594499.0	2.115004	Y
7	IC 410-763424/7	19.04	39.25459	4.76	531365.0	2.061691	Y



Calibration / bis(trifluoromethane)sulfonimide

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

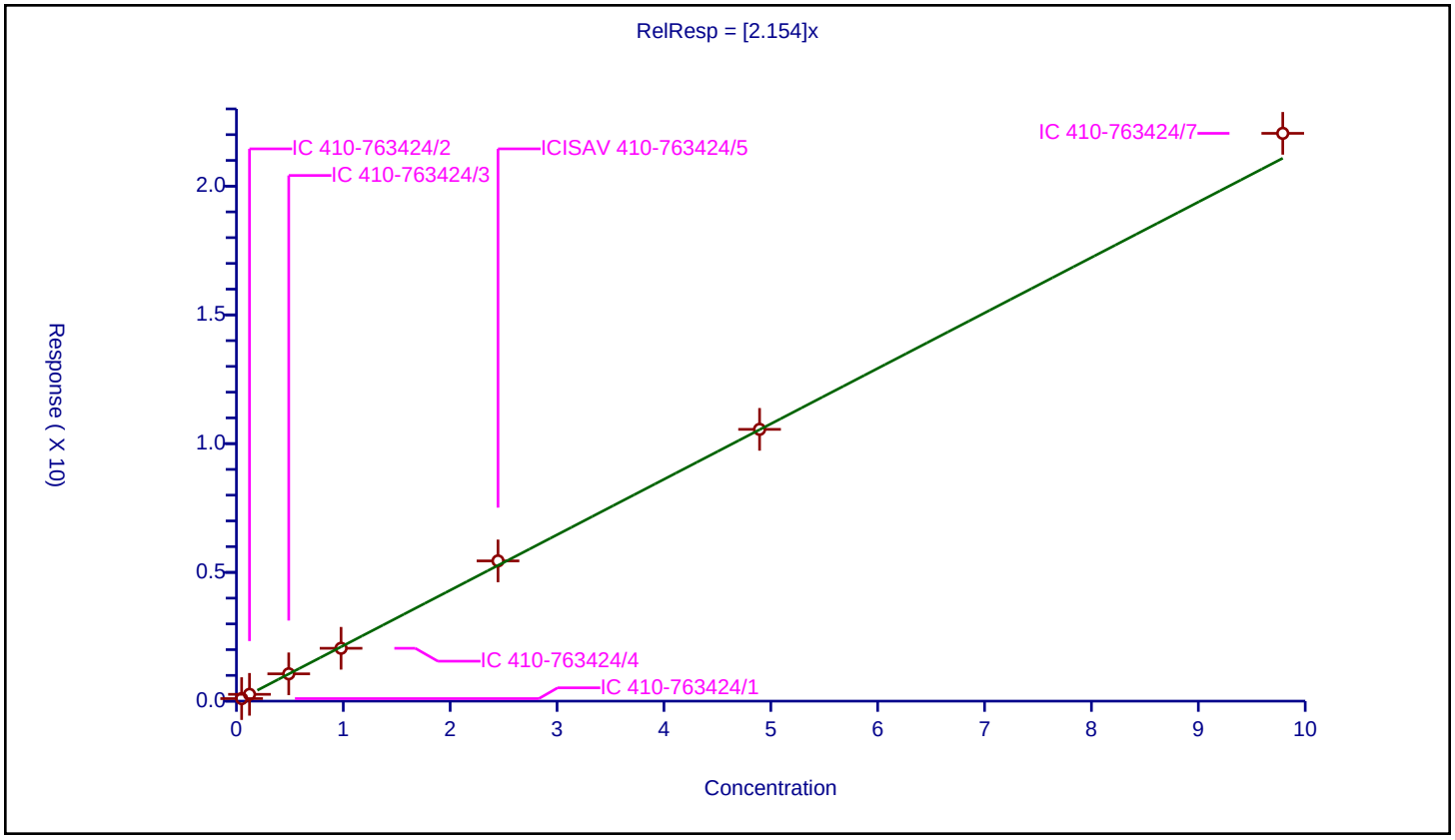
Curve Coefficients

Intercept:	0
Slope:	2.154

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.04895	0.098918	1.896	1749401.0	2.020805	Y
2	IC 410-763424/2	0.122375	0.264054	1.896	1788184.0	2.157748	Y
3	IC 410-763424/3	0.4895	1.060276	1.896	1727016.0	2.166038	Y
4	IC 410-763424/4	0.979	2.052882	1.896	1838796.0	2.096918	Y
5	ICISAV 410-763424/5	2.4475	5.445895	1.896	1662870.0	2.225085	Y
6	IC 410-763424/6	4.895	10.555273	1.896	1703545.0	2.156338	Y
7	IC 410-763424/7	9.79	22.050698	1.896	1637974.0	2.25237	Y



Calibration / Perfluorooctanoic acid

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

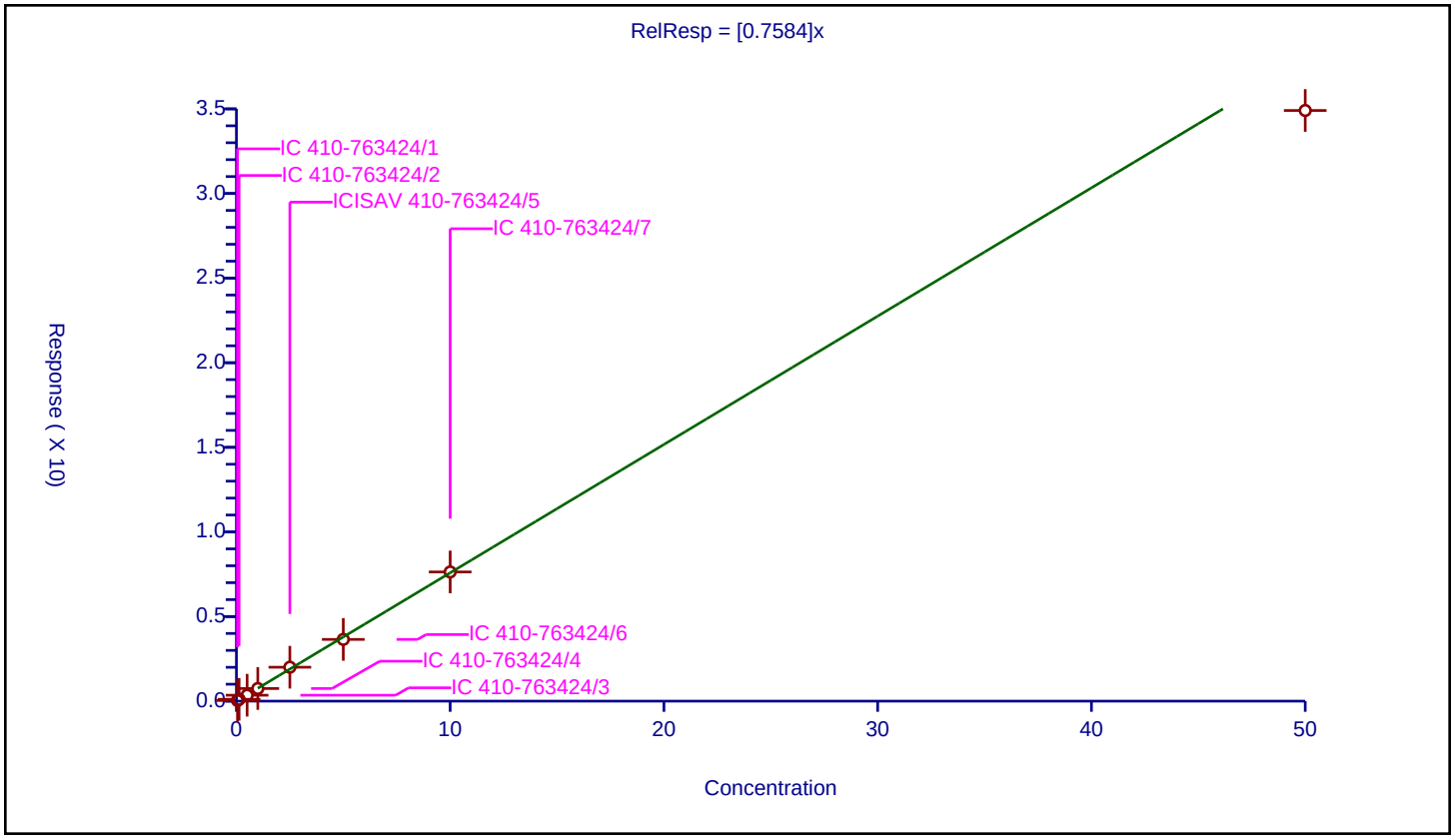
Curve Coefficients

Intercept:	0
Slope:	0.7584

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.038323	2.0	3370762.0	0.766462	Y
2	IC 410-763424/2	0.125	0.107677	2.0	3396255.0	0.861415	Y
3	IC 410-763424/3	0.5	0.35069	2.0	3482298.0	0.701379	Y
4	IC 410-763424/4	1.0	0.744623	2.0	3632480.0	0.744623	Y
5	ICISAV 410-763424/5	2.5	2.00474	2.0	3501614.0	0.801896	Y
6	IC 410-763424/6	5.0	3.647919	2.0	3493877.0	0.729584	Y
7	IC 410-763424/7	10.0	7.634384	2.0	3427872.0	0.763438	Y
8	IC 410-763424/8	50.0	34.905183	2.0	3114619.0	0.698104	Y



Calibration / 7:3 FTCA

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

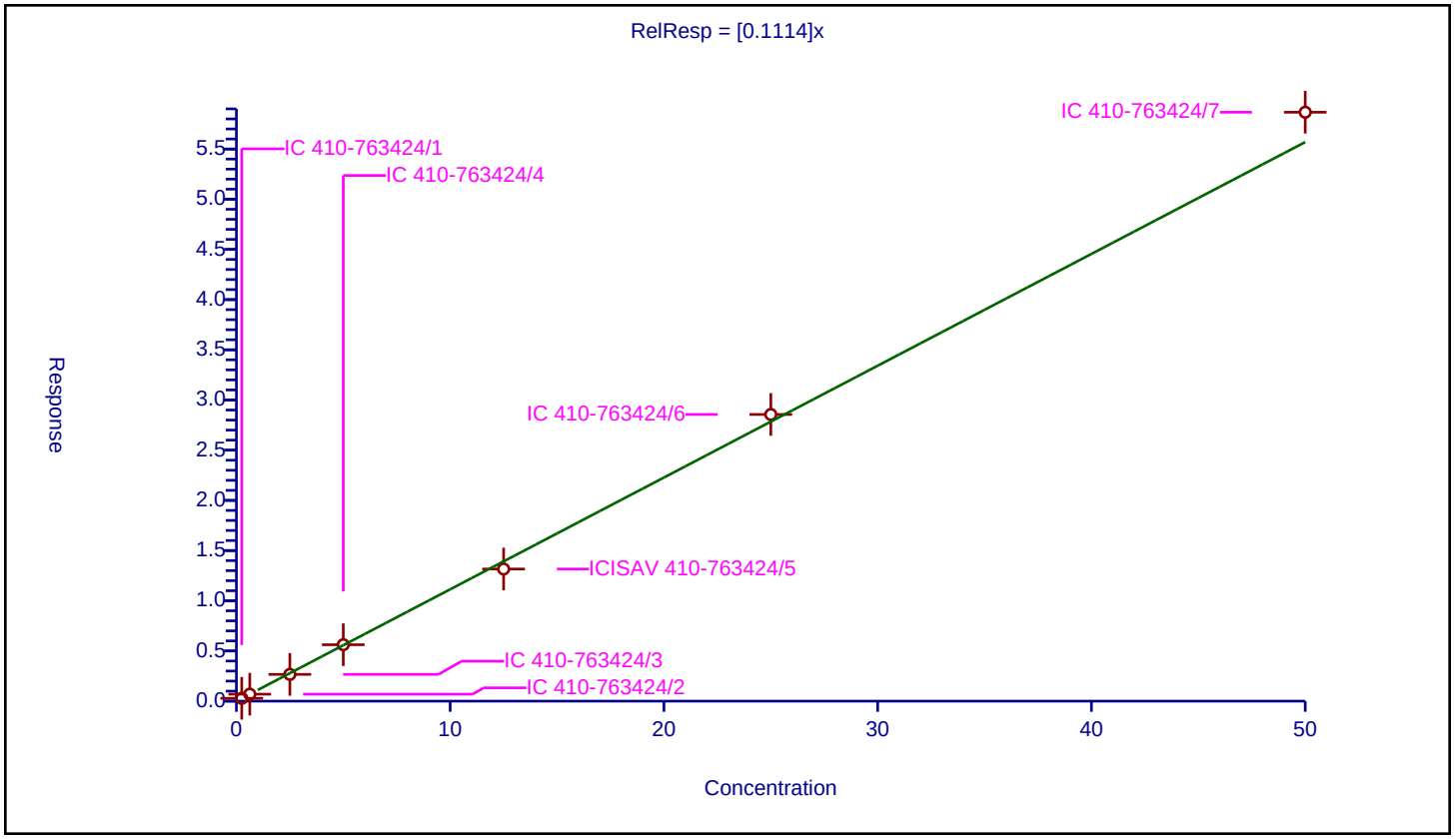
Curve Coefficients

Intercept:	0
Slope:	0.1114

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.25	0.028199	2.0	2892934.0	0.112796	Y
2	IC 410-763424/2	0.625	0.069356	2.0	2736629.0	0.11097	Y
3	IC 410-763424/3	2.5	0.26652	2.0	2911762.0	0.106608	Y
4	IC 410-763424/4	5.0	0.562083	2.0	2912880.0	0.112417	Y
5	ICISAV 410-763424/5	12.5	1.31627	2.0	2963040.0	0.105302	Y
6	IC 410-763424/6	25.0	2.855993	2.0	2773862.0	0.11424	Y
7	IC 410-763424/7	50.0	5.866582	2.0	2775135.0	0.117332	Y



Calibration / Perfluorohexanesulfonic acid

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

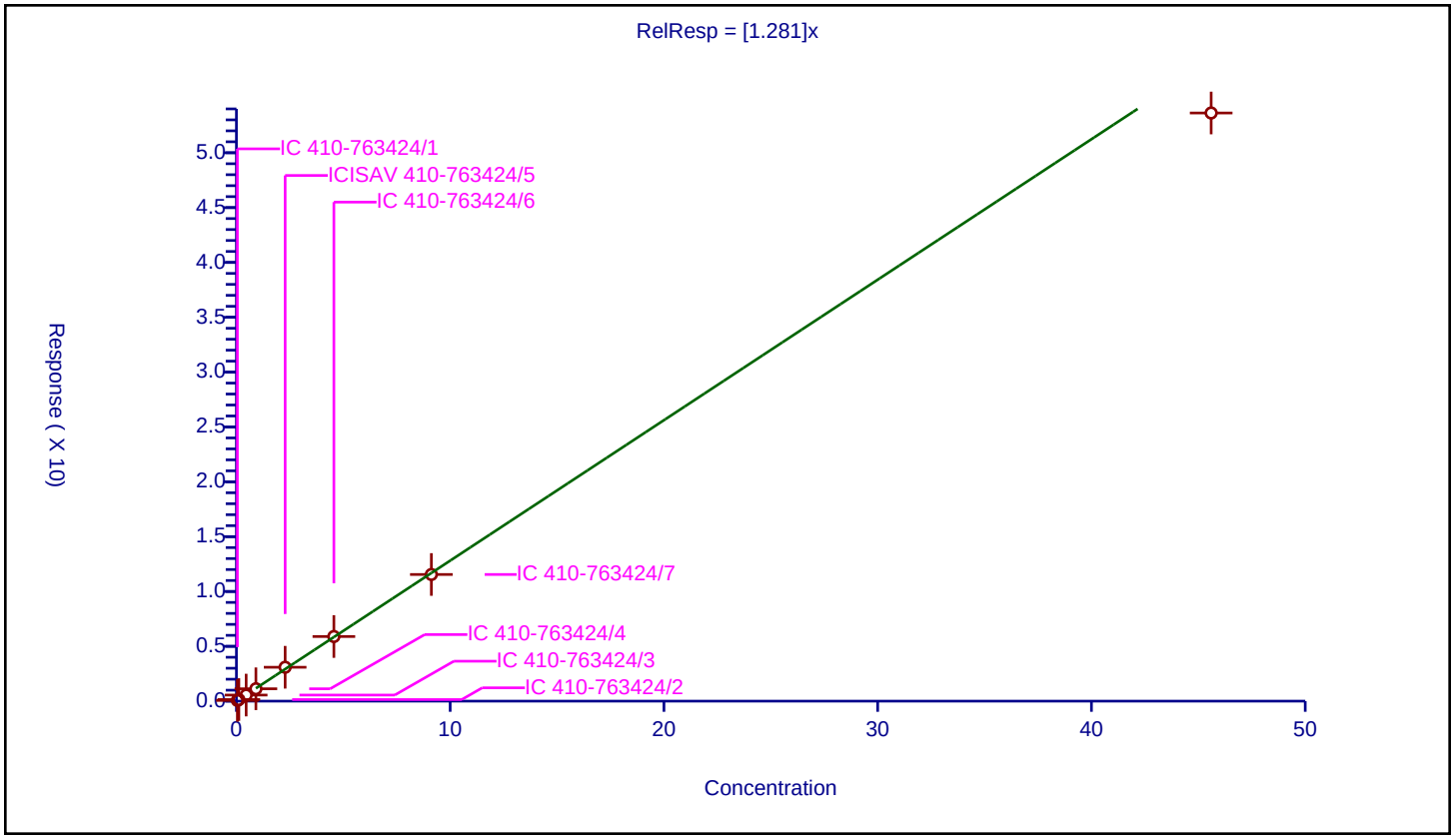
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0456	0.065488	1.896	1749401.0	1.436129	Y
2	IC 410-763424/2	0.114	0.144626	1.896	1788184.0	1.268651	Y
3	IC 410-763424/3	0.456	0.553661	1.896	1727016.0	1.214169	Y
4	IC 410-763424/4	0.912	1.129169	1.896	1838796.0	1.238124	Y
5	ICISAV 410-763424/5	2.28	3.089706	1.896	1662870.0	1.355134	Y
6	IC 410-763424/6	4.56	5.893468	1.896	1703545.0	1.292427	Y
7	IC 410-763424/7	9.12	11.547483	1.896	1637974.0	1.266171	Y
8	IC 410-763424/8	45.6	53.626243	1.896	1374187.0	1.176014	Y



Calibration / Perfluorononanoic acid

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

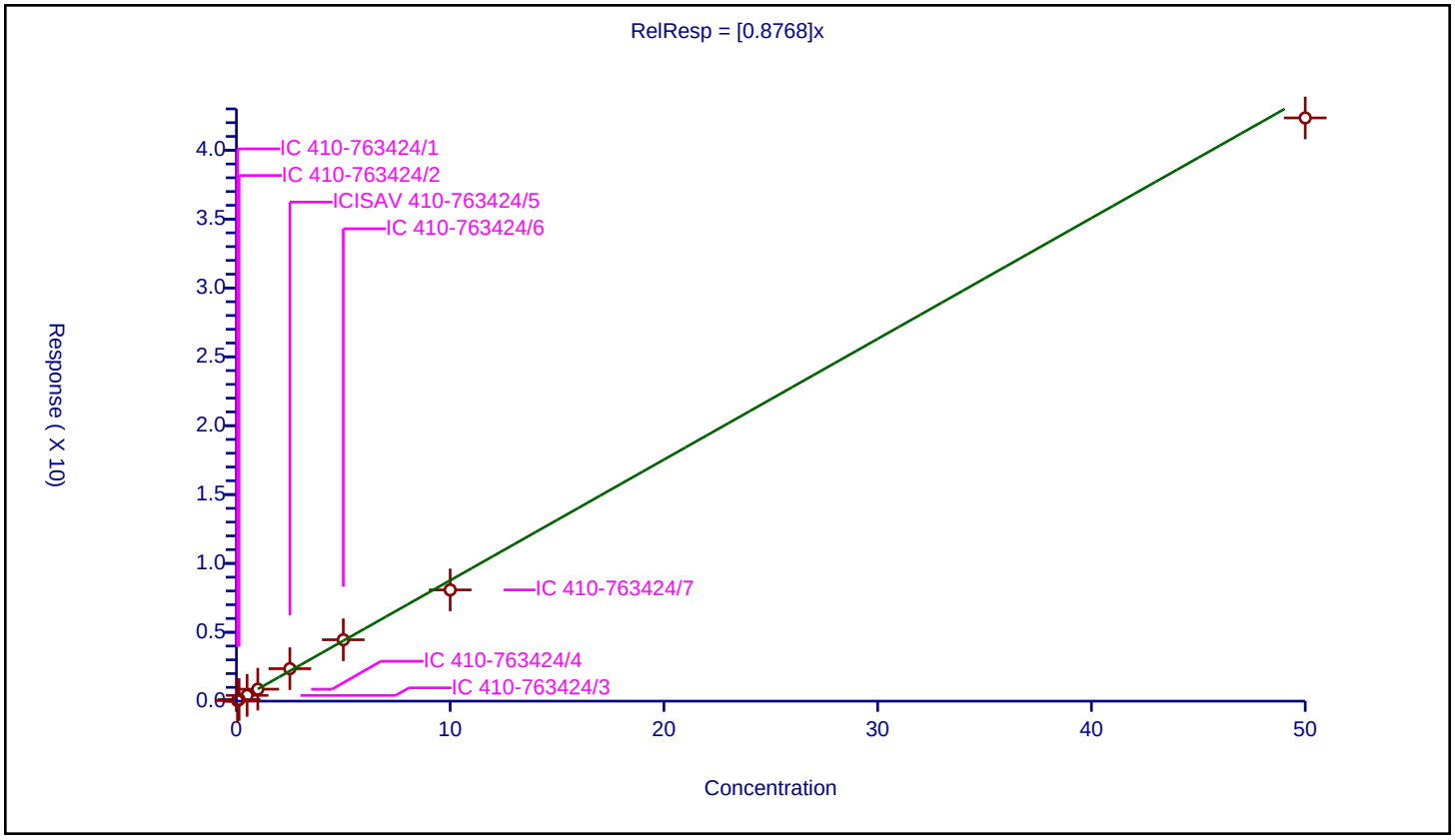
Curve Coefficients

Intercept:	0
Slope:	0.8768

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.044262	2.0	2933040.0	0.885239	Y
2	IC 410-763424/2	0.125	0.11678	2.0	3027572.0	0.93424	Y
3	IC 410-763424/3	0.5	0.418576	2.0	3013766.0	0.837152	Y
4	IC 410-763424/4	1.0	0.868833	2.0	3220001.0	0.868833	Y
5	ICISAV 410-763424/5	2.5	2.358848	2.0	2867428.0	0.943539	Y
6	IC 410-763424/6	5.0	4.455506	2.0	2877768.0	0.891101	Y
7	IC 410-763424/7	10.0	8.076073	2.0	3032084.0	0.807607	Y
8	IC 410-763424/8	50.0	42.344242	2.0	2524652.0	0.846885	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

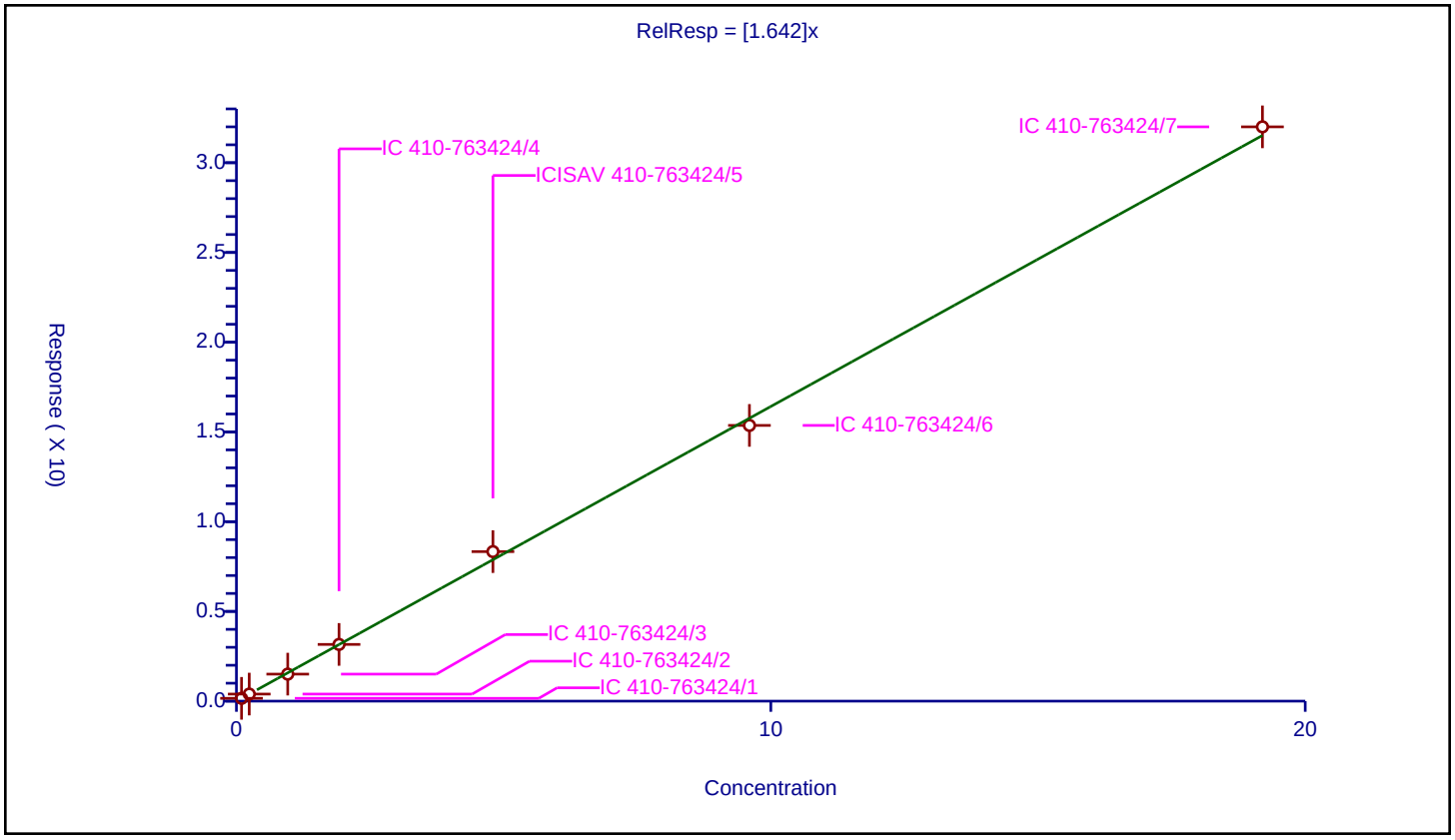
Curve Coefficients

Intercept:	0
Slope:	1.642

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.096	0.156944	4.8	653949.0	1.634837	Y
2	IC 410-763424/2	0.24	0.393484	4.8	623183.0	1.639518	Y
3	IC 410-763424/3	0.96	1.506248	4.8	645293.0	1.569008	Y
4	IC 410-763424/4	1.92	3.160707	4.8	689176.0	1.646201	Y
5	ICISAV 410-763424/5	4.8	8.33251	4.8	630560.0	1.735939	Y
6	IC 410-763424/6	9.6	15.362903	4.8	639586.0	1.600302	Y
7	IC 410-763424/7	19.2	32.000023	4.8	616389.0	1.666668	Y



Calibration / PFECHS

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

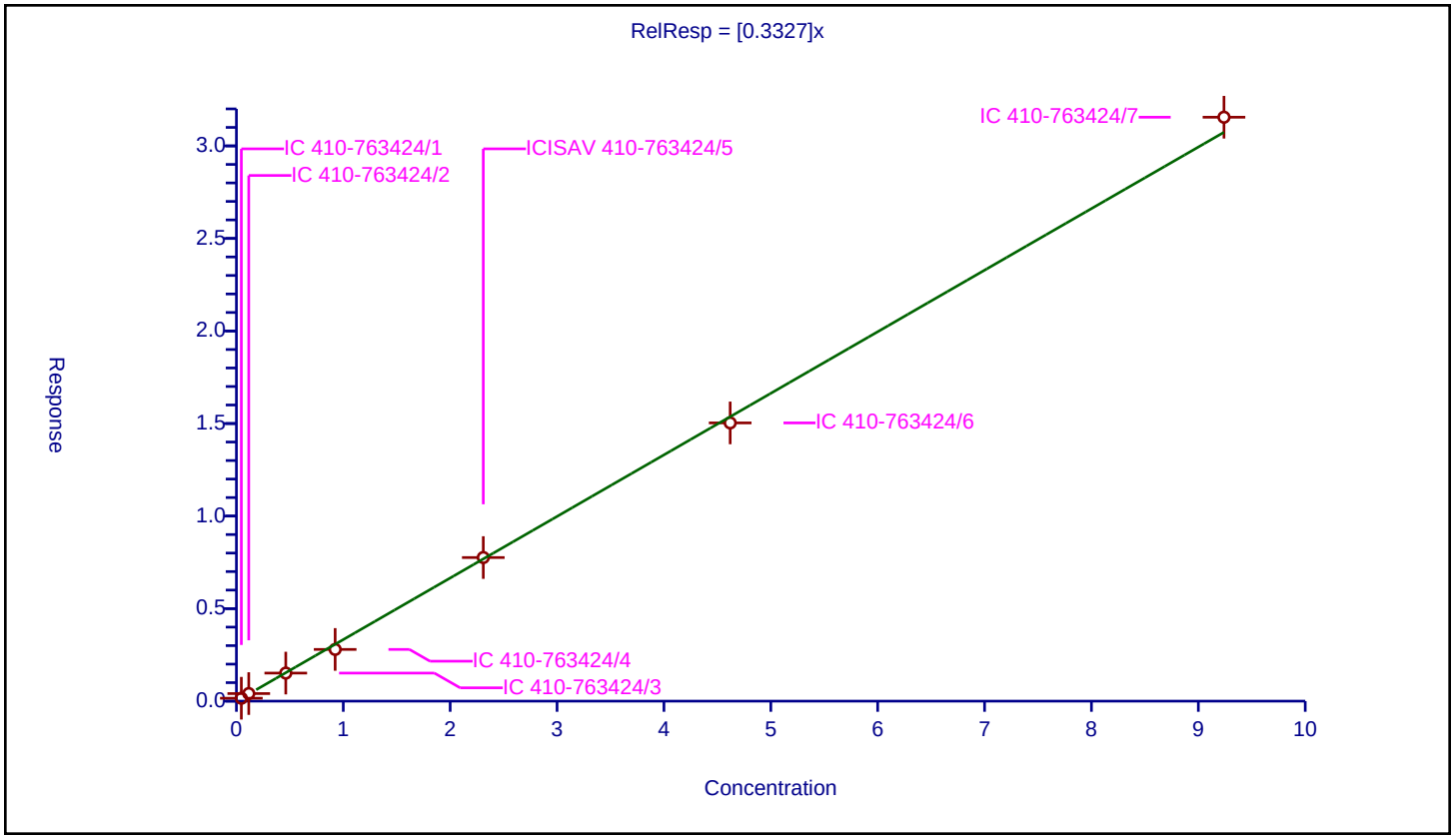
Curve Coefficients

Intercept:	0
Slope:	0.3327

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0462	0.01574	1.896	1749401.0	0.340693	Y
2	IC 410-763424/2	0.1155	0.04094	1.896	1788184.0	0.354459	Y
3	IC 410-763424/3	0.462	0.151676	1.896	1727016.0	0.328304	Y
4	IC 410-763424/4	0.924	0.279396	1.896	1838796.0	0.302376	Y
5	ICISAV 410-763424/5	2.31	0.775888	1.896	1662870.0	0.335882	Y
6	IC 410-763424/6	4.62	1.503372	1.896	1703545.0	0.325405	Y
7	IC 410-763424/7	9.24	3.155017	1.896	1637974.0	0.341452	Y



Calibration / Perfluoroheptanesulfonic acid

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

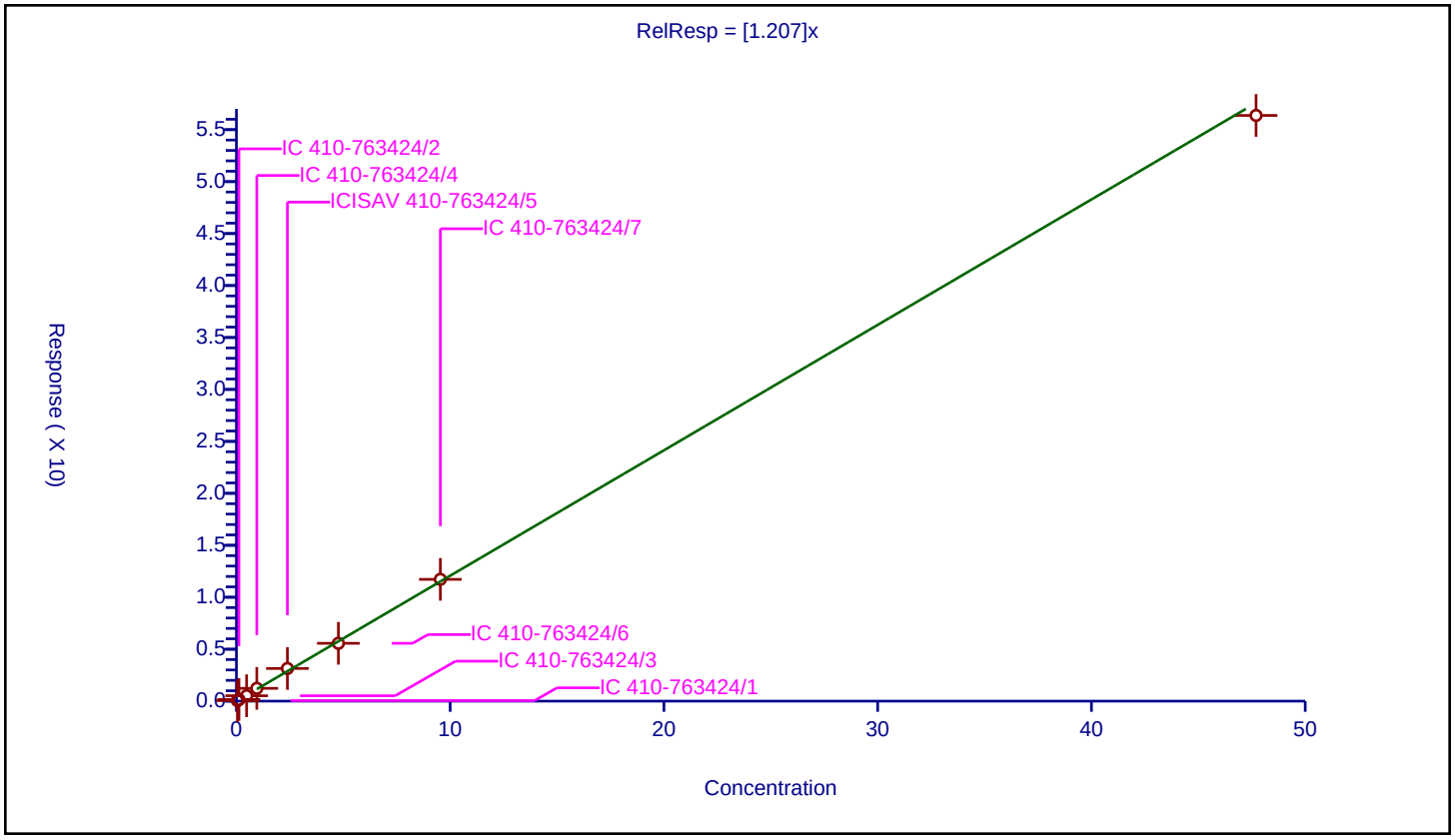
Curve Coefficients

Intercept:	0
Slope:	1.207

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0477	0.051005	1.916	1600975.0	1.069291	Y
2	IC 410-763424/2	0.11925	0.156342	1.916	1492693.0	1.311045	Y
3	IC 410-763424/3	0.477	0.519381	1.916	1615489.0	1.08885	Y
4	IC 410-763424/4	0.954	1.231685	1.916	1545005.0	1.291075	Y
5	ICISAV 410-763424/5	2.385	3.145046	1.916	1466647.0	1.318678	Y
6	IC 410-763424/6	4.77	5.567319	1.916	1535223.0	1.167153	Y
7	IC 410-763424/7	9.54	11.720218	1.916	1412203.0	1.228534	Y
8	IC 410-763424/8	47.7	56.369157	1.916	1107567.0	1.181743	Y



Calibration / FHxSA

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

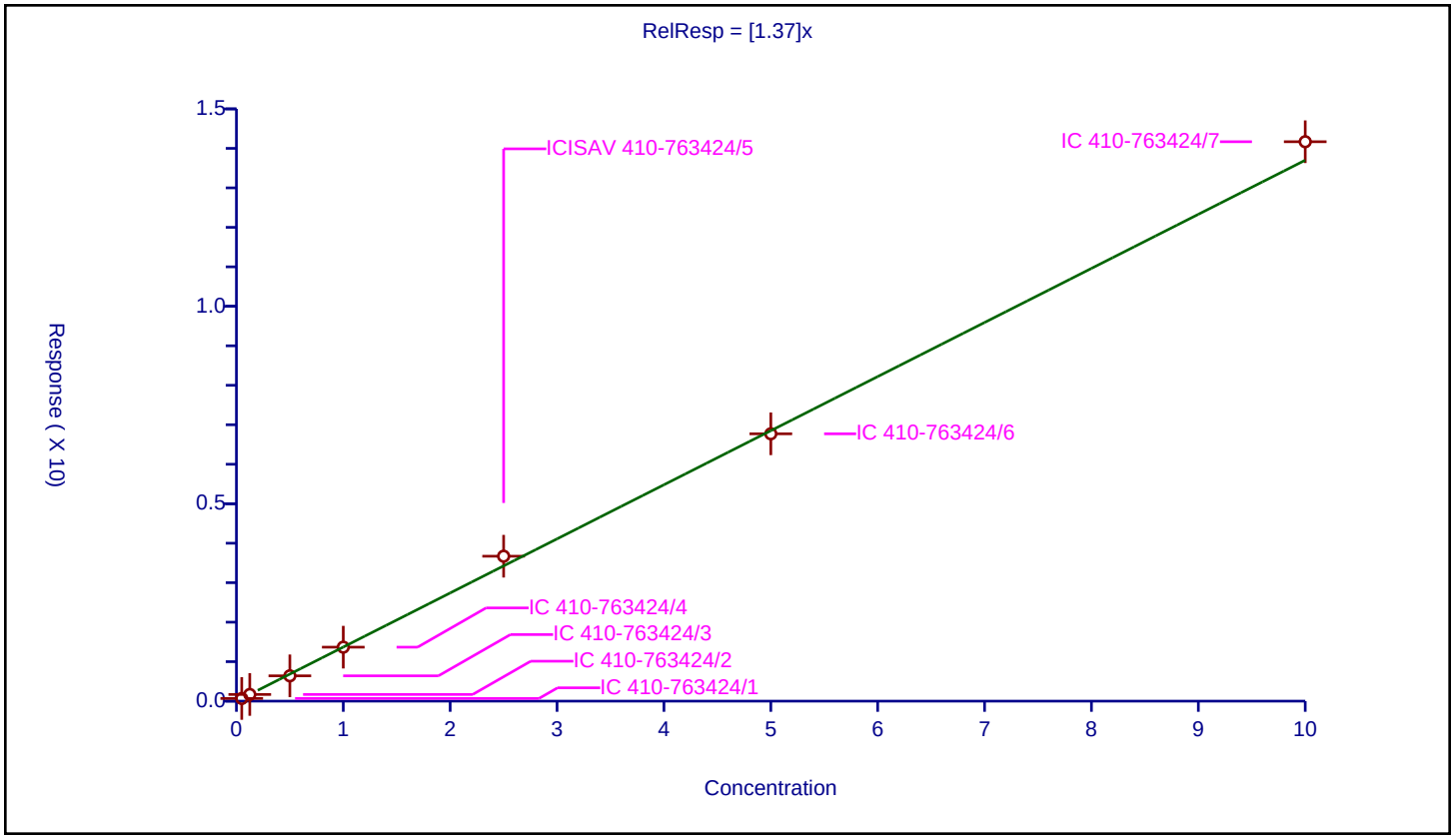
Curve Coefficients

Intercept:	0
Slope:	1.37

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.067473	1.896	1749401.0	1.34946	Y
2	IC 410-763424/2	0.125	0.169036	1.896	1788184.0	1.35229	Y
3	IC 410-763424/3	0.5	0.641045	1.896	1727016.0	1.28209	Y
4	IC 410-763424/4	1.0	1.366784	1.896	1838796.0	1.366784	Y
5	ICISAV 410-763424/5	2.5	3.670685	1.896	1662870.0	1.468274	Y
6	IC 410-763424/6	5.0	6.770794	1.896	1703545.0	1.354159	Y
7	IC 410-763424/7	10.0	14.168136	1.896	1637974.0	1.416814	Y



Calibration / N-methylperfluorooctanesulfonamidoacetic acid

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

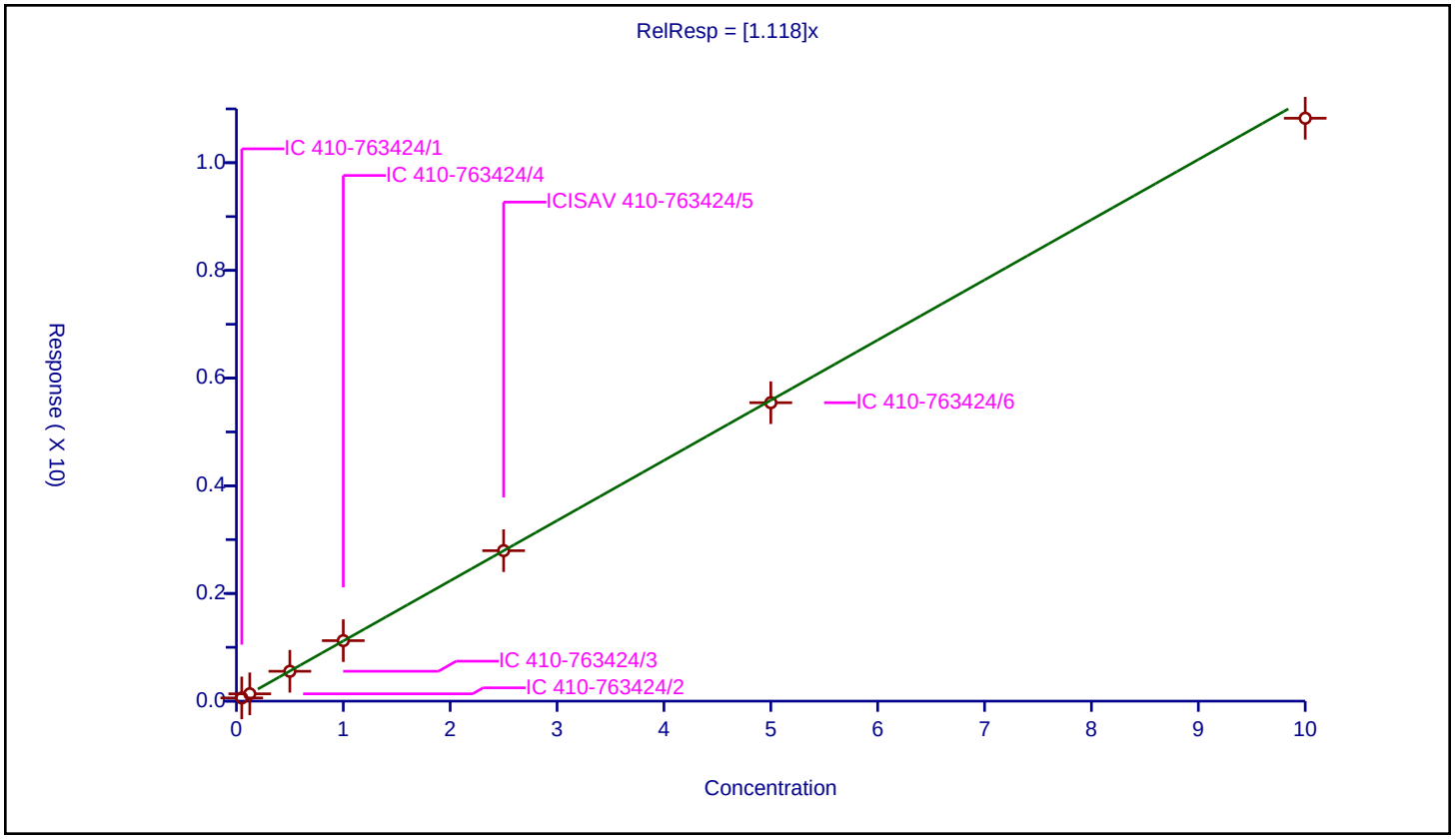
Curve Coefficients

Intercept:	0
Slope:	1.118

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.059455	5.0	1464553.0	1.1891	Y
2	IC 410-763424/2	0.125	0.136492	5.0	1527232.0	1.091936	Y
3	IC 410-763424/3	0.5	0.555017	5.0	1625634.0	1.110035	Y
4	IC 410-763424/4	1.0	1.123495	5.0	1666482.0	1.123495	Y
5	ICISAV 410-763424/5	2.5	2.79492	5.0	1639421.0	1.117968	Y
6	IC 410-763424/6	5.0	5.542918	5.0	1616653.0	1.108584	Y
7	IC 410-763424/7	10.0	10.826581	5.0	1628092.0	1.082658	Y



Calibration / Perfluorodecanoic acid

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

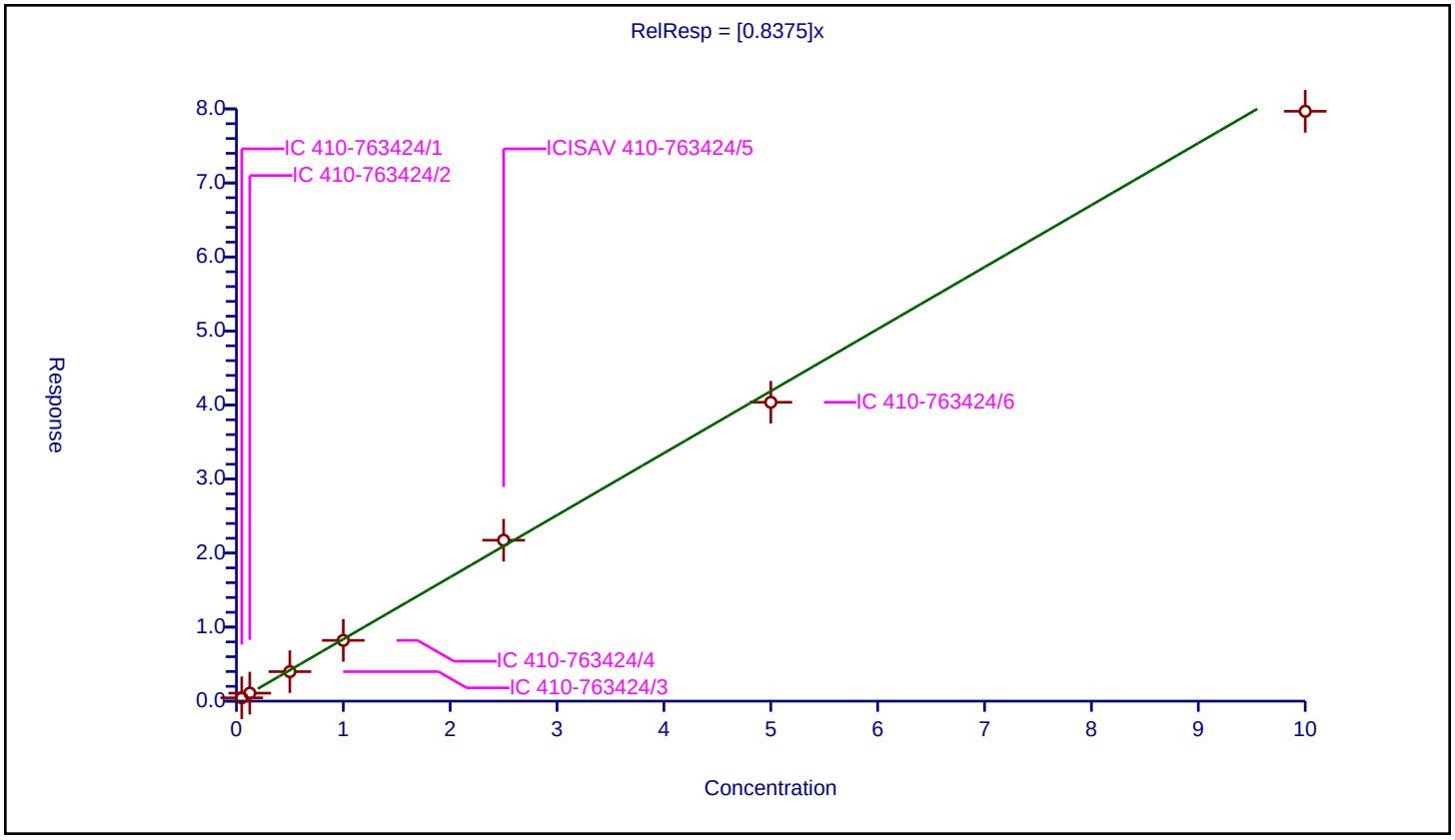
Curve Coefficients

Intercept:	0
Slope:	0.8375

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.04528	2.0	2945593.0	0.905597	Y
2	IC 410-763424/2	0.125	0.108207	2.0	2910412.0	0.865659	Y
3	IC 410-763424/3	0.5	0.398473	2.0	3347197.0	0.796946	Y
4	IC 410-763424/4	1.0	0.820711	2.0	3292675.0	0.820711	Y
5	ICISAV 410-763424/5	2.5	2.173971	2.0	3149568.0	0.869588	Y
6	IC 410-763424/6	5.0	4.037138	2.0	2985012.0	0.807428	Y
7	IC 410-763424/7	10.0	7.967984	2.0	2968739.0	0.796798	Y



Calibration / N-ethylperfluorooctanesulfonamidoacetic acid

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

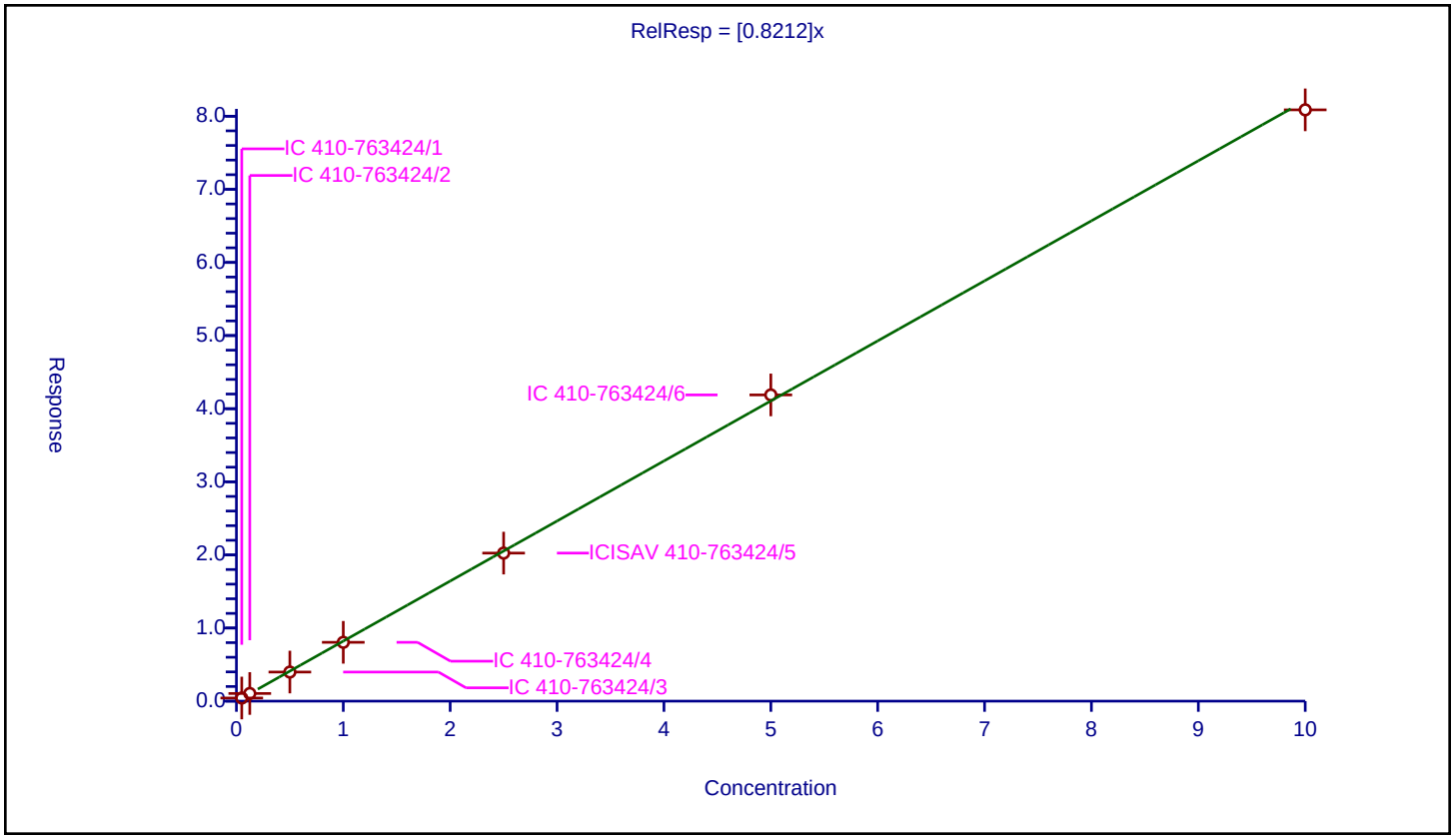
Curve Coefficients

Intercept:	0
Slope:	0.8212

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.042645	5.0	1349510.0	0.852902	Y
2	IC 410-763424/2	0.125	0.104874	5.0	1333414.0	0.838989	Y
3	IC 410-763424/3	0.5	0.397825	5.0	1437705.0	0.79565	Y
4	IC 410-763424/4	1.0	0.804404	5.0	1481028.0	0.804404	Y
5	ICISAV 410-763424/5	2.5	2.024598	5.0	1490298.0	0.809839	Y
6	IC 410-763424/6	5.0	4.188026	5.0	1359926.0	0.837605	Y
7	IC 410-763424/7	10.0	8.086933	5.0	1419720.0	0.808693	Y



Calibration / Perfluorooctanesulfonic acid

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

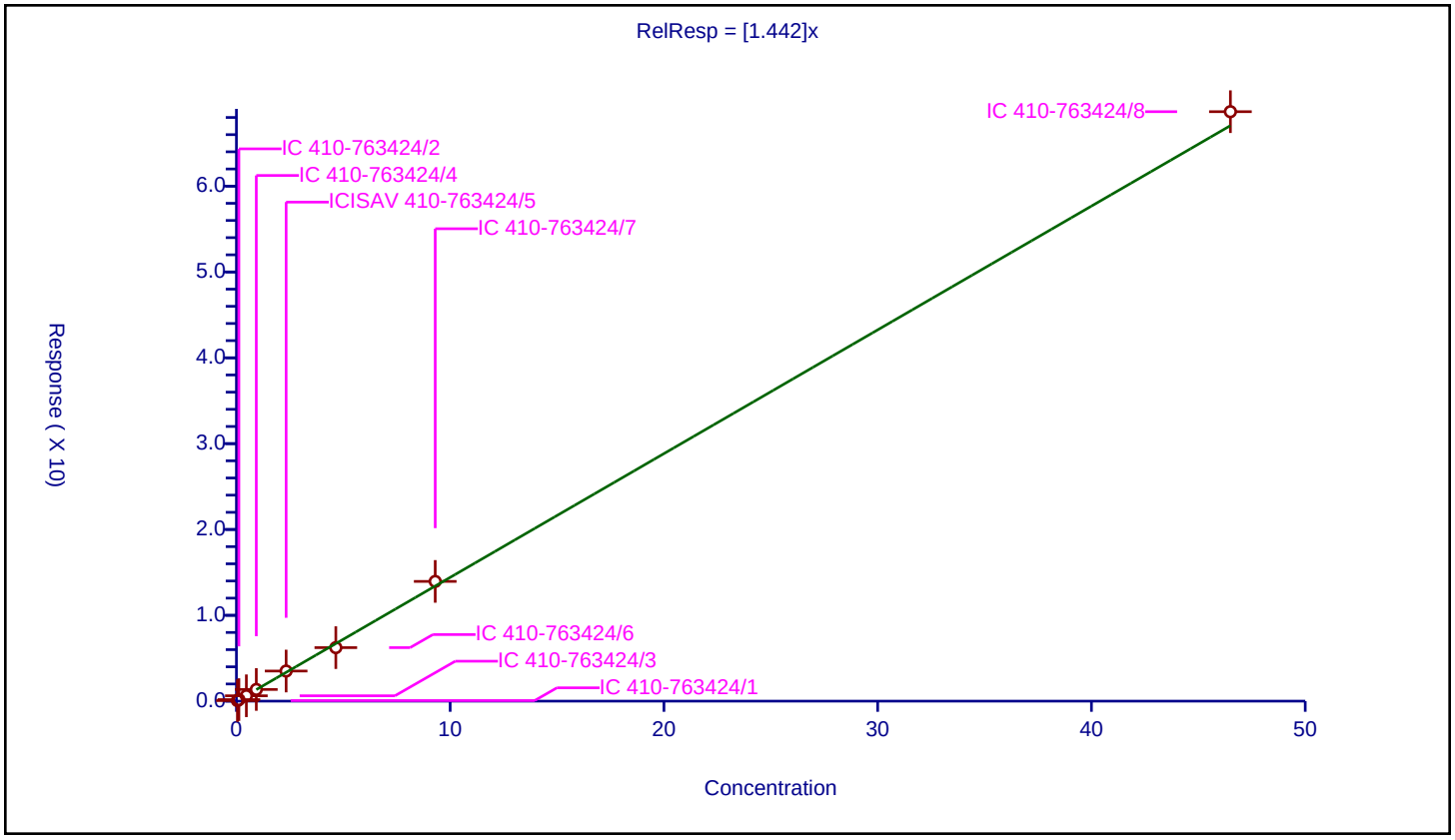
Curve Coefficients

Intercept:	0
Slope:	1.442

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0465	0.062948	1.916	1600975.0	1.353715	Y
2	IC 410-763424/2	0.11625	0.179743	1.916	1492693.0	1.546177	Y
3	IC 410-763424/3	0.465	0.625969	1.916	1615489.0	1.346169	Y
4	IC 410-763424/4	0.93	1.359886	1.916	1545005.0	1.462243	Y
5	ICISAV 410-763424/5	2.325	3.508827	1.916	1466647.0	1.509173	Y
6	IC 410-763424/6	4.65	6.234653	1.916	1535223.0	1.340786	Y
7	IC 410-763424/7	9.3	13.948899	1.916	1412203.0	1.499882	Y
8	IC 410-763424/8	46.5	68.675259	1.916	1107567.0	1.476887	Y



Calibration / Perfluoroundecanoic acid

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

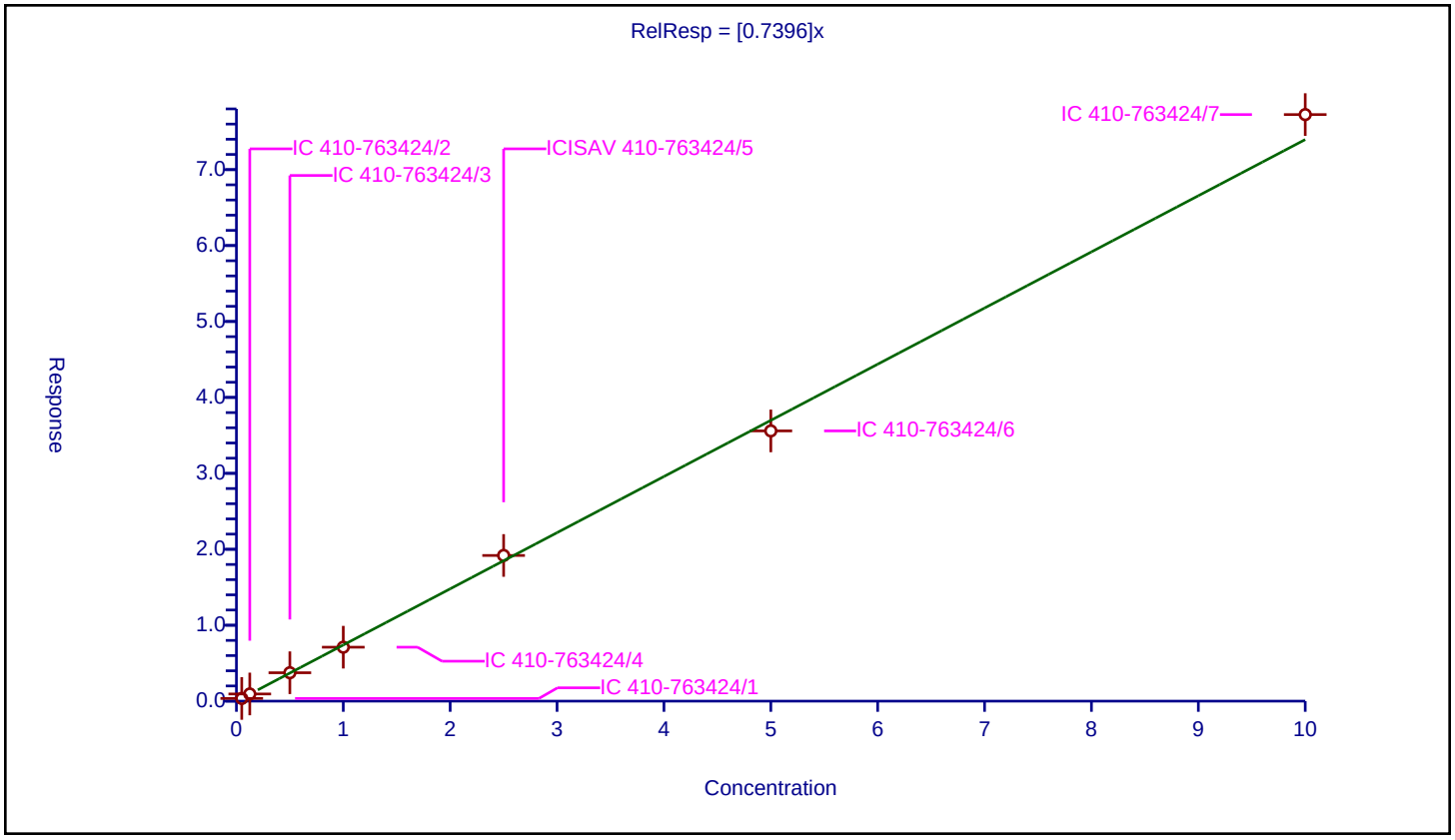
Curve Coefficients

Intercept:	0
Slope:	0.7396

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.035517	2.0	3656251.0	0.710334	Y
2	IC 410-763424/2	0.125	0.09454	2.0	3690148.0	0.756323	Y
3	IC 410-763424/3	0.5	0.374127	2.0	3740043.0	0.748253	Y
4	IC 410-763424/4	1.0	0.710502	2.0	4087266.0	0.710502	Y
5	ICISAV 410-763424/5	2.5	1.918397	2.0	3682140.0	0.767359	Y
6	IC 410-763424/6	5.0	3.559242	2.0	3699965.0	0.711848	Y
7	IC 410-763424/7	10.0	7.724791	2.0	3408605.0	0.772479	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

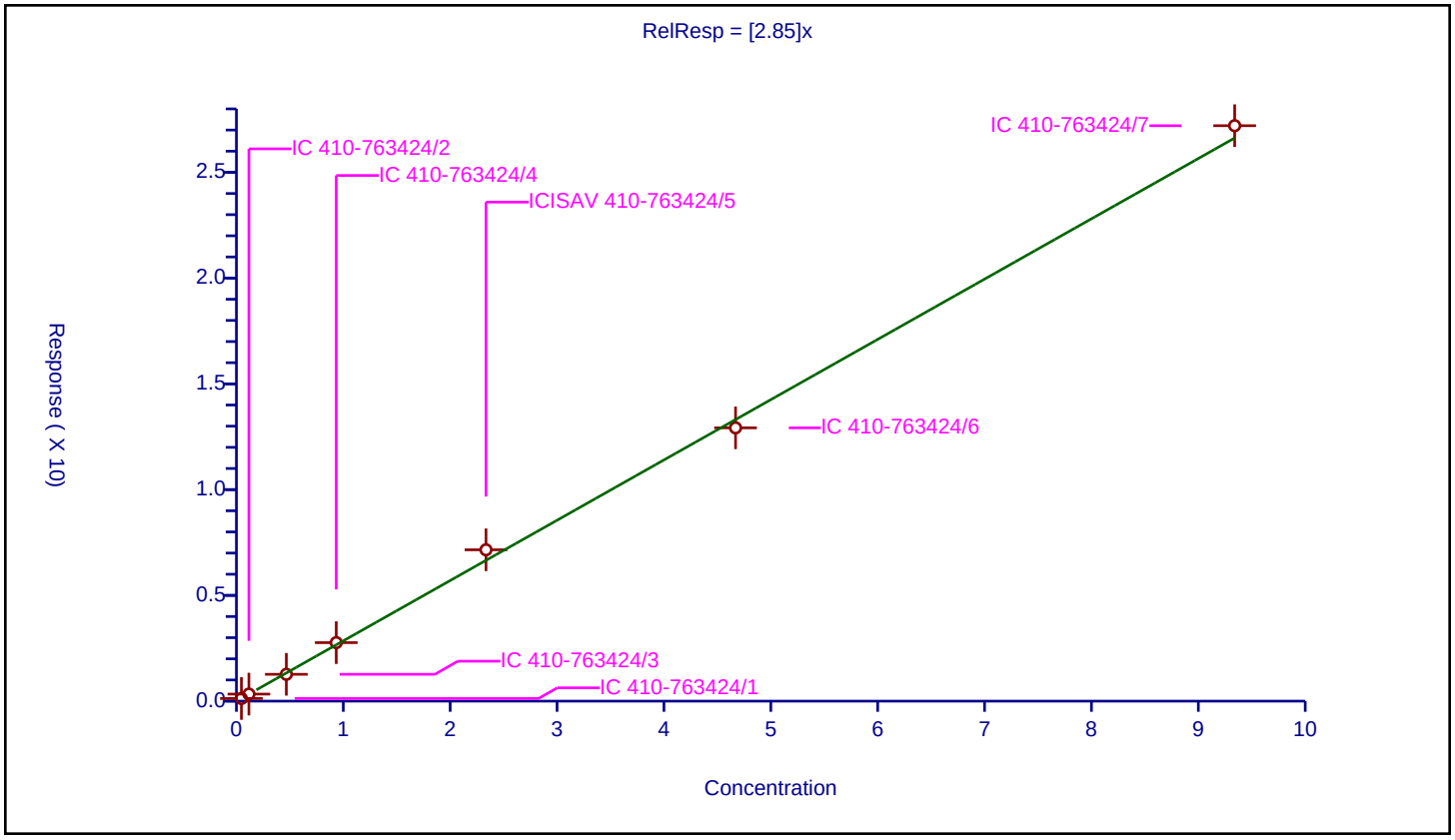
Curve Coefficients

Intercept:	0
Slope:	2.85

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0467	0.124902	1.916	1600975.0	2.674565	Y
2	IC 410-763424/2	0.11675	0.333447	1.916	1492693.0	2.856081	Y
3	IC 410-763424/3	0.467	1.269245	1.916	1615489.0	2.71787	Y
4	IC 410-763424/4	0.934	2.765482	1.916	1545005.0	2.960902	Y
5	ICISAV 410-763424/5	2.335	7.154817	1.916	1466647.0	3.064161	Y
6	IC 410-763424/6	4.67	12.921044	1.916	1535223.0	2.766819	Y
7	IC 410-763424/7	9.34	27.204914	1.916	1412203.0	2.912732	Y



Calibration / Perfluorononanesulfonic acid

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

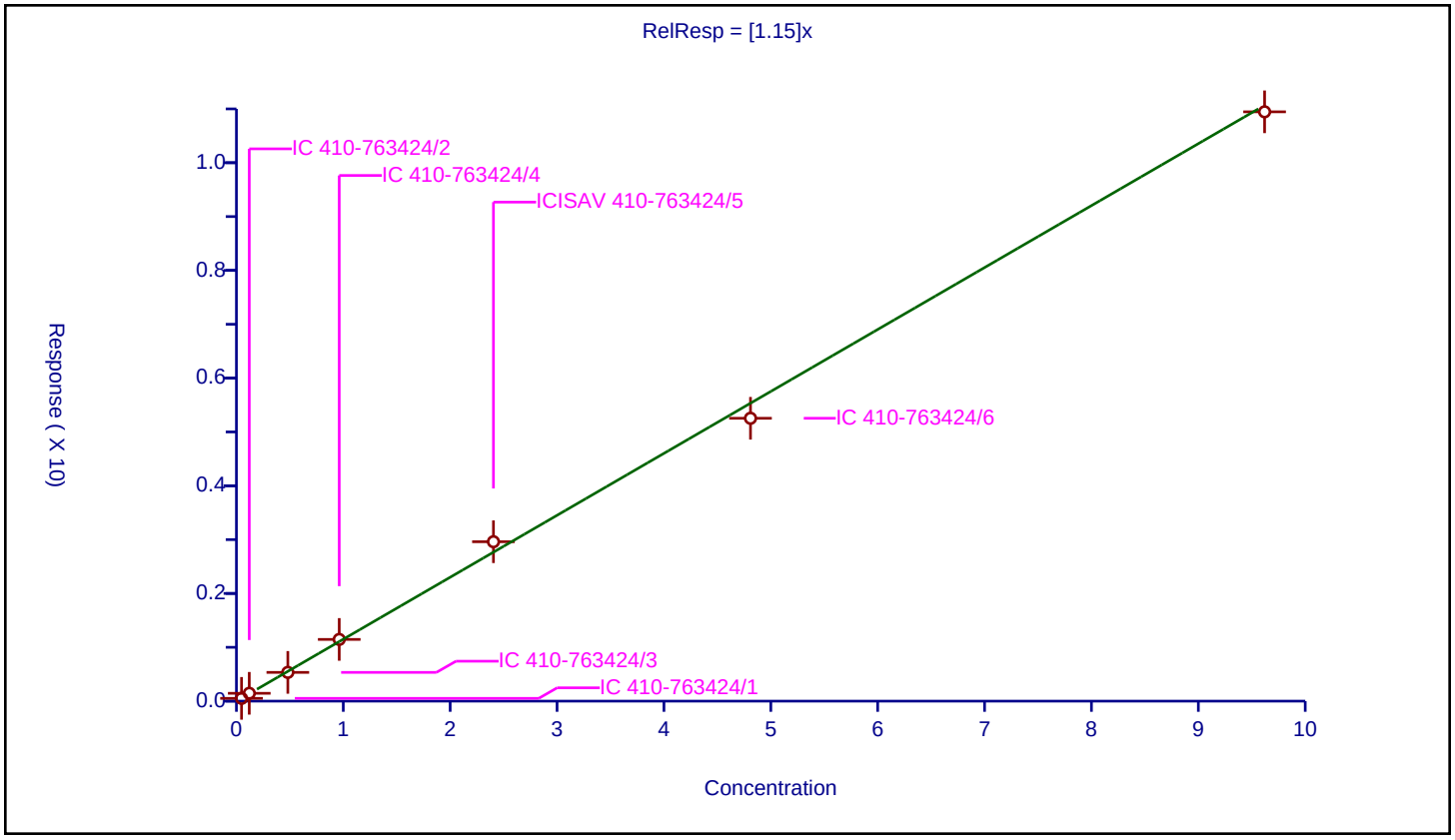
Curve Coefficients

Intercept:	0
Slope:	1.15

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0481	0.05189	1.916	1600975.0	1.078786	Y
2	IC 410-763424/2	0.12025	0.145717	1.916	1492693.0	1.21178	Y
3	IC 410-763424/3	0.481	0.533822	1.916	1615489.0	1.109818	Y
4	IC 410-763424/4	0.962	1.14629	1.916	1545005.0	1.19157	Y
5	ICISAV 410-763424/5	2.405	2.96075	1.916	1466647.0	1.231081	Y
6	IC 410-763424/6	4.81	5.254	1.916	1535223.0	1.092308	Y
7	IC 410-763424/7	9.62	10.9456	1.916	1412203.0	1.137796	Y



Calibration / Perfluorododecanoic acid

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

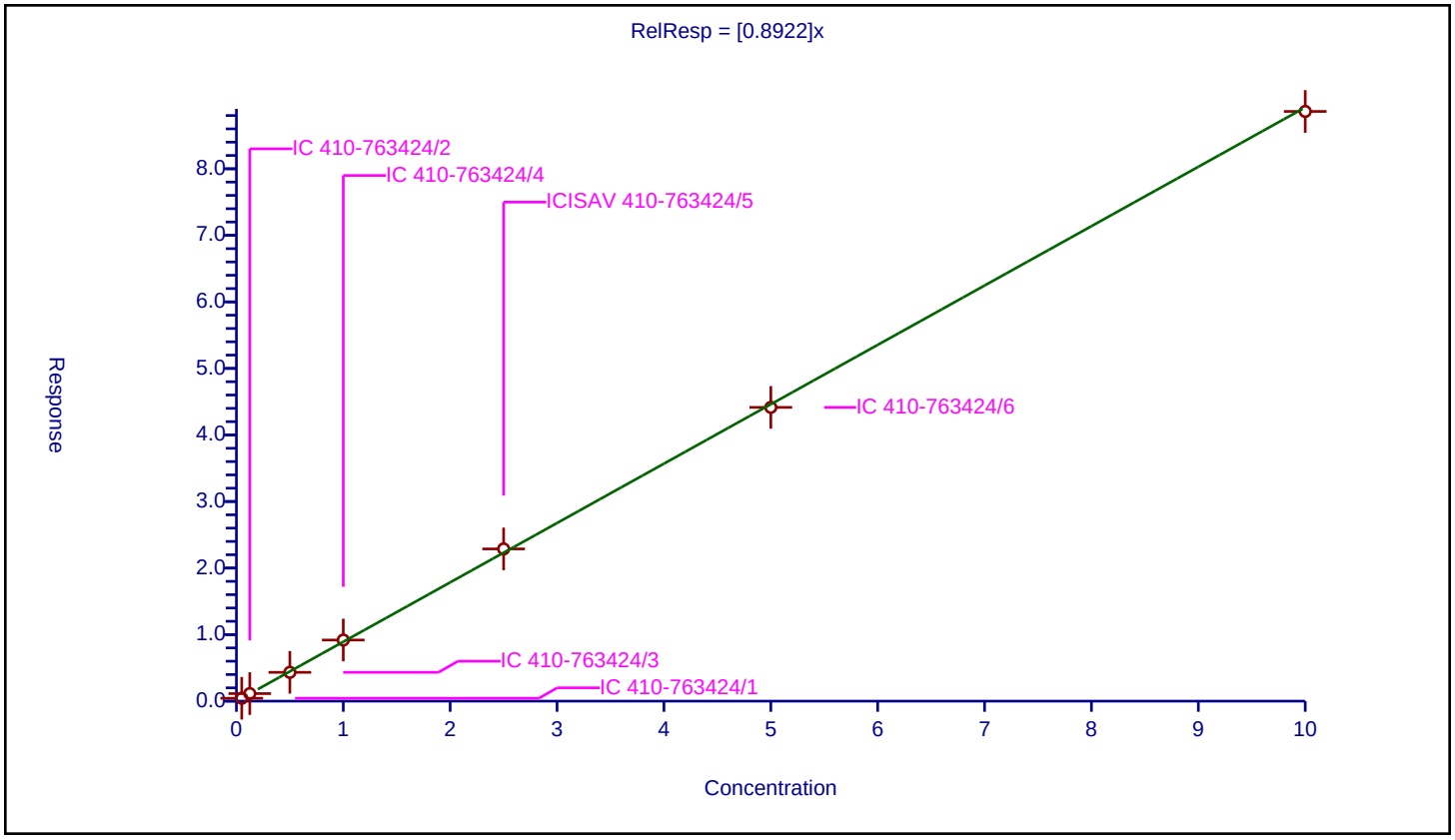
Curve Coefficients

Intercept:	0
Slope:	0.8922

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.04357	2.0	3173999.0	0.871405	Y
2	IC 410-763424/2	0.125	0.113308	2.0	3178687.0	0.906467	Y
3	IC 410-763424/3	0.5	0.432681	2.0	3333331.0	0.865361	Y
4	IC 410-763424/4	1.0	0.91828	2.0	3438660.0	0.91828	Y
5	ICISAV 410-763424/5	2.5	2.287434	2.0	3371420.0	0.914974	Y
6	IC 410-763424/6	5.0	4.414519	2.0	3233567.0	0.882904	Y
7	IC 410-763424/7	10.0	8.861412	2.0	3274670.0	0.886141	Y



Calibration / Perfluorooctanesulfonamide

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

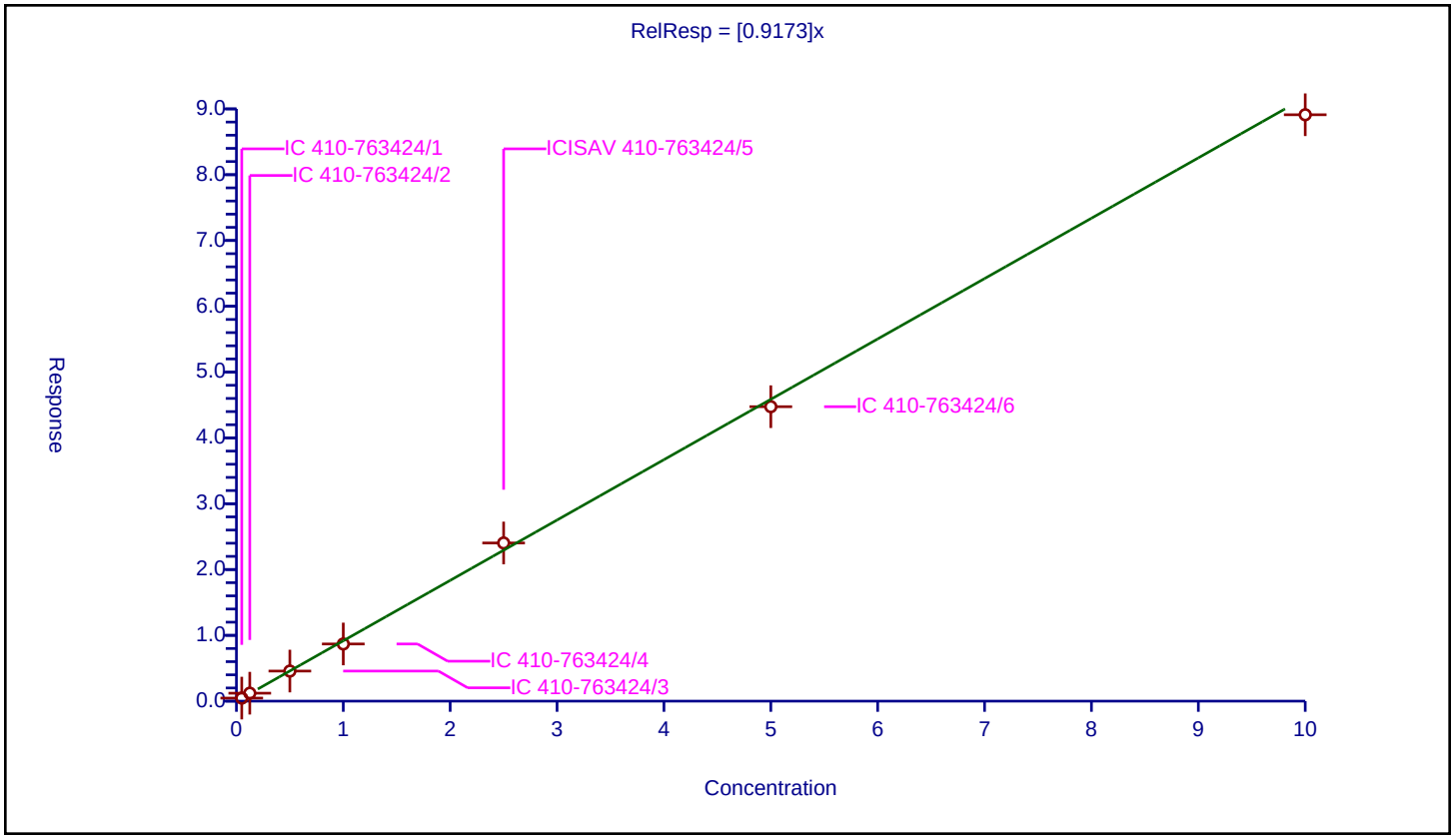
Curve Coefficients

Intercept:	0
Slope:	0.9173

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.04619	2.0	1938264.0	0.923796	Y
2	IC 410-763424/2	0.125	0.120907	2.0	1966070.0	0.967258	Y
3	IC 410-763424/3	0.5	0.456961	2.0	1903054.0	0.913923	Y
4	IC 410-763424/4	1.0	0.868871	2.0	2073462.0	0.868871	Y
5	ICISAV 410-763424/5	2.5	2.403349	2.0	1914006.0	0.96134	Y
6	IC 410-763424/6	5.0	4.474663	2.0	1957375.0	0.894933	Y
7	IC 410-763424/7	10.0	8.911017	2.0	1975083.0	0.891102	Y



Calibration / Perfluorodecanesulfonic acid

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

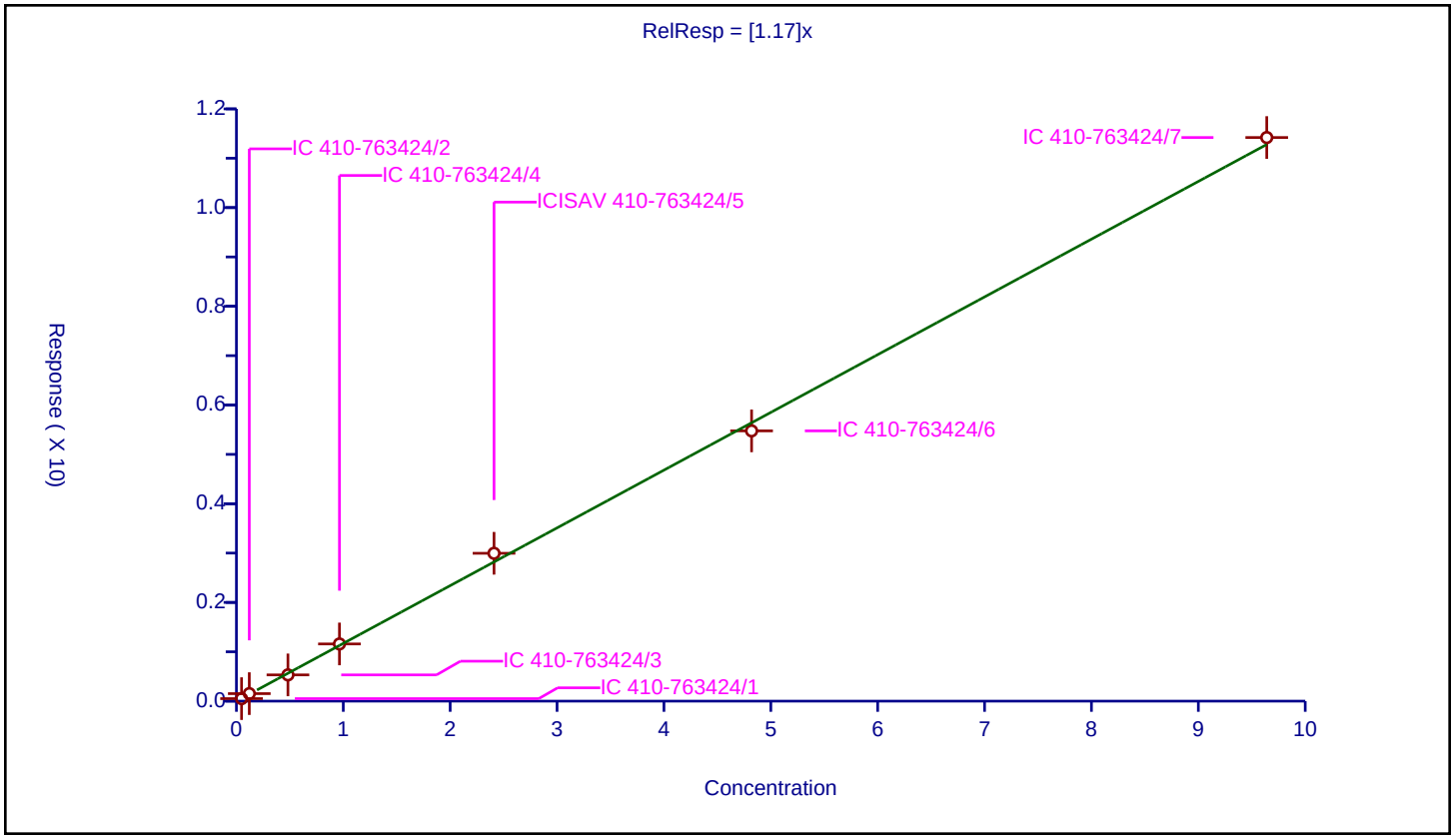
Curve Coefficients

Intercept:	0
Slope:	1.17

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0482	0.050814	1.916	1600975.0	1.054226	Y
2	IC 410-763424/2	0.1205	0.152607	1.916	1492693.0	1.266447	Y
3	IC 410-763424/3	0.482	0.531764	1.916	1615489.0	1.103246	Y
4	IC 410-763424/4	0.964	1.15903	1.916	1545005.0	1.202313	Y
5	ICISAV 410-763424/5	2.41	2.995775	1.916	1466647.0	1.24306	Y
6	IC 410-763424/6	4.82	5.476111	1.916	1535223.0	1.136123	Y
7	IC 410-763424/7	9.64	11.419598	1.916	1412203.0	1.184606	Y



Calibration / Perfluorotridecanoic acid

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

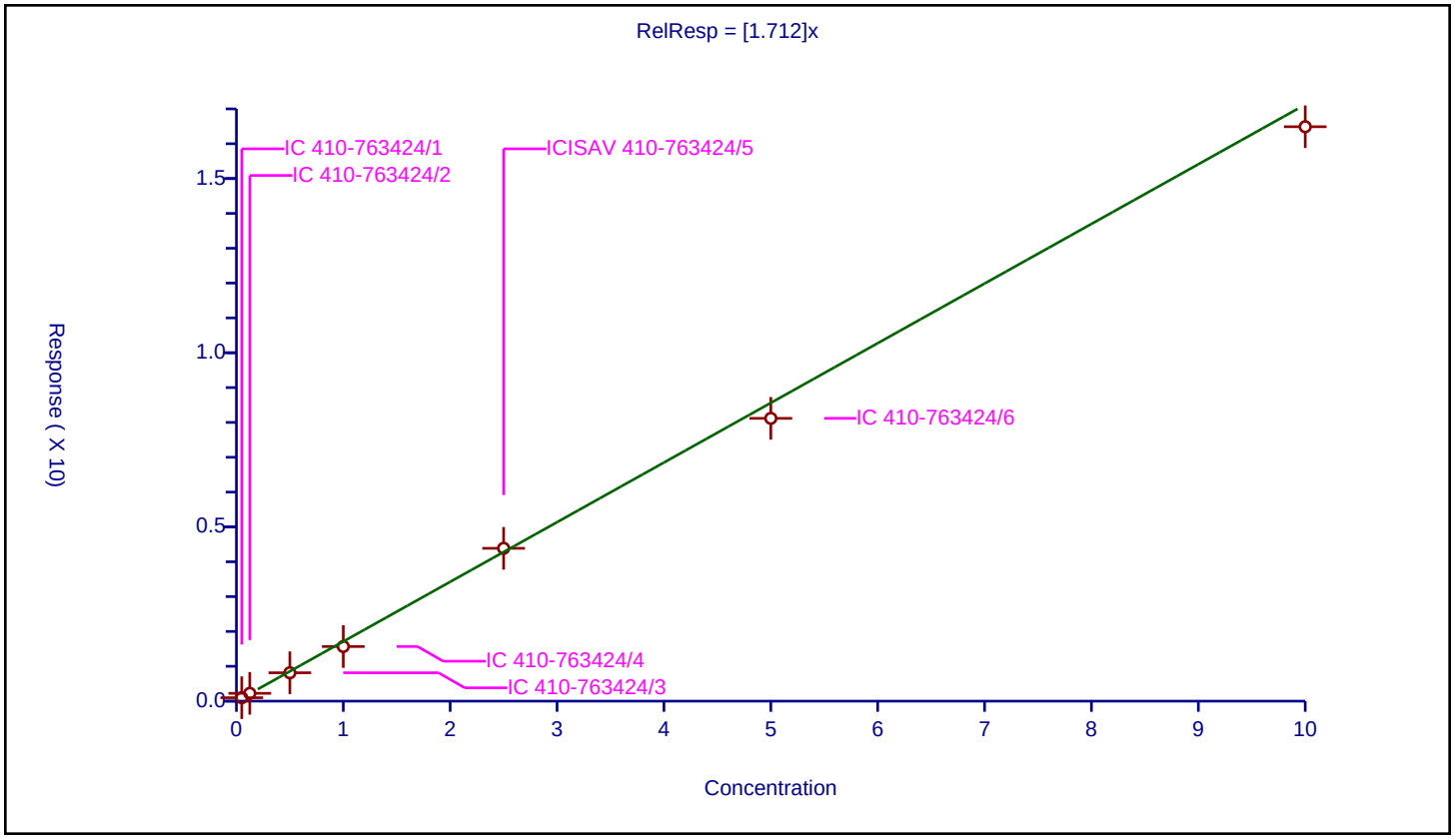
Curve Coefficients

Intercept:	0
Slope:	1.712

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.098331	2.0	1593746.0	1.966612	Y
2	IC 410-763424/2	0.125	0.22442	2.0	1715367.0	1.795357	Y
3	IC 410-763424/3	0.5	0.814626	2.0	1879696.0	1.629253	Y
4	IC 410-763424/4	1.0	1.567682	2.0	2016701.0	1.567682	Y
5	ICISAV 410-763424/5	2.5	4.387397	2.0	1886419.0	1.754959	Y
6	IC 410-763424/6	5.0	8.117055	2.0	1799704.0	1.623411	Y
7	IC 410-763424/7	10.0	16.487972	2.0	1809567.0	1.648797	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

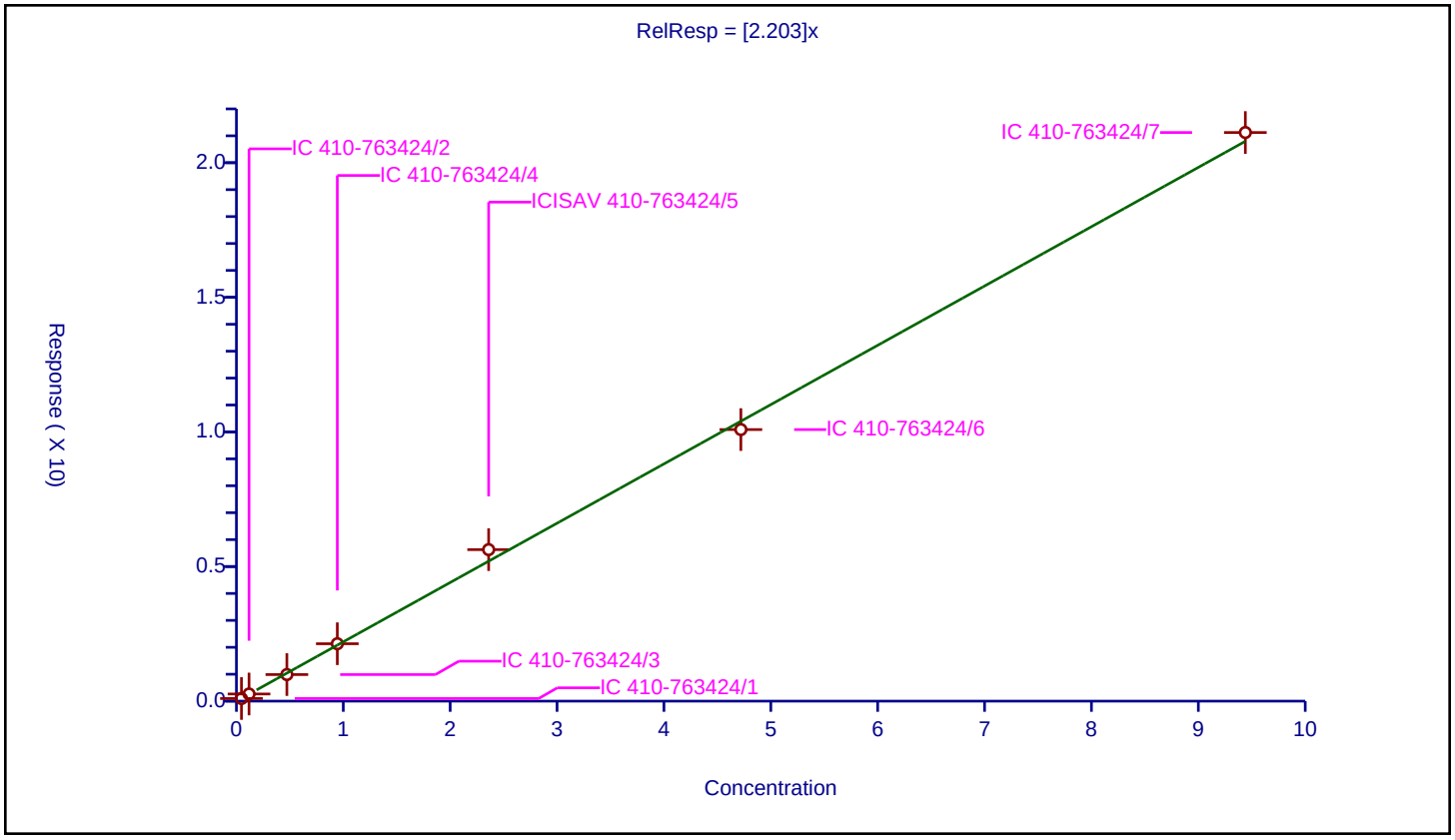
Curve Coefficients

Intercept:	0
Slope:	2.203

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0472	0.097405	1.916	1600975.0	2.063669	Y
2	IC 410-763424/2	0.118	0.265243	1.916	1492693.0	2.24782	Y
3	IC 410-763424/3	0.472	0.987075	1.916	1615489.0	2.09126	Y
4	IC 410-763424/4	0.944	2.1325	1.916	1545005.0	2.259004	Y
5	ICISAV 410-763424/5	2.36	5.627562	1.916	1466647.0	2.38456	Y
6	IC 410-763424/6	4.72	10.087917	1.916	1535223.0	2.137271	Y
7	IC 410-763424/7	9.44	21.122475	1.916	1412203.0	2.23755	Y



Calibration / Perfluorotetradecanoic acid

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

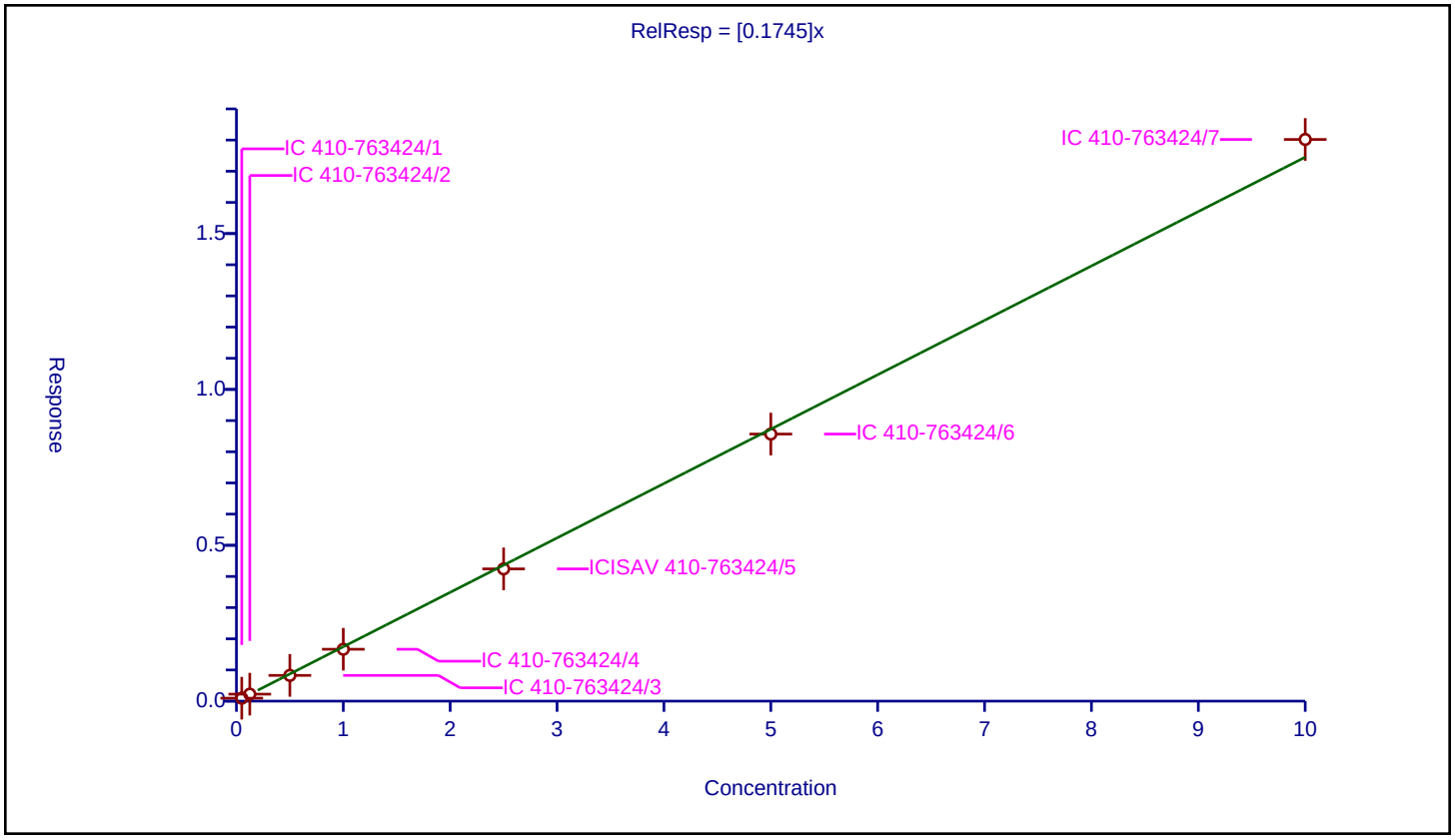
Curve Coefficients

Intercept:	0
Slope:	0.1745

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.009477	2.0	1593746.0	0.189541	Y
2	IC 410-763424/2	0.125	0.022392	2.0	1715367.0	0.179134	Y
3	IC 410-763424/3	0.5	0.082603	2.0	1879696.0	0.165205	Y
4	IC 410-763424/4	1.0	0.16645	2.0	2016701.0	0.16645	Y
5	ICISAV 410-763424/5	2.5	0.42426	2.0	1886419.0	0.169704	Y
6	IC 410-763424/6	5.0	0.856805	2.0	1799704.0	0.171361	Y
7	IC 410-763424/7	10.0	1.801927	2.0	1809567.0	0.180193	Y



Calibration / Perfluorododecanesulfonic acid (PFDoS)

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

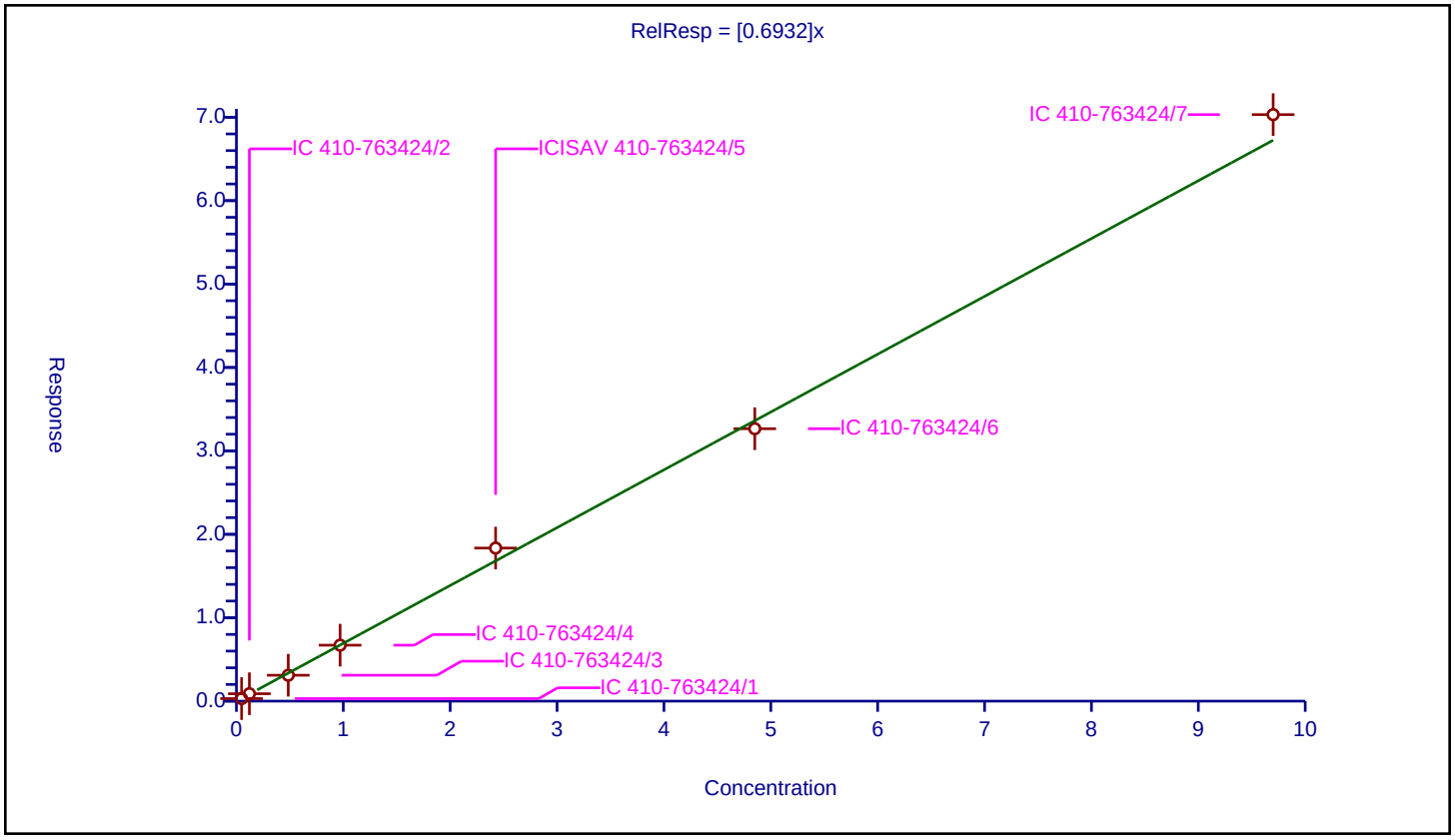
Curve Coefficients

Intercept:	0
Slope:	0.6932

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.0485	0.030613	1.916	1600975.0	0.631204	Y
2	IC 410-763424/2	0.12125	0.089046	1.916	1492693.0	0.734402	Y
3	IC 410-763424/3	0.485	0.310638	1.916	1615489.0	0.640492	Y
4	IC 410-763424/4	0.97	0.670626	1.916	1545005.0	0.691367	Y
5	ICISAV 410-763424/5	2.425	1.835243	1.916	1466647.0	0.756801	Y
6	IC 410-763424/6	4.85	3.265808	1.916	1535223.0	0.673362	Y
7	IC 410-763424/7	9.7	7.031499	1.916	1412203.0	0.724897	Y



Calibration / 2-(N-methylperfluoro-1-octanesulfonamido) ethanol

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

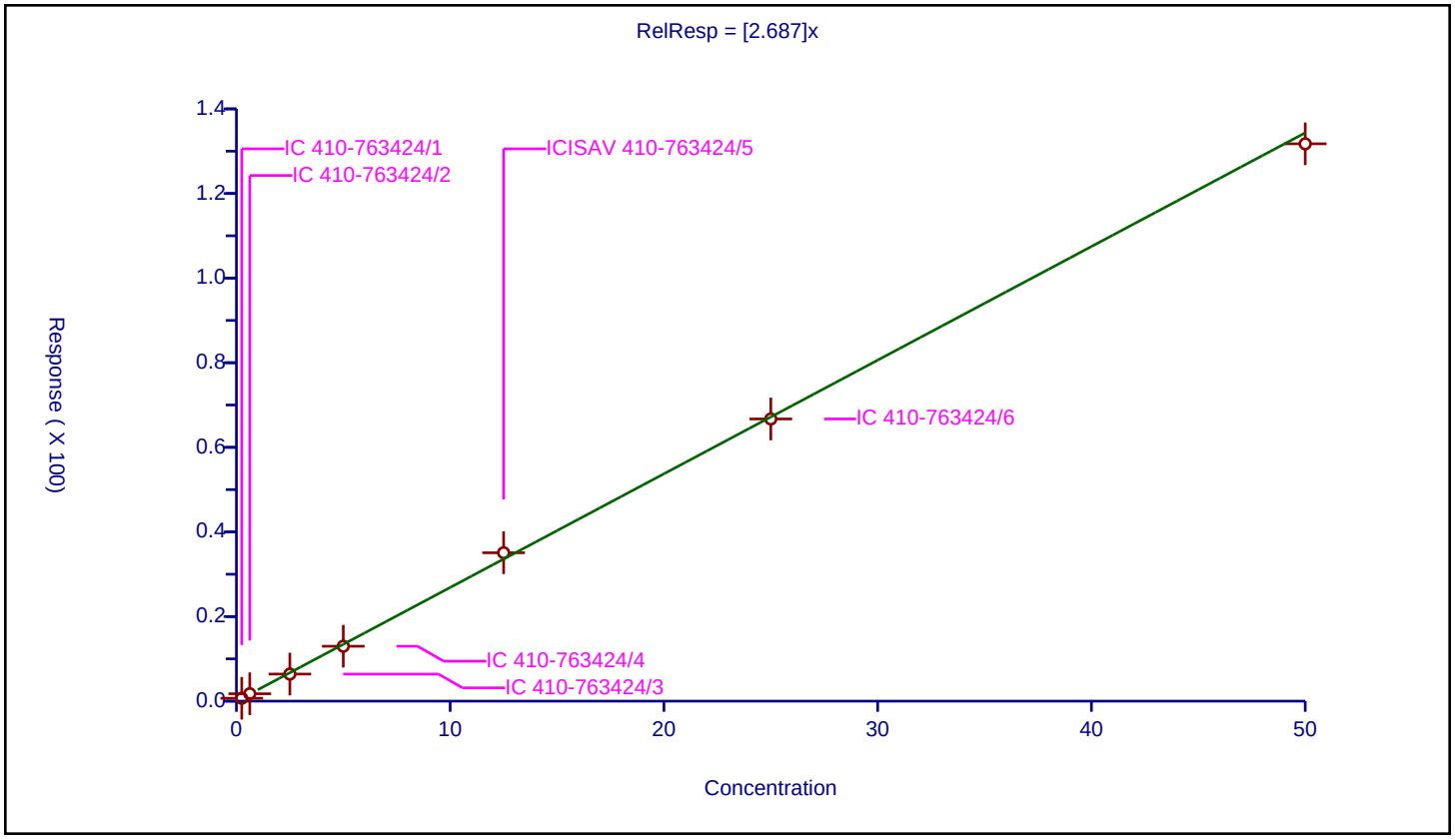
Curve Coefficients

Intercept:	0
Slope:	2.687

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.25	0.686143	5.0	713313.0	2.744574	Y
2	IC 410-763424/2	0.625	1.749045	5.0	689602.0	2.798472	Y
3	IC 410-763424/3	2.5	6.399458	5.0	701793.0	2.559783	Y
4	IC 410-763424/4	5.0	12.978731	5.0	754892.0	2.595746	Y
5	ICISAV 410-763424/5	12.5	35.076891	5.0	711008.0	2.806151	Y
6	IC 410-763424/6	25.0	66.700014	5.0	709006.0	2.668001	Y
7	IC 410-763424/7	50.0	131.748929	5.0	747186.0	2.634979	Y



Calibration / NMeFOSA

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

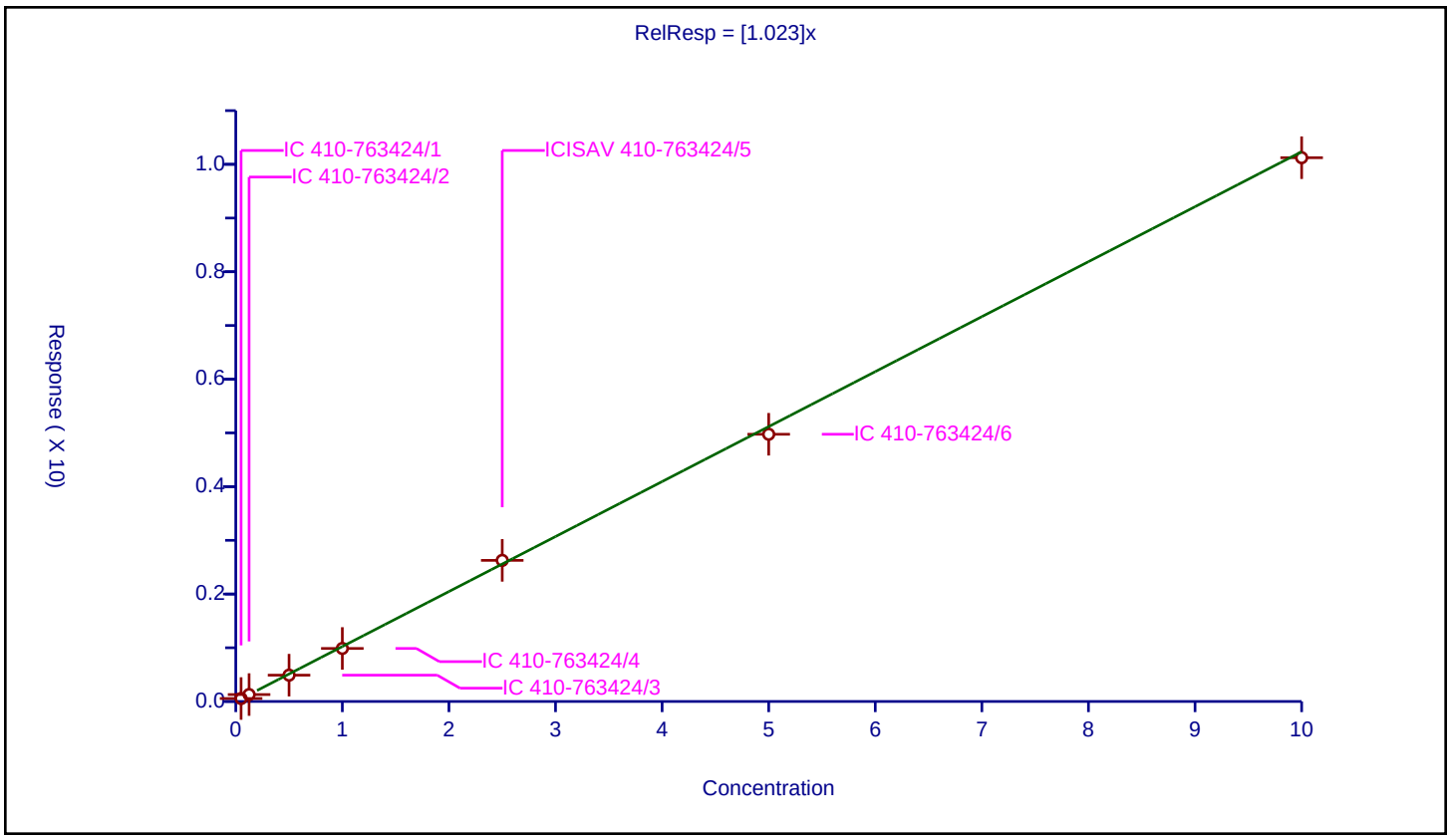
Curve Coefficients

Intercept:	0
Slope:	1.023

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.055381	2.0	436399.0	1.10761	Y
2	IC 410-763424/2	0.125	0.128877	2.0	458904.0	1.031013	Y
3	IC 410-763424/3	0.5	0.490188	2.0	445062.0	0.980376	Y
4	IC 410-763424/4	1.0	0.98702	2.0	467729.0	0.98702	Y
5	ICISAV 410-763424/5	2.5	2.626925	2.0	434116.0	1.05077	Y
6	IC 410-763424/6	5.0	4.974776	2.0	441724.0	0.994955	Y
7	IC 410-763424/7	10.0	10.123652	2.0	438166.0	1.012365	Y



Calibration / 2-(N-ethylperfluoro-1-octanesulfonamido) ethanol

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

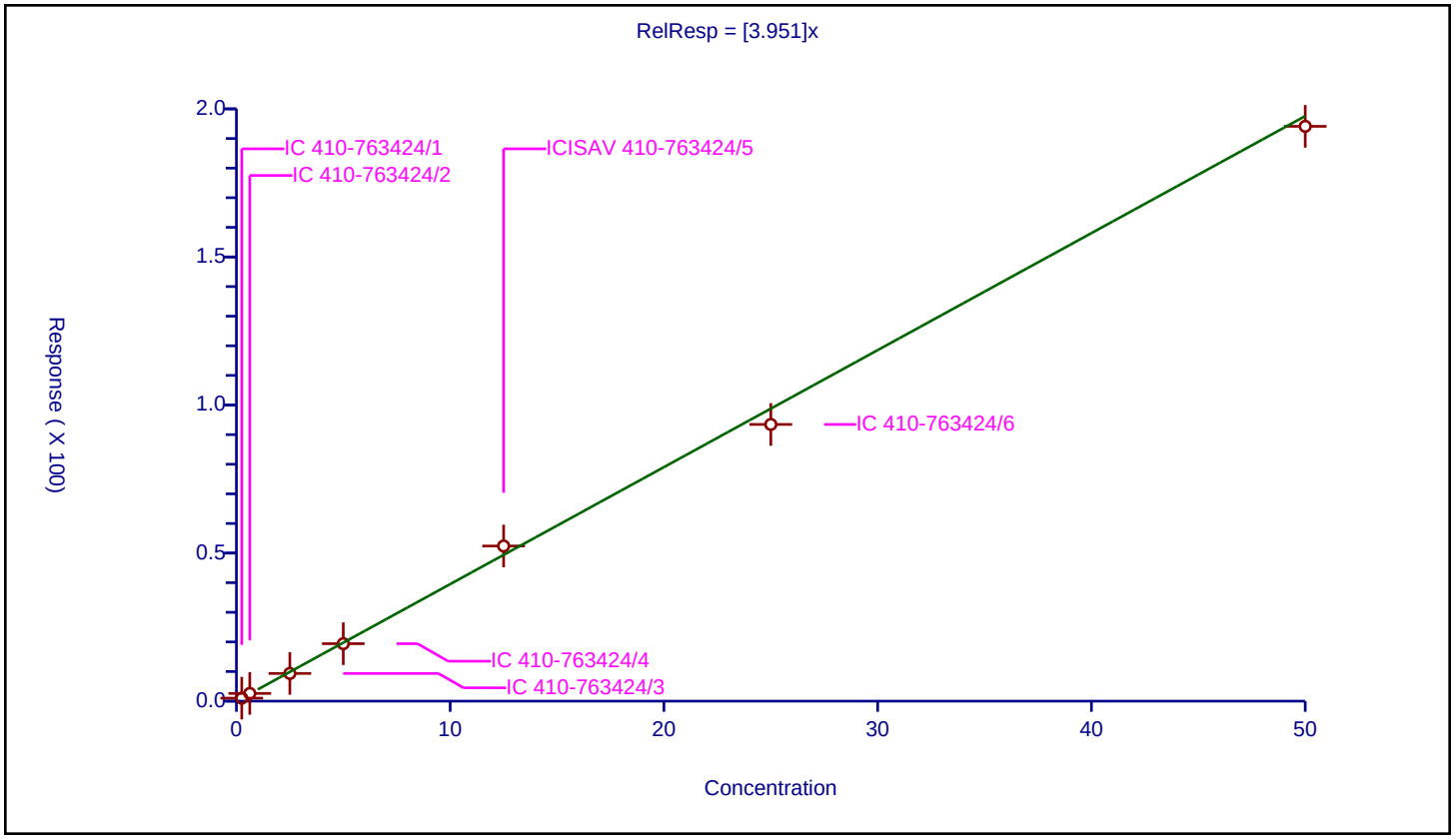
Curve Coefficients

Intercept:	0
Slope:	3.951

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.25	1.015343	5.0	704442.0	4.061371	Y
2	IC 410-763424/2	0.625	2.60291	5.0	704379.0	4.164656	Y
3	IC 410-763424/3	2.5	9.352211	5.0	743622.0	3.740884	Y
4	IC 410-763424/4	5.0	19.402935	5.0	768669.0	3.880587	Y
5	ICISAV 410-763424/5	12.5	52.389609	5.0	708731.0	4.191169	Y
6	IC 410-763424/6	25.0	93.445054	5.0	758528.0	3.737802	Y
7	IC 410-763424/7	50.0	194.105672	5.0	727574.0	3.882113	Y



Calibration / N-ethylperfluoro-1-octanesulfonamide

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

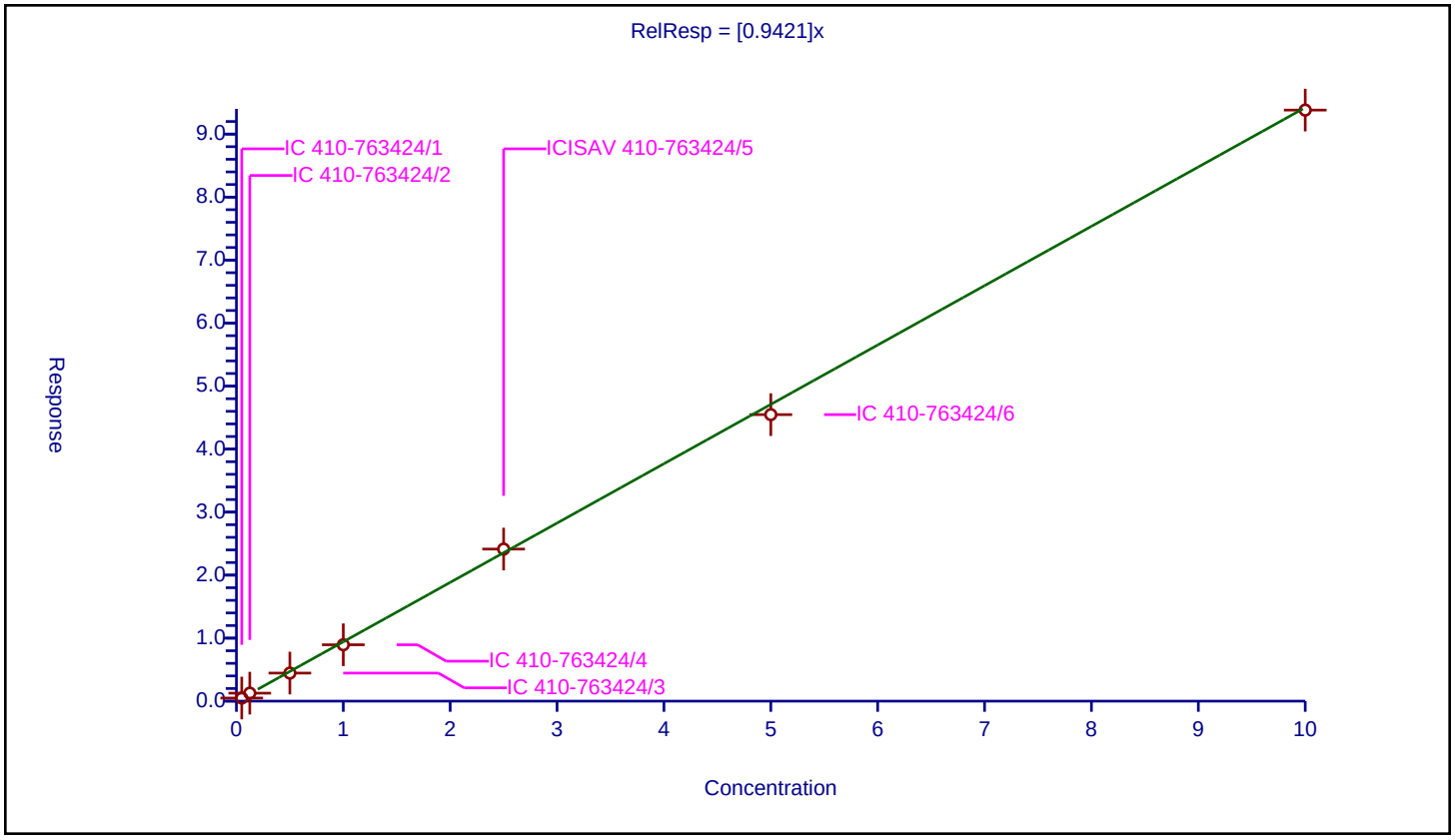
Curve Coefficients

Intercept:	0
Slope:	0.9421

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.049132	2.0	542907.0	0.982636	Y
2	IC 410-763424/2	0.125	0.126712	2.0	535183.0	1.013694	Y
3	IC 410-763424/3	0.5	0.445242	2.0	549760.0	0.890483	Y
4	IC 410-763424/4	1.0	0.894685	2.0	572941.0	0.894685	Y
5	ICISAV 410-763424/5	2.5	2.413352	2.0	531619.0	0.965341	Y
6	IC 410-763424/6	5.0	4.547418	2.0	543957.0	0.909484	Y
7	IC 410-763424/7	10.0	9.381158	2.0	533251.0	0.938116	Y



Calibration / Perfluorooctadecanoic acid

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

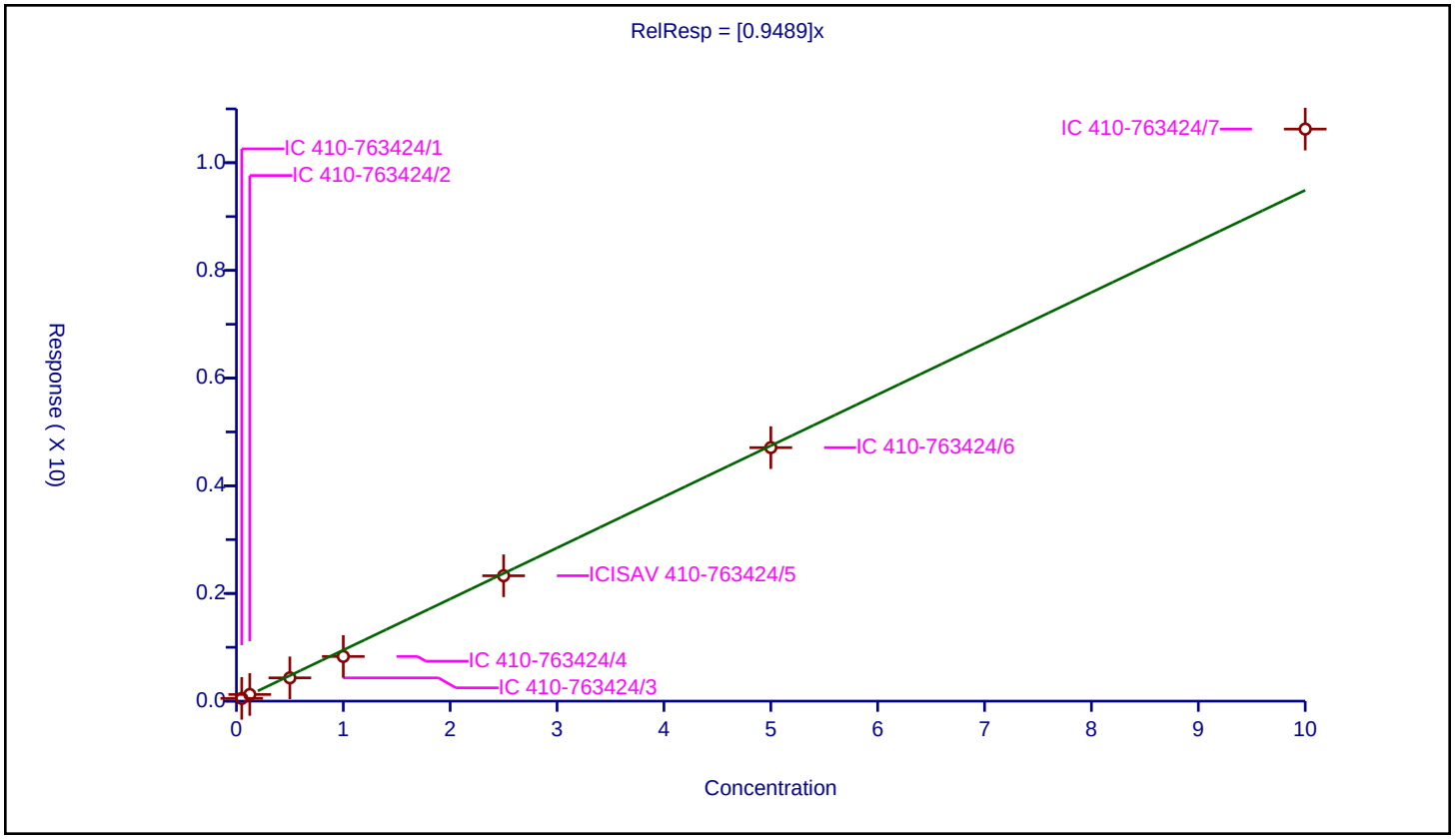
Curve Coefficients

Intercept:	0
Slope:	0.9489

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-763424/1	0.05	0.050948	2.0	1593746.0	1.018958	Y
2	IC 410-763424/2	0.125	0.123989	2.0	1715367.0	0.991909	Y
3	IC 410-763424/3	0.5	0.432827	2.0	1879696.0	0.865655	Y
4	IC 410-763424/4	1.0	0.830064	2.0	2016701.0	0.830064	Y
5	ICISAV 410-763424/5	2.5	2.328717	2.0	1886419.0	0.931487	Y
6	IC 410-763424/6	5.0	4.708701	2.0	1799704.0	0.94174	Y
7	IC 410-763424/7	10.0	10.62514	2.0	1809567.0	1.062514	Y



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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-761807/1	26JAN28CAL-01.d
Level 2	IC 410-761807/2	26JAN28CAL-02.d
Level 3	IC 410-761807/3	26JAN28CAL-03.d
Level 4	IC 410-761807/4	26JAN28CAL-04.d
Level 5	ICISAV 410-761807/5	26JAN28CAL-05.d
Level 6	IC 410-761807/6	26JAN28CAL-06.d
Level 7	IC 410-761807/7	26JAN28CAL-07.d
Level 8	IC 410-761807/8	26JAN28CAL-08.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluoropropionic acid (PFPrA)	0.9378 0.9063	0.9258 0.9156	0.8756	0.8864	0.9518	AveID		0.9142				3.0		20.0			
Perfluorobutanoic acid (PFBA)	0.9008 0.9150	0.9512 0.9083	0.8938 0.9029	0.8916	0.9514	AveID		0.9144				2.6		20.0			
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.6845 1.6163	1.7135 1.6865	1.6220	1.6023	1.7594	AveID		1.6692				3.5		20.0			
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.0930 0.0862	0.0982 0.0914	0.0893	0.0853	0.0916	AveID		0.0907				4.8		20.0			
Perfluoropentanoic acid (PFPeA)	1.9814 1.8757	1.7880 1.8857	1.7779 1.8101	1.8775	1.8704	AveID		1.8583				3.5		20.0			
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.0911 2.1065	2.2382 2.1611	2.0727	2.1243	2.0727	AveID		2.1238				2.8		20.0			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.8359 1.5991	1.6396 1.6561	1.7104	1.5536	1.6545	AveID		1.6642				5.4		20.0			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.3096 0.3404	0.3814 0.3476	0.3300	0.3548	0.3931	AveID		0.3510				8.2		20.0			
Perfluorohexanoic acid (PFHxA)	1.0527 0.8135	0.8818 0.8339	0.7905 0.7943	0.8528	0.8860	AveID		0.8632				9.8		20.0			
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.1084 0.1108	0.1137 0.1210	0.0968	0.1127	0.1173	AveID		0.1115				6.9		20.0			
Perfluorobutanesulfonamide (FBSA)	1.0734 1.0516	1.0088 1.1008	1.0687	1.0485	1.0257	AveID		1.0539				2.9		20.0			
Perfluorobutanesulfonic acid (PFBS)	1.1080 1.0667	1.0976 1.0350	0.9360 1.0392	1.0678	1.0744	AveID		1.0531				5.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.0124 0.9895	0.9882 1.0414	1.0022 0.9622	0.9800	0.9929	AveID		0.9961				2.4		20.0			
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.8384 2.6357	2.5216 2.5340	2.4335	2.5945	2.8638	AveID		2.6317				6.2		20.0			
Perfluoroheptanoic acid (PFHpA)	0.7027 0.8613	0.8057 0.8920	0.8563 0.8897	0.8602	0.8601	AveID		0.8410				7.3		20.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.5307 2.2687	2.5455 2.4195	2.3833 2.1100	2.3762	2.4252	AveID		2.3824				5.9		20.0			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.5159 1.7406	1.8708 1.6689	1.4498	1.6236	1.7287	AveID		1.6569				8.6		20.0			
Perfluoropentanesulfonic acid (PFPeS)	1.1207 1.1034	1.1911 1.1060	1.0461 1.0450	1.0903	1.1981	AveID		1.1126				5.2		20.0			
Bis(trifluoromethane)sulfonamide (TFSI)	2.5958 2.5165	2.8012 2.6977	2.4742	2.3863	2.7243	AveID		2.5994				5.7		20.0			
Perfluorooctanoic acid (PFOA)	0.5771 0.6281	0.7188 0.6392	0.6172 0.6573	0.5941	0.6593	AveID		0.6364				6.9		20.0			
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.0534 0.0579	0.0595 0.0601	0.0531	0.0583	0.0598	AveID		0.0574				5.2		20.0			
Perfluorohexanesulfonic acid (PFHxS)	0.9627 0.8310	0.9167 0.8370	0.8144 0.8463	0.8035	0.8943	AveID		0.8632				6.4		20.0			
Perfluorononanoic acid (PFNA)	1.1464 0.9157	1.0553 0.9940	0.8613 0.8879	0.9348	0.9405	AveID		0.9670				9.8		20.0			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.2215 1.3320	1.4655 1.3802	1.2945	1.3243	1.3177	AveID		1.3337				5.6		20.0			
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.2553 0.3070	0.3565 0.2931	0.2960	0.2752	0.3231	AveID		0.3009				10.9		20.0			
Perfluorohexanesulfonamide (FHxSA)	1.2658 1.4124	1.3966 1.4123	1.3459	1.3526	1.5159	AveID		1.3859				5.6		20.0			
Perfluoroheptanesulfonic acid (PFHpS)	1.4946 1.2643	1.1835 1.1436	1.1899 1.2529	1.2668	1.3230	AveID		1.2648				8.6		20.0			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.1545 1.0620	1.3843 1.0688	1.0942	1.0261	1.3120	AveID		1.1574				11.9		20.0			
Perfluorodecanoic acid (PFDA)	0.6882 0.6613	0.6396 0.6144	0.5699	0.6625	0.6604	AveID		0.6423				6.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.7479 0.8048	0.7709 0.7887	0.8540	0.7633	0.8537	AveID		0.7976				5.3		20.0			
Perfluorooctanesulfonic acid (PFOS)	1.5977 1.3443	1.3703 1.4432	1.3016 1.4080	1.4254	1.4278	AveID		1.4148				6.2		20.0			
Perfluoroundecanoic acid (PFUnA)	0.4632 0.4603	0.4676 0.4781	0.4419	0.4738	0.4671	AveID		0.4646				2.5		20.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.8880 2.6962	2.6356 2.7269	2.6318	2.8537	3.0009	AveID		2.7762				5.1		20.0			
Perfluorononanesulfonic acid (PFNS)	1.0820 1.0324	1.1273 1.0530	1.0276	1.1557	1.1376	AveID		1.0879				4.8		20.0			
Perfluorododecanoic acid (PFDoA)	0.7233 0.6580	0.6667 0.7067	0.6944	0.7326	0.7010	AveID		0.6975				3.9		20.0			
Perfluorooctanesulfonamide (PFOSA)	1.1005 1.0093	1.0520 1.0383	0.9801	1.0498	1.0886	AveID		1.0455				4.0		20.0			
Perfluorodecanesulfonic acid (PFDS)	1.2041 1.1087	1.1290 1.1159	1.0950	1.2137	1.2067	AveID		1.1533				4.5		20.0			
Perfluorotridecanoic acid (PFTrDA)	0.9008 0.8889	0.9770 0.9162	0.8472	0.9276	0.8463	AveID		0.9006				5.1		20.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.5519 1.5585	1.5130 1.5441	1.3975	1.5428	1.5609	AveID		1.5241				3.8		20.0			
Perfluorotetradecanoic acid (PFTeDA)	0.1498 0.1458	0.1619 0.1520	0.1379	0.1380	0.1559	AveID		0.1487				6.0		20.0			
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.9881 1.7906	1.9911 1.9528	1.8004	1.8867	1.9780	AveID		1.9125				4.6		20.0			
Perfluorododecanesulfonic acid (PFDoS)	1.1696 1.0076	1.0549 1.0753	0.9566	1.0609	1.1226	AveID		1.0639				6.6		20.0			
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.9995 1.0076	1.0203 0.9552	0.9874	1.0211	0.9772	AveID		0.9955				2.4		20.0			
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0733 2.1242	2.2251 2.0932	2.0111	2.1189	2.1211	AveID		2.1095				3.1		20.0			
N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.0066 0.9736	0.9914 0.9535	0.9754	0.9400	1.0254	AveID		0.9808				3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluoro-n-octadecanoic acid (PFODA)	0.1625 1.1363	0.3771 0.9942	0.7748	0.2927	0.4927	AveID		0.6043				61.2	*	20.0			
13C3-PFPrA	0.8644 0.8620	0.8754 0.8604	0.8712 +++++	0.8918	0.8367	Ave		0.8660				1.9		20.0			
13C4 PFBA	1.0436 1.0357	1.0411 1.0514	1.0545 1.0432	1.0756	1.0186	Ave		1.0455				1.6		20.0			
13C5 PFPeA	0.5733 0.5700	0.5968 0.5739	0.5968 0.5496	0.5894	0.6015	Ave		0.5814				3.0		20.0			
13C2 4:2 FTS	0.1501 0.1595	0.1479 0.1508	0.1488 +++++	0.1564	0.1543	Ave		0.1525				2.8		20.0			
13C5 PFHxA	1.0900 1.1385	1.1584 1.1308	1.2219 1.1336	1.1316	1.1364	Ave		1.1427				3.3		20.0			
13C3 PFBS	1.0867 1.1323	1.1560 1.1489	1.1393 1.0370	1.1090	1.1933	Ave		1.1253				4.2		20.0			
13C3 HFPO-DA	0.9094 1.0017	0.9694 0.9842	0.9767 1.0402	1.0049	1.0229	Ave		0.9887				4.0		20.0			
13C4 PFHpA	1.1199 1.1314	1.1165 1.0924	1.1500 1.0722	1.1691	1.1661	Ave		1.1272				3.0		20.0			
13C2 6:2 FTS	0.1312 0.1196	0.1307 0.1160	0.1250 +++++	0.1282	0.1284	Ave		0.1256				4.6		20.0			
13C8 PFOA	1.0379 1.0094	1.0264 1.0293	0.9889 0.9539	0.9951	0.9621	Ave		1.0004				3.1		20.0			
13C3 PFHxS	1.0150 1.0545	1.0497 1.0306	1.0112 1.0006	1.0368	1.0152	Ave		1.0267				1.9		20.0			
13C9 PFNA	0.9178 0.9044	0.9480 0.8568	0.9931 0.9621	0.9653	0.9454	Ave		0.9366				4.5		20.0			
13C2 8:2 FTS	0.1166 0.1215	0.1208 0.1139	0.1197 +++++	0.1192	0.1268	Ave		0.1198				3.4		20.0			
d3-NMeFOSAA	0.3167 0.3039	0.2882 0.3072	0.2863 +++++	0.3065	0.2741	Ave		0.2975				5.0		20.0			
13C6 PFDA	1.0525 0.8660	1.0596 1.0015	1.0512 1.0568	1.0065	0.9921	Ave		1.0108				6.4		20.0			
d5-NEtFOSAA	0.2533 0.2627	0.2461 0.2698	0.2506 +++++	0.2722	0.2457	Ave		0.2572				4.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
13C8 PFOS	0.9811 1.0356	1.0246 1.0149	1.0327 1.0059	1.0424	0.9849	Ave		1.0153				2.3		20.0			
13C7 PFUnA	0.9815 0.9723	1.0569 1.0574	1.0483 0.9997	1.0099	0.9381	Ave		1.0080				4.3		20.0			
13C2 PFDoA	0.7069 0.6588	0.7879 0.7363	0.6842 0.7011	0.7033	0.7042	Ave		0.7103				5.4		20.0			
13C8 FOSA	1.1053 1.1481	1.1077 1.2069	1.1472 +++++	1.1561	1.0954	Ave		1.1381				3.4		20.0			
13C2 PFTeDA	0.5969 0.5431	0.6359 0.6033	0.6069 0.5732	0.6188	0.5375	Ave		0.5894				6.0		20.0			
d7-N-MeFOSE-M	0.1749 0.1871	0.1727 0.1868	0.1807 +++++	0.1883	0.1660	Ave		0.1795				4.8		20.0			
d3-NMePFOSA	0.3174 0.3126	0.3004 0.3571	0.3146 +++++	0.3238	0.3241	Ave		0.3214				5.5		20.0			
d9-N-EtFOSE-M	0.2441 0.2339	0.2211 0.2556	0.2380 +++++	0.2422	0.2338	Ave		0.2384				4.5		20.0			
d5-NEtPFOSA	0.3733 0.3932	0.3661 0.4379	0.3828 +++++	0.4074	0.3778	Ave		0.3912				6.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-761807/1	26JAN28CAL-01.d
Level 2	IC 410-761807/2	26JAN28CAL-02.d
Level 3	IC 410-761807/3	26JAN28CAL-03.d
Level 4	IC 410-761807/4	26JAN28CAL-04.d
Level 5	ICISAV 410-761807/5	26JAN28CAL-05.d
Level 6	IC 410-761807/6	26JAN28CAL-06.d
Level 7	IC 410-761807/7	26JAN28CAL-07.d
Level 8	IC 410-761807/8	26JAN28CAL-08.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Perfluoropropionic acid (PFPrA)		AveID	140495 12856045	350671 25556471	1261775	2733448	6737057	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorobutanoic acid (PFBA)		AveID	65176 6237591	171398 12393063	623560 45866326	1326450	3278986	0.100 10.0	0.250 20.0	1.00 100	2.00	5.00
Perfluoro-3-methoxypropanoic acid (PFMPA)		AveID	38584 3485102	97339 7191074	356174	730671	1939827	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
3-Perfluoropropylpropanoic acid (3:3 FTCA)		AveID	4259 371628	11152 779124	39219	77751	201988	0.100 10.0	0.250 20.0	1.00	2.00	5.00
Perfluoropentanoic acid (PFPeA)		AveID	45384 4044528	101573 8040301	390402 32396165	856174	2062260	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
Perfluoro-4-methoxybutanoic acid (PFMBA)		AveID	47897 4542062	127143 9214597	455133	968683	2285253	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)		AveID	19877 1765425	43911 3460455	184955	358500	891876	0.0938 9.38	0.235 18.8	0.938	1.88	4.69
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		AveID	13485 1466073	42052 2920004	148391	310653	818756	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorohexanoic acid (PFHxA)		AveID	45847 3503664	97241 7005818	355424 29322257	746654	1845510	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
3-Perfluoropentylpropanoic acid (5:3 FTCA)		AveID	23603 2385719	62709 5083321	217689	493253	1221574	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorobutanesulfonamide (FBSA)		AveID	44863 4393722	112534 9338342	471596	914543	2279918	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	41122	108722	366777	827087	2120678	0.0444	0.111	0.444	0.888	2.22

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			3957457	7797016	29114425			4.44	8.88	44.4		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		AveID	27590 2812036	68390 5711241	270135 32591573	571423	1396180	0.0375 3.75	0.0938 7.50	0.375 50.0	0.750	1.88
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)		AveID	110265 10125699	248028 18989436	975973	2026265	5321100	0.0446 4.46	0.112 8.92	0.446	0.892	2.23
Perfluoroheptanoic acid (PFHpA)		AveID	31443 3685995	85635 7239080	362362 31064740	778022	1838370	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveID	86992 8132025	222208 16736614	810275 50707966	1747591	4301629	0.0473 4.73	0.118 9.46	0.473 35.5	0.946	2.37
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)		AveID	14567 1462539	44913 2721970	133620	311610	787301	0.0952 9.52	0.238 19.0	0.952	1.90	4.76
Perfluoropentanesulfonic acid (PFPeS)		AveID	41126 4035713	113417 7911790	385174 29903149	835777	2129877	0.0470 4.70	0.118 9.40	0.470 47.0	0.940	2.35
Bis(trifluoromethane)sulfonamide (TFSI)		AveID	99208 9586505	277790 20098936	948777	1905051	5043843	0.0490 4.90	0.122 9.79	0.490	0.979	2.45
Perfluorooctanoic acid (PFOA)		AveID	32469 3370023	94768 6807036	331416 29614661	655531	1667432	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
3-Perfluoroheptylpropanoic acid (7:3 FTCA)		AveID	11635 1247102	32784 2525788	119387	255240	622555	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorohexanesulfonic acid (PFHxS)		AveID	34275 2948995	84682 5809325	290908 23497972	597569	1542366	0.0456 4.56	0.114 9.12	0.456 45.6	0.912	2.28
Perfluorononanoic acid (PFNA)		AveID	48391 3897699	118861 7948584	390133 31906707	842769	1992028	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)		AveID	10515 1146474	32793 2229625	115234	238447	597508	0.0960 9.60	0.240 19.2	0.960	1.92	4.80
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)		AveID	9208 1103653	33370 2061080	107133	207362	564670	0.0462 4.62	0.116 9.24	0.462	0.924	2.31
Perfluorohexanesulfonamide (FHxSA)		AveID	49413 5495752	141466 10747544	527176	1103028	2866801	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluoroheptanesulfonic acid (PFHpS)		AveID	45047 3919738	95966 6628281	371692 28230149	779959	1988690	0.0477 4.77	0.119 9.54	0.477 47.7	0.954	2.39

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveID	11775 1012803	33094 1965286	99324	194705	575389	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorodecanoic acid (PFDA)		AveID	31241 2545626	69018 4970401	255874	566602	1406371	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveID	6101 663504	15738 1273717	67868	128660	335551	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveID	46941 4062838	108320 8154218	396353 30928049	855551	2092188	0.0465 4.65	0.116 9.30	0.465 46.5	0.930	2.33
Perfluoroundecanoic acid (PFUnA)		AveID	19610 1989618	50328 4083546	197821	406589	940584	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O		AveID	85218 8183857	209242 15473718	804883	1720237	4416251	0.0467 4.67	0.117 9.34	0.467	0.934	2.34
Perfluorononanesulfonic acid (PFNS)		AveID	32885 3227579	92178 6154213	323685	717530	1724378	0.0481 4.81	0.120 9.62	0.481	0.962	2.41
Perfluorododecanoic acid (PFDoA)		AveID	22053 1926802	53493 4203616	202916	437872	1059630	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorooctanesulfonamide (PFOSA)		AveID	39167 3636510	96676 7501341	356523	751489	1907791	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	36671 3473356	92511 6535380	345637	755142	1832933	0.0482 4.82	0.121 9.64	0.482	0.964	2.41
Perfluorotridecanoic acid (PFTrDA)		AveID	25329 2374681	70831 4957416	233566	521107	1127748	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF		AveID	46284 4781232	121401 8855899	431982	939968	2321637	0.0472 4.72	0.118 9.44	0.472	0.944	2.36
Perfluorotetradecanoic acid (PFTeDA)		AveID	3857 351891	10485 740659	35736	72558	179829	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)		AveID	56000 5256904	142612 10920131	515751	1099976	2627039	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorododecanesulfonic acid (PFDoS)		AveID	35843 3176451	86975 6336861	303825	664140	1715784	0.0485 4.85	0.121 9.70	0.485	0.970	2.43
N-methylperfluorooctane sulfonamide (NMeFOSA)		AveID	10215 988448	25427 2042166	98505	204686	506732	0.0500 5.00	0.125 10.0	0.500	1.00	2.50

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)		AveID	81488 7797744	204058 16011461	758815	1588405	3966743	0.250 25.0	0.625 50.0	2.50	5.00	12.5
N-ethylperfluorooctane sulfonamide (NEtFOSA)		AveID	12100 1201396	30107 2499351	118384	237097	619696	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	4183 2743351	24417 4844992	200831	153891	568432	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
13C3-PFPrA	13C3PFBA	Ave	1198536 1134754	1212139 1116459	1152822 +++++	1233461	1132478	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
13C4 PFBA	13C3PFBA	Ave	1447079 1363428	1441568 1364351	1395292 1015981	1487752	1378659	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C5 PFPeA	PFHxA	Ave	916200 862503	908909 852772	878349 715904	912018	882046	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C2 4:2 FTS	PFHxS	Ave	541343 552013	535634 522393	540686 +++++	576875	539075	4.69 4.69	4.69 4.69	4.69 +++++	4.69	4.69
13C5 PFHxA	PFHxA	Ave	1742064 1722730	1764316 1680222	1798429 1476564	1751084	1666394	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C3 PFBS	PFHxS	Ave	1558129 1557583	1663415 1581345	1645120 1176202	1625835	1657318	1.86 1.86	1.86 1.86	1.86 1.86	1.86	1.86
13C3 HFPO-DA	PFHxA	Ave	1453494 1515599	1476415 1462445	1437522 1354887	1554899	1499964	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C4 PFHpA	PFHxA	Ave	1789935 1711904	1700514 1623140	1692617 1396598	1809016	1709959	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C2 6:2 FTS	PFHxS	Ave	480481 420122	480145 407752	460827 +++++	479801	455442	4.76 4.76	4.76 4.76	4.76 +++++	4.76	4.76
13C8 PFOA	PFOA	Ave	2250574 2146334	2109358 2129887	2148001 1802094	2206981	2023138	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C3 PFHxS	PFHxS	Ave	1480335 1475511	1536455 1442871	1485307 1154396	1546117	1434246	1.90 1.90	1.90 1.90	1.90 1.90	1.90	1.90
13C9 PFNA	PFNA	Ave	1688402 1702638	1802169 1599236	1811827 1437393	1803138	1694413	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C2 8:2 FTS	PFHxS	Ave	430399 430372	447544 403856	445077 +++++	450150	453461	4.80 4.80	4.80 4.80	4.80 +++++	4.80	4.80
d3-NMeFOSAA	PFOS	Ave	1019893 953632	956237 919414	907727 +++++	948738	877124	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
13C6 PFDA	PFDA	Ave	1815880 1539793	1726411 1617979	1795787 1853982	1710515	1703670	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
d5-NEtFOSAA	PFOS	Ave	815697 824452	816598 807454	794699 +++++	842737	786124	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
13C8 PFOS	PFOS	Ave	1210631 1245347	1302866 1164075	1254756 905070	1236583	1207568	1.92 1.92	1.92 1.92	1.92 1.92	1.92	1.92
13C7 PFUnA	PFDA	Ave	1693454 1728873	1722039 1708354	1790839 1753794	1716382	1610810	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C2 PFDoA	PFDA	Ave	1219595 1171375	1283792 1189597	1168899 1229938	1195355	1209220	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C8 FOSA	PFOS	Ave	1423644 1441266	1470333 1444867	1455065 +++++	1431617	1402020	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
13C2 PFTeDA	PFDA	Ave	1029763 965693	1036053 974641	1036757 1005633	1051673	922940	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
d7-N-MeFOSE-M	PFOS	Ave	563343 587156	573005 559192	572942 +++++	583026	531246	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
d3-NMePFOSA	PFOS	Ave	408787 392397	398753 427568	399032 +++++	400903	414847	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
d9-N-EtFOSE-M	PFOS	Ave	786089 734193	733666 764915	754616 +++++	749645	748062	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
d5-NEtPFOSA	PFOS	Ave	480842 493583	485883 524266	485491 +++++	504445	483500	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00

Curve Type Legend:
Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-761807/1	26JAN28CAL-01.d
Level 2	IC 410-761807/2	26JAN28CAL-02.d
Level 3	IC 410-761807/3	26JAN28CAL-03.d
Level 4	IC 410-761807/4	26JAN28CAL-04.d
Level 5	ICISAV 410-761807/5	26JAN28CAL-05.d
Level 6	IC 410-761807/6	26JAN28CAL-06.d
Level 7	IC 410-761807/7	26JAN28CAL-07.d
Level 8	IC 410-761807/8	26JAN28CAL-08.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Perfluoropropionic acid (PFPrA)	2.6 0.2	1.3	-4.2	-3.0	4.1	-0.9	30 30	30	30	30	30	30
Perfluorobutanoic acid (PFBA)	-1.5 -0.7	4.0 -1.3	-2.2	-2.5	4.0	0.1	30 30	30 30	30	30	30	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.9 1.0	2.7	-2.8	-4.0	5.4	-3.2	30 30	30	30	30	30	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.5 0.7	8.2	-1.5	-6.0	1.0	-5.0	30 30	30	30	30	30	30
Perfluoropentanoic acid (PFPeA)	6.6 1.5	-3.8 -2.6	-4.3	1.0	0.7	0.9	30 30	30 30	30	30	30	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	-1.5 1.8	5.4	-2.4	0.0	-2.4	-0.8	30 30	30	30	30	30	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	10.3 -0.5	-1.5	2.8	-6.6	-0.6	-3.9	30 30	30	30	30	30	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	-11.8 -1.0	8.7	-6.0	1.1	12.0	-3.0	30 30	30	30	30	30	30
Perfluorohexanoic acid (PFHxA)	22.0 -3.4	2.2 -8.0	-8.4	-1.2	2.6	-5.8	30 30	30 30	30	30	30	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	-2.8 8.5	2.0	-13.2	1.0	5.2	-0.7	30 30	30	30	30	30	30
Perfluorobutanesulfonamide (FBSA)	1.8 4.4	-4.3	1.4	-0.5	-2.7	-0.2	30 30	30	30	30	30	30
Perfluorobutanesulfonic acid (PFBS)	5.2 -1.7	4.2 -1.3	-11.1	1.4	2.0	1.3	30 30	30 30	30	30	30	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.6 4.5	-0.8 -3.4	0.6	-1.6	-0.3	-0.7	30 30	30 30	30	30	30	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	7.9 -3.7	-4.2	-7.5	-1.4	8.8	0.2	30 30	30	30	30	30	30

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Perfluoroheptanoic acid (PFHpA)	-16.4 6.1	-4.2 5.8	1.8	2.3	2.3	2.4	30 30	30 30	30	30	30	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.2 1.6	6.8 -11.4	0.0	-0.3	1.8	-4.8	30 30	30 30	30	30	30	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	-8.5 0.7	12.9	-12.5	-2.0	4.3	5.1	30 30	30	30	30	30	30
Perfluoropentanesulfonic acid (PFPeS)	0.7 -0.6	7.1 -6.1	-6.0	-2.0	7.7	-0.8	30 30	30 30	30	30	30	30
Bis(trifluoromethane)sulfonamide (TFSI)	-0.1 3.8	7.8	-4.8	-8.2	4.8	-3.2	30 30	30	30	30	30	30
Perfluorooctanoic acid (PFOA)	-9.3 0.4	13.0 3.3	-3.0	-6.7	3.6	-1.3	30 30	30 30	30	30	30	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	-7.0 4.7	3.5	-7.6	1.5	4.1	0.8	30 30	30	30	30	30	30
Perfluorohexanesulfonic acid (PFHxS)	11.5 -3.0	6.2 -2.0	-5.7	-6.9	3.6	-3.7	30 30	30 30	30	30	30	30
Perfluorononanoic acid (PFNA)	18.6 2.8	9.1 -8.2	-10.9	-3.3	-2.7	-5.3	30 30	30 30	30	30	30	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	-8.4 3.5	9.9	-2.9	-0.7	-1.2	-0.1	30 30	30	30	30	30	30
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	-15.2 -2.6	18.5	-1.6	-8.5	7.4	2.0	30 30	30	30	30	30	30
Perfluorohexanesulfonamide (FHxSA)	-8.7 1.9	0.8	-2.9	-2.4	9.4	1.9	30 30	30	30	30	30	30
Perfluoroheptanesulfonic acid (PFHpS)	18.2 -9.6	-6.4 -0.9	-5.9	0.2	4.6	0.0	30 30	30 30	30	30	30	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-0.3 -7.7	19.6	-5.5	-11.3	13.4	-8.2	30 30	30	30	30	30	30
Perfluorodecanoic acid (PFDA)	7.1 -4.3	-0.4	-11.3	3.1	2.8	3.0	30 30	30	30	30	30	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-6.2 -1.1	-3.4	7.1	-4.3	7.0	0.9	30 30	30	30	30	30	30
Perfluorooctanesulfonic acid (PFOS)	12.9 2.0	-3.1 -0.5	-8.0	0.8	0.9	-5.0	30 30	30 30	30	30	30	30
Perfluoroundecanoic acid (PFUnA)	-0.3 2.9	0.7	-4.9	2.0	0.6	-0.9	30 30	30	30	30	30	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.0 -1.8	-5.1	-5.2	2.8	8.1	-2.9	30 30	30	30	30	30	30
Perfluorononanesulfonic acid (PFNS)	-0.5 -3.2	3.6	-5.5	6.2	4.6	-5.1	30 30	30	30	30	30	30

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 761807

SDG No.:

Instrument ID: 30576 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/29/2026 00:38 Calibration End Date: 01/29/2026 02:14 Calibration ID: 81265

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Perfluorododecanoic acid (PFDoA)	3.7 1.3	-4.4	-0.5	5.0	0.5	-5.7	30 30	30	30	30	30	30
Perfluorooctanesulfonamide (PFOSA)	5.3 -0.7	0.6	-6.3	0.4	4.1	-3.5	30 30	30	30	30	30	30
Perfluorodecanesulfonic acid (PFDS)	4.4 -3.2	-2.1	-5.1	5.2	4.6	-3.9	30 30	30	30	30	30	30
Perfluorotridecanoic acid (PFTrDA)	0.0 1.7	8.5	-5.9	3.0	-6.0	-1.3	30 30	30	30	30	30	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.8 1.3	-0.7	-8.3	1.2	2.4	2.3	30 30	30	30	30	30	30
Perfluorotetradecanoic acid (PFTeDA)	0.7 2.2	8.9	-7.3	-7.2	4.8	-2.0	30 30	30	30	30	30	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	4.0 2.1	4.1	-5.9	-1.4	3.4	-6.4	30 30	30	30	30	30	30
Perfluorododecanesulfonic acid (PFDoS)	9.9 1.1	-0.8	-10.1	-0.3	5.5	-5.3	30 30	30	30	30	30	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.4 -4.0	2.5	-0.8	2.6	-1.8	1.2	30 30	30	30	30	30	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	-1.7 -0.8	5.5	-4.7	0.4	0.5	0.7	30 30	30	30	30	30	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.6 -2.8	1.1	-0.6	-4.2	4.5	-0.7	30 30	30	30	30	30	30
Perfluoro-n-octadecanoic acid (PFODA)	-73.1 * 64.5 *	-37.6 *	28.2	-51.6 *	-18.5	88.0 *	30 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-01.d
Lims ID: IC CAL 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Jan-2026 00:38:56 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL1
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub14

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 12:06:41 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1631

First Level Reviewer: M4QQ Date: 29-Jan-2026 06:52:44
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 13C3PFPrA										
166.00 > 121.00	2.033	2.008	0.025	0.485	1198536	2.00		99.8	606	
2 Perfluoropropionic acid										
163.00 > 119.00	2.033	2.033	0.0	1.000	140495	0.2564		103	348	
3 PFBA										
212.80 > 168.90	4.181	4.179	0.002	0.998	65176	0.0985		98.5	665	
D 4 13C4-PFBA										
216.80 > 171.90	4.189	4.187	0.002	1.000	1447079	2.00		99.8	5967	
* 5 13C3PFBA										
216.00 > 172.00	4.189	4.187	0.002		1386619	2.00			635	
6 PFMPA										
229.00 > 84.90	4.511	4.508	0.003	0.931	38584	0.0505		101	321	
7 3:3 FTCA										
241.00 > 177.00	4.521	4.518	0.003	0.933	4259	0.1025	Target=1.25	103	98.1	
241.00 > 117.00	4.511	4.518	-0.007	0.931	3227		1.32(0.63-1.88)	103	22.4	
D 8 13C5 PFPeA										
268.30 > 223.00	4.843	4.842	0.001	0.914	916200	1.97		98.6	6564	
9 PFPA										
263.00 > 219.00	4.843	4.850	-0.007	1.000	45384	0.0533		107	90.0	
10 PFMBA										
279.00 > 85.10	4.991	4.999	-0.008	1.030	47897	0.0492		98.5	278	
D 12 13C2-4:2FTS										
329.10 > 80.90	5.115	5.123	-0.008	0.799	541343	4.61		98.4	3079	
13 4:2FTS										
327.10 > 307.00	5.115	5.123	-0.008	1.000	19877	0.1035	Target=1.50	110	182	
327.10 > 80.90	5.115	5.123	-0.008	1.000	13525		1.47(0.75-2.24)	110	14.2	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.260	5.271	-0.011	0.992	13485	0.0441	Target=1.42	88.2	128	
295.00 > 84.90	5.260	5.271	-0.011	0.992	10520		1.28(0.71-2.13)	88.2	68.3	
D 15 13C5 PFHxA										
318.00 > 273.00	5.301	5.312	-0.011	1.000	1742064	1.91		95.4	6060	
* 16 13C2 PFHxA										
315.10 > 270.00	5.301	5.312	-0.011		3995581	5.00			11195	
17 PFHxA										
313.00 > 269.00	5.301	5.312	-0.011	1.000	45847	0.0610	Target=11.34	122	65.0	
313.00 > 118.90	5.315	5.312	0.003	1.003	5431		8.44(5.67-17.02)	122	22.6	
18 5:3 FTCA										
341.00 > 237.10	5.377	5.375	0.003	1.014	23603	0.2430	Target=0.84	97.2	152	
341.00 > 217.00	5.364	5.375	-0.010	1.012	28450		0.83(0.42-1.26)	97.2	108	
19 FBSA										
297.90 > 78.00	5.430	5.441	-0.011	0.995	44863	0.0509		102	13457	
D 20 13C3 PFBS										
302.10 > 79.90	5.457	5.454	0.003	0.852	1558129	1.80		96.6	10077	
21 PFBS										
298.70 > 79.90	5.457	5.454	0.003	1.000	41122	0.0467	Target=3.25	105	112	
298.70 > 98.80	5.457	5.454	0.003	1.000	11437		3.60(1.62-4.87)	105	77.0	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.498	5.495	0.003	1.037	1453494	1.84		92.0	4814	
23 HFPO-DA										
284.90 > 168.90	5.484	5.495	-0.011	0.998	27590	0.0381	Target=2.31	102	133	
284.90 > 184.90	5.498	5.495	0.003	1.000	16123		1.71(1.15-3.46)	102	63.1	
26 PFEESA										
314.80 > 134.90	5.698	5.697	0.001	1.075	110265	0.0481	Target=11.22	108	397	
314.80 > 82.90	5.698	5.697	0.001	1.075	8871		12.43(5.61-16.83)	108	49.4	
27 PFHpA										
363.10 > 319.00	5.741	5.740	0.001	1.000	31443	0.0418	Target=2.31	83.6	92.9	
363.10 > 169.00	5.741	5.740	0.001	1.000	18777		1.67(1.16-3.47)	83.6	78.0	
D 28 13C4 PFHpA										
367.10 > 322.00	5.741	5.740	0.001	1.083	1789935	1.99		99.4	9618	
29 ADONA										
376.90 > 250.90	5.892	5.892	0.0	1.072	86992	0.0502	Target=1.98	106	282	
376.90 > 84.80	5.892	5.892	0.0	1.072	42809		2.03(0.99-2.97)	106	176	
D 30 13C2-6:2FTS										
429.10 > 80.90	5.937	5.936	0.001	0.927	480481	4.97		104	2984	
31 6:2FTS										M
427.10 > 407.00	5.937	5.936	0.001	1.000	14567	0.0871	Target=1.40	91.5	20.0	M
427.10 > 80.90	5.937	5.936	0.001	1.000	13075		1.11(0.70-2.10)	91.5	26.8	
32 PFPeS										
349.10 > 79.90	5.952	5.951	0.001	0.929	41126	0.0473	Target=3.31	101	123	
349.10 > 98.90	5.952	5.951	0.001	0.929	13471		3.05(1.65-4.96)	101	80.8	
33 BTS										
280.00 > 147.00	6.121	6.121	0.0	0.956	99208	0.0489		99.9	550	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 PFOA										M
413.00 > 369.00	6.147	6.160	-0.013	0.998	32469	0.0453	Target=1.89	90.7	26.2	M
413.00 > 169.00	6.161	6.160	0.001	1.000	19502		1.66(0.95-2.84)	90.7	22.5	
D 35 13C8 PFOA										
421.10 > 376.00	6.161	6.160	0.001	1.000	2250574	2.08		104	5683	
* 36 13C4 PFOA										
417.10 > 372.00	6.161	6.160	0.001		5420762	5.00			16121	
37 7:3 FTCA										
441.00 > 316.90	6.212	6.212	0.0	1.172	11635	0.2325	Target=0.34	93.0	21.4	
441.00 > 336.90	6.212	6.212	0.0	1.172	38077		0.31(0.17-0.50)	93.0	83.8	
D 38 13C3 PFHxS										
402.10 > 79.90	6.404	6.404	0.0	1.000	1480335	1.87		98.9	8097	
39 PFHxS										
398.70 > 79.90	6.404	6.404	0.0	1.000	34275	0.0509	Target=3.47	112	52.9	
398.70 > 98.90	6.392	6.404	-0.012	0.998	9845		3.48(1.73-5.20)	112	20.9	
* 40 18O2 PFHxS										
403.00 > 83.90	6.404	6.404	0.0		1458432	1.90			5387	
D 41 13C9 PFNA										
472.10 > 427.00	6.582	6.568	0.014	1.000	1688402	1.96		98.0	4527	
42 PFNA										
463.00 > 419.00	6.582	6.568	0.014	1.000	48391	0.0593	Target=2.73	119	63.9	
463.00 > 219.00	6.582	6.568	0.014	1.000	17113		2.83(1.37-4.09)	119	29.0	
* 43 13C5 PFNA										
468.00 > 423.00	6.582	6.581	0.001		1839563	2.00			5570	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.771	6.758	0.013	1.057	430399	4.67		97.3	2152	
45 8:2FTS										
527.10 > 507.00	6.771	6.770	0.001	1.000	10515	0.0879	Target=1.55	91.6	20.3	
527.10 > 80.80	6.758	6.770	-0.012	0.998	6643		1.58(0.78-2.33)	91.6	1882	
46 PFECHS										
461.00 > 381.00	6.820	6.808	0.012	1.065	9208	0.0392	Target=0.25	84.8	54.5	
461.00 > 99.00	6.820	6.808	0.012	1.065	43529		0.21(0.13-0.38)	84.8	193	
47 FHxSA										
397.90 > 78.00	6.832	6.832	0.0	1.067	49413	0.0457		91.3	212	
48 PFHpS										
449.00 > 79.90	6.857	6.845	0.012	0.940	45047	0.0564	Target=4.28	118	208	
449.00 > 98.80	6.857	6.845	0.012	0.940	8955		5.03(2.14-6.42)	118	2524	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.929	6.929	0.0	0.950	1019893	5.32		106	1287	
50 NMeFOSAA										
570.10 > 419.00	6.941	6.929	0.012	1.002	11775	0.0499	Target=1.90	99.7	3972	
570.10 > 483.00	6.941	6.929	0.012	1.002	6248		1.88(0.95-2.85)	99.7	1912	
* 51 13C2 PFDA										
515.10 > 470.10	7.011	7.000	0.011		1725325	2.00			6277	
D 52 13C6 PFDA										
519.10 > 474.10	7.011	7.000	0.011	1.000	1815880	2.08		104	8227	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
53 PFDA										
512.90 > 469.00	7.011	7.000	0.011	1.000	31241	0.0536	Target=3.34	107	113	
512.90 > 219.00	7.011	7.000	0.011	1.000	7008		4.46(1.67-5.01)	107	47.2	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.123	7.111	0.012	0.977	815697	4.92		98.5	1607	
55 NEtFOSAA										M
584.20 > 419.10	7.136	7.111	0.025	1.002	6101	0.0469	Target=1.51	93.8	27.0	M
584.20 > 526.00	7.136	7.111	0.025	1.002	3547		1.72(0.75-2.26)	93.8	10.0	M
D 56 13C8 PFOS										
507.10 > 79.90	7.291	7.291	0.0	1.000	1210631	1.85		96.6	2036	
* 57 13C4 PFOS										
502.80 > 79.90	7.291	7.291	0.0		1233945	1.92			7080	
58 PFOS										
498.90 > 79.90	7.304	7.291	0.013	1.002	46941	0.0525	Target=4.89	113	52.5	
498.90 > 98.80	7.291	7.291	0.0	1.000	10340		4.54(2.45-7.34)	113	23.1	
D 59 13C7 PFUnA										
570.00 > 525.10	7.447	7.435	0.012	1.062	1693454	1.95		97.4	3607	
60 PFUnA										
563.10 > 519.00	7.447	7.435	0.012	1.000	19610	0.0499	Target=3.26	99.7	40.6	
563.10 > 269.10	7.447	7.435	0.012	1.000	8573		2.29(1.63-4.88)	99.7	28.1	
61 9ClFOS										
530.80 > 351.00	7.630	7.620	0.010	1.047	85218	0.0486	Target=3.01	104	701	
532.80 > 353.00	7.630	7.620	0.010	1.047	28454		2.99(1.51-4.52)	104	193	
62 PFNS										
548.80 > 79.90	7.735	7.723	0.012	1.061	32885	0.0478	Target=4.32	99.5	306	
548.80 > 98.80	7.735	7.723	0.012	1.061	9336		3.52(2.16-6.47)	99.5	2691	
63 PFDoA										
613.10 > 569.00	7.872	7.861	0.011	1.000	22053	0.0518	Target=3.42	104	130	
613.10 > 319.00	7.861	7.861	0.0	0.999	6008		3.67(1.71-5.13)	104	1938	
D 64 13C2 PFDoA										
615.10 > 570.00	7.872	7.861	0.011	1.123	1219595	1.99		99.5	6668	
D 65 13C8 FOSA										
506.10 > 77.80	7.971	7.958	0.013	1.093	1423644	1.94		97.1	6837	
66 PFOSA										M
498.10 > 77.90	7.957	7.971	-0.014	0.998	39167	0.0526	Target=43.97	105	87.5	M
498.10 > 478.00	7.971	7.971	0.0	1.000	1518		25.80(21.98-65.95)	105	413	
67 PFDS										
599.00 > 79.90	8.132	8.118	0.014	1.115	36671	0.0503	Target=4.28	104	242	
599.00 > 98.80	8.132	8.118	0.014	1.115	9984		3.67(2.14-6.41)	104	103	
68 PFTrDA										
663.00 > 619.00	8.277	8.262	0.015	0.959	25329	0.0500	Target=4.49	100	148	
663.00 > 168.90	8.262	8.262	0.0	0.957	6659		3.80(2.24-6.73)	100	29.8	
69 11ClFOS										
630.90 > 450.90	8.438	8.425	0.013	1.157	46284	0.0481	Target=2.77	102	471	
632.90 > 452.90	8.438	8.425	0.013	1.157	17299		2.68(1.39-4.16)	102	208	
70 PFTeDA										
713.10 > 168.90	8.631	8.616	0.015	1.000	3857	0.0504	Target=0.89	101	41.7	
713.10 > 219.00	8.631	8.616	0.015	1.000	4875		0.79(0.44-1.33)	101	27.3	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 71 13C2 PFTeDA										
715.20 > 670.00	8.631	8.616	0.015	1.231	1029763	2.03		101	4723	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.744	8.744	0.0	1.199	563343	4.87		97.5	280	
73 N-MeFOSE-M										M
616.10 > 58.90	8.758	8.758	0.0	1.002	56000	0.2599		104	65.3	M
74 PFDoS										
699.10 > 79.90	8.812	8.799	0.013	1.209	35843	0.0533	Target=4.86	110	355	
699.10 > 98.80	8.812	8.799	0.013	1.209	6523		5.49(2.43-7.29)	110	125	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.825	8.826	-0.001	1.210	408787	1.97		98.7	3733	
76 NMeFOSA										
511.90 > 219.00	8.839	8.839	0.0	1.002	10215	0.0502	Target=0.74	100	84.8	
511.90 > 169.00	8.839	8.839	0.0	1.002	14644		0.70(0.37-1.10)	100	68.2	
D 77 d9-N-EtFOSE										
639.20 > 58.90	8.932	8.932	0.0	1.225	786089	5.12		102	680	
78 N-EtFOSE-M										
630.00 > 58.90	8.945	8.945	0.0	1.001	81488	0.2457		98.3	115	
D 79 d5-NEtPFOSA										
531.10 > 219.00	8.996	8.996	0.0	1.234	480842	1.91		95.4	3326	
80 N-EtFOSA-M										
526.00 > 219.00	9.009	9.009	0.0	1.001	12100	0.0513	Target=0.84	103	97.0	
526.00 > 169.00	9.009	9.009	0.0	1.001	14732		0.82(0.42-1.25)	103	86.5	
81 Perfluorooctadecanoic acid										Ma
913.00 > 869.00	9.851	9.782	0.069	1.141	4183	0.0134	Target=11.42	26.9	97.3	a
913.00 > 169.00	9.851	9.782	0.069	1.141	379		11.04(5.71-17.13)	26.9	14.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

1633_125_CAL1_00080 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 12:06:46 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-01.d

Injection Date: 29-Jan-2026 00:38:56 Instrument ID: 30576

Lims ID: IC CAL 1

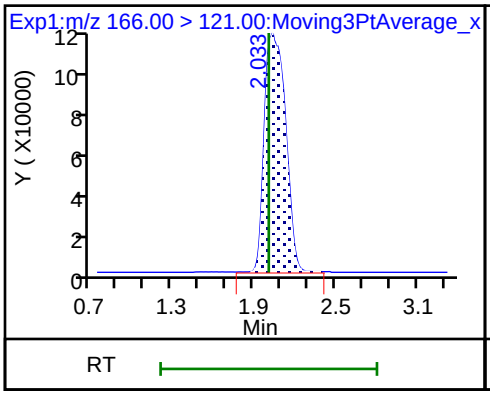
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Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 2 Worklist Smp#: 1

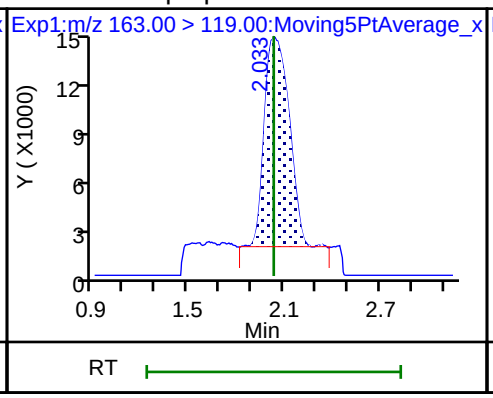
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

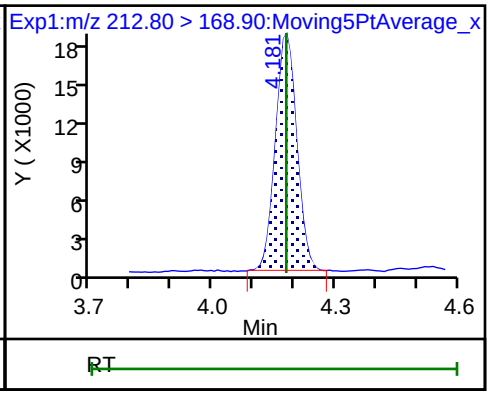
D 1 13C3PFPrA



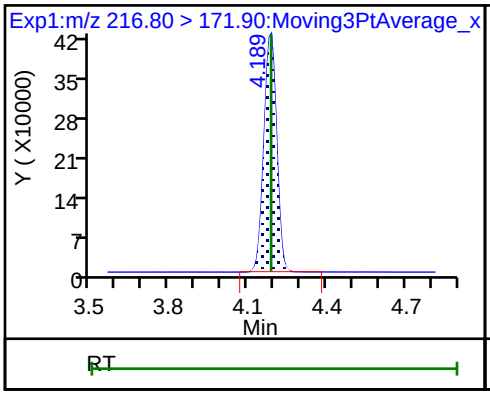
2 Perfluoropropionic acid



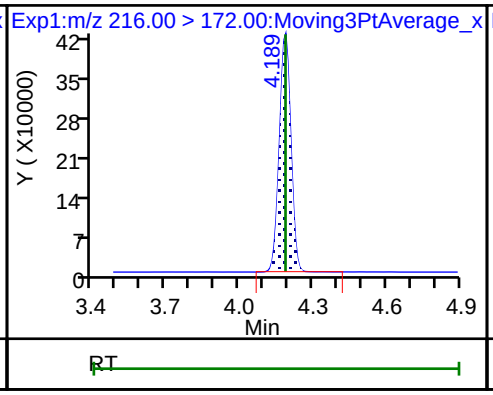
3 PFBA



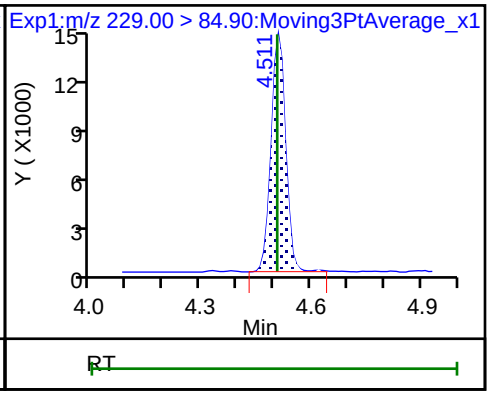
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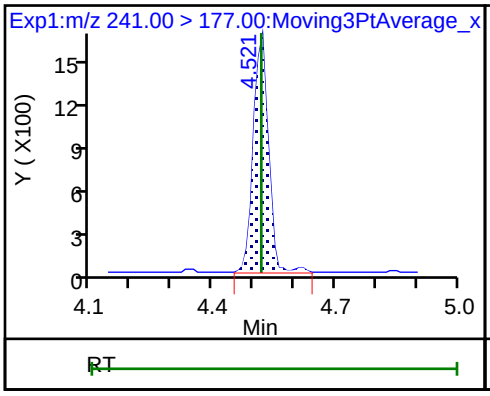
* 5 13C3PFBA



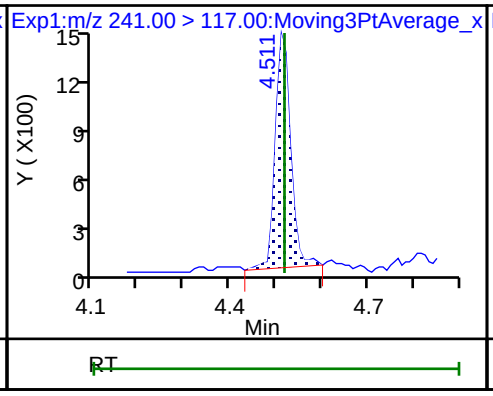
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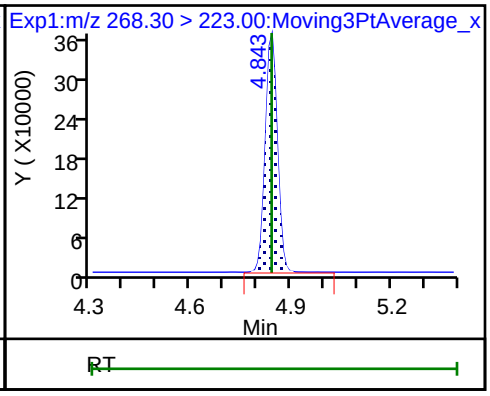
7 3:3 FTCA



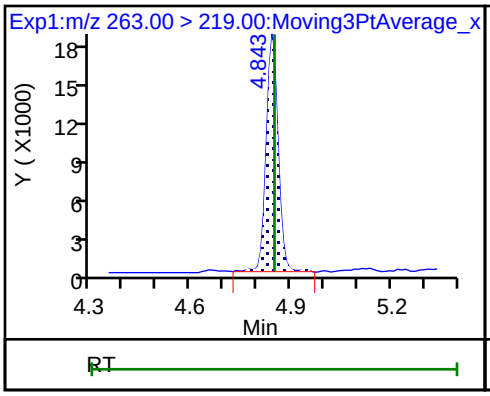
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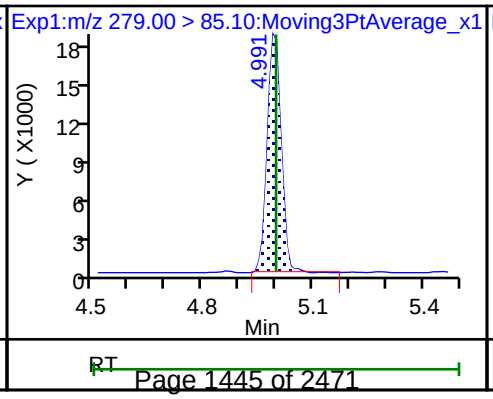
D 8 13C5 PFPeA



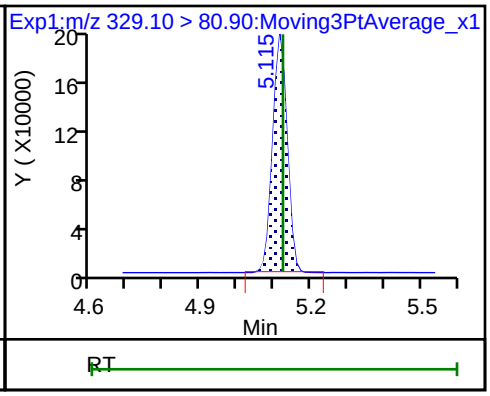
9 PFPA



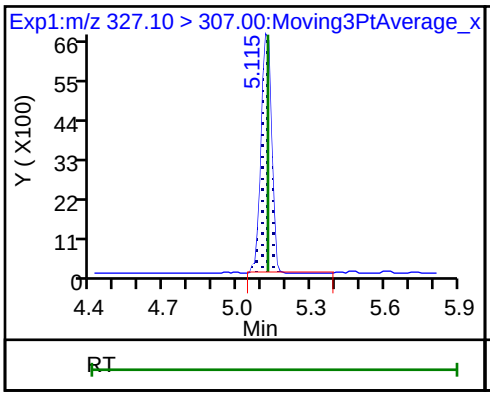
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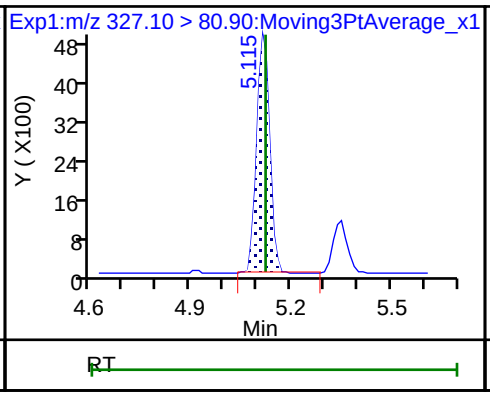
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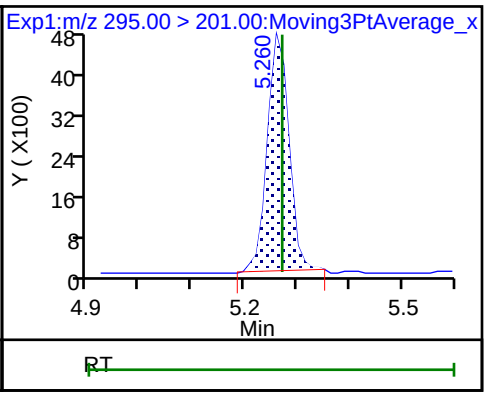
13 4:2FTS



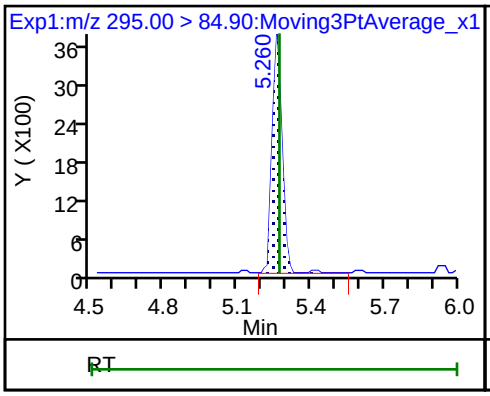
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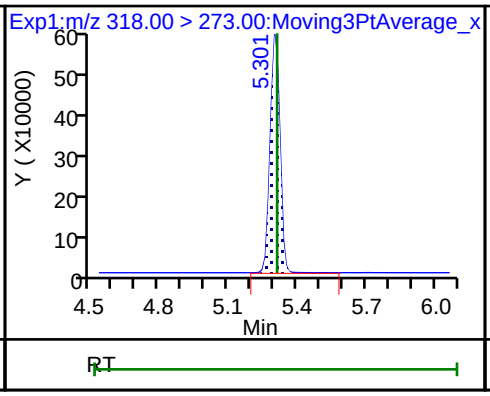
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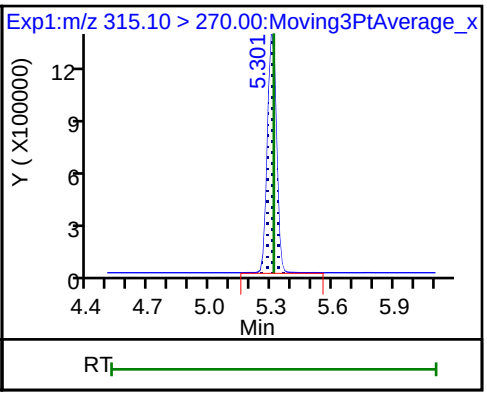
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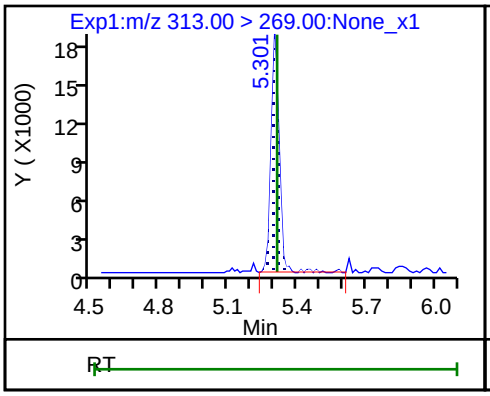
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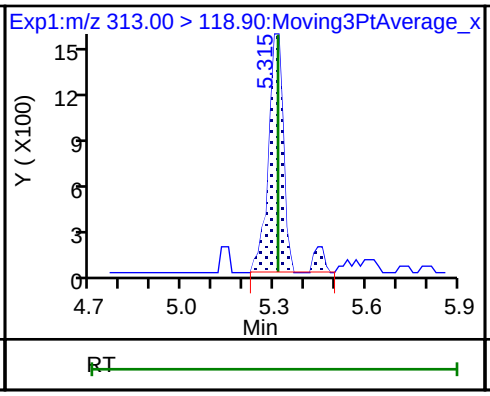
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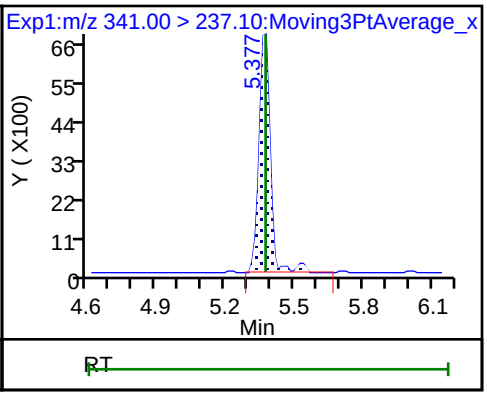
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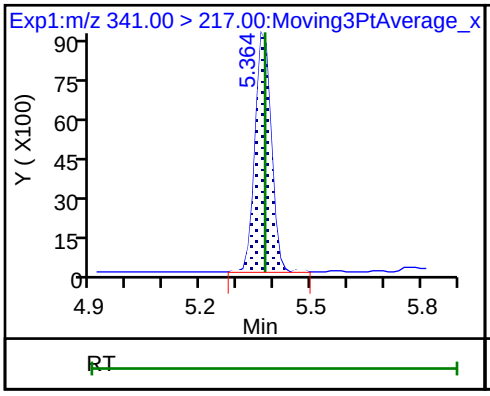
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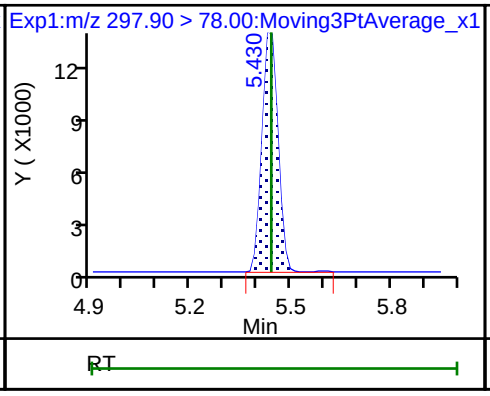
18 5:3 FTCA



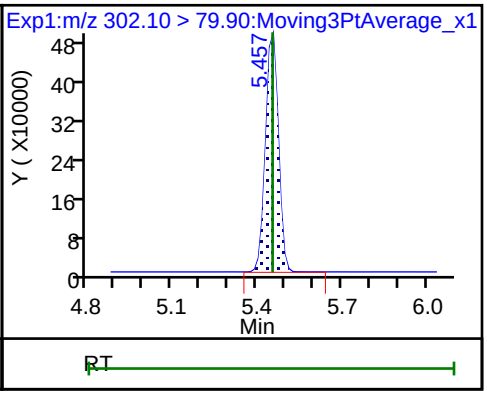
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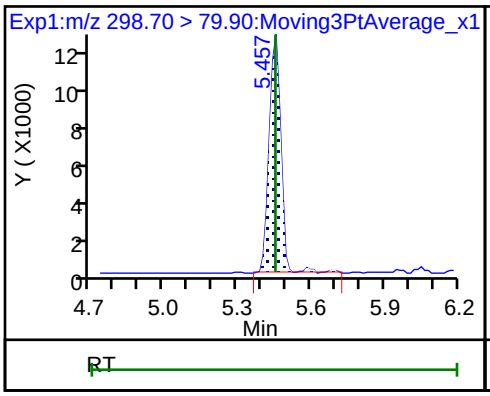
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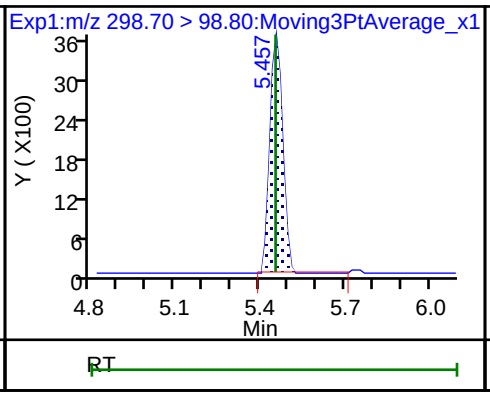
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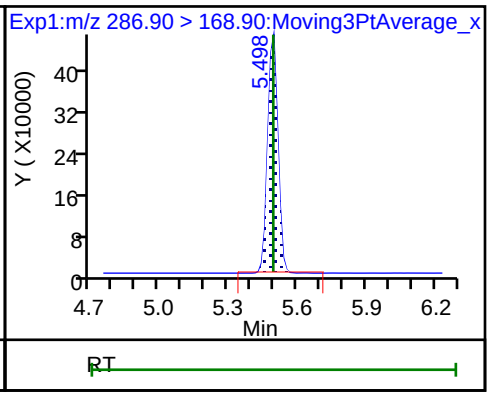
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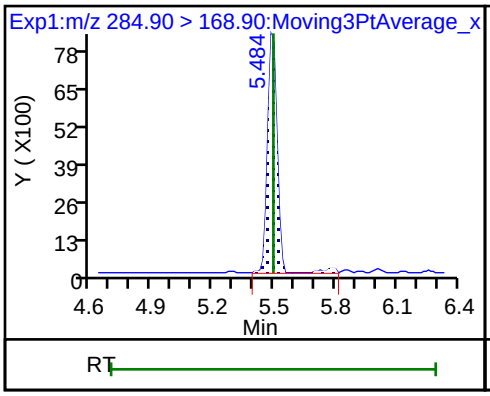
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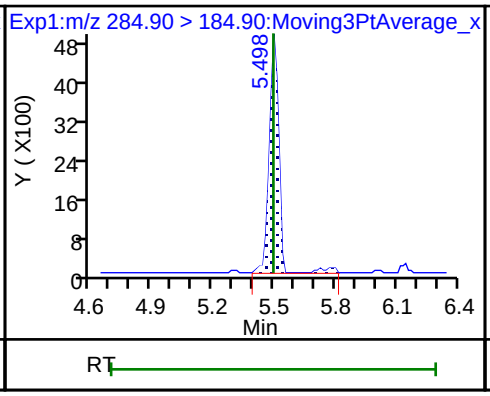
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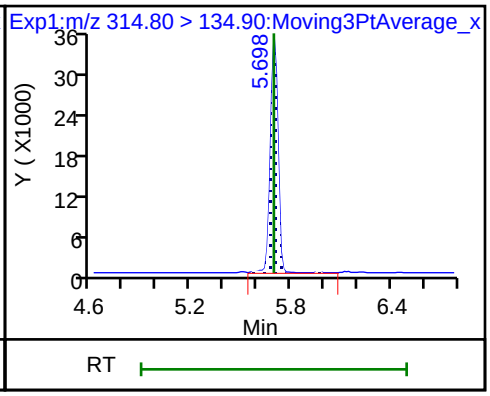
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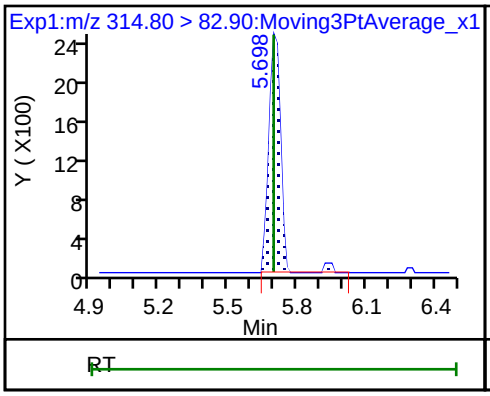
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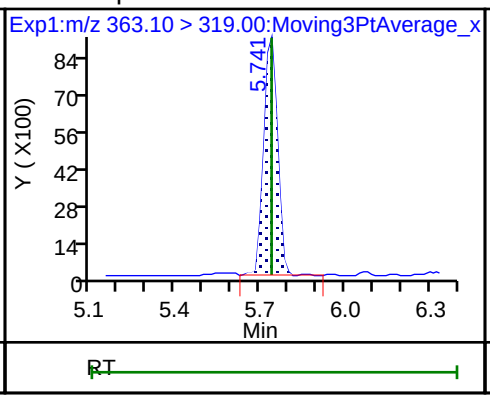
26 PFEESA



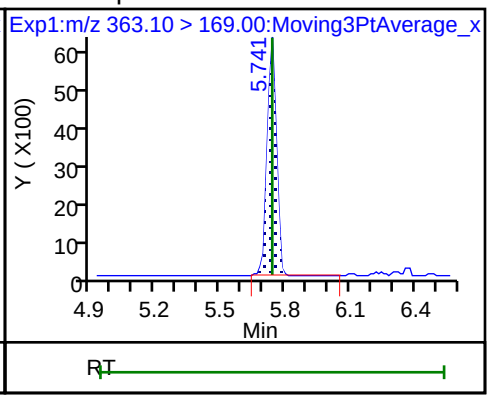
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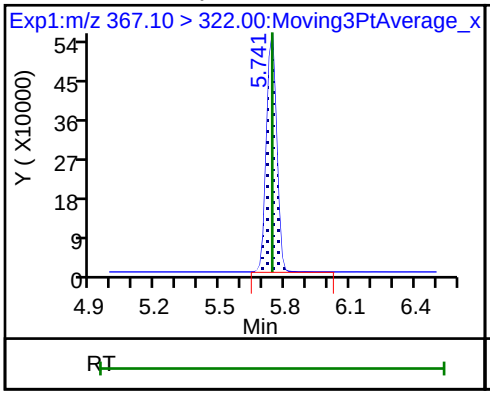
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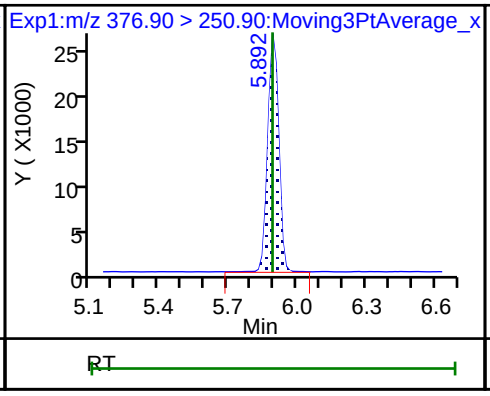
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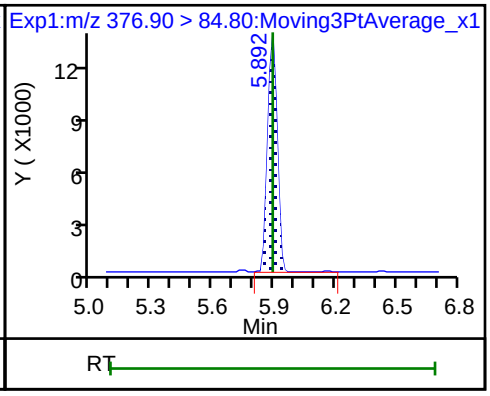
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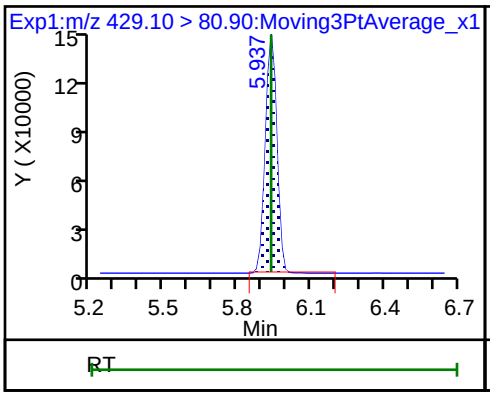
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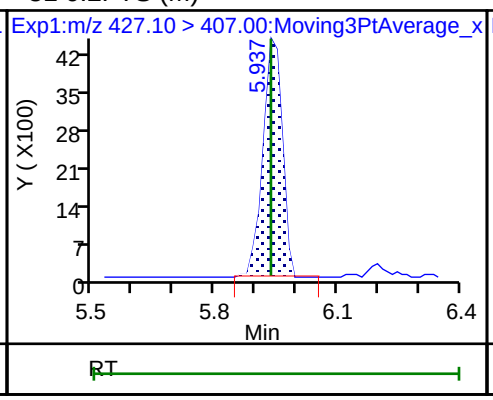
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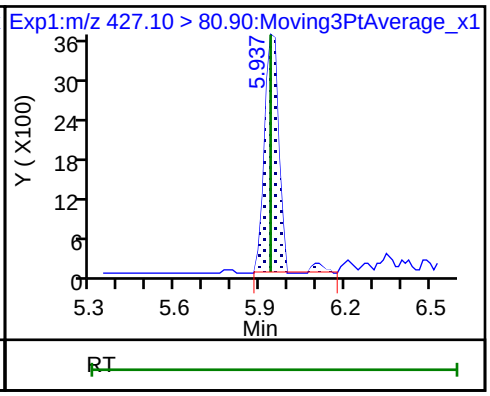
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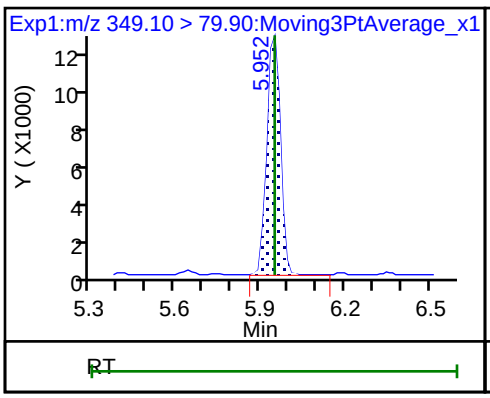
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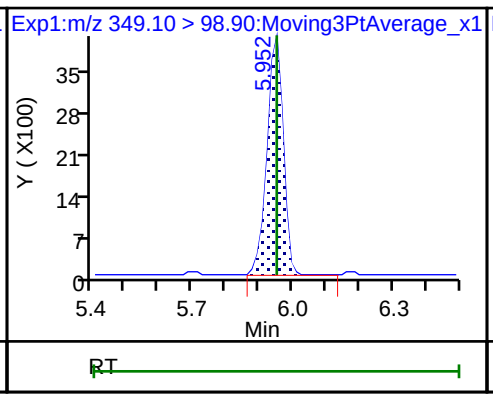
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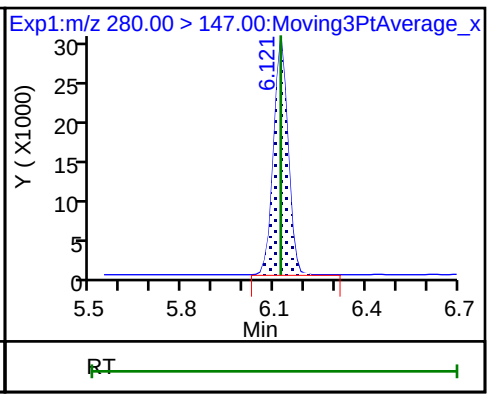
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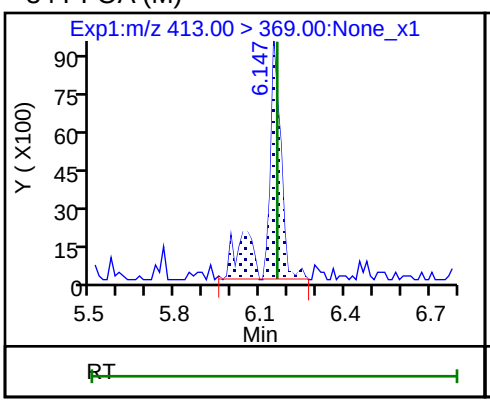
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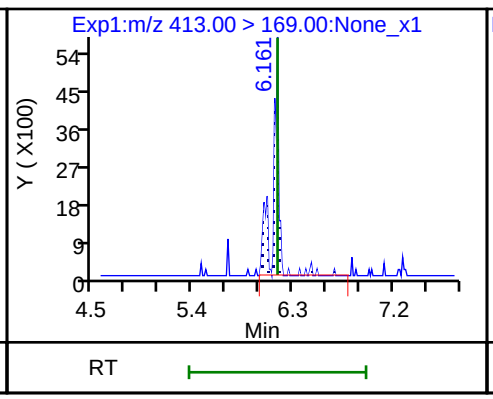
33 BTS



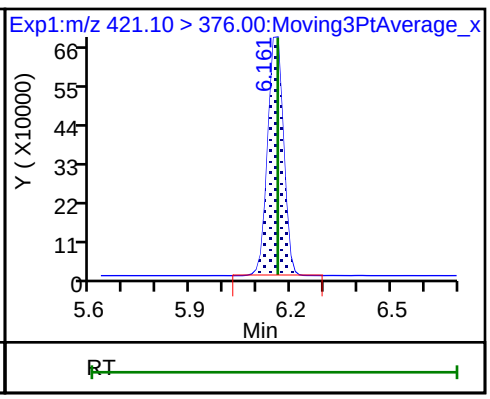
34 PFOA (M)



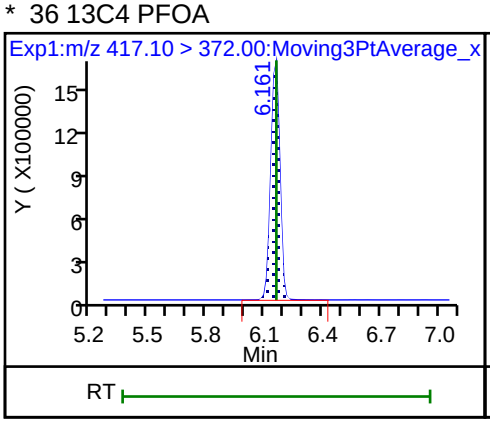
34 PFOA



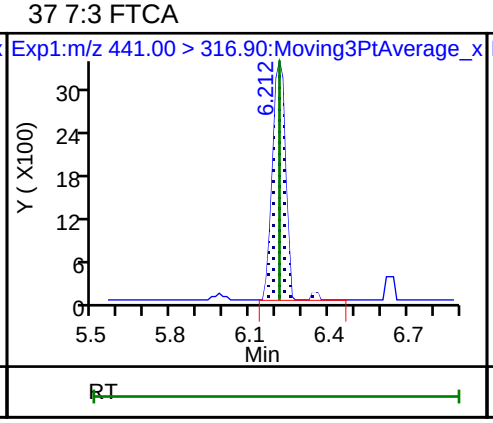
D 35 13C8 PFOA



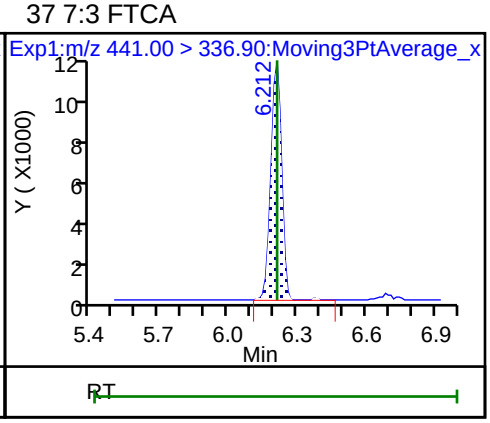
* 36 13C4 PFOA



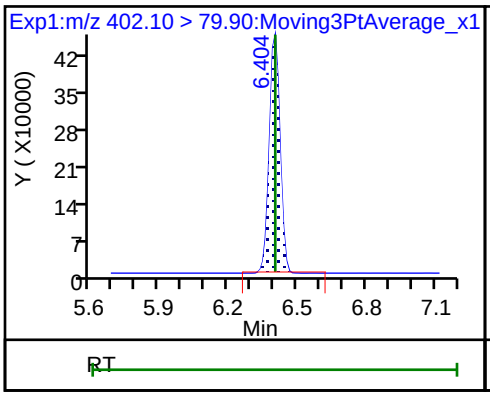
37 7:3 FTCA



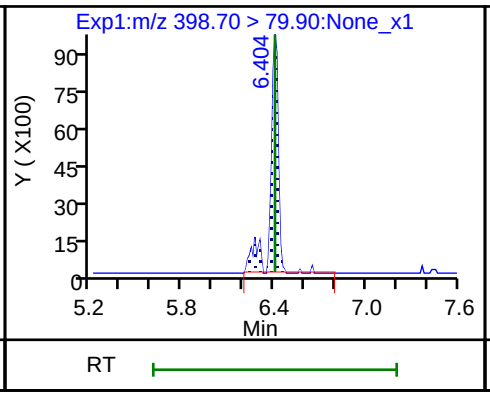
37 7:3 FTCA



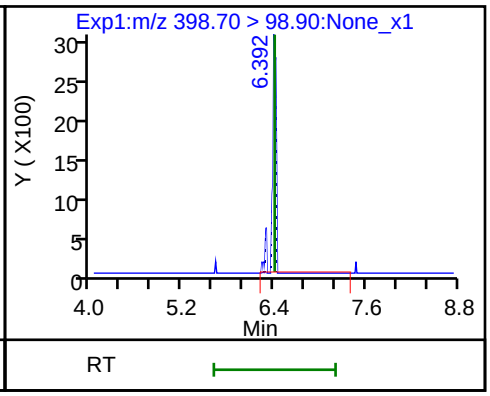
D 38 13C3 PFHxS



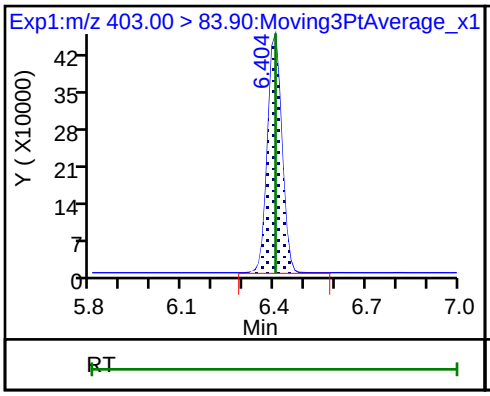
39 PFHxS



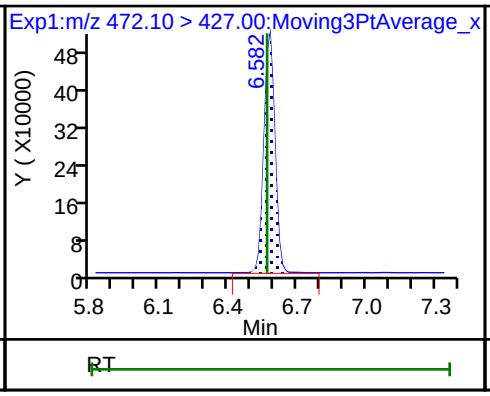
39 PFHxS



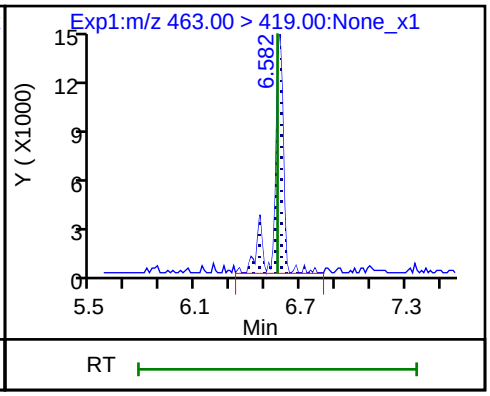
* 40 18O2 PFHxS



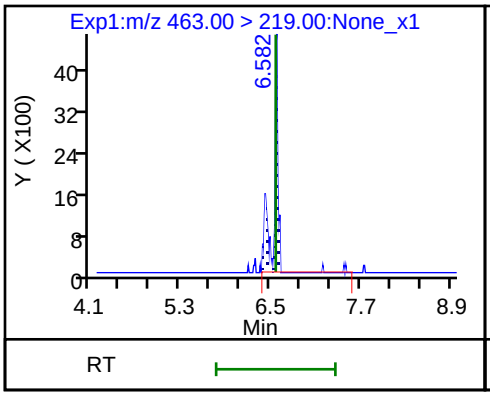
D 41 13C9 PFNA



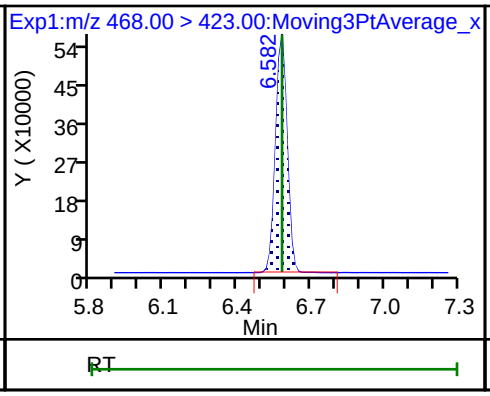
42 PFNA



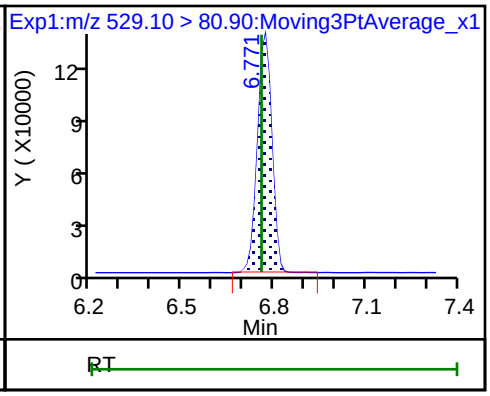
42 PFNA



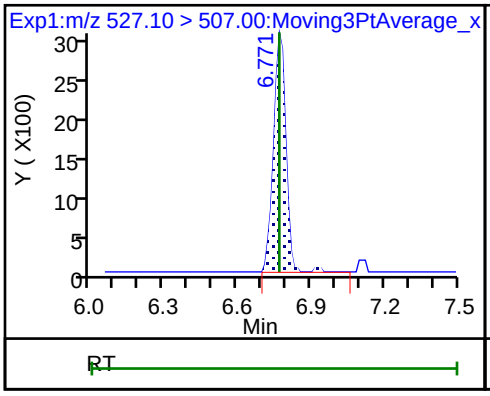
* 43 13C5 PFNA



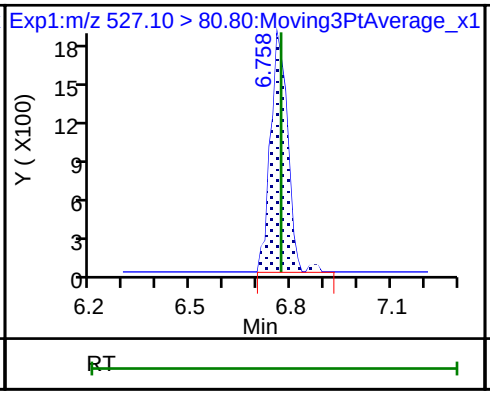
D 44 13C2-8:2FTS



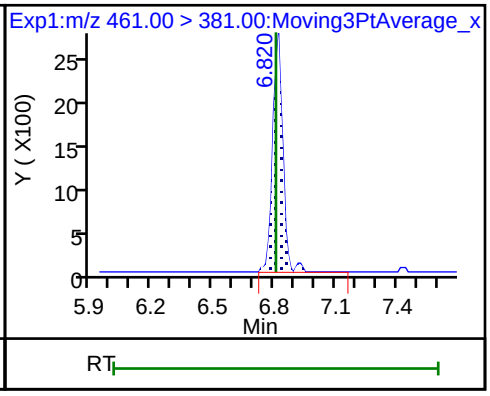
45 8:2FTS



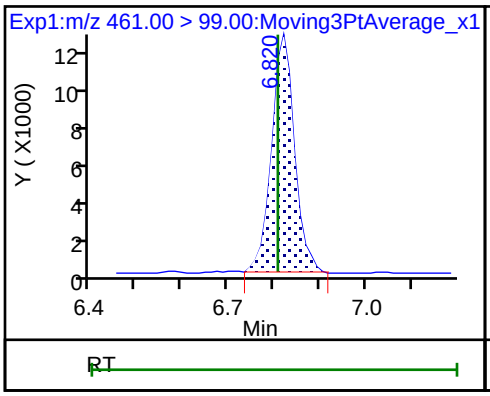
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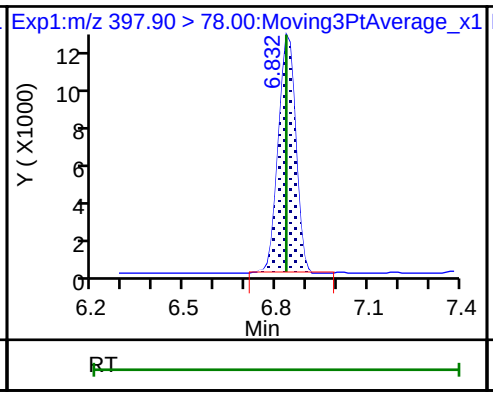
46 PFECHS



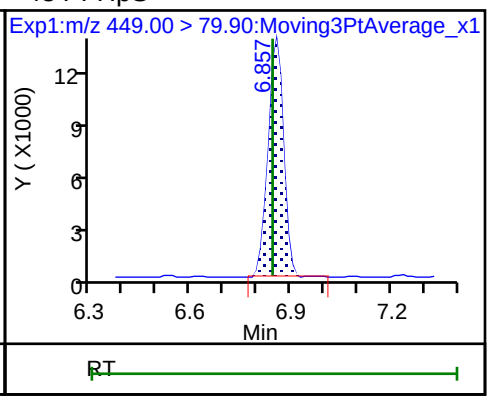
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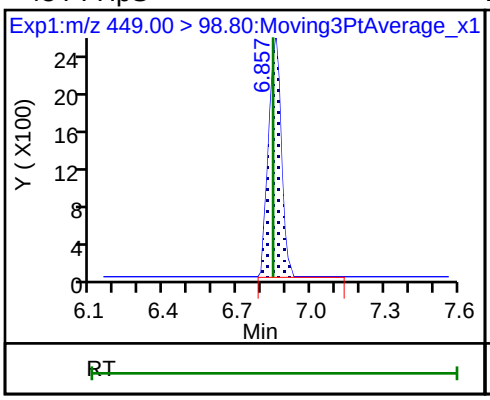
47 FHxSA



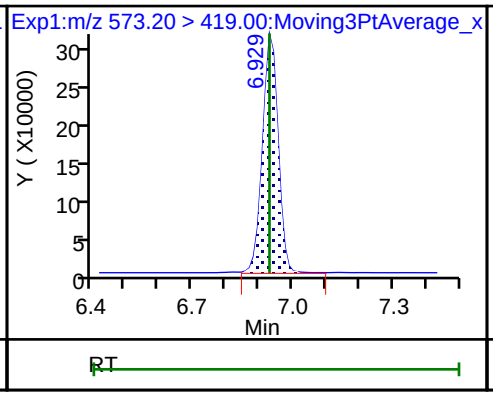
48 PFHpS



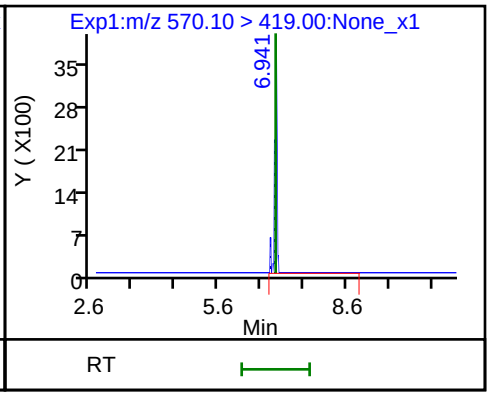
48 PFHpS



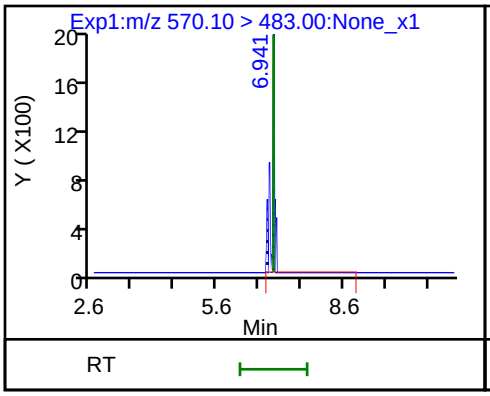
D 49 d3-NMeFOSAA



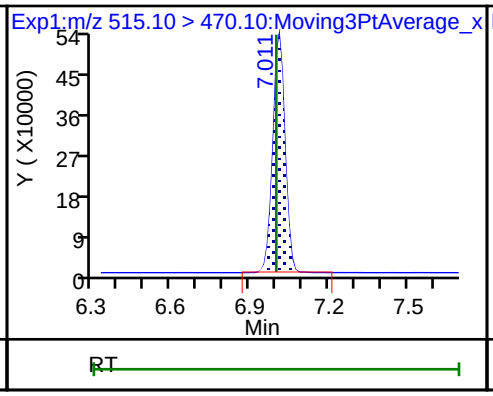
50 NMeFOSAA



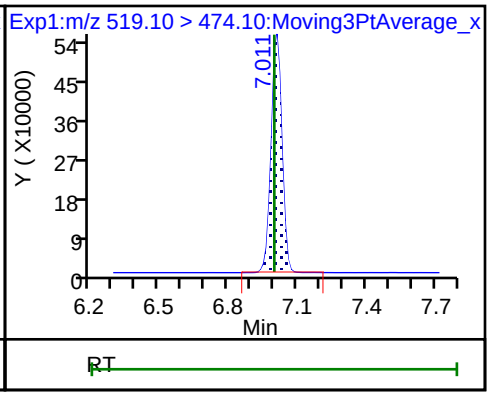
50 NMeFOSAA



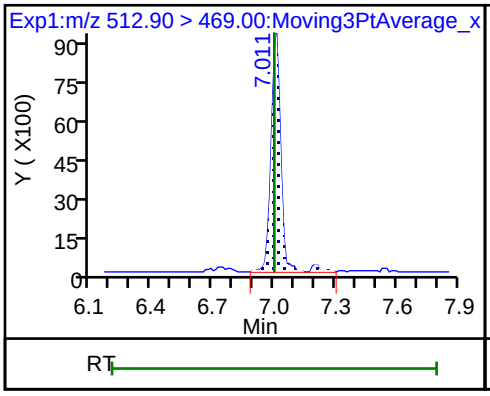
* 51 13C2 PFDA



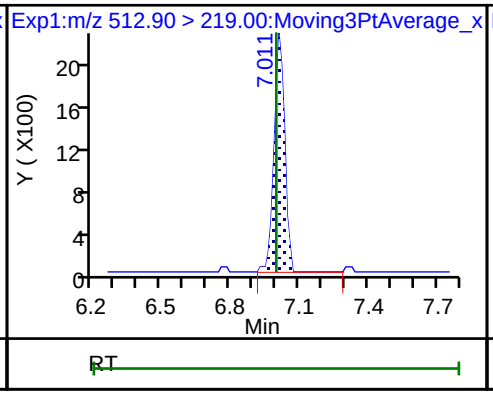
D 52 13C6 PFDA



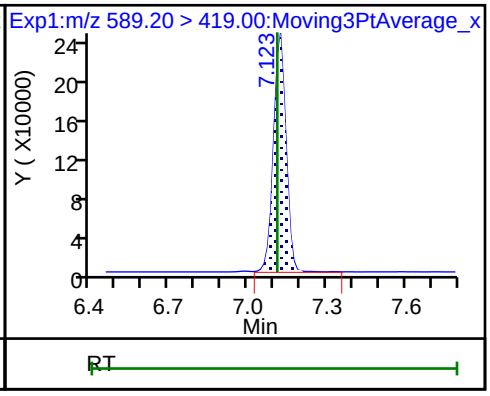
53 PFDA



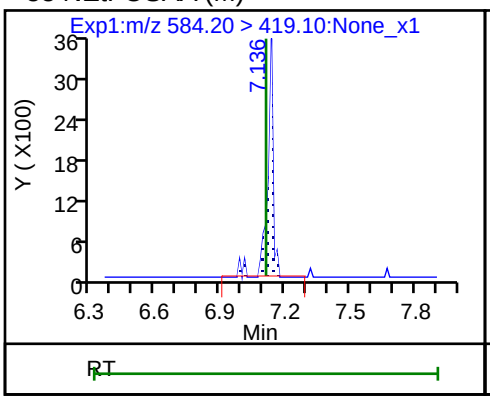
53 PFDA



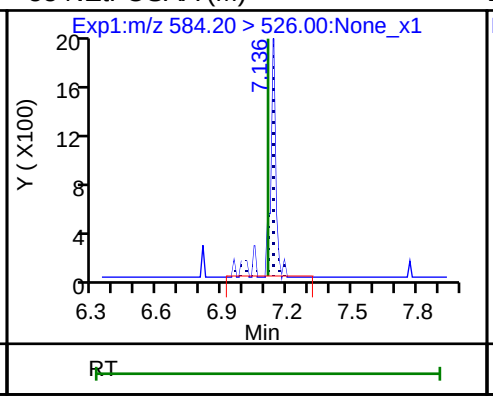
D 54 d5-NEtFOSAA



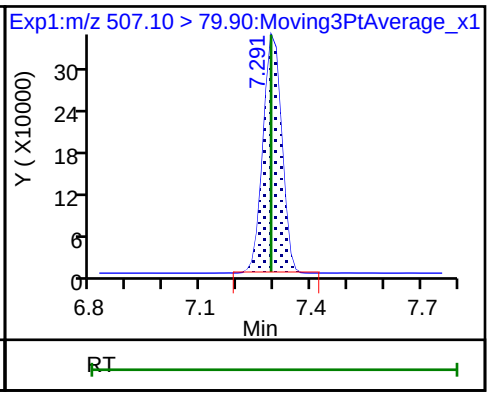
55 NEtFOSAA (M)



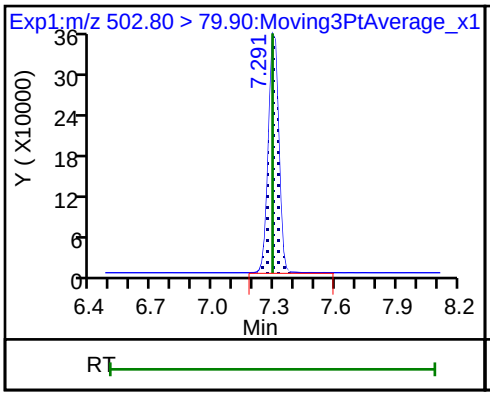
55 NEtFOSAA (M)



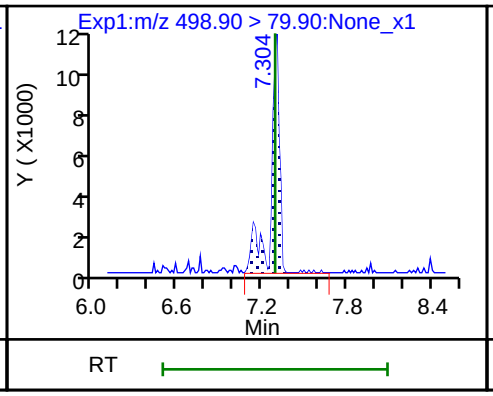
D 56 13C8 PFOS



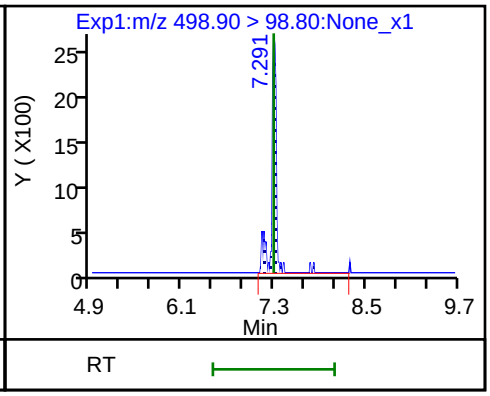
* 57 13C4 PFOS



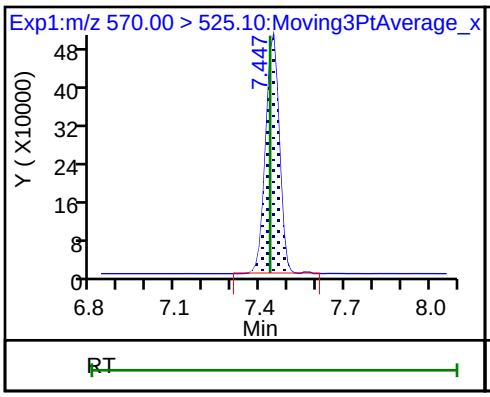
58 PFOS



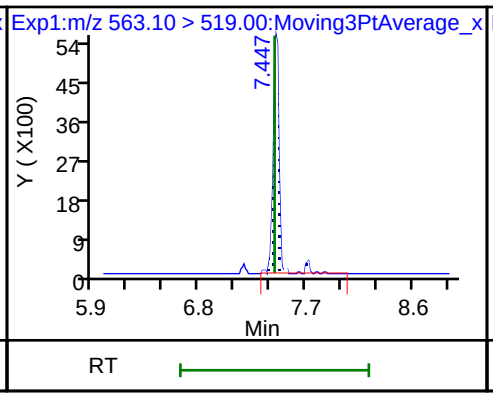
58 PFOS



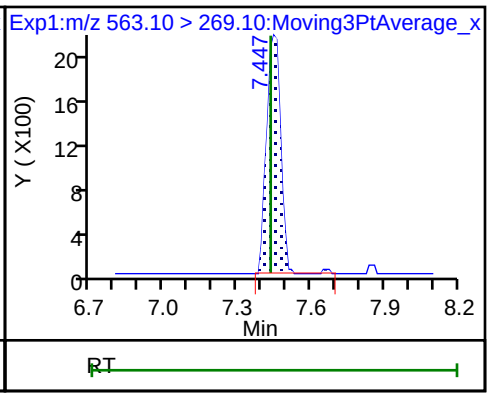
D 59 13C7 PFUnA



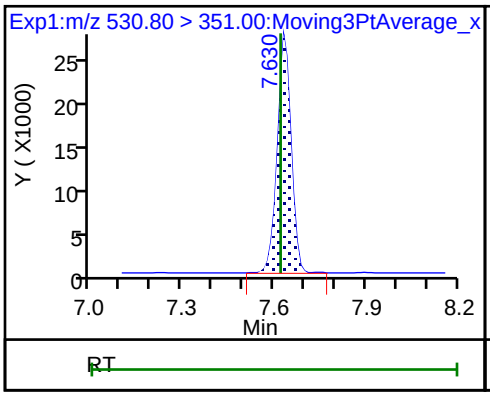
60 PFUnA



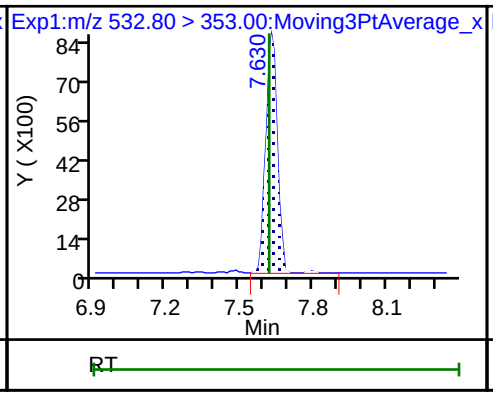
60 PFUnA



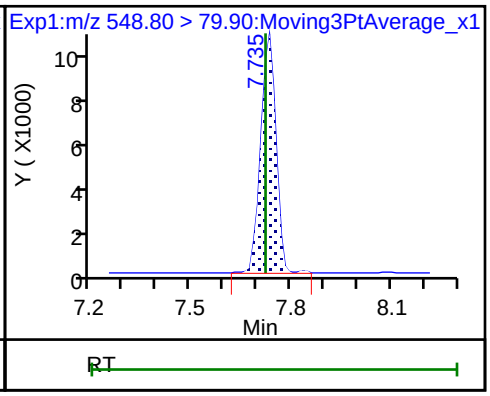
61 9ClFOS



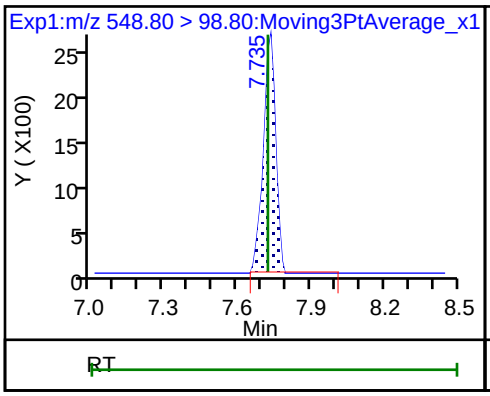
61 9ClFOS



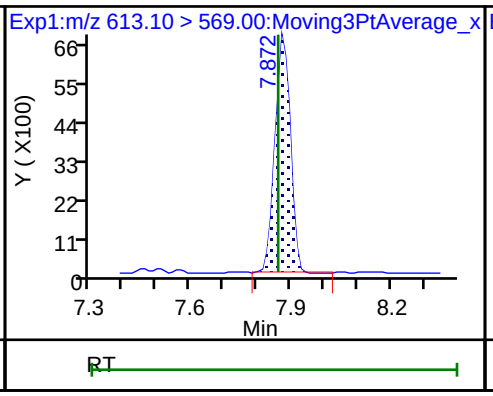
62 PFNS



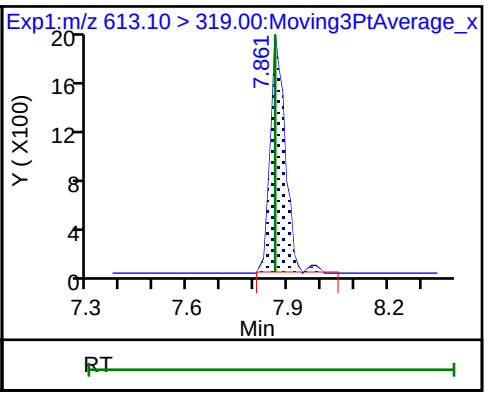
62 PFNS



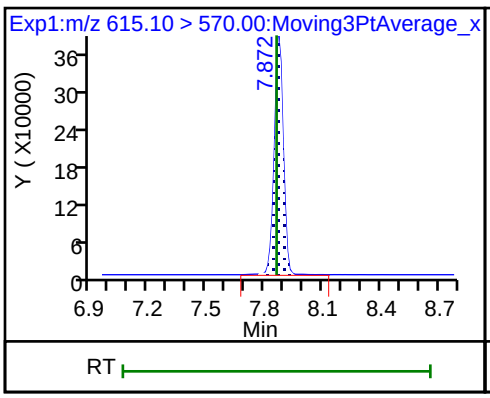
63 PFDoA



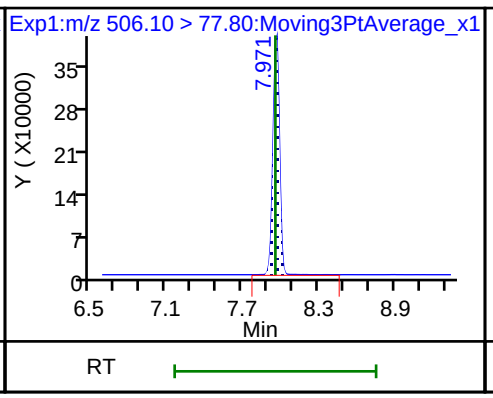
63 PFDoA



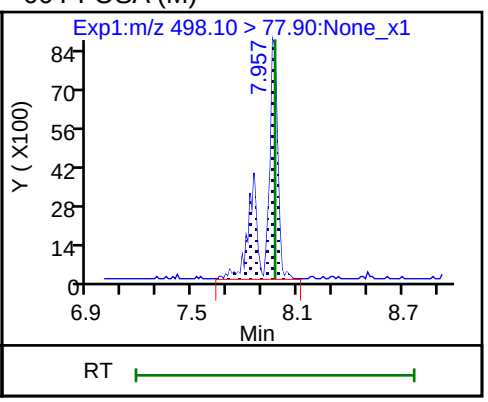
D 64 13C2 PFDoA



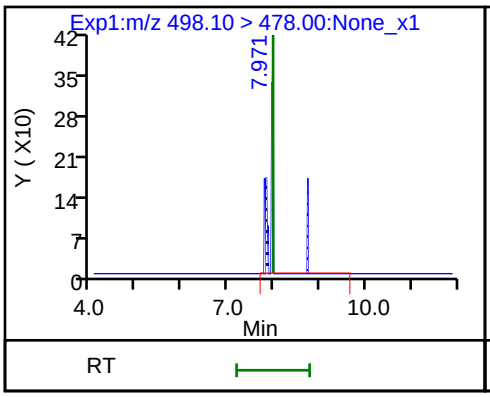
D 65 13C8 FOSA



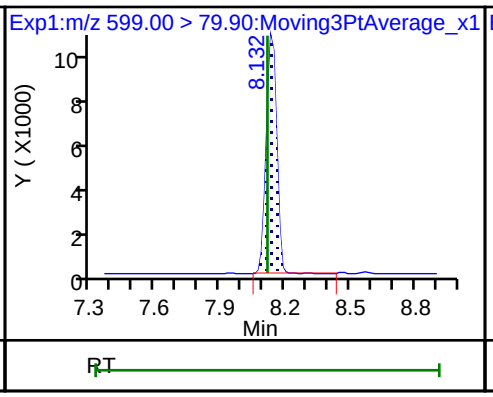
66 PFOSA (M)



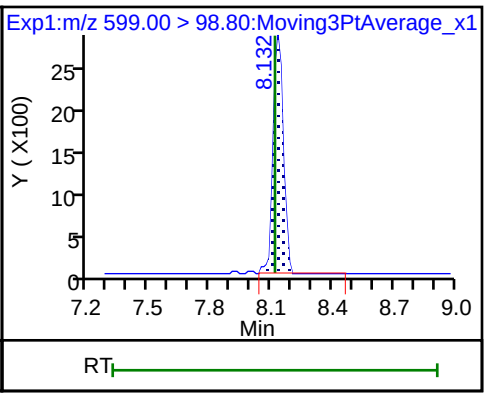
66 PFOSA



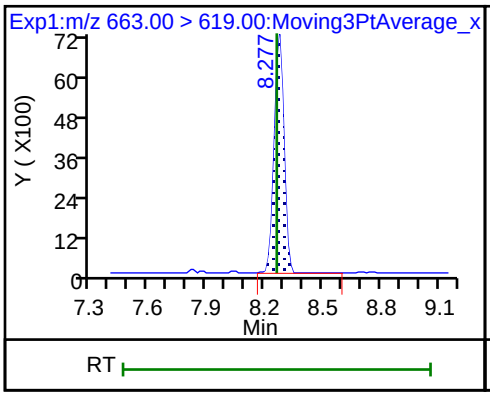
67 PFDS



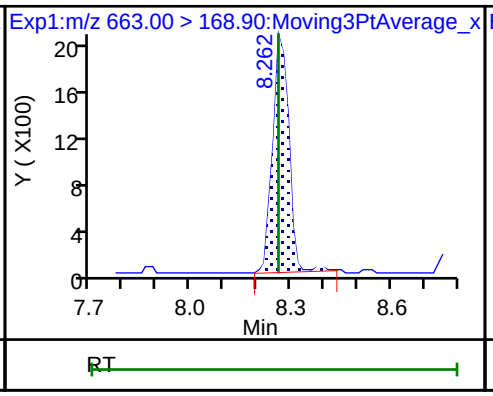
67 PFDS



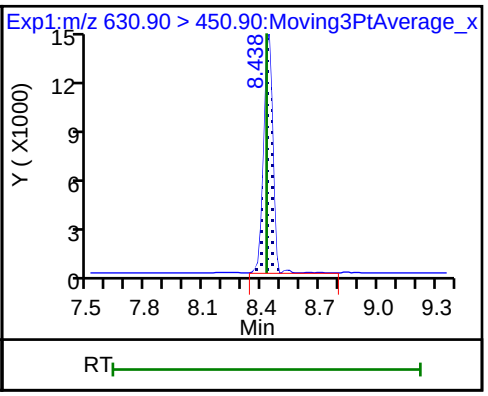
68 PFTrDA



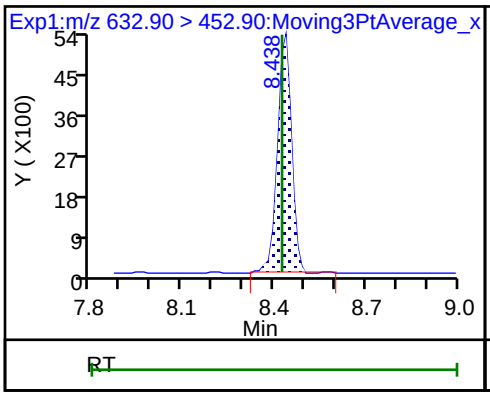
68 PFTrDA



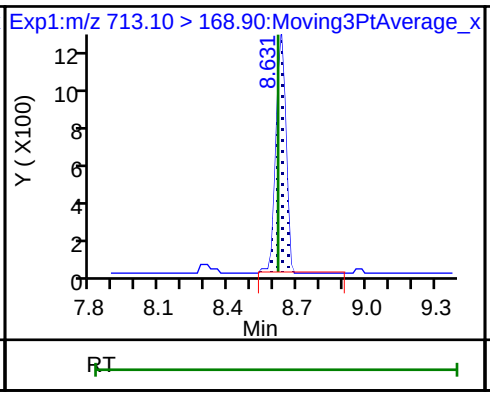
69 11ClFOS



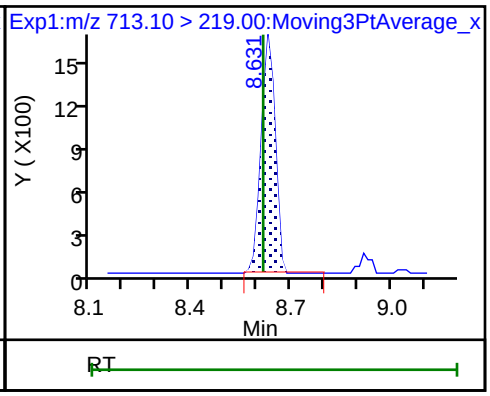
69 11ClFOS



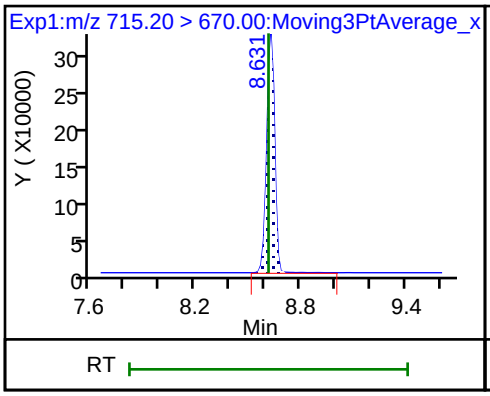
70 PFTeDA



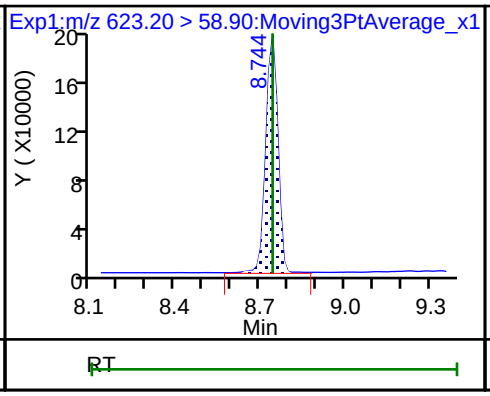
70 PFTeDA



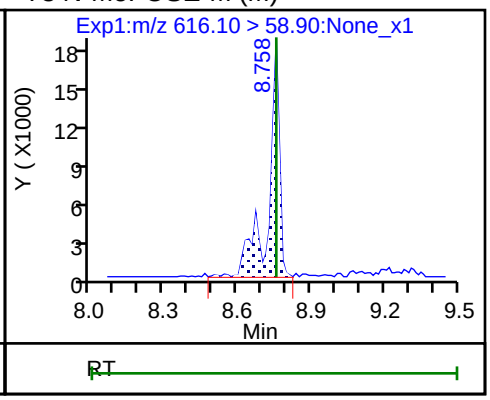
D 71 13C2 PFTeDA



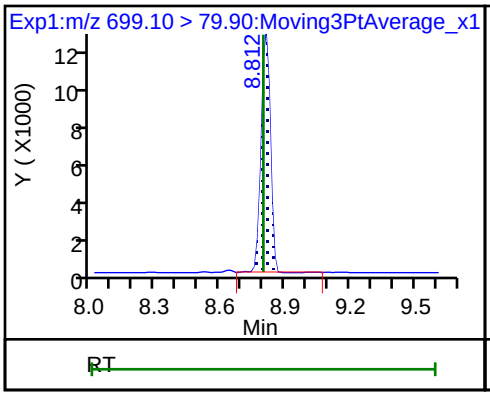
D 72 d7-N-Me-FOSE



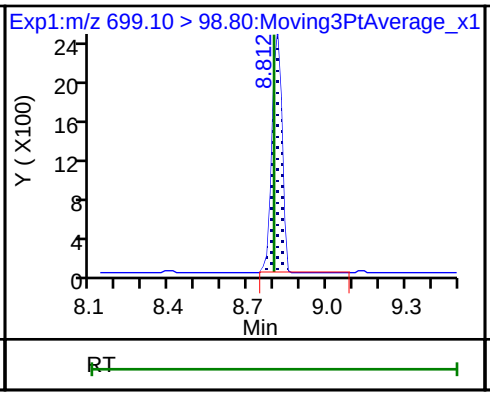
73 N-MeFOSE-M (M)



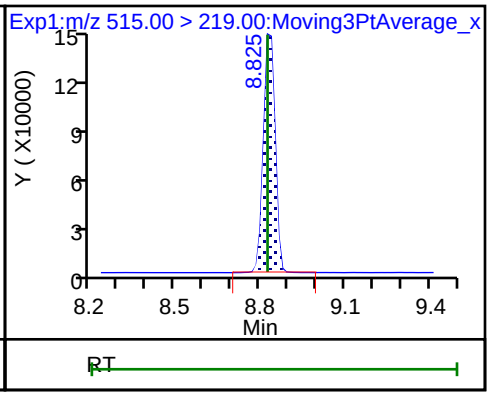
74 PFDoS



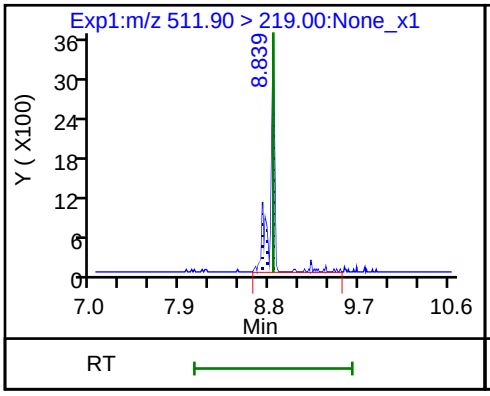
74 PFDoS



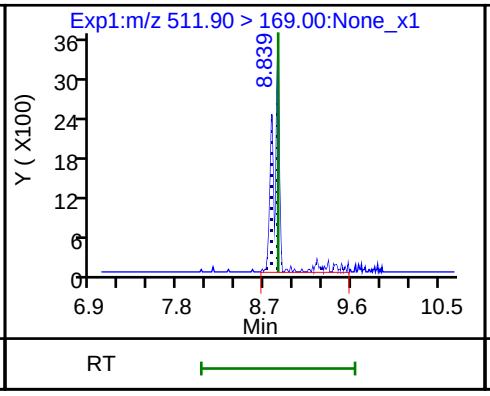
D 75 d3-NMePFOSA



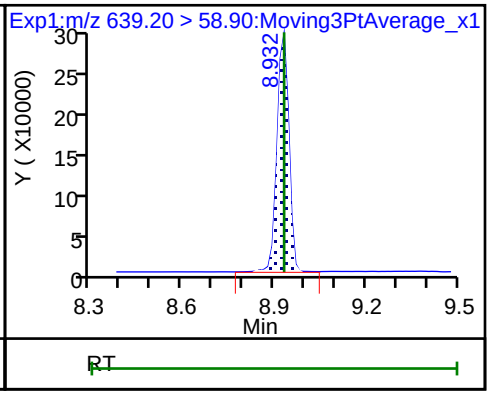
76 NMeFOSA



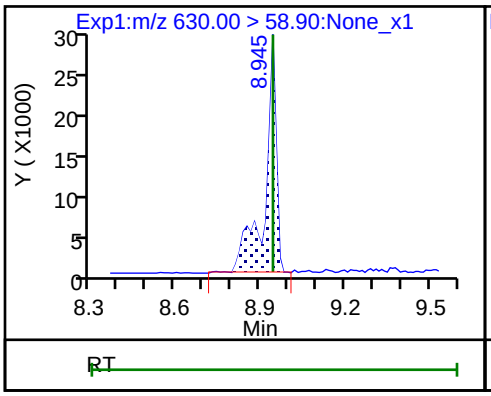
76 NMeFOSA



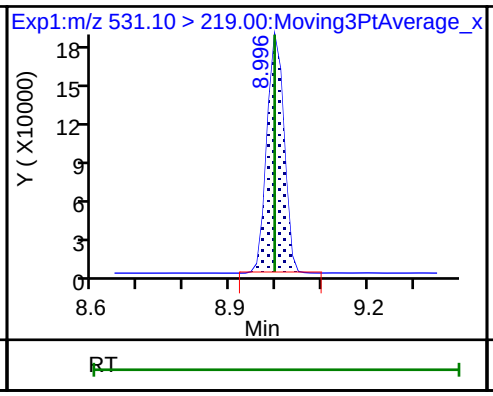
D 77 d9-N-EtFOSE



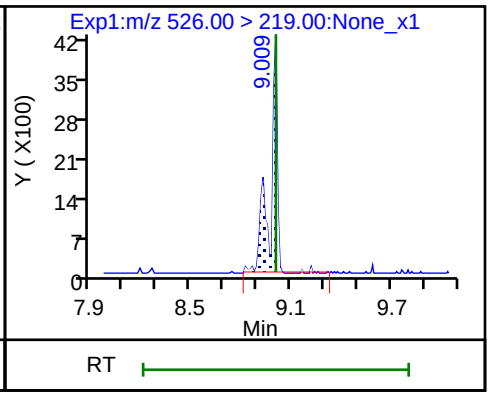
78 N-EtFOSE-M



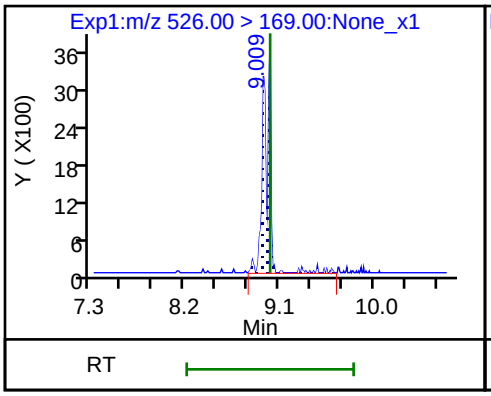
D 79 d5-NEtPFOSA



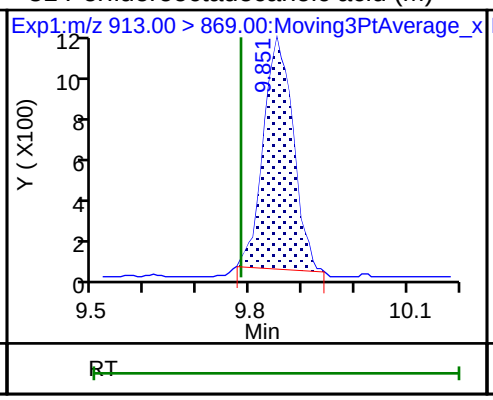
80 N-EtFOSA-M



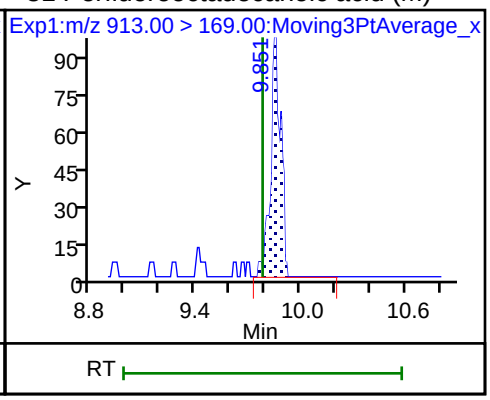
80 N-EtFOSA-M



81 Perfluorooctadecanoic acid (M)



81 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

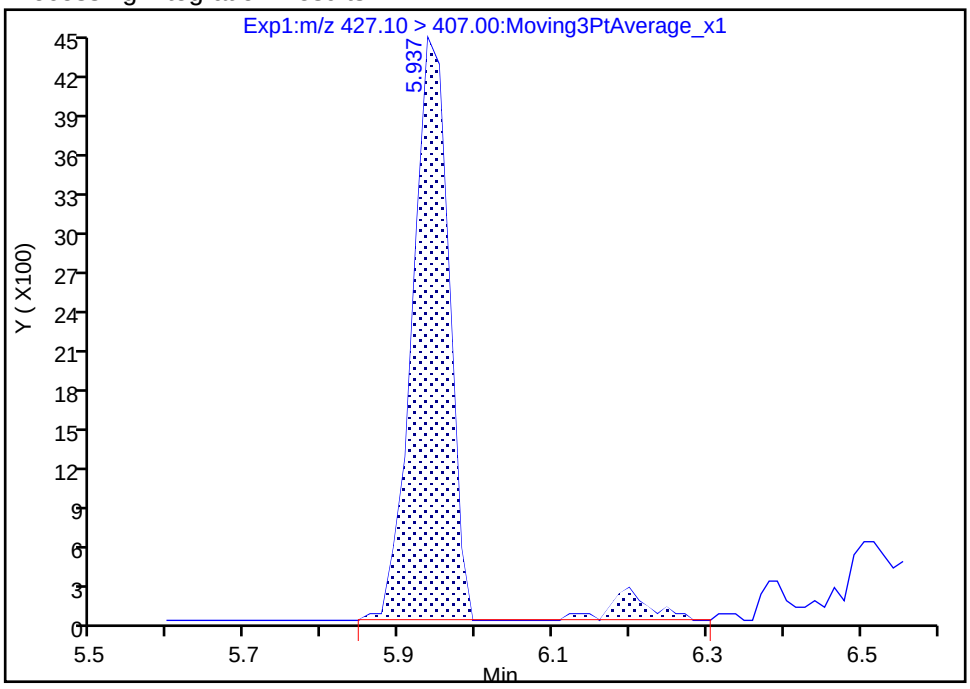
Data File:	\\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-01.d				
Injection Date:	29-Jan-2026 00:38:56	Instrument ID:	30576		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

31 6:2FTS, CAS: 27619-97-2

Signal: 1

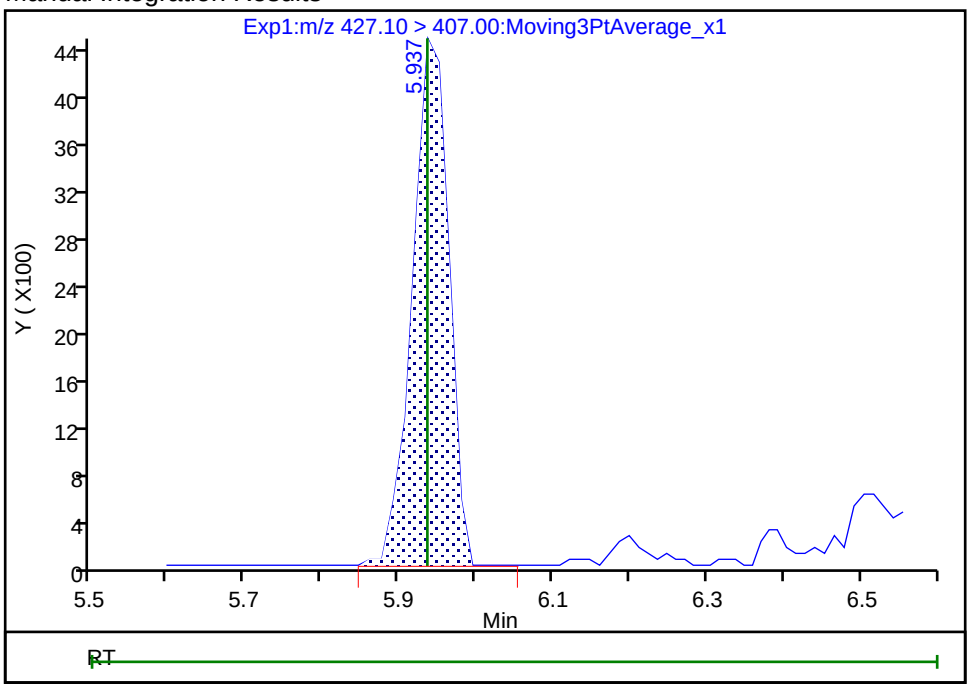
Processing Integration Results

RT: 5.94
Area: 15468
Amount: 0.091743
Amount Units: ng/ml



Manual Integration Results

RT: 5.94
Area: 14567
Amount: 0.087098
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:51:13 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

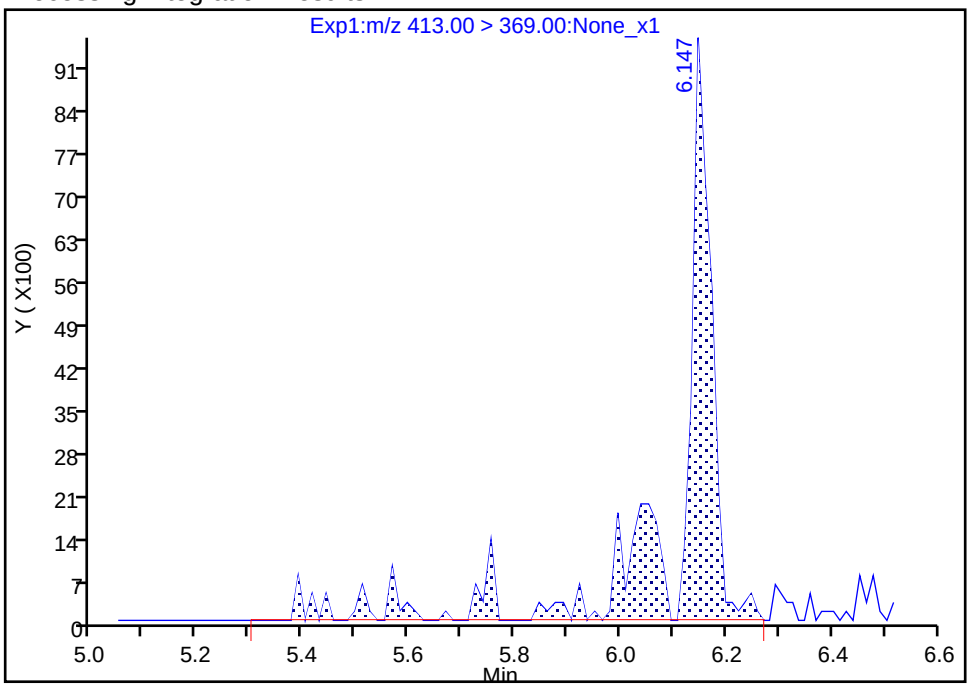
Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-01.d
Injection Date: 29-Jan-2026 00:38:56 Instrument ID: 30576
Lims ID: IC CAL 1
Client ID:
Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL
Column: Detector EXP1

34 PFOA, CAS: 335-67-1

Signal: 1

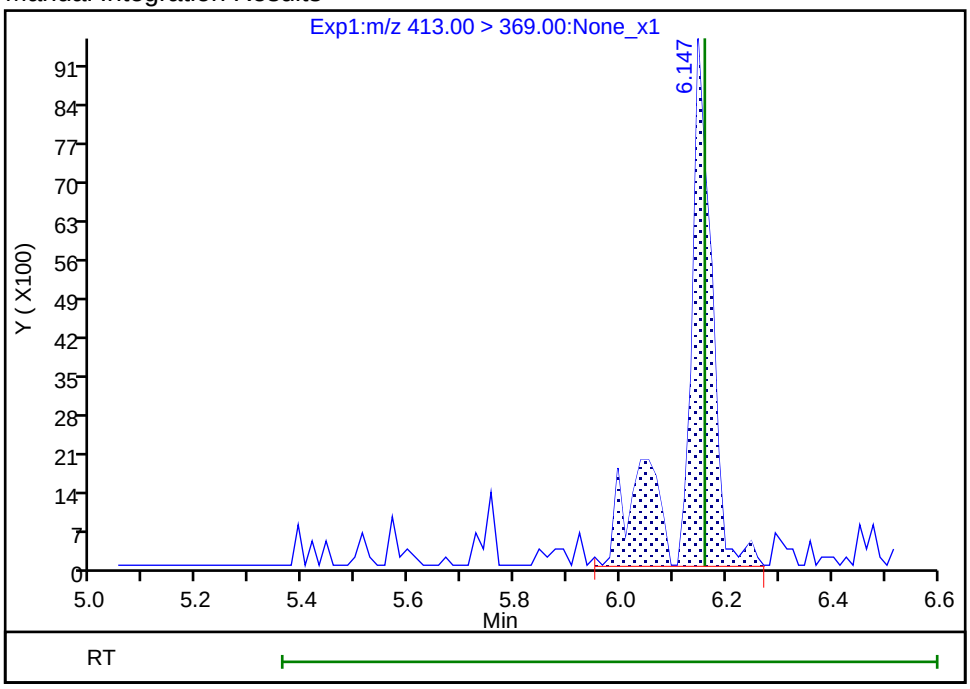
Processing Integration Results

RT: 6.15
Area: 39353
Amount: 0.053664
Amount Units: ng/ml



Manual Integration Results

RT: 6.15
Area: 32469
Amount: 0.045341
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:51:19 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

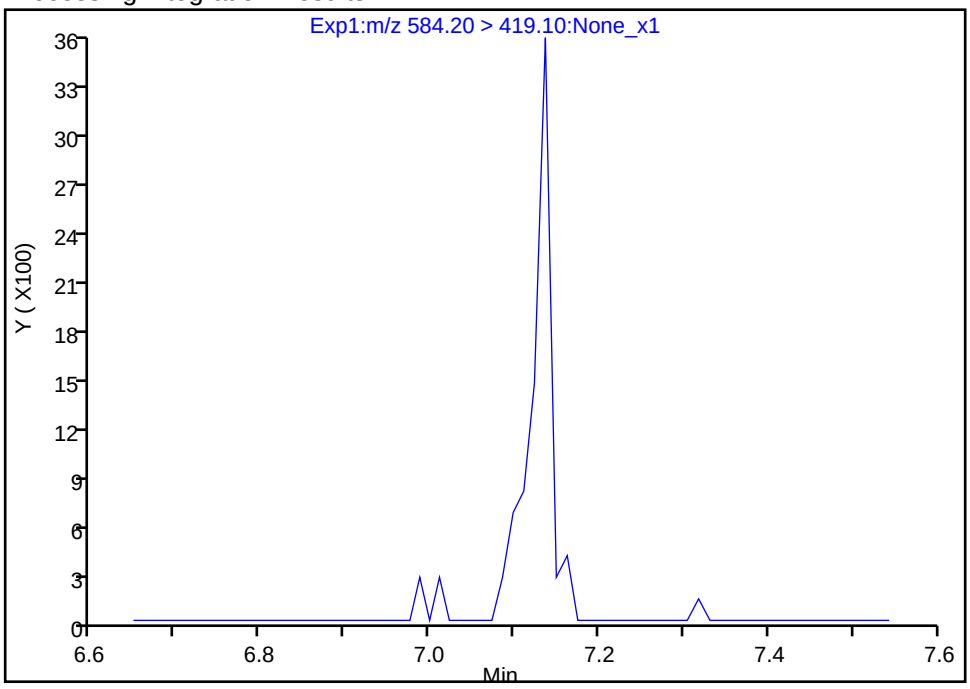
Data File:	\\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-01.d				
Injection Date:	29-Jan-2026 00:38:56	Instrument ID:	30576		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

55 NEtFOSAA, CAS: 2991-50-6

Signal: 1

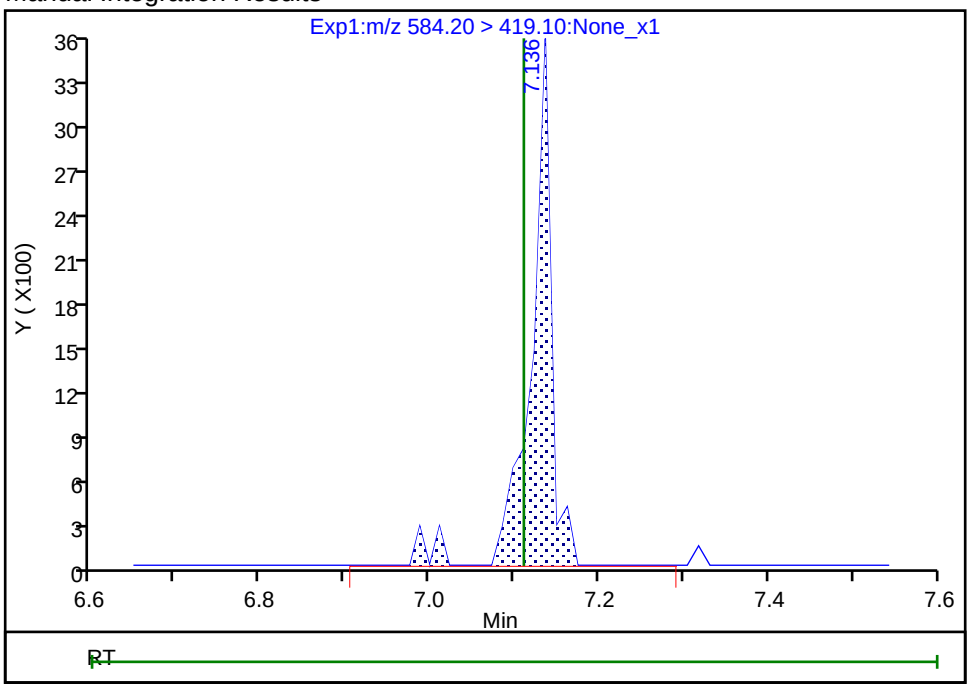
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.14
Area: 6101
Amount: 0.046886
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:51:32 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

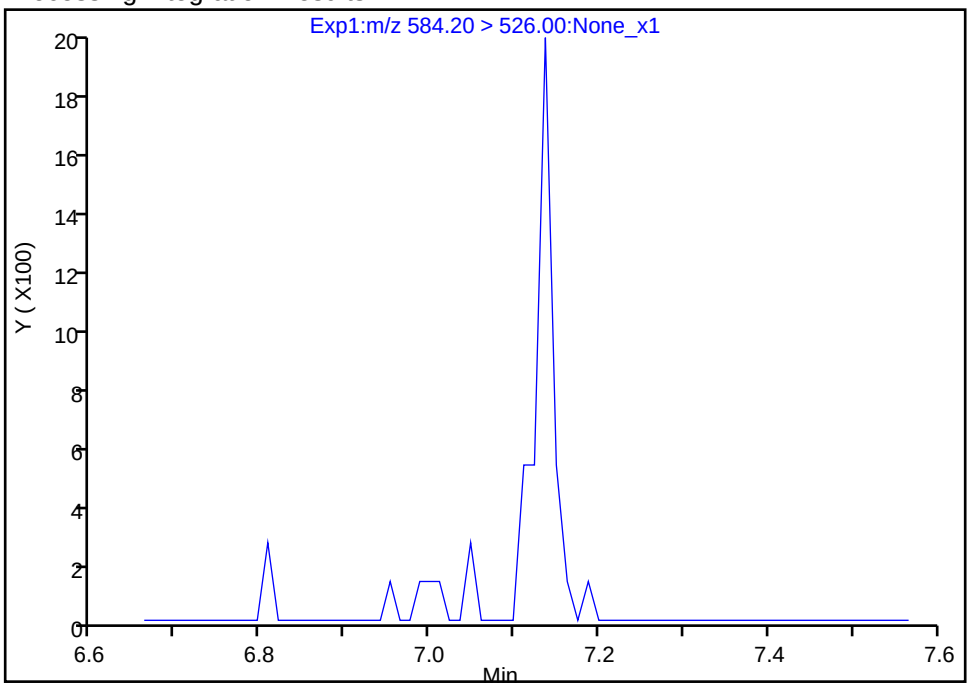
Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-01.d
Injection Date: 29-Jan-2026 00:38:56 Instrument ID: 30576
Lims ID: IC CAL 1
Client ID:
Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL
Column: Detector EXP1

55 NEtFOSAA, CAS: 2991-50-6

Signal: 2

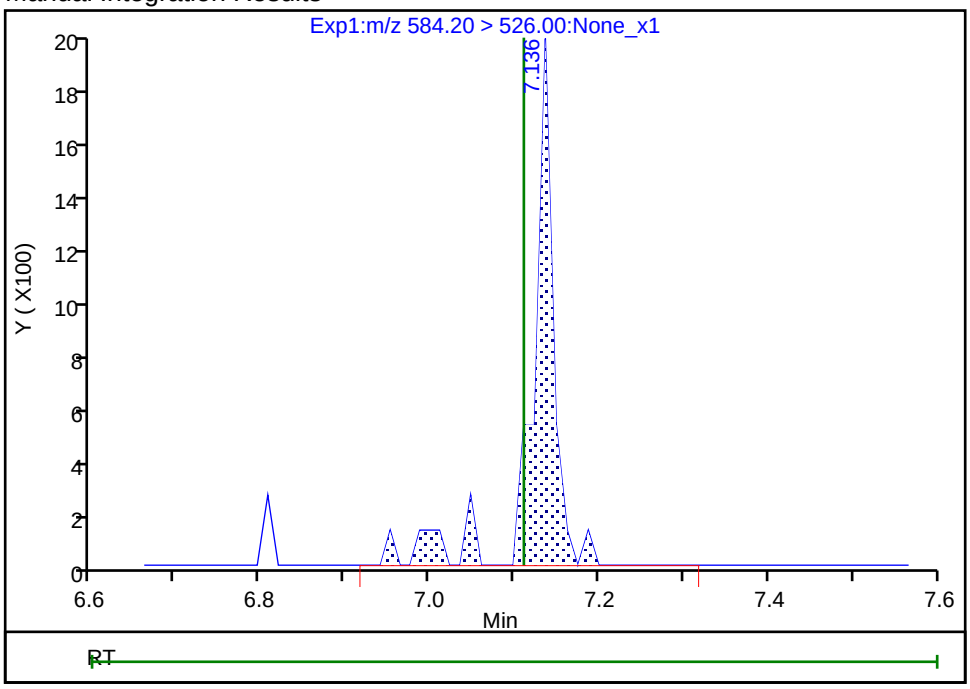
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.14
Area: 3547
Amount: 0.046886
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:51:35 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

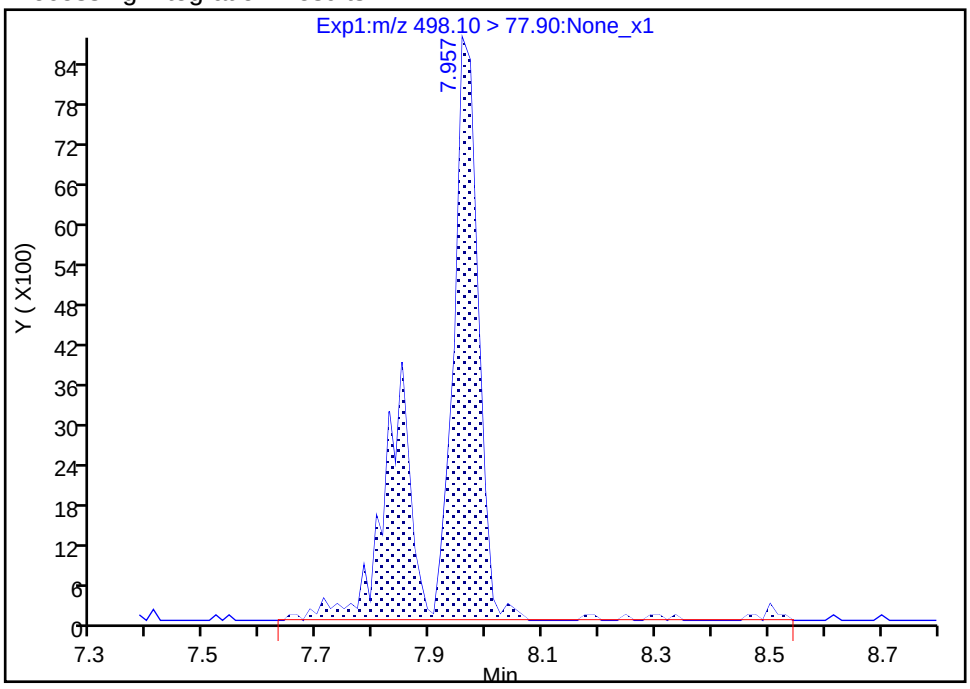
Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-01.d
Injection Date: 29-Jan-2026 00:38:56 Instrument ID: 30576
Lims ID: IC CAL 1
Client ID:
Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL
Column: Detector EXP1

66 PFOSA, CAS: 754-91-6

Signal: 1

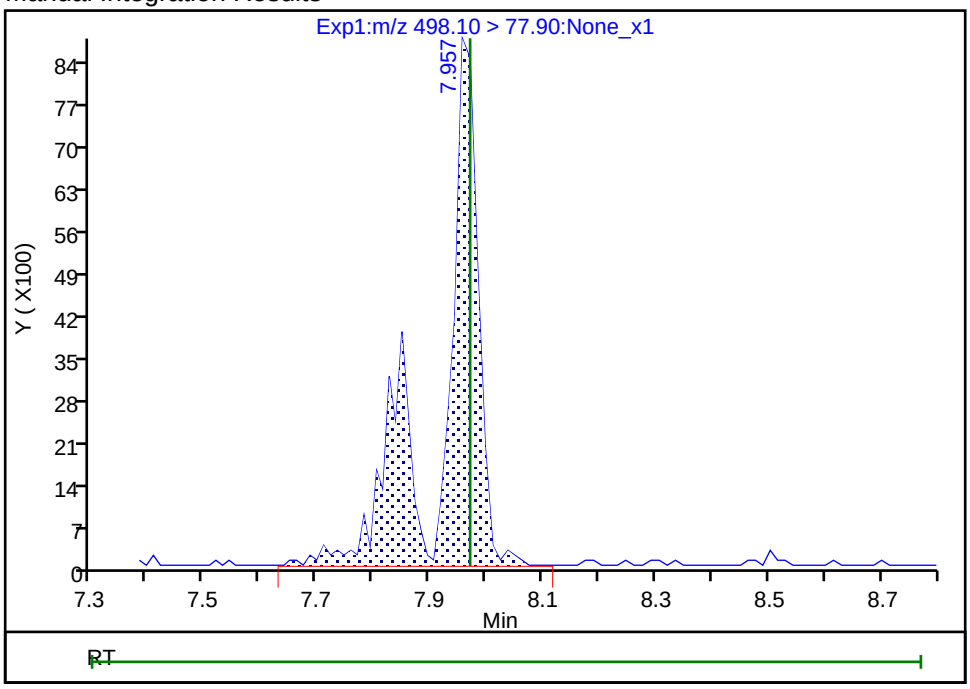
Processing Integration Results

RT: 7.96
Area: 40061
Amount: 0.053645
Amount Units: ng/ml



Manual Integration Results

RT: 7.96
Area: 39167
Amount: 0.052628
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:51:54 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

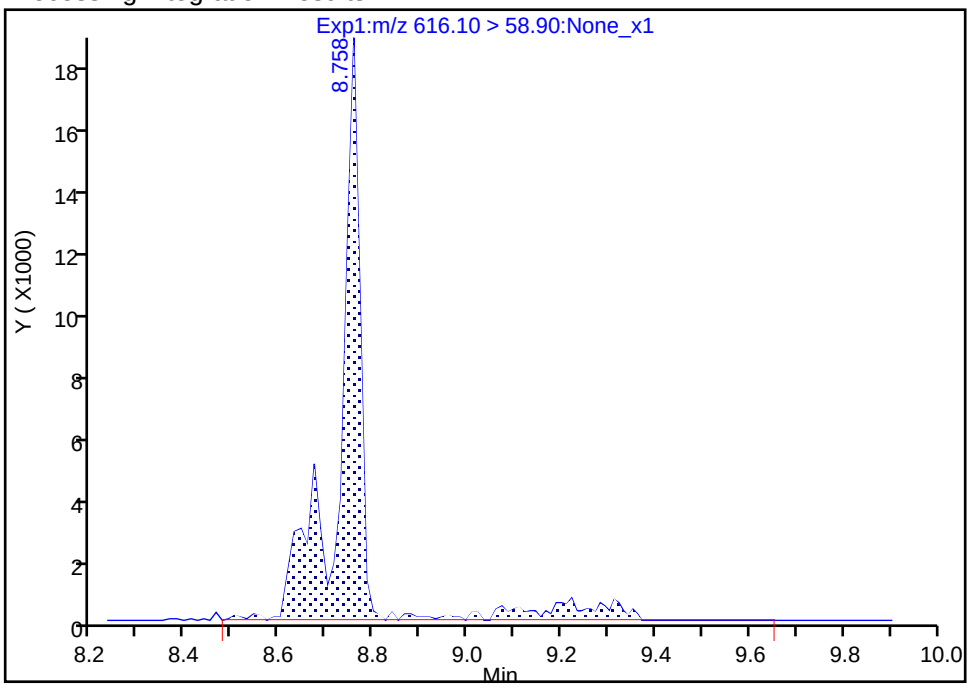
Data File:	\\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-01.d				
Injection Date:	29-Jan-2026 00:38:56	Instrument ID:	30576		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

73 N-MeFOSE-M, CAS: 24448-09-7

Signal: 1

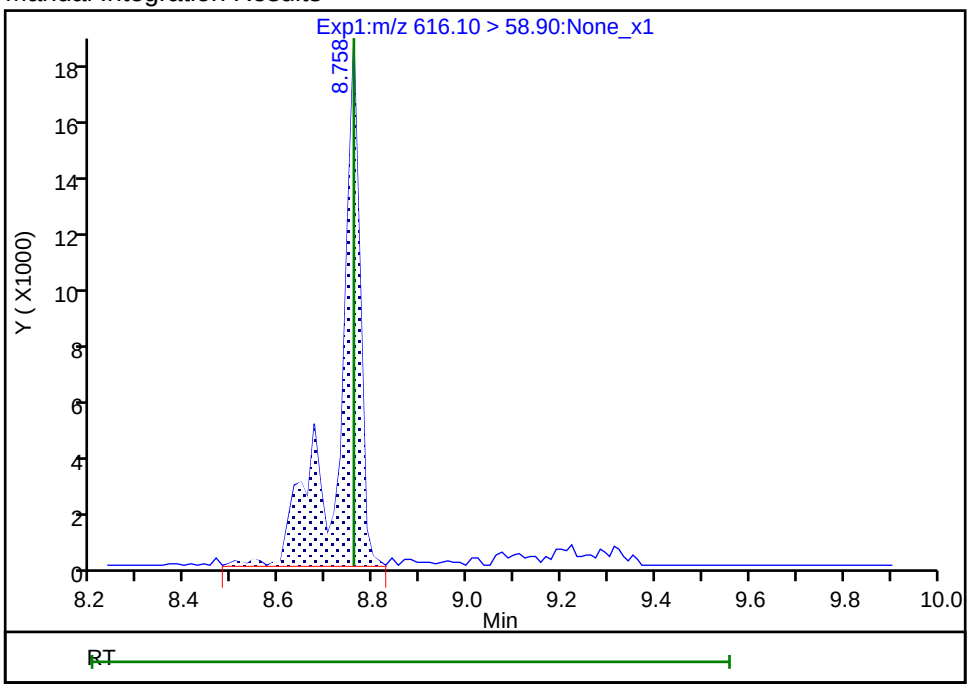
Processing Integration Results

RT: 8.76
Area: 64553
Amount: 0.292930
Amount Units: ng/ml



Manual Integration Results

RT: 8.76
Area: 56000
Amount: 0.259882
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:52:02 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

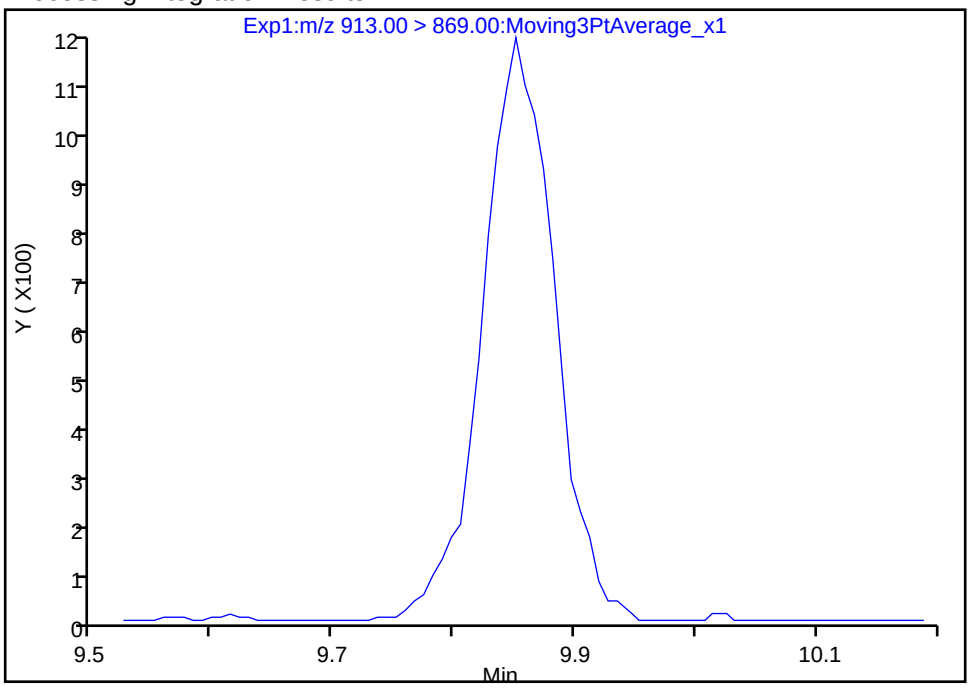
Data File:	\\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-01.d				
Injection Date:	29-Jan-2026 00:38:56	Instrument ID:	30576		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

81 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

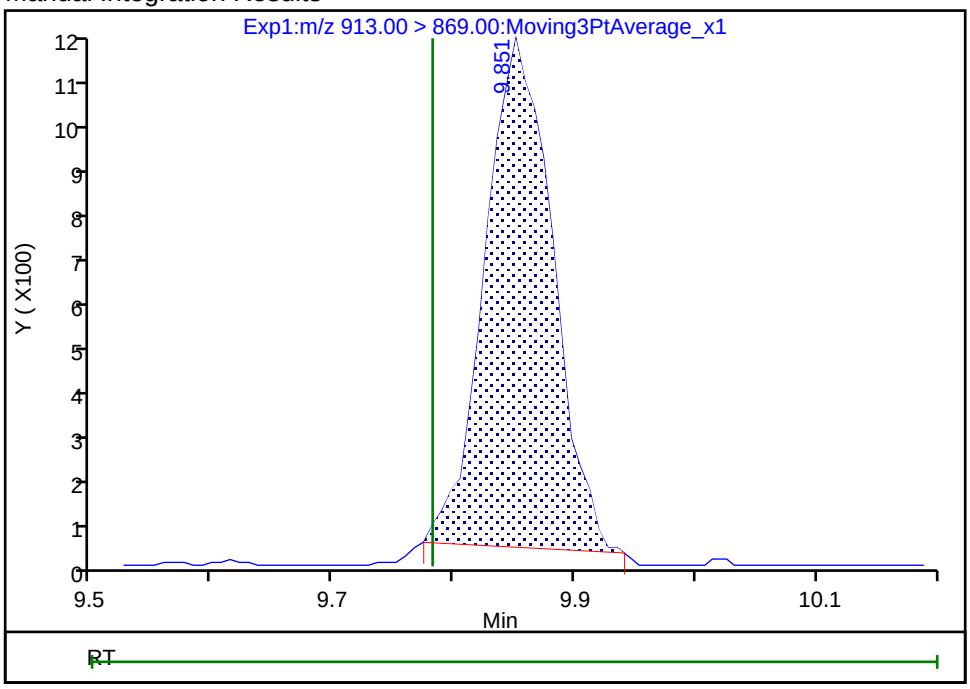
Not Detected
Expected RT: 9.78

Processing Integration Results



Manual Integration Results

RT: 9.85
Area: 4183
Amount: 0.013443
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:52:12 -05:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

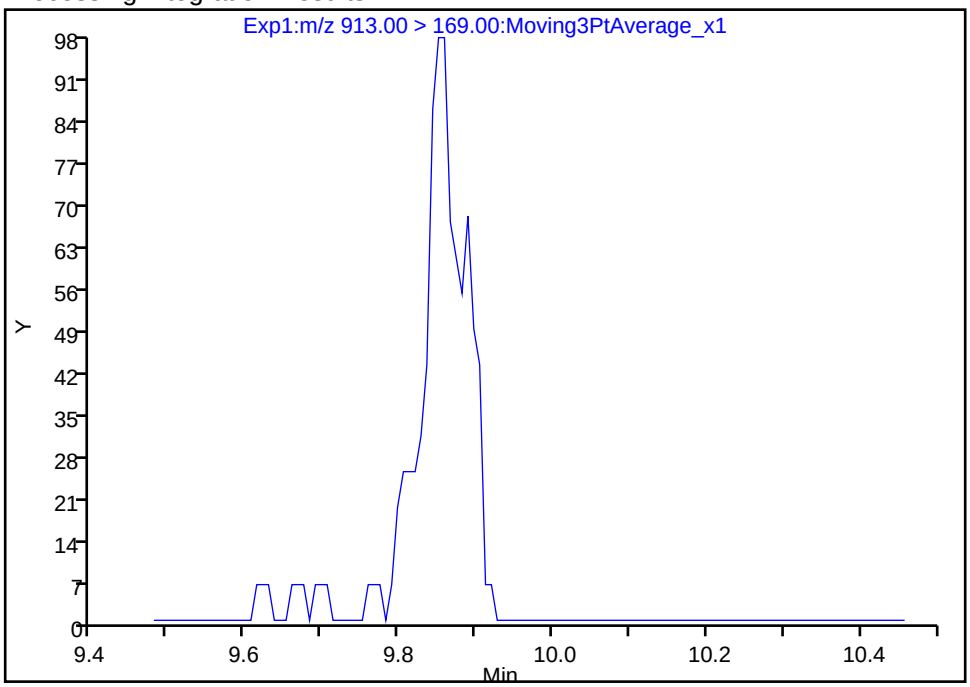
Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-01.d
Injection Date: 29-Jan-2026 00:38:56 Instrument ID: 30576
Lims ID: IC CAL 1
Client ID:
Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL
Column: Detector EXP1

81 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

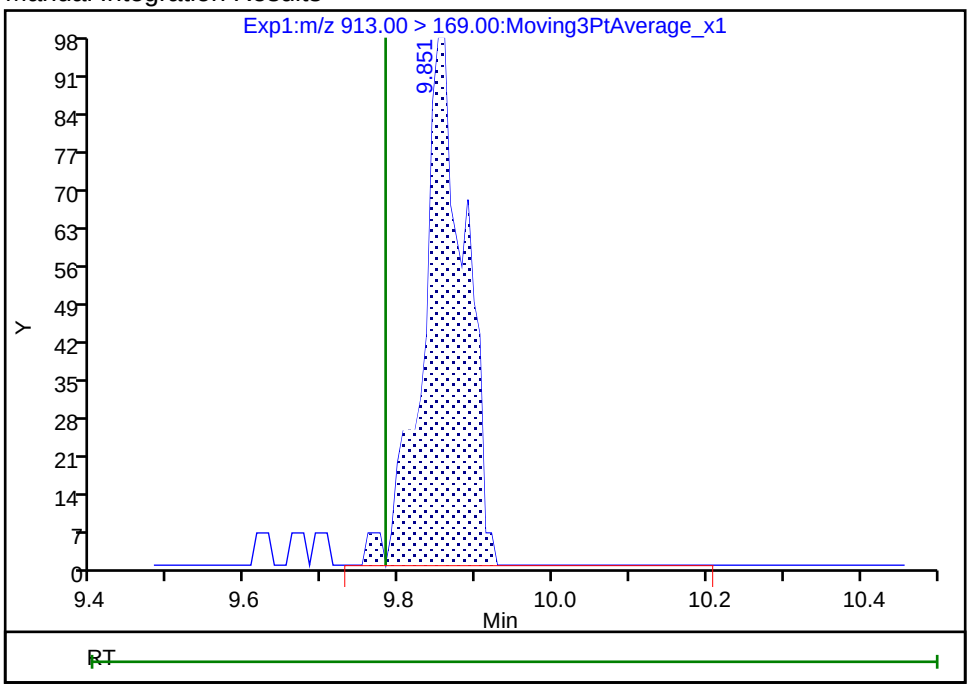
Not Detected
Expected RT: 9.78

Processing Integration Results



Manual Integration Results

RT: 9.85
Area: 379
Amount: 0.013443
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:52:21 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-02.d
Lims ID: IC CAL 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Jan-2026 00:52:31 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL2
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub14

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 12:07:00 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1631

First Level Reviewer: M4QQ Date: 29-Jan-2026 06:53:41
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 13C3PFPrA										
166.00 > 121.00	2.017	2.008	0.009	0.482	1212139	2.02		101	516	
2 Perfluoropropionic acid										
163.00 > 119.00	2.000	2.033	-0.033	0.992	350671	0.6329		101	715	
3 PFBA										
212.80 > 168.90	4.180	4.179	0.001	1.000	171398	0.2601		104	1778	
D 4 13C4-PFBA										
216.80 > 171.90	4.180	4.187	-0.007	1.000	1441568	1.99		99.6	6631	
* 5 13C3PFBA										
216.00 > 172.00	4.180	4.187	-0.007		1384617	2.00			616	
6 PFMPA										
229.00 > 84.90	4.511	4.508	0.003	0.931	97339	0.1283		103	854	
7 3:3 FTCA										
241.00 > 177.00	4.511	4.518	-0.007	0.931	11152	0.2706	Target=1.25	108	291	
241.00 > 117.00	4.511	4.518	-0.007	0.931	8666		1.29(0.63-1.88)	108	60.6	
D 8 13C5 PFPeA										
268.30 > 223.00	4.843	4.842	0.001	0.914	908909	2.05		103	5448	
9 PFPA										
263.00 > 219.00	4.843	4.850	-0.007	1.000	101573	0.1203		96.2	219	
10 PFMBA										
279.00 > 85.10	4.990	4.999	-0.009	1.030	127143	0.1317		105	916	
D 12 13C2-4:2FTS										
329.10 > 80.90	5.113	5.123	-0.010	0.800	535634	4.55		97.0	2368	
13 4:2FTS										
327.10 > 307.00	5.113	5.123	-0.010	1.000	43911	0.2310	Target=1.50	98.5	518	
327.10 > 80.90	5.113	5.123	-0.010	1.000	34469		1.27(0.75-2.24)	98.5	174	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.258	5.271	-0.013	0.992	42052	0.1358	Target=1.42	109	318	
295.00 > 84.90	5.272	5.271	0.001	0.995	29608		1.42(0.71-2.13)	109	186	
D 15 13C5 PFHxA										
318.00 > 273.00	5.299	5.312	-0.013	1.000	1764316	2.03		101	4953	
* 16 13C2 PFHxA										
315.10 > 270.00	5.299	5.312	-0.013		3807736	5.00			13283	
17 PFHxA										
313.00 > 269.00	5.313	5.312	0.001	1.003	97241	0.1277	Target=11.34	102	136	
313.00 > 118.90	5.313	5.312	0.001	1.003	7476		13.01(5.67-17.02)	102	60.8	
18 5:3 FTCA										
341.00 > 237.10	5.362	5.375	-0.012	1.012	62709	0.6374	Target=0.84	102	382	
341.00 > 217.00	5.362	5.375	-0.012	1.012	72595		0.86(0.42-1.26)	102	196	
19 FBSA										
297.90 > 78.00	5.442	5.441	0.001	0.998	112534	0.1197		95.7	710	
D 20 13C3 PFBS										
302.10 > 79.90	5.455	5.454	0.001	0.854	1663415	1.91		103	8904	
21 PFBS										
298.70 > 79.90	5.455	5.454	0.001	1.000	108722	0.1157	Target=3.25	104	326	
298.70 > 98.80	5.455	5.454	0.001	1.000	31625		3.44(1.62-4.87)	104	218	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.496	5.495	0.001	1.037	1476415	1.96		98.0	4225	
23 HFPO-DA										
284.90 > 168.90	5.496	5.495	0.001	1.000	68390	0.0930	Target=2.31	99.2	209	
284.90 > 184.90	5.496	5.495	0.001	1.000	30428		2.25(1.15-3.46)	99.2	153	
26 PFEESA										
314.80 > 134.90	5.696	5.697	-0.001	1.075	248028	0.1068	Target=11.22	95.8	662	
314.80 > 82.90	5.696	5.697	-0.001	1.075	22981		10.79(5.61-16.83)	95.8	113	
27 PFHpA										
363.10 > 319.00	5.739	5.740	-0.001	1.000	85635	0.1198	Target=2.31	95.8	182	
363.10 > 169.00	5.739	5.740	-0.001	1.000	41128		2.08(1.16-3.47)	95.8	113	
D 28 13C4 PFHpA										
367.10 > 322.00	5.739	5.740	-0.001	1.083	1700514	1.98		99.0	5712	
29 ADONA										
376.90 > 250.90	5.891	5.892	-0.001	1.072	222208	0.1263	Target=1.98	107	812	
376.90 > 84.80	5.891	5.892	-0.001	1.072	114840		1.93(0.99-2.97)	107	174	
D 30 13C2-6:2FTS										
429.10 > 80.90	5.936	5.936	0.0	0.929	480145	4.95		104	2346	
31 6:2FTS										
427.10 > 407.00	5.936	5.936	0.0	1.000	44913	0.2687	Target=1.40	113	76.9	
427.10 > 80.90	5.936	5.936	0.0	1.000	32512		1.38(0.70-2.10)	113	52.9	
32 PFPeS										
349.10 > 79.90	5.950	5.951	-0.001	0.931	113417	0.1258	Target=3.31	107	304	
349.10 > 98.90	5.950	5.951	-0.001	0.931	33370		3.40(1.65-4.96)	107	10103	
33 BTS										
280.00 > 147.00	6.120	6.121	-0.001	0.958	277790	0.1319		108	959	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 PFOA										
413.00 > 369.00	6.146	6.160	-0.014	0.998	94768	0.1412	Target=1.89	113	92.7	
413.00 > 169.00	6.160	6.160	0.0	1.000	45696		2.07(0.95-2.84)	113	61.1	
D 35 13C8 PFOA										
421.10 > 376.00	6.160	6.160	0.0	1.000	2109358	2.05		103	5826	
* 36 13C4 PFOA										
417.10 > 372.00	6.160	6.160	0.0		5137579	5.00			9868	
37 7:3 FTCA										
441.00 > 316.90	6.211	6.212	-0.001	1.172	32784	0.6469	Target=0.34	104	113	
441.00 > 336.90	6.211	6.212	-0.001	1.172	101636		0.32(0.17-0.50)	104	425	
39 PFHxS										
398.70 > 79.90	6.392	6.404	-0.012	1.000	84682	0.1211	Target=3.47	106	110	
398.70 > 98.90	6.404	6.404	0.0	1.002	22163		3.82(1.73-5.20)	106	26.5	
* 40 18O2 PFHxS										
403.00 > 83.90	6.392	6.404	-0.012		1463655	1.90			9073	
D 38 13C3 PFHxS										
402.10 > 79.90	6.392	6.404	-0.012	1.000	1536455	1.94		102	8488	
D 41 13C9 PFNA										
472.10 > 427.00	6.581	6.568	0.013	1.000	1802169	2.02		101	4766	
42 PFNA										
463.00 > 419.00	6.581	6.568	0.013	1.000	118861	0.1364	Target=2.73	109	124	
463.00 > 219.00	6.581	6.568	0.013	1.000	38459		3.09(1.37-4.09)	109	66.5	
* 43 13C5 PFNA										
468.00 > 423.00	6.581	6.581	0.0		1900938	2.00			6566	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.757	6.758	-0.001	1.057	447544	4.84		101	1683	
45 8:2FTS										
527.10 > 507.00	6.757	6.770	-0.013	1.000	32793	0.2637	Target=1.55	110	10354	
527.10 > 80.80	6.757	6.770	-0.013	1.000	18707		1.75(0.78-2.33)	110	104	
46 PFECHS										a
461.00 > 381.00	6.807	6.808	-0.001	1.065	33370	0.1369	Target=0.25	118	46.6	a
461.00 > 99.00	6.820	6.808	0.012	1.067	111014		0.30(0.13-0.38)	118	329	
47 FHxSA										
397.90 > 78.00	6.832	6.832	0.0	1.069	141466	0.1260		101	627	
48 PFHpS										
449.00 > 79.90	6.844	6.845	-0.001	0.939	95966	0.1116	Target=4.28	93.6	609	
449.00 > 98.80	6.844	6.845	-0.001	0.939	23636		4.06(2.14-6.42)	93.6	97.0	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.929	6.929	0.0	0.950	956237	4.84		96.8	2246	
50 NMeFOSAA										
570.10 > 419.00	6.929	6.929	0.0	1.000	33094	0.1495	Target=1.90	120	76.1	
570.10 > 483.00	6.929	6.929	0.0	1.000	14515		2.28(0.95-2.85)	120	36.0	
* 51 13C2 PFDA										
515.10 > 470.10	6.999	7.000	-0.001		1629283	2.00			7064	
D 52 13C6 PFDA										
519.10 > 474.10	6.999	7.000	-0.001	1.000	1726411	2.10		105	5231	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
53 PFDA										
512.90 > 469.00	6.999	7.000	-0.001	1.000	69018	0.1245	Target=3.34	99.6	277	
512.90 > 219.00	7.011	7.000	0.011	1.002	23181		2.98(1.67-5.01)	99.6	8018	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.111	7.111	0.0	0.975	816598	4.78		95.7	855	
55 NEtFOSAA										
584.20 > 419.10	7.111	7.111	0.0	1.000	15738	0.1208	Target=1.51	96.6	4791	
584.20 > 526.00	7.123	7.111	0.012	1.002	13304		1.18(0.75-2.26)	96.6	13.5	
D 56 13C8 PFOS										
507.10 > 79.90	7.291	7.291	0.0	1.000	1302866	1.93		101	2925	
* 57 13C4 PFOS										
502.80 > 79.90	7.291	7.291	0.0		1271595	1.92			8560	
58 PFOS										
498.90 > 79.90	7.291	7.291	0.0	1.000	108320	0.1126	Target=4.89	96.9	157	
498.90 > 98.80	7.291	7.291	0.0	1.000	23229		4.66(2.45-7.34)	96.9	44.0	
D 59 13C7 PFUnA										
570.00 > 525.10	7.434	7.435	-0.001	1.062	1722039	2.10		105	4866	
60 PFUnA										
563.10 > 519.00	7.434	7.435	-0.001	1.000	50328	0.1258	Target=3.26	101	177	
563.10 > 269.10	7.434	7.435	-0.001	1.000	12267		4.10(1.63-4.88)	101	3694	
61 9ClFOS										
530.80 > 351.00	7.620	7.620	0.0	1.045	209242	0.1108	Target=3.01	94.9	583	
532.80 > 353.00	7.630	7.620	0.010	1.047	71530		2.93(1.51-4.52)	94.9	576	
62 PFNS										
548.80 > 79.90	7.722	7.723	-0.001	1.059	92178	0.1246	Target=4.32	104	833	
548.80 > 98.80	7.722	7.723	-0.001	1.059	20443		4.51(2.16-6.47)	104	175	
63 PFDoA										
613.10 > 569.00	7.872	7.861	0.011	1.000	53493	0.1195	Target=3.42	95.6	287	
613.10 > 319.00	7.861	7.861	0.0	0.999	15524		3.45(1.71-5.13)	95.6	96.9	
D 64 13C2 PFDoA										
615.10 > 570.00	7.872	7.861	0.011	1.125	1283792	2.22		111	2647	
D 65 13C8 FOSA										
506.10 > 77.80	7.957	7.958	-0.001	1.091	1470333	1.95		97.3	6670	
66 PFOSA										
498.10 > 77.90	7.957	7.971	-0.014	1.000	96676	0.1258	Target=43.97	101	261	
498.10 > 478.00	7.957	7.971	-0.014	1.000	2268		42.63(21.98-65.95)	101	9.9	
67 PFDS										
599.00 > 79.90	8.131	8.118	0.013	1.115	92511	0.1180	Target=4.28	97.9	1002	
599.00 > 98.80	8.131	8.118	0.013	1.115	22223		4.16(2.14-6.41)	97.9	6634	
68 PFTrDA										
663.00 > 619.00	8.261	8.262	-0.001	0.959	70831	0.1356	Target=4.49	108	428	
663.00 > 168.90	8.261	8.262	-0.001	0.959	15643		4.53(2.24-6.73)	108	109	
69 11ClFOS										
630.90 > 450.90	8.423	8.425	-0.002	1.155	121401	0.1171	Target=2.77	99.3	1020	
632.90 > 452.90	8.423	8.425	-0.002	1.155	41498		2.93(1.39-4.16)	99.3	13136	
70 PFTeDA										
713.10 > 168.90	8.614	8.616	-0.002	1.000	10485	0.1361	Target=0.89	109	127	
713.10 > 219.00	8.614	8.616	-0.002	1.000	11166		0.94(0.44-1.33)	109	144	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 71 13C2 PFTeDA										
715.20 > 670.00	8.614	8.616	-0.002	1.231	1036053	2.16		108	2891	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.742	8.744	-0.002	1.199	573005	4.81		96.2	273	
73 N-MeFOSE-M										
616.10 > 58.90	8.756	8.758	-0.002	1.002	142612	0.6507		104	185	
74 PFDoS										
699.10 > 79.90	8.797	8.799	-0.002	1.207	86975	0.1202	Target=4.86	99.2	695	
699.10 > 98.80	8.797	8.799	-0.002	1.207	20331		4.28(2.43-7.29)	99.2	361	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.824	8.826	-0.002	1.210	398753	1.87		93.5	2715	
76 NMeFOSA										
511.90 > 219.00	8.824	8.839	-0.015	1.000	25427	0.1281	Target=0.74	102	147	
511.90 > 169.00	8.838	8.839	-0.001	1.002	38719		0.66(0.37-1.10)	102	171	
D 77 d9-N-EtFOSE										
639.20 > 58.90	8.918	8.932	-0.014	1.223	733666	4.64		92.7	577	
78 N-EtFOSE-M										
630.00 > 58.90	8.931	8.945	-0.014	1.001	204058	0.6592		105	222	
D 79 d5-NEtPFOSA										
531.10 > 219.00	8.995	8.996	-0.001	1.234	485883	1.87		93.6	2848	
80 N-EtFOSA-M										
526.00 > 219.00	8.995	9.009	-0.014	1.000	30107	0.1263	Target=0.84	101	242	
526.00 > 169.00	8.995	9.009	-0.014	1.000	37066		0.81(0.42-1.25)	101	219	
81 Perfluorooctadecanoic acid										
913.00 > 869.00	9.819	9.782	0.037	1.140	24417	0.0780	Target=11.42	62.4	469	
913.00 > 169.00	9.834	9.782	0.052	1.142	2049		11.92(5.71-17.13)	62.4	58.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

1633_125_CAL2_00036 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 12:07:04 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-02.d

Injection Date: 29-Jan-2026 00:52:31 Instrument ID: 30576

Lims ID: IC CAL 2

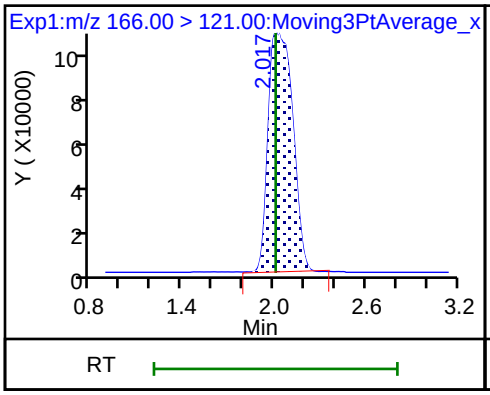
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Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 3 Worklist Smp#: 2

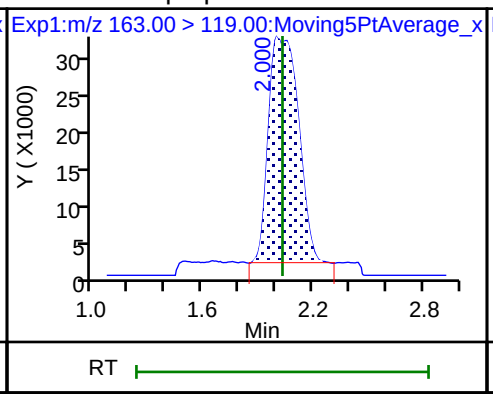
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Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

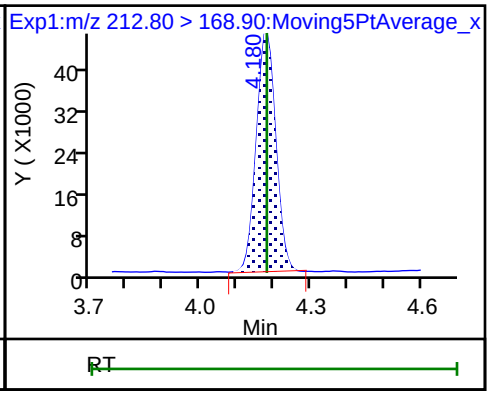
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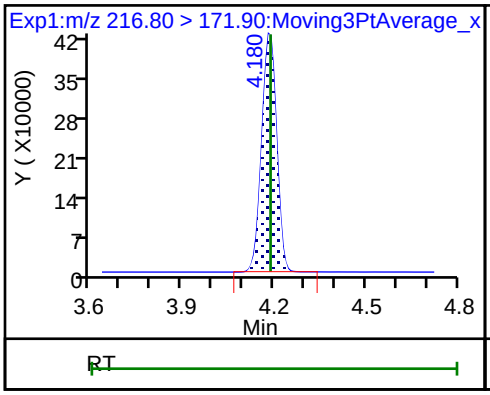
2 Perfluoropropionic acid



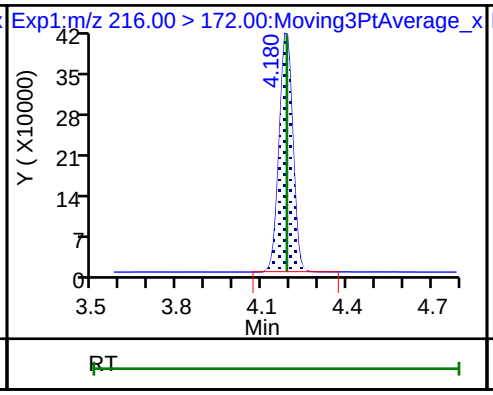
3 PFBA



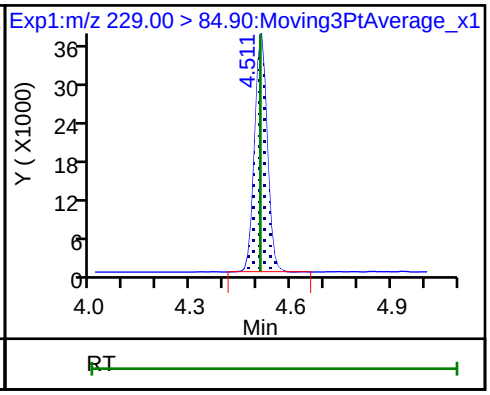
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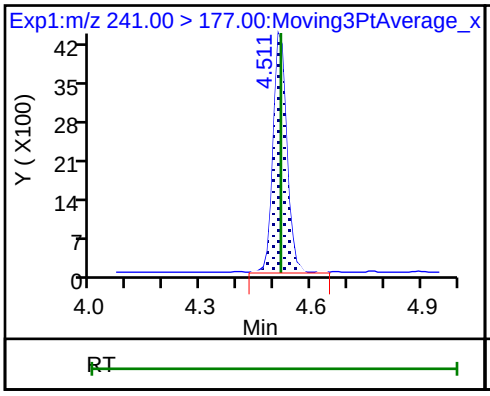
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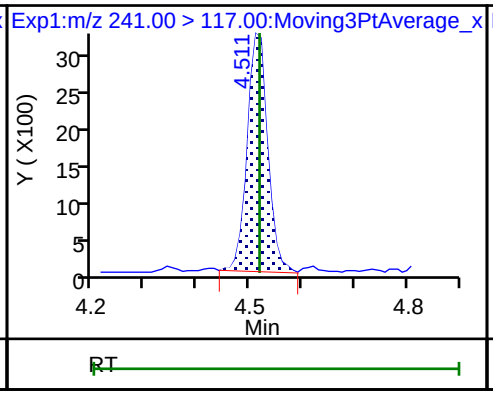
6 PFMPA



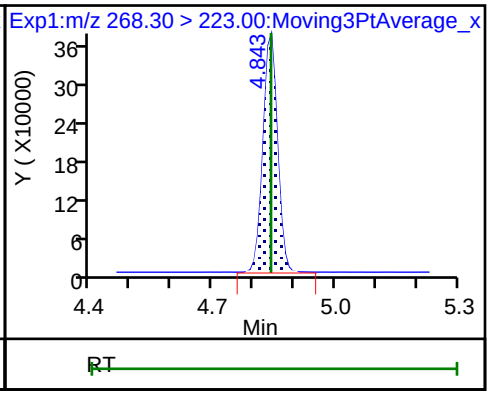
7 3:3 FTCA



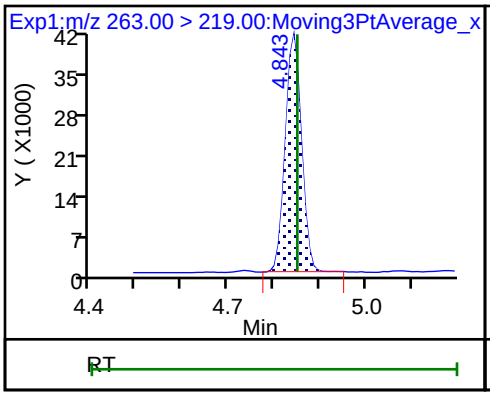
7 3:3 FTCA



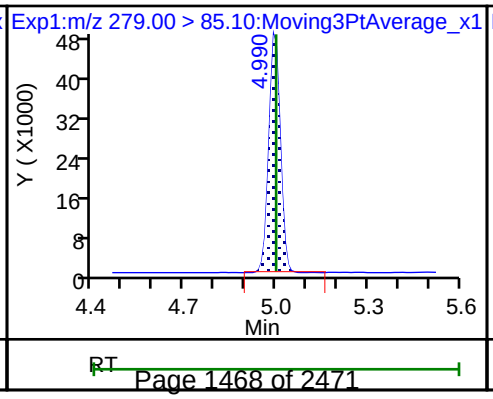
D 8 13C5 PFPeA



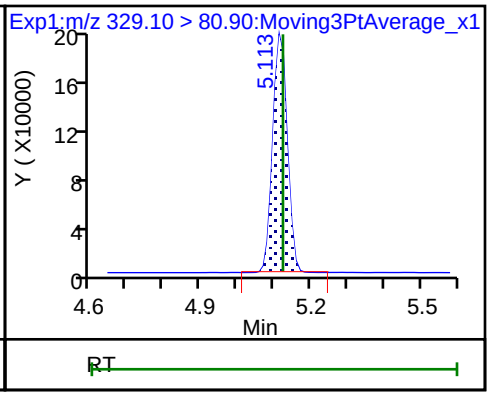
9 PFPA



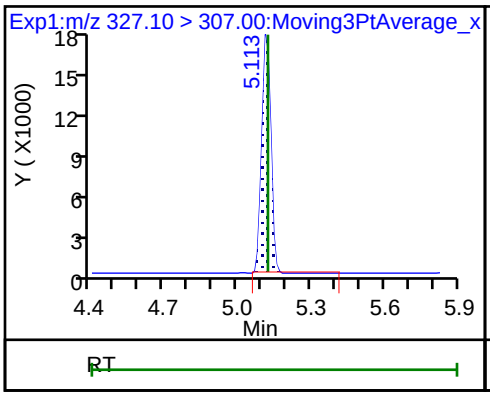
10 PFMBA



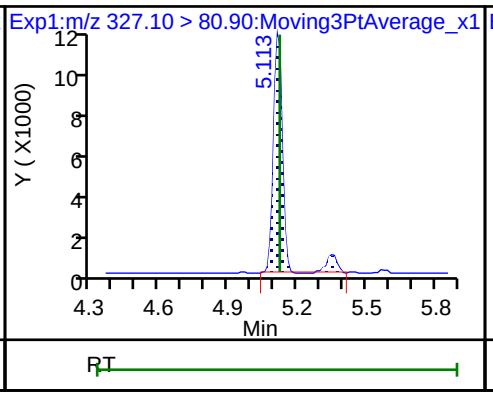
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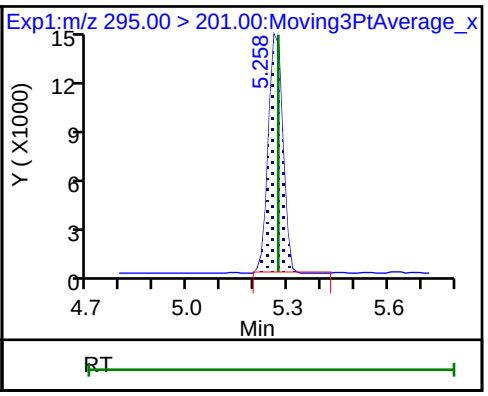
13 4:2FTS



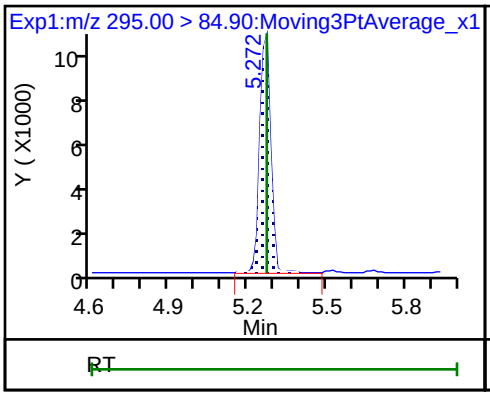
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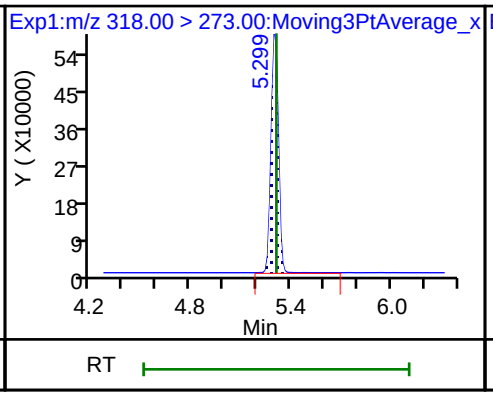
14 NFDHA



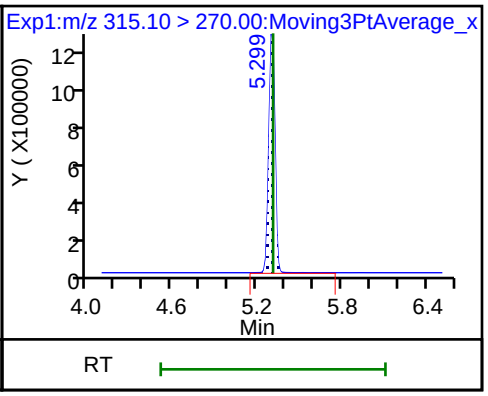
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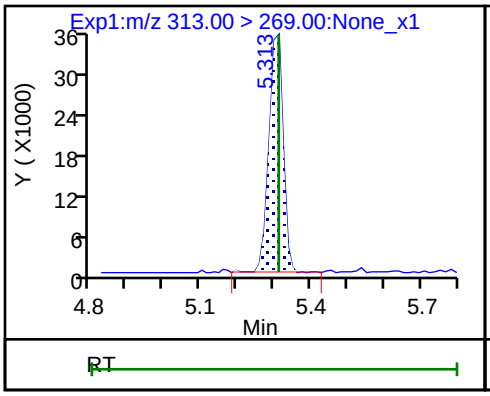
D 15 13C5 PFHxA



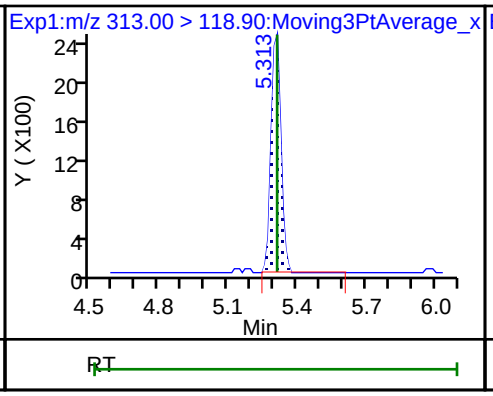
* 16 13C2 PFHxA



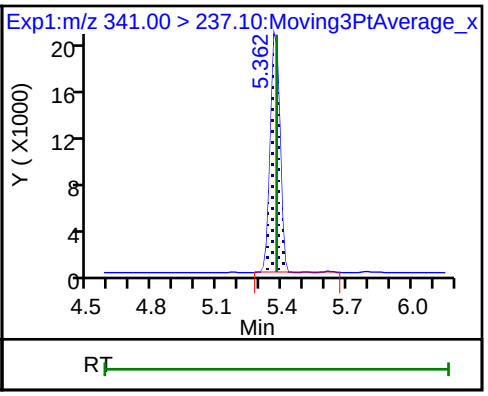
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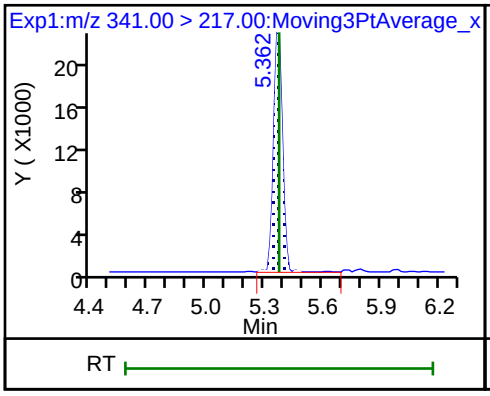
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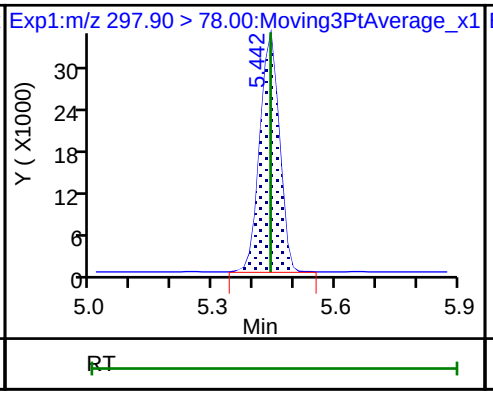
18 5:3 FTCA



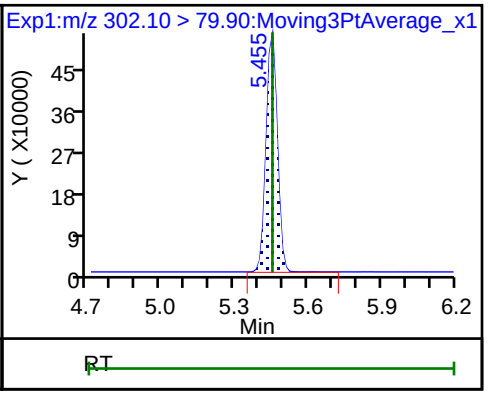
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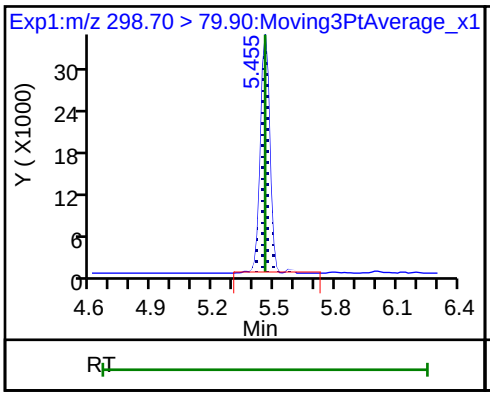
19 FBSA



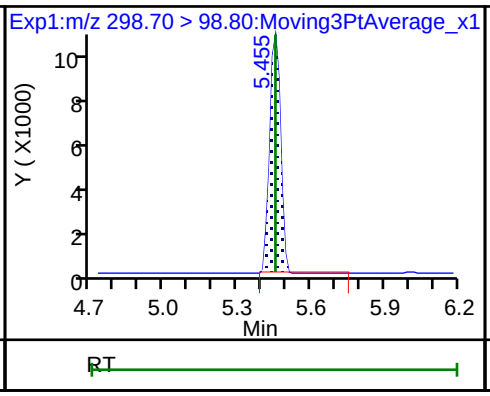
D 20 13C3 PFBS



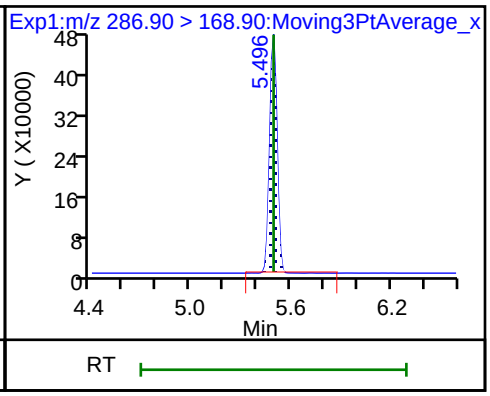
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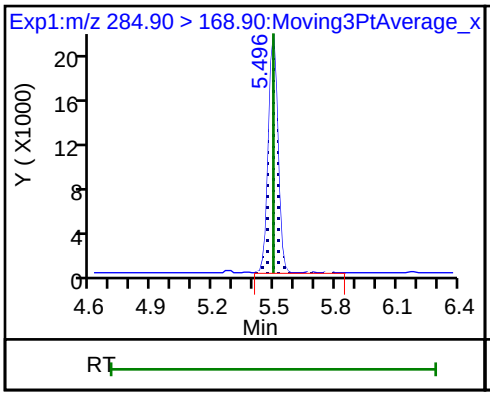
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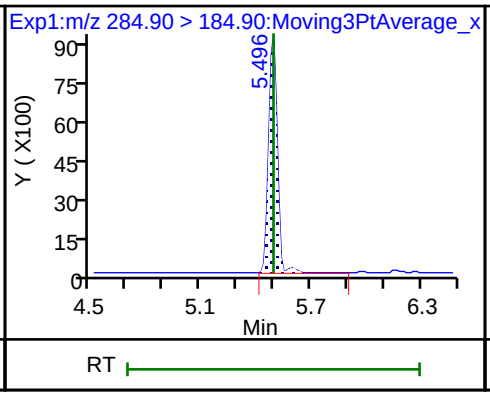
D 22 13C3 HFPO-DA



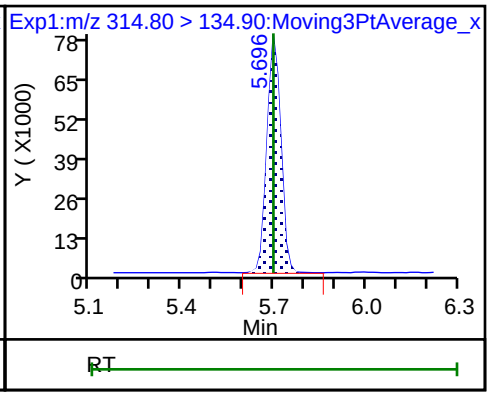
23 HFPO-DA



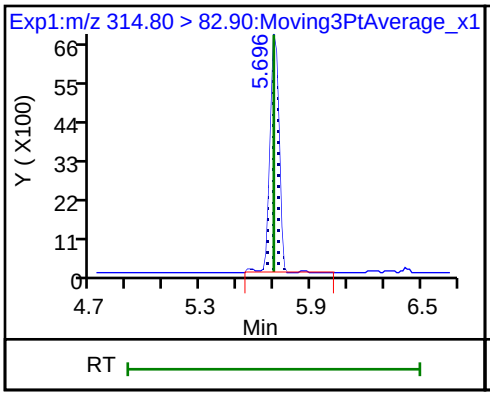
23 HFPO-DA



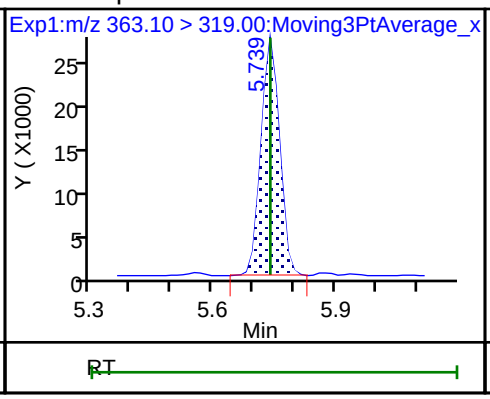
26 PFEESA



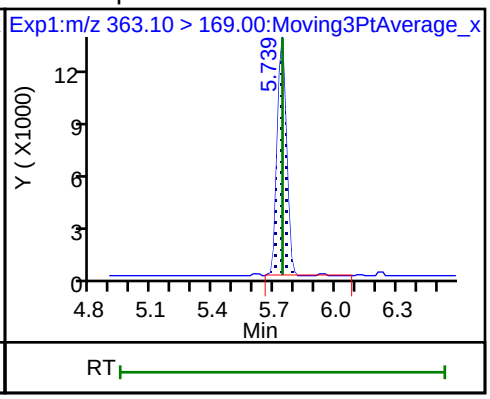
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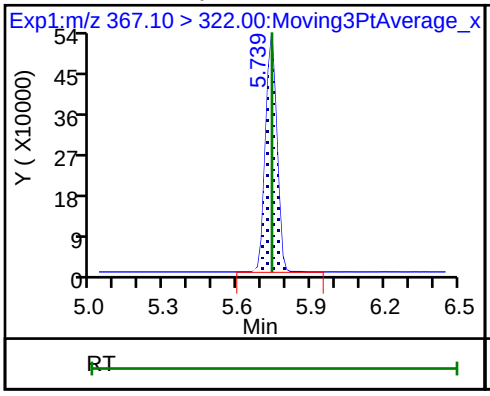
27 PFHpA



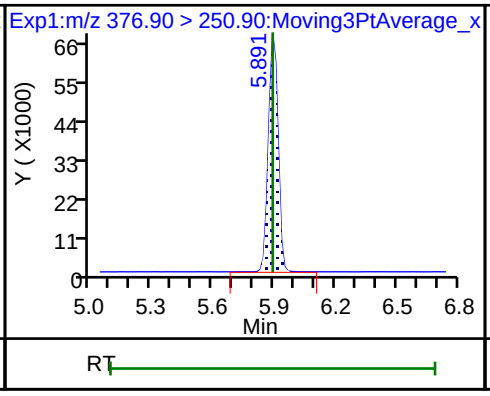
27 PFHpA



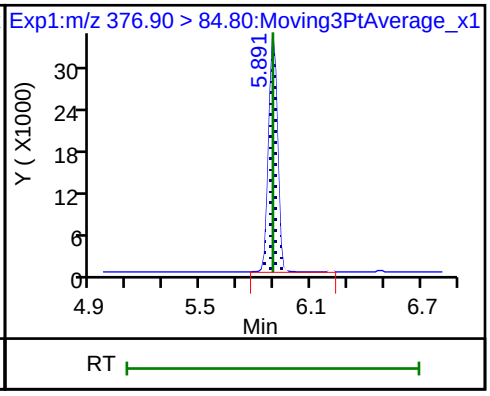
D 28 13C4 PFHpA



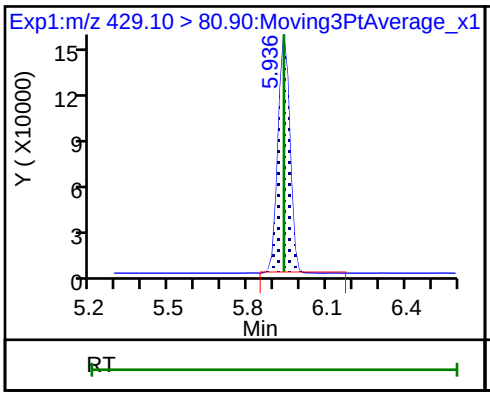
29 ADONA



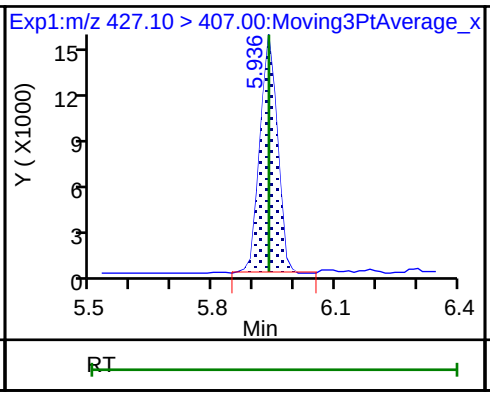
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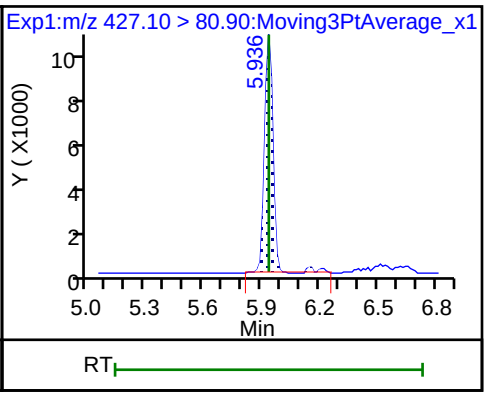
D 30 13C2-6:2FTS



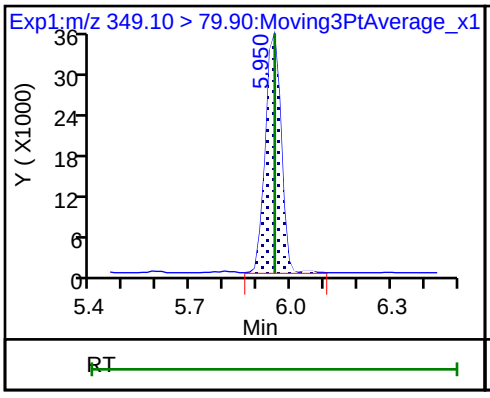
31 6:2FTS



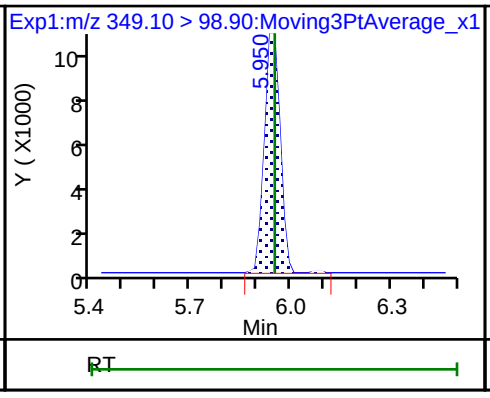
31 6:2FTS



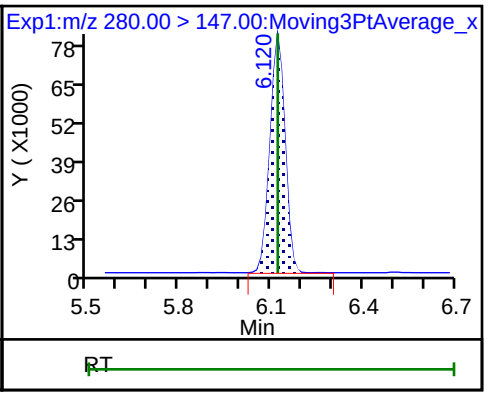
32 PFPeS



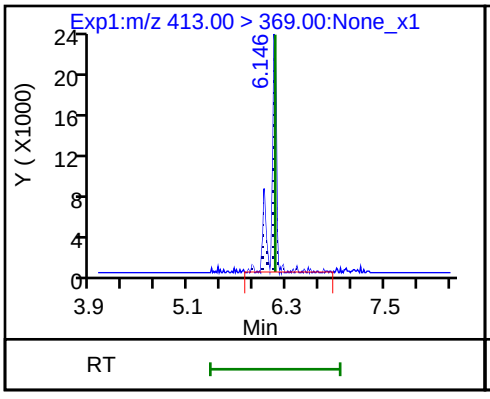
32 PFPeS



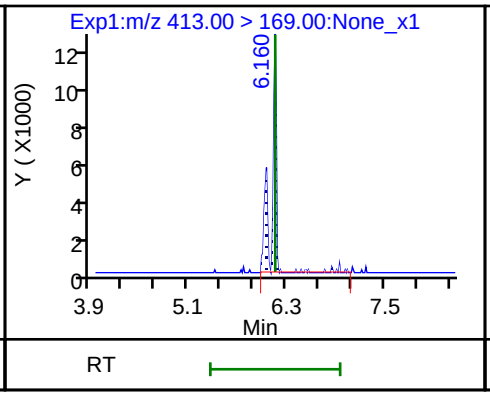
33 BTS



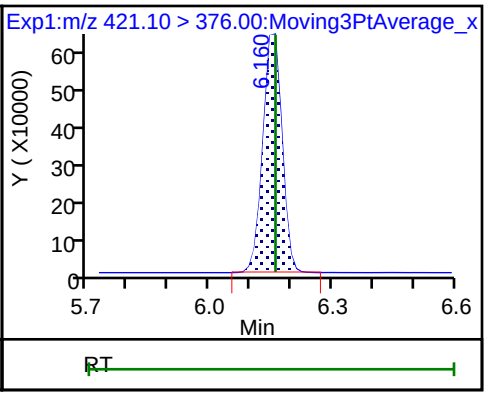
34 PFOA



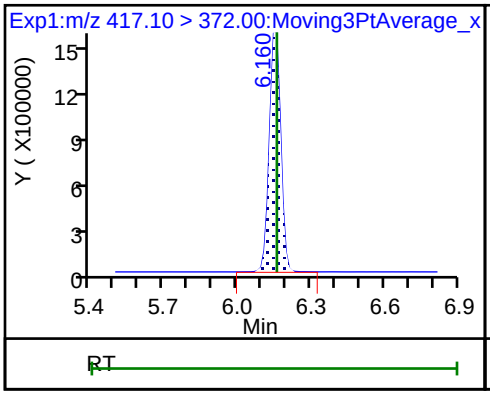
34 PFOA



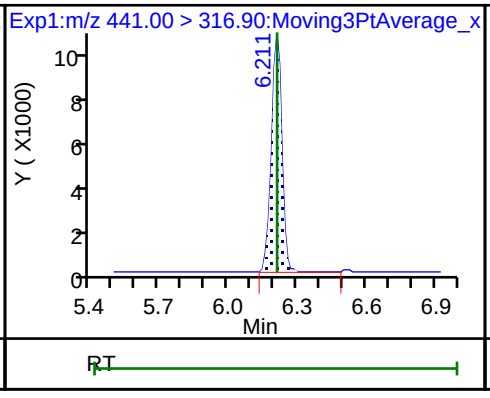
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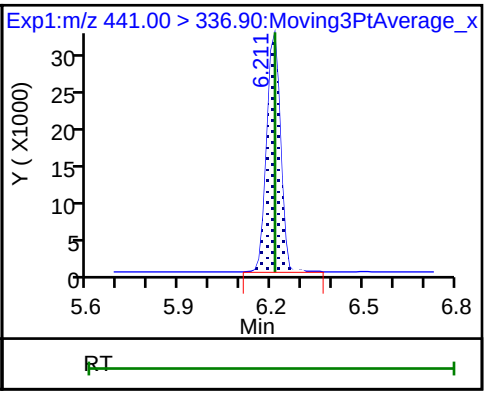
* 36 13C4 PFOA



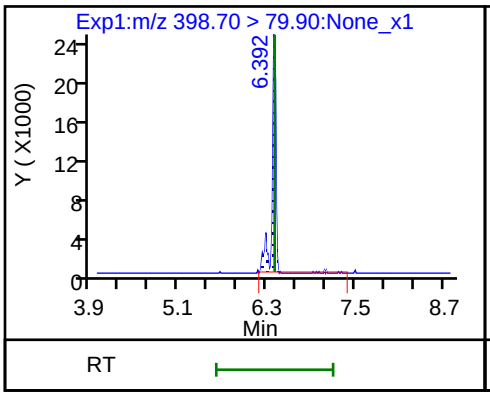
37 7:3 FTCA



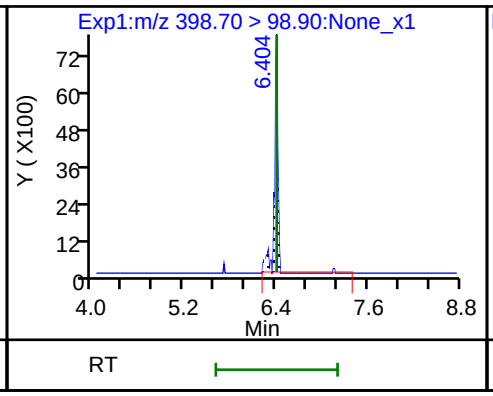
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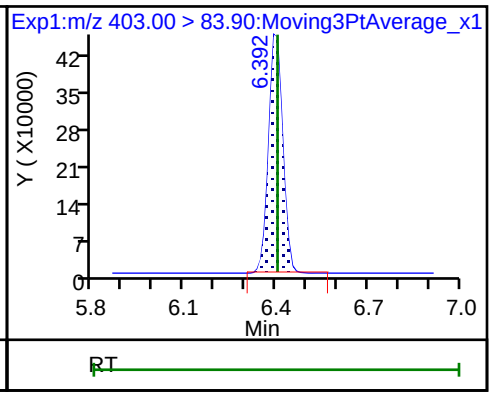
39 PFHxS



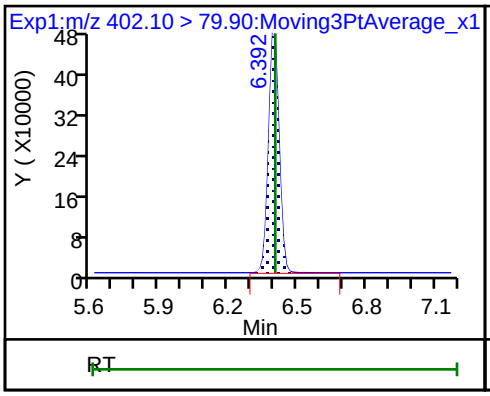
39 PFHxS



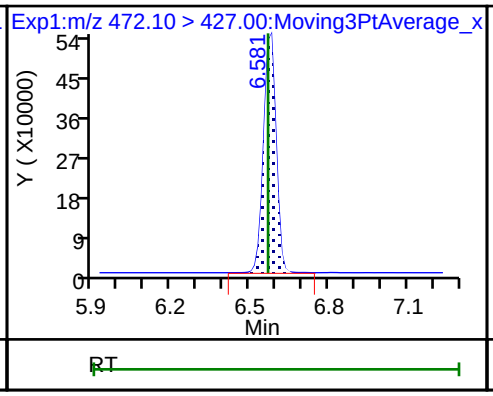
* 40 18O2 PFHxS



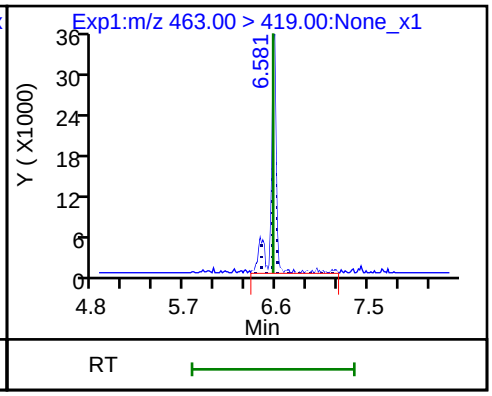
D 38 13C3 PFHxS



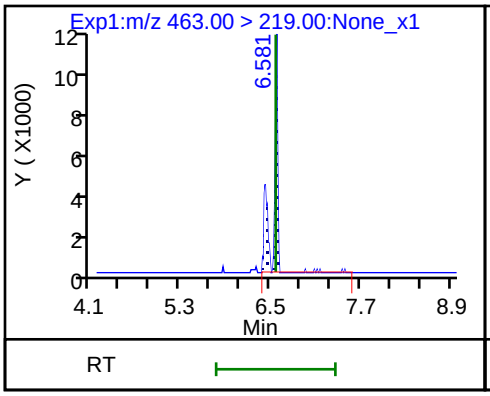
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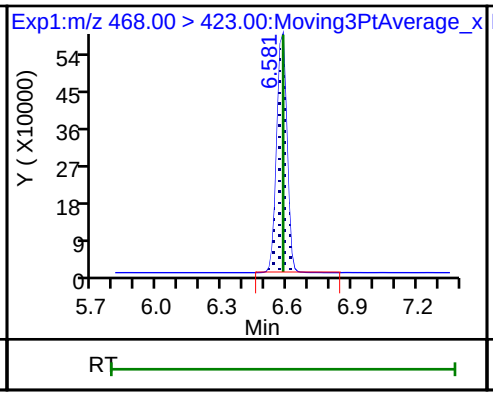
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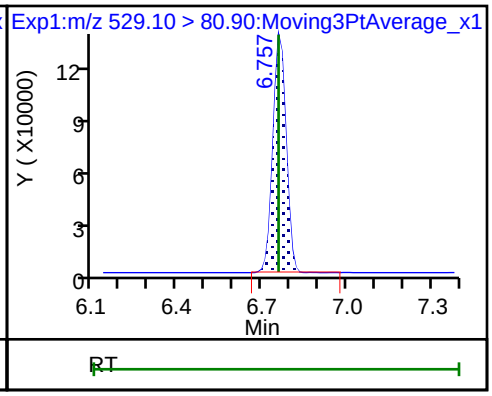
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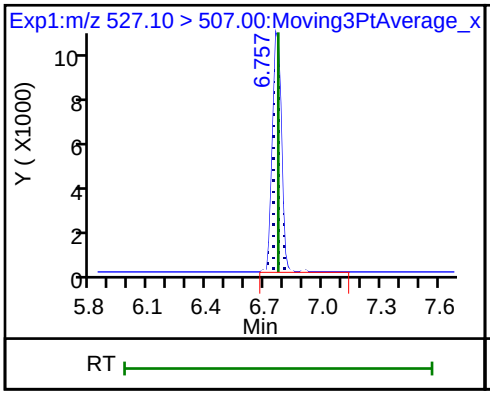
* 43 13C5 PFNA



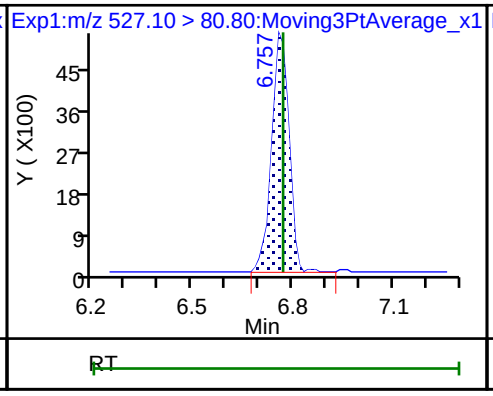
D 44 13C2-8:2FTS



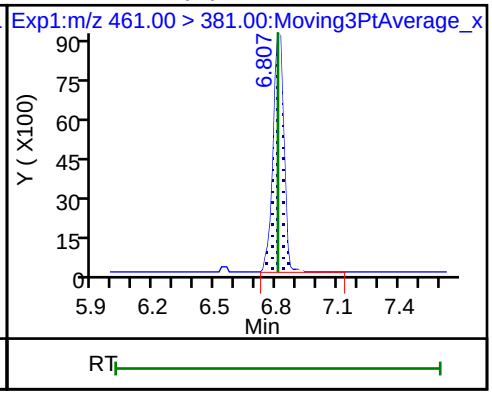
45 8:2FTS



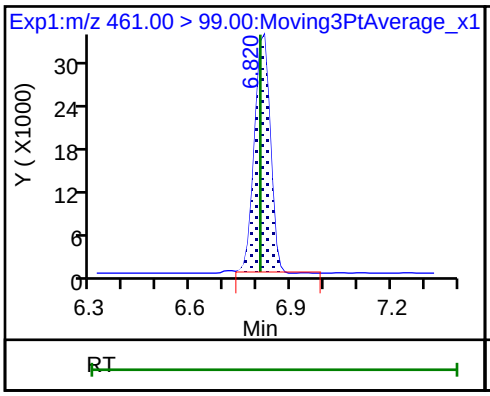
45 8:2FTS



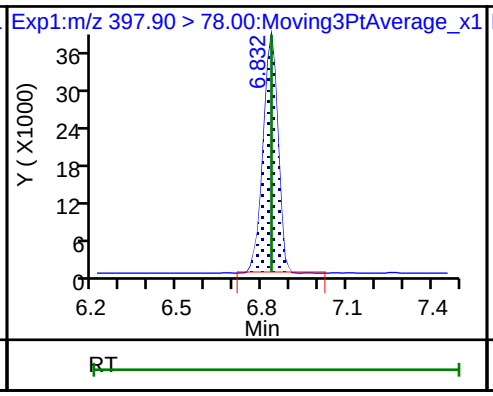
46 PFECHS (M)



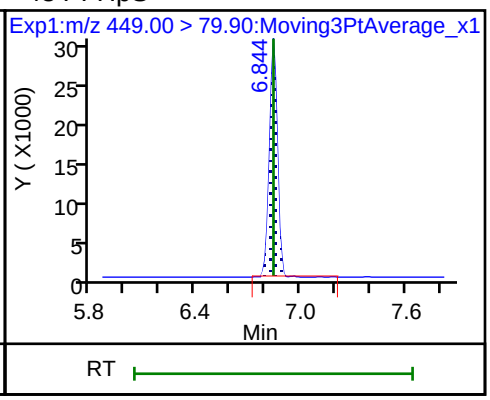
46 PFECHS



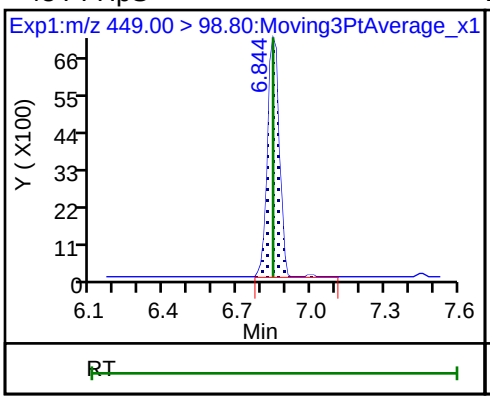
47 FHxSA



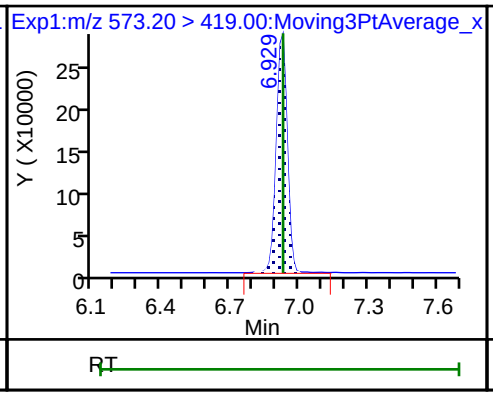
48 PFHpS



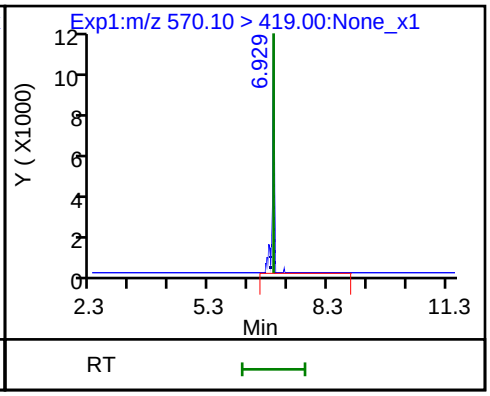
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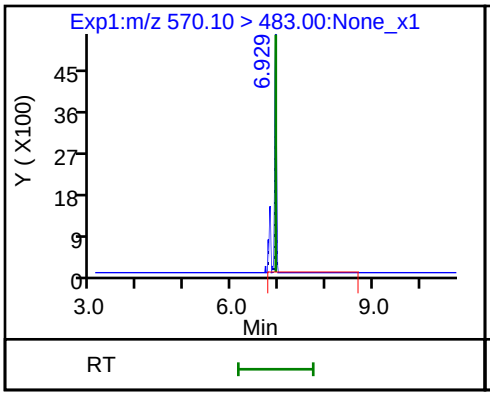
D 49 d3-NMeFOSAA



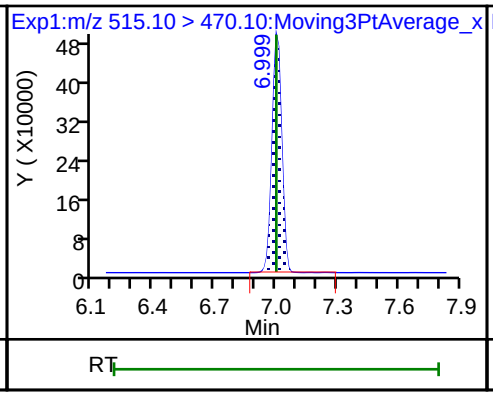
50 NMeFOSAA



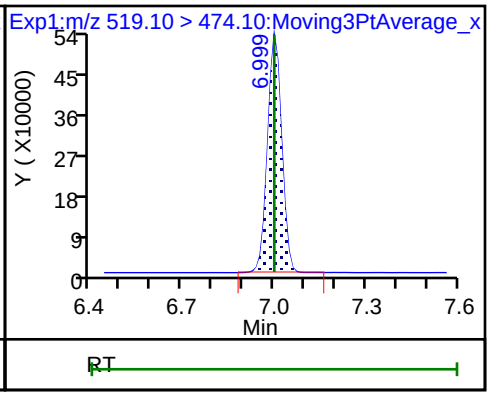
50 NMeFOSAA



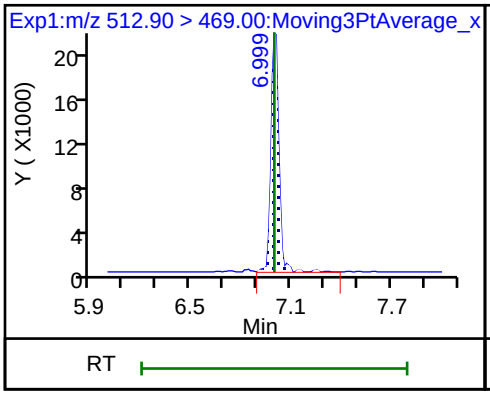
* 51 13C2 PFDA



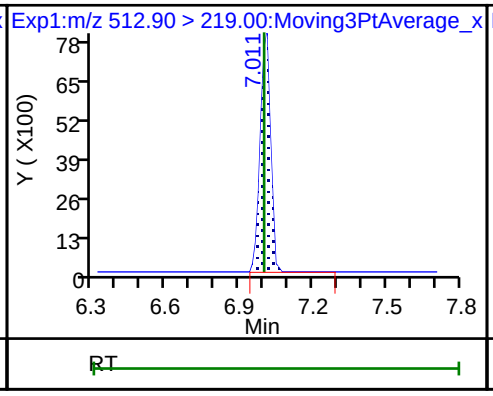
D 52 13C6 PFDA



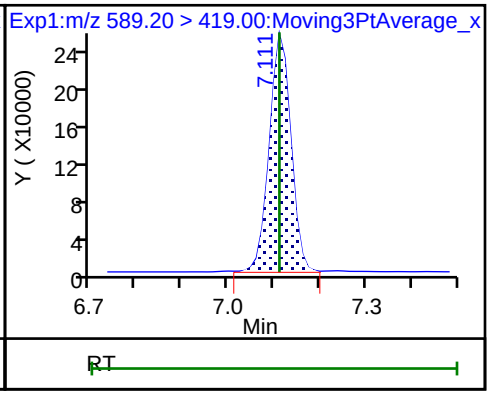
53 PFDA



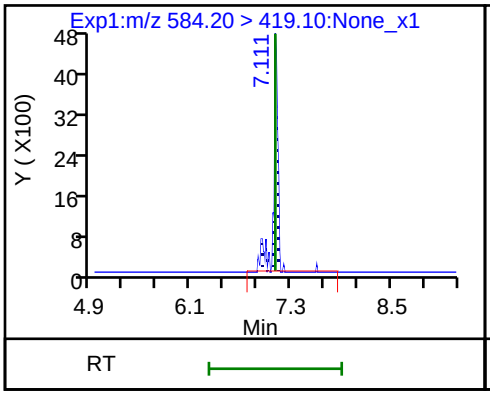
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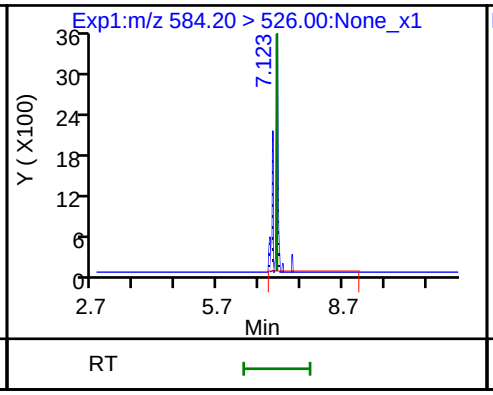
D 54 d5-NEtFOSAA



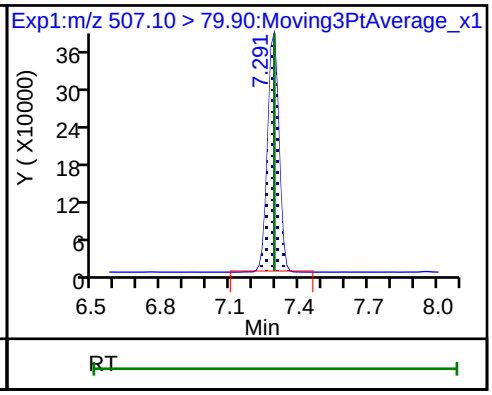
55 NEtFOSAA



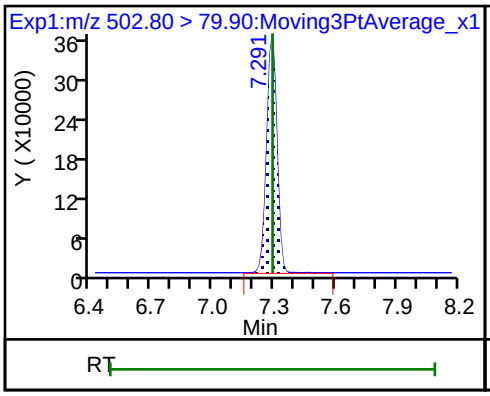
55 NEtFOSAA



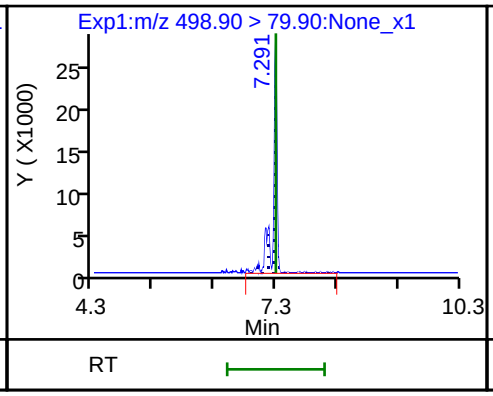
D 56 13C8 PFOS



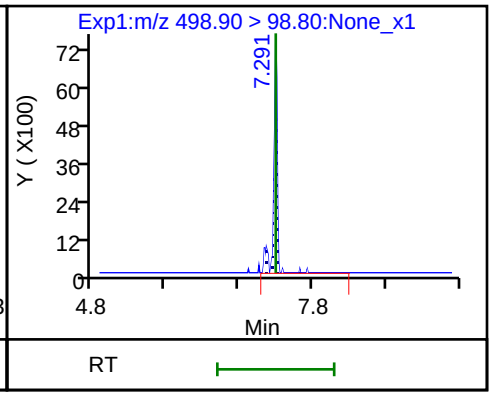
* 57 13C4 PFOS



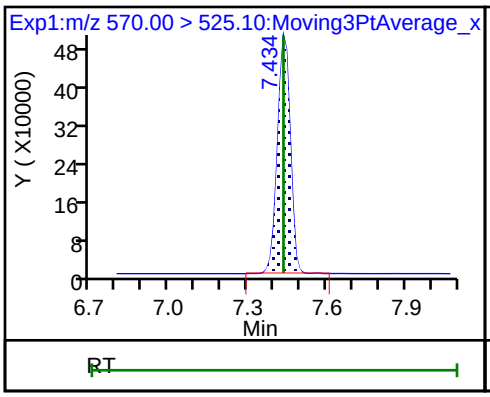
58 PFOS



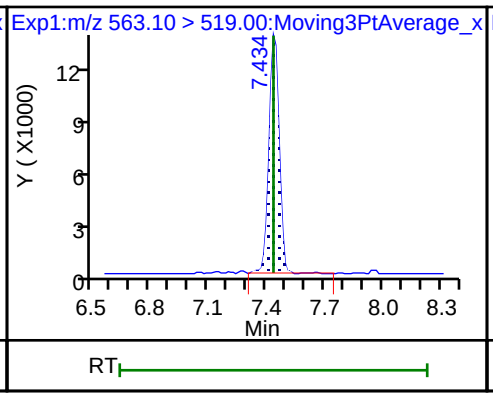
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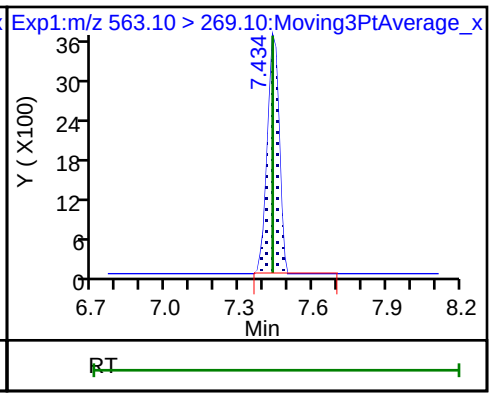
D 59 13C7 PFUnA



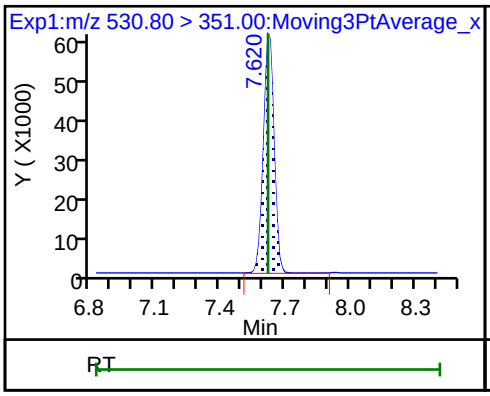
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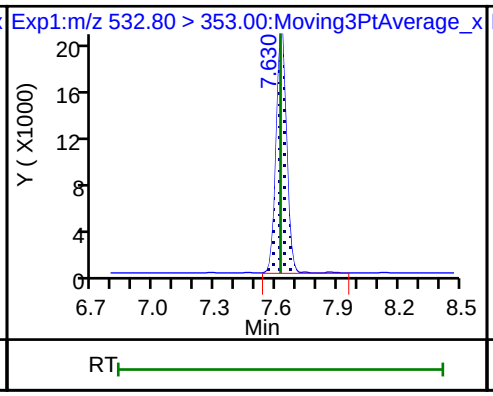
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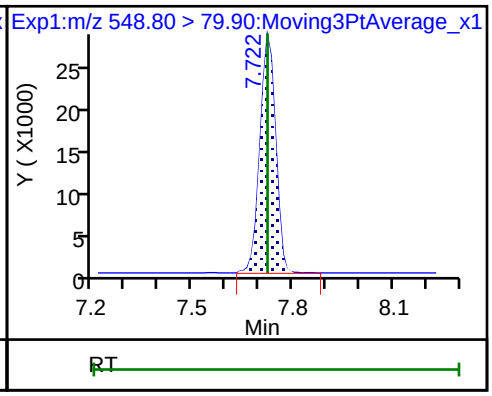
61 9ClFOS



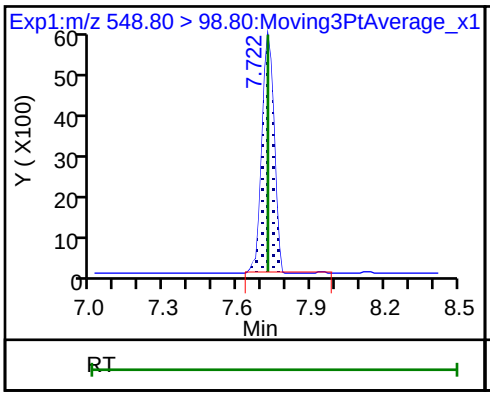
61 9ClFOS



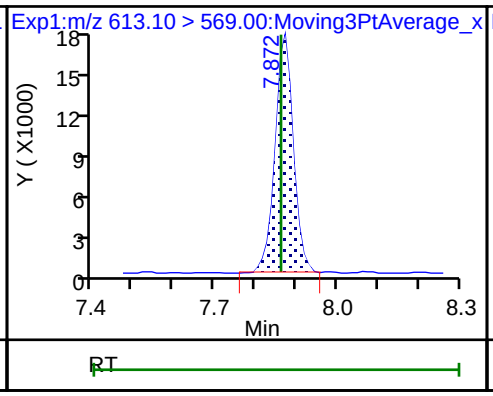
62 PFNS



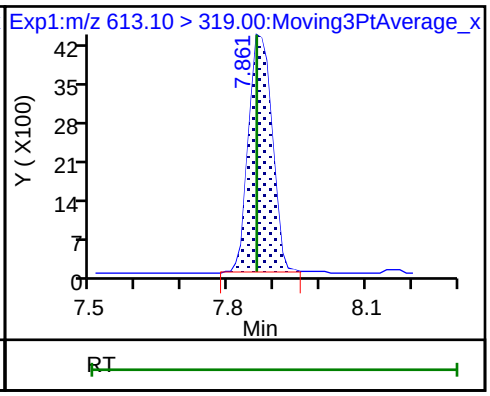
62 PFNS



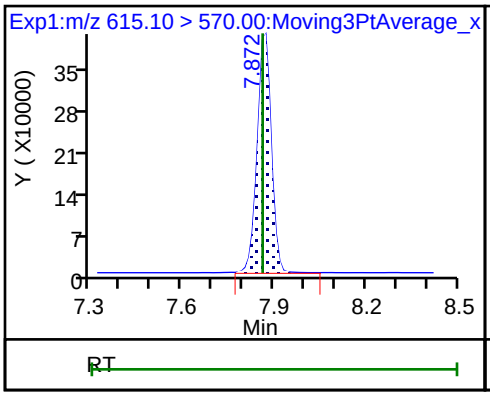
63 PFDoA



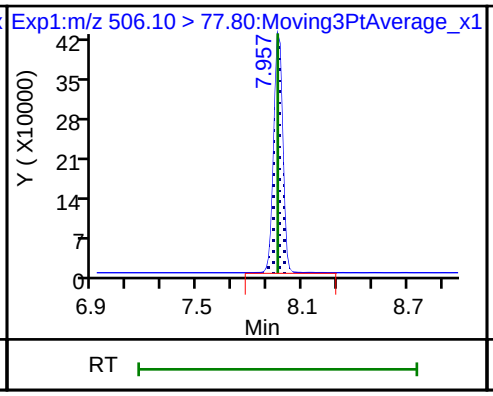
63 PFDoA



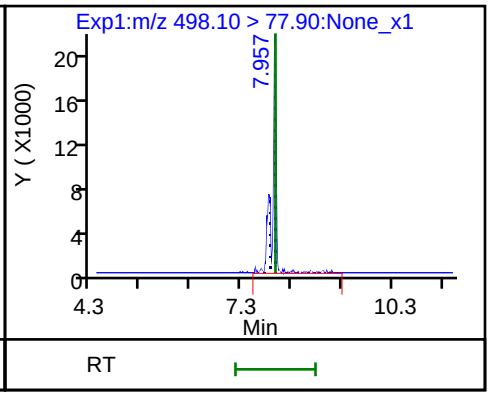
D 64 13C2 PFDoA



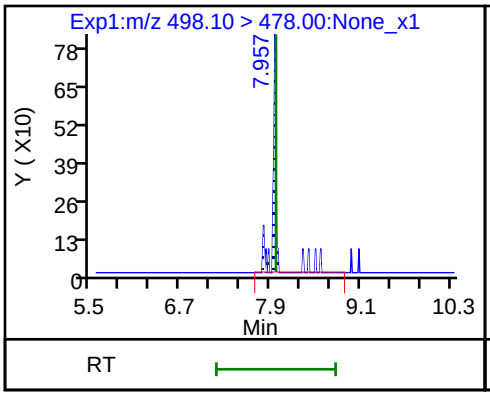
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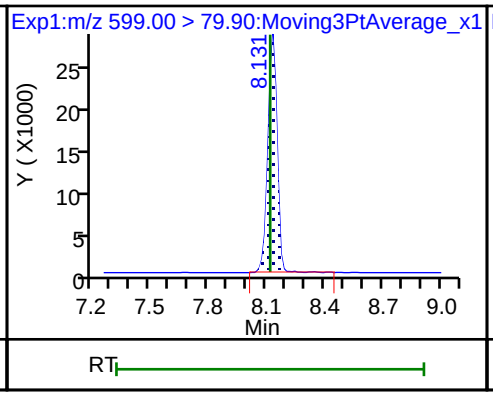
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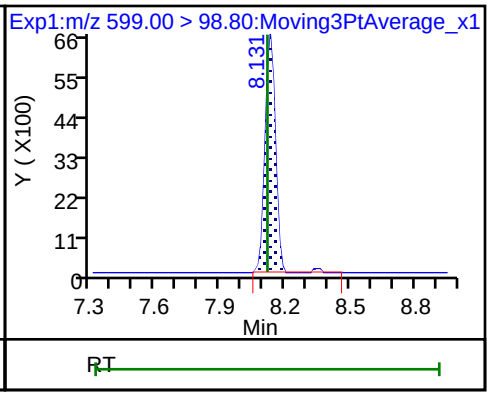
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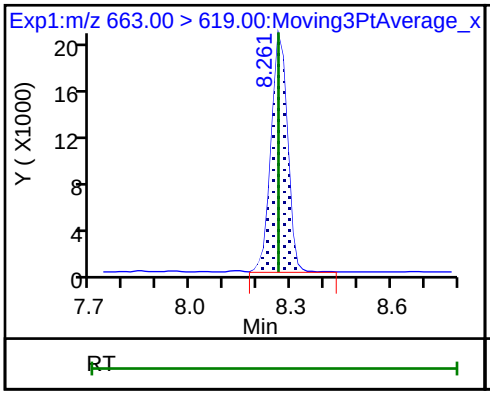
67 PFDS



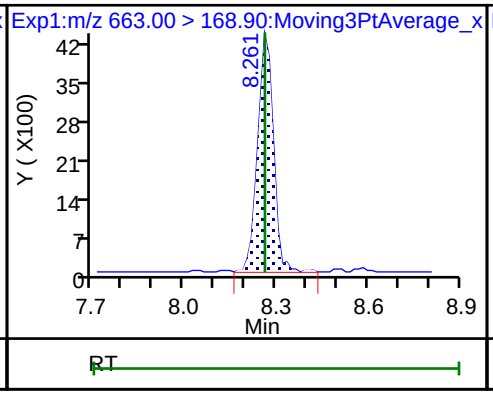
67 PFDS



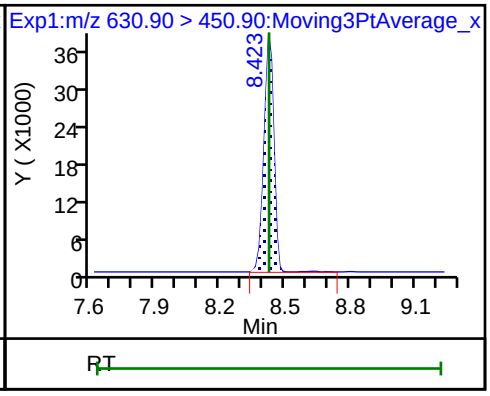
68 PFTrDA



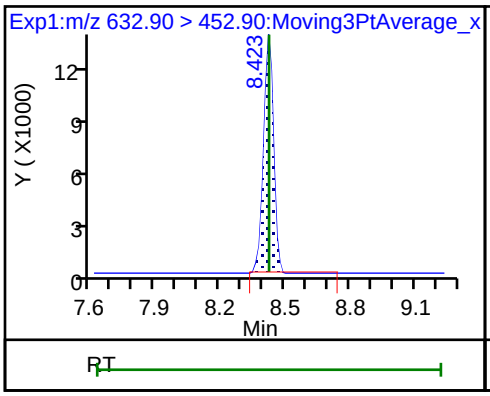
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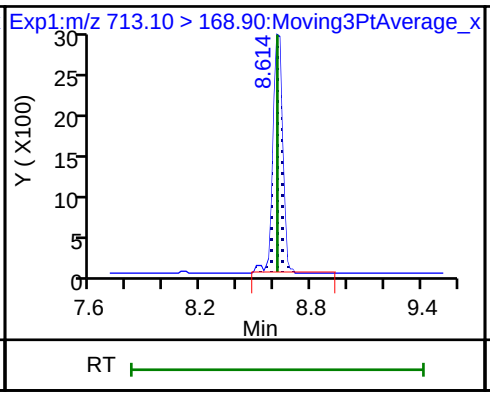
69 11ClFOS



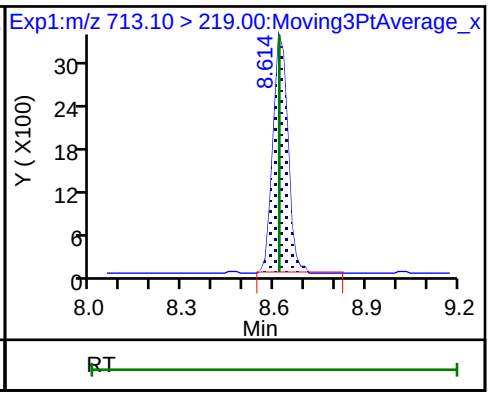
69 11ClFOS



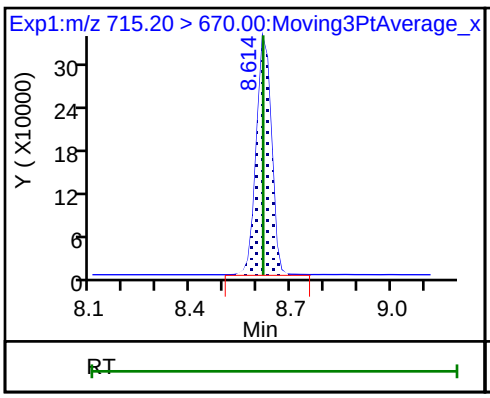
70 PFTeDA



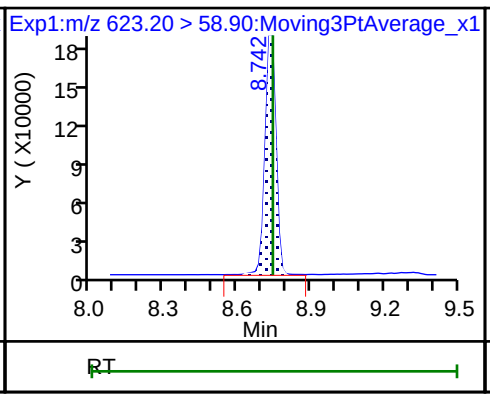
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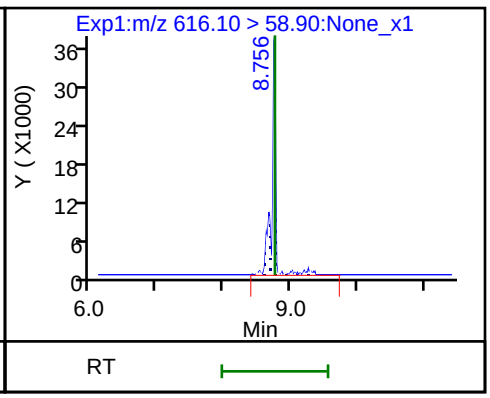
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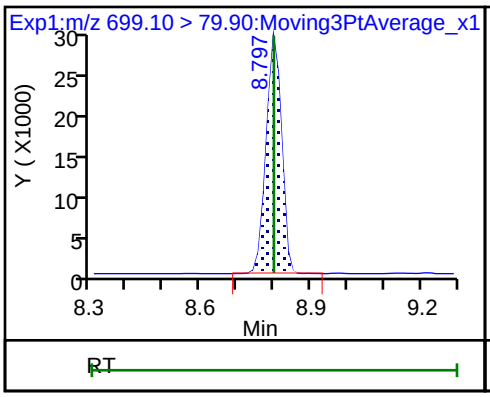
D 72 d7-N-Me-FOSE



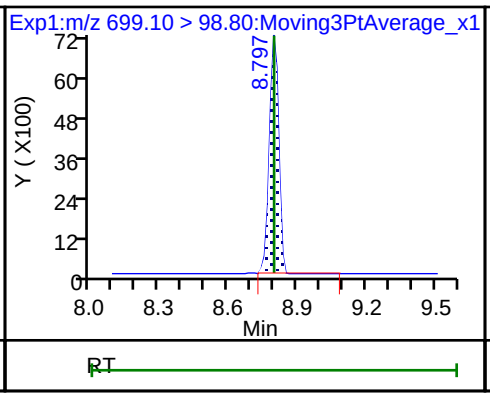
73 N-MeFOSE-M



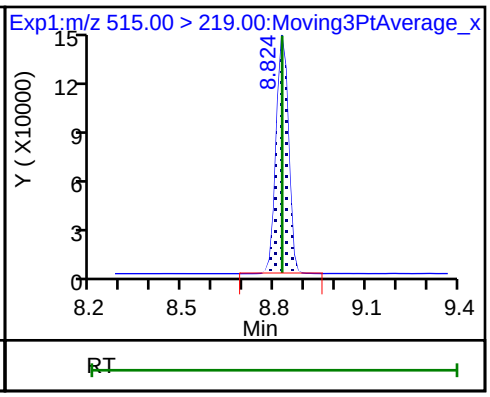
74 PFDoS



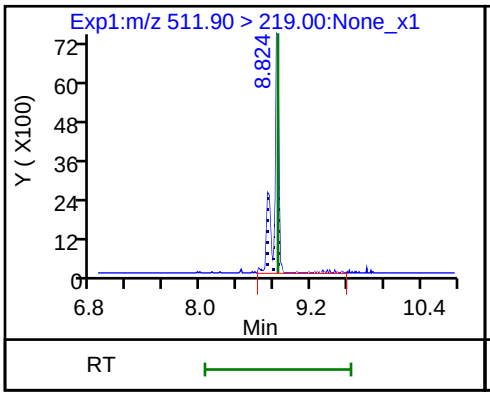
74 PFDoS



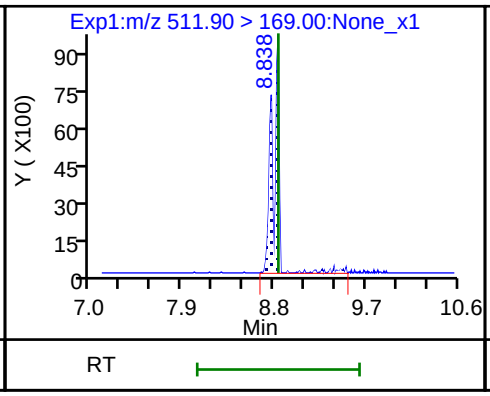
D 75 d3-NMePFOSA



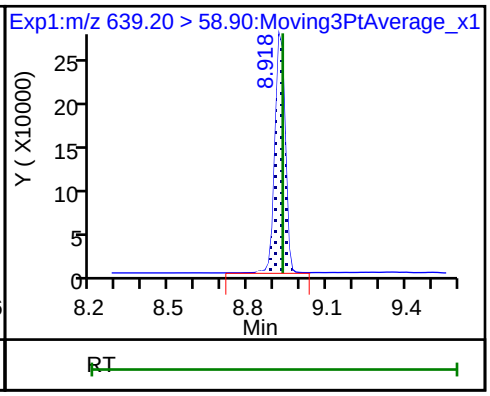
76 NMeFOSA



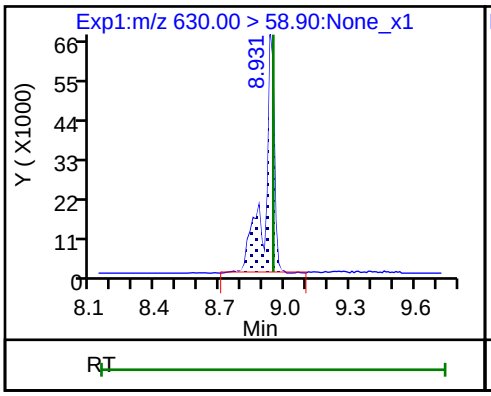
76 NMeFOSA



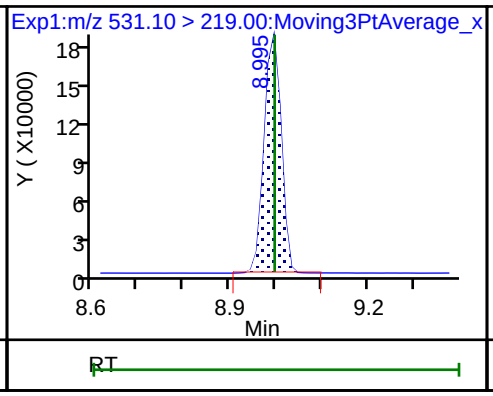
D 77 d9-N-EtFOSE



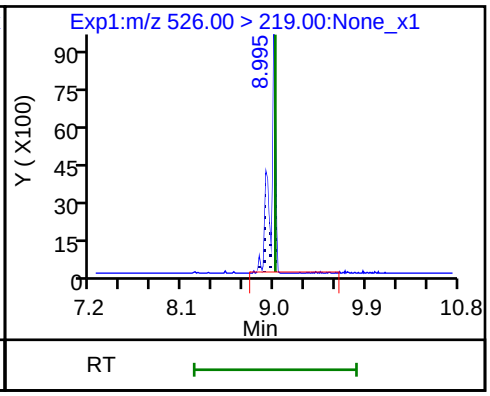
78 N-EtFOSE-M



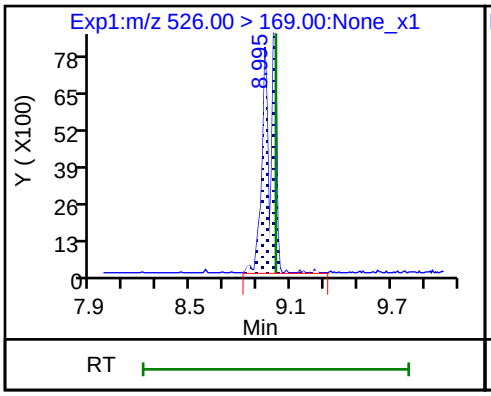
D 79 d5-NEtPFOSA



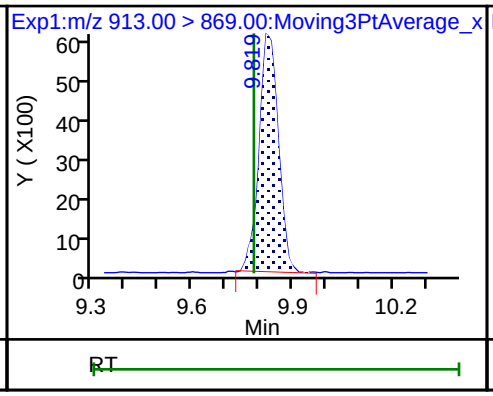
80 N-EtFOSA-M



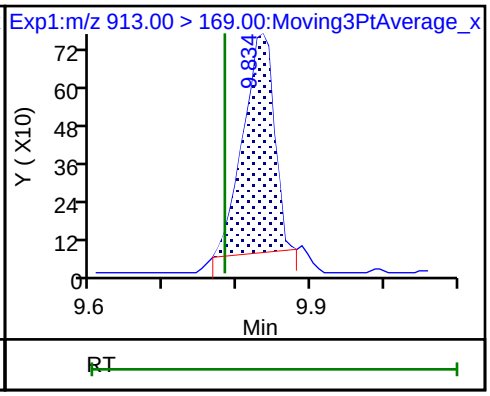
80 N-EtFOSA-M



81 Perfluorooctadecanoic acid



81 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

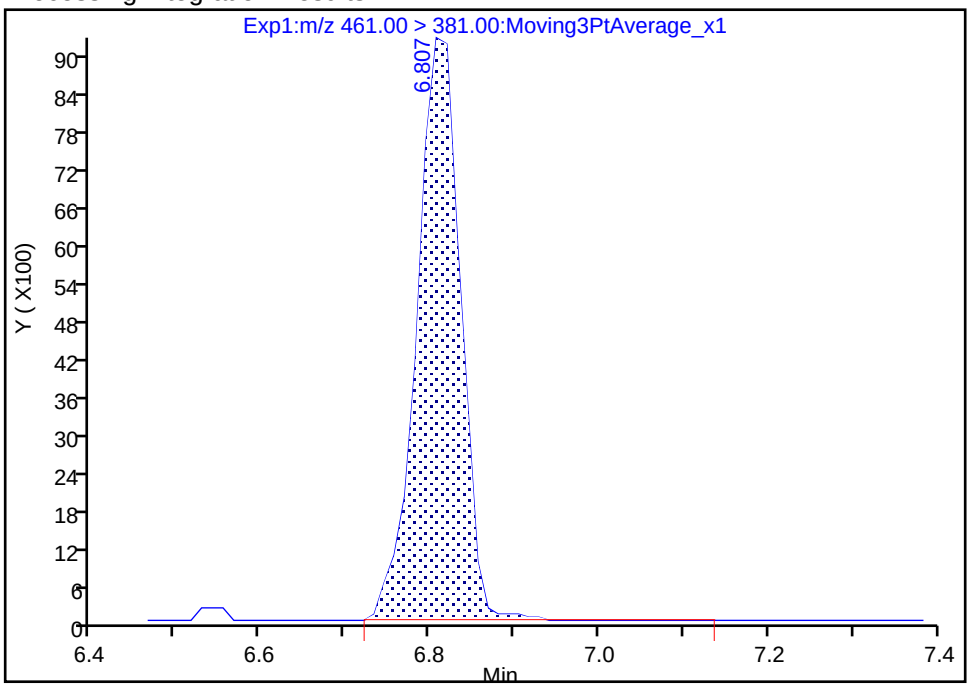
Data File:	\\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-02.d				
Injection Date:	29-Jan-2026 00:52:31	Instrument ID:	30576		
Lims ID:	IC CAL 2				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	3	Worklist Smp#:	2
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

46 PFECHS, CAS: 133201-07-7

Signal: 1

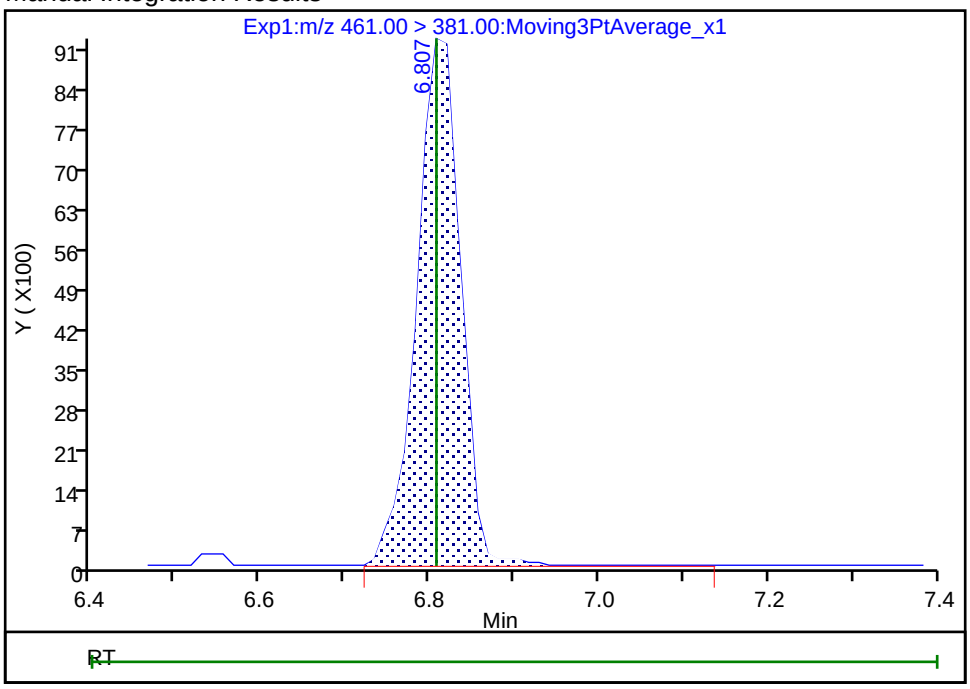
Processing Integration Results

RT: 6.81
Area: 33370
Amount: 0.136857
Amount Units: ng/ml



Manual Integration Results

RT: 6.81
Area: 33370
Amount: 0.136857
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:53:09 -05:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-03.d
Lims ID: IC CAL 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 29-Jan-2026 01:06:07 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL3
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub14

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 12:07:18 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1631

First Level Reviewer: M4QQ Date: 29-Jan-2026 06:44:21
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 13C3PFPrA										
166.00 > 121.00	2.017	2.008	0.009	0.482	1152822	2.01		101	539	
2 Perfluoropropionic acid										
163.00 > 119.00	2.025	2.033	-0.008	1.004	1261775	2.39		95.8	3090	
3 PFBA										
212.80 > 168.90	4.172	4.179	-0.007	0.998	623560	0.9775		97.8	6822	
D 4 13C4-PFBA										
216.80 > 171.90	4.180	4.187	-0.007	1.000	1395292	2.02		101	8788	
* 5 13C3PFBA										
216.00 > 172.00	4.180	4.187	-0.007		1323182	2.00			579	
6 PFMPA										
229.00 > 84.90	4.511	4.508	0.003	0.931	356174	0.4859		97.2	2470	
7 3:3 FTCA										
241.00 > 177.00	4.511	4.518	-0.007	0.931	39219	0.9847	Target=1.25	98.5	1038	
241.00 > 117.00	4.511	4.518	-0.007	0.931	31228		1.26(0.63-1.88)	98.5	248	
D 8 13C5 PFPeA										
268.30 > 223.00	4.843	4.842	0.001	0.914	878349	2.05		103	4821	
9 PFPA										
263.00 > 219.00	4.843	4.850	-0.007	1.000	390402	0.4784		95.7	735	
10 PFMBA										
279.00 > 85.10	4.991	4.999	-0.008	1.030	455133	0.4880		97.6	3933	
D 12 13C2-4:2FTS										
329.10 > 80.90	5.115	5.123	-0.008	0.800	540686	4.58		97.6	3523	
13 4:2FTS										
327.10 > 307.00	5.115	5.123	-0.008	1.000	184955	0.9641	Target=1.50	103	1609	
327.10 > 80.90	5.115	5.123	-0.008	1.000	111165		1.66(0.75-2.24)	103	286	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.260	5.271	-0.011	0.992	148391	0.4702	Target=1.42	94.0	869	
295.00 > 84.90	5.260	5.271	-0.011	0.992	103504		1.43(0.71-2.13)	94.0	679	
D 15 13C5 PFHxA										
318.00 > 273.00	5.301	5.312	-0.011	1.000	1798429	2.14		107	6493	
* 16 13C2 PFHxA										
315.10 > 270.00	5.301	5.312	-0.011		3679709	5.00			8693	
17 PFHxA										
313.00 > 269.00	5.301	5.312	-0.011	1.000	355424	0.4579	Target=11.34	91.6	663	
313.00 > 118.90	5.301	5.312	-0.011	1.000	31823		11.17(5.67-17.02)	91.6	207	
18 5:3 FTCA										
341.00 > 237.10	5.364	5.375	-0.010	1.012	217689	2.17	Target=0.84	86.8	1292	
341.00 > 217.00	5.364	5.375	-0.010	1.012	284965		0.76(0.42-1.26)	86.8	706	
19 FBSA										
297.90 > 78.00	5.443	5.441	0.002	0.998	471596	0.5070		101	1822	
D 20 13C3 PFBS										
302.10 > 79.90	5.457	5.454	0.003	0.854	1645120	1.89		101	5176	
21 PFBS										
298.70 > 79.90	5.457	5.454	0.003	1.000	366777	0.3946	Target=3.25	88.9	959	
298.70 > 98.80	5.457	5.454	0.003	1.000	123046		2.98(1.62-4.87)	88.9	675	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.498	5.495	0.003	1.037	1437522	1.98		98.8	3898	
23 HFPO-DA										
284.90 > 168.90	5.498	5.495	0.003	1.000	270135	0.3773	Target=2.31	101	972	
284.90 > 184.90	5.498	5.495	0.003	1.000	116681		2.32(1.15-3.46)	101	768	
26 PFEESA										
314.80 > 134.90	5.698	5.697	0.001	1.075	975973	0.4124	Target=11.22	92.5	3517	
314.80 > 82.90	5.698	5.697	0.001	1.075	91113		10.71(5.61-16.83)	92.5	381	
27 PFHpA										
363.10 > 319.00	5.741	5.740	0.001	1.000	362362	0.5091	Target=2.31	102	894	
363.10 > 169.00	5.741	5.740	0.001	1.000	139504		2.60(1.16-3.47)	102	406	
D 28 13C4 PFHpA										
367.10 > 322.00	5.741	5.740	0.001	1.083	1692617	2.04		102	3309	
29 ADONA										
376.90 > 250.90	5.892	5.892	0.0	1.072	810275	0.4732	Target=1.98	100	2953	
376.90 > 84.80	5.892	5.892	0.0	1.072	385959		2.10(0.99-2.97)	100	1977	
D 30 13C2-6:2FTS										
429.10 > 80.90	5.937	5.936	0.001	0.929	460827	4.74		99.5	2309	
31 6:2FTS										
427.10 > 407.00	5.937	5.936	0.001	1.000	133620	0.8330	Target=1.40	87.5	182	
427.10 > 80.90	5.937	5.936	0.001	1.000	104374		1.28(0.70-2.10)	87.5	158	
32 PFPeS										
349.10 > 79.90	5.952	5.951	0.001	0.929	385174	0.4419	Target=3.31	94.0	2262	
349.10 > 98.90	5.952	5.951	0.001	0.929	122632		3.14(1.65-4.96)	94.0	367	
33 BTS										
280.00 > 147.00	6.122	6.121	0.001	0.956	948777	0.4659		95.2	4724	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 PFOA										
413.00 > 369.00	6.161	6.160	0.001	1.002	331416	0.4849	Target=1.89	97.0	295	
413.00 > 169.00	6.148	6.160	-0.012	1.000	173801		1.91(0.95-2.84)	97.0	174	
D 35 13C8 PFOA										
421.10 > 376.00	6.148	6.160	-0.012	1.000	2148001	1.98		98.8	6312	
* 36 13C4 PFOA										
417.10 > 372.00	6.148	6.160	-0.012		5430546	5.00			11994	
37 7:3 FTCA										
441.00 > 316.90	6.212	6.212	0.0	1.172	119387	2.31	Target=0.34	92.4	357	
441.00 > 336.90	6.212	6.212	0.0	1.172	318791		0.37(0.17-0.50)	92.4	1546	
* 40 18O2 PFHxS										
403.00 > 83.90	6.392	6.404	-0.012		1468789	1.90			7004	
D 38 13C3 PFHxS										
402.10 > 79.90	6.404	6.404	0.0	1.002	1485307	1.87		98.5	5240	
39 PFHxS										
398.70 > 79.90	6.392	6.404	-0.012	0.998	290908	0.4302	Target=3.47	94.3	568	
398.70 > 98.90	6.392	6.404	-0.012	0.998	88039		3.30(1.73-5.20)	94.3	186	
D 41 13C9 PFNA										
472.10 > 427.00	6.568	6.568	0.0	1.000	1811827	2.12		106	6016	
42 PFNA										
463.00 > 419.00	6.582	6.568	0.014	1.002	390133	0.4454	Target=2.73	89.1	380	
463.00 > 219.00	6.568	6.568	0.0	1.000	141397		2.76(1.37-4.09)	89.1	140	
* 43 13C5 PFNA										
468.00 > 423.00	6.568	6.581	-0.013		1824398	2.00			5166	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.758	6.758	0.0	1.057	445077	4.80		99.9	529	
45 8:2FTS										
527.10 > 507.00	6.758	6.770	-0.012	1.000	115234	0.9318	Target=1.55	97.1	598	
527.10 > 80.80	6.758	6.770	-0.012	1.000	76870		1.50(0.78-2.33)	97.1	471	
46 PFECHS										
461.00 > 381.00	6.808	6.808	0.0	1.063	107133	0.4545	Target=0.25	98.4	674	
461.00 > 99.00	6.808	6.808	0.0	1.063	431642		0.25(0.13-0.38)	98.4	804	
47 FHxSA										
397.90 > 78.00	6.833	6.832	0.001	1.067	527176	0.4856		97.1	1787	
48 PFHpS										
449.00 > 79.90	6.845	6.845	0.0	0.941	371692	0.4487	Target=4.28	94.1	1468	
449.00 > 98.80	6.845	6.845	0.0	0.941	79513		4.67(2.14-6.42)	94.1	487	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.929	6.929	0.0	0.950	907727	4.81		96.2	1815	
50 NMeFOSAA										
570.10 > 419.00	6.929	6.929	0.0	1.000	99324	0.4727	Target=1.90	94.5	231	
570.10 > 483.00	6.929	6.929	0.0	1.000	53215		1.87(0.95-2.85)	94.5	104	
* 51 13C2 PFDA										
515.10 > 470.10	7.000	7.000	0.0		1708352	2.00			5977	
D 52 13C6 PFDA										
519.10 > 474.10	7.000	7.000	0.0	1.000	1795787	2.08		104	7792	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
53 PFDA										
512.90 > 469.00	7.000	7.000	0.0	1.000	255874	0.4437	Target=3.34	88.7	988	
512.90 > 219.00	7.000	7.000	0.0	1.000	86102		2.97(1.67-5.01)	88.7	580	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.111	7.111	0.0	0.975	794699	4.87		97.4	1198	
55 NEtFOSAA										
584.20 > 419.10	7.111	7.111	0.0	1.000	67868	0.5353	Target=1.51	107	22762	
584.20 > 526.00	7.111	7.111	0.0	1.000	46849		1.45(0.75-2.26)	107	13842	
D 56 13C8 PFOS										
507.10 > 79.90	7.278	7.291	-0.013	0.998	1254756	1.95		102	1287	
* 57 13C4 PFOS										
502.80 > 79.90	7.291	7.291	0.0		1215050	1.92			4116	
58 PFOS										
498.90 > 79.90	7.291	7.291	0.0	1.002	396353	0.4278	Target=4.89	92.0	586	
498.90 > 98.80	7.291	7.291	0.0	1.002	84103		4.71(2.45-7.34)	92.0	255	
D 59 13C7 PFUnA										
570.00 > 525.10	7.435	7.435	0.0	1.062	1790839	2.08		104	6594	
60 PFUnA										
563.10 > 519.00	7.435	7.435	0.0	1.000	197821	0.4756	Target=3.26	95.1	1259	
563.10 > 269.10	7.435	7.435	0.0	1.000	57448		3.44(1.63-4.88)	95.1	449	
61 9ClFOS										
530.80 > 351.00	7.620	7.620	0.0	1.047	804883	0.4427	Target=3.01	94.8	3214	
532.80 > 353.00	7.620	7.620	0.0	1.047	265827		3.03(1.51-4.52)	94.8	1999	
62 PFNS										
548.80 > 79.90	7.723	7.723	0.0	1.061	323685	0.4543	Target=4.32	94.5	1566	
548.80 > 98.80	7.723	7.723	0.0	1.061	79537		4.07(2.16-6.47)	94.5	748	
63 PFDoA										
613.10 > 569.00	7.861	7.861	0.0	1.000	202916	0.4977	Target=3.42	99.5	992	
613.10 > 319.00	7.861	7.861	0.0	1.000	58579		3.46(1.71-5.13)	99.5	600	
D 64 13C2 PFDoA										
615.10 > 570.00	7.861	7.861	0.0	1.123	1168899	1.93		96.3	1157	
D 65 13C8 FOSA										
506.10 > 77.80	7.957	7.958	-0.001	1.091	1455065	2.02		101	7889	
66 PFOSA										
498.10 > 77.90	7.957	7.971	-0.014	1.000	356523	0.4687	Target=43.97	93.7	1051	
498.10 > 478.00	7.957	7.971	-0.014	1.000	8983		39.69(21.98-65.95)	93.7	14.5	
67 PFDS										
599.00 > 79.90	8.117	8.118	-0.001	1.115	345637	0.4576	Target=4.28	94.9	1759	
599.00 > 98.80	8.117	8.118	-0.001	1.115	77843		4.44(2.14-6.41)	94.9	830	
68 PFTrDA										
663.00 > 619.00	8.262	8.262	0.0	0.959	233566	0.4703	Target=4.49	94.1	1128	
663.00 > 168.90	8.262	8.262	0.0	0.959	49474		4.72(2.24-6.73)	94.1	524	
69 11ClFOS										
630.90 > 450.90	8.425	8.425	0.0	1.158	431982	0.4328	Target=2.77	91.7	5198	
632.90 > 452.90	8.425	8.425	0.0	1.158	161928		2.67(1.39-4.16)	91.7	1977	
70 PFTeDA										
713.10 > 168.90	8.616	8.616	0.0	1.000	35736	0.4635	Target=0.89	92.7	493	
713.10 > 219.00	8.616	8.616	0.0	1.000	38348		0.93(0.44-1.33)	92.7	396	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 71 13C2 PFTeDA										
715.20 > 670.00	8.616	8.616	0.0	1.231	1036757	2.06		103	4779	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.729	8.744	-0.015	1.197	572942	5.03		101	273	
73 N-MeFOSE-M										
616.10 > 58.90	8.757	8.758	-0.001	1.003	515751	2.35		94.1	491	
74 PFDoS										
699.10 > 79.90	8.798	8.799	-0.001	1.209	303825	0.4361	Target=4.86	89.9	2681	
699.10 > 98.80	8.798	8.799	-0.001	1.209	67148		4.52(2.43-7.29)	89.9	1161	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.825	8.826	-0.001	1.210	399032	1.96		97.9	3020	
76 NMeFOSA										
511.90 > 219.00	8.839	8.839	0.0	1.002	98505	0.4960	Target=0.74	99.2	560	
511.90 > 169.00	8.839	8.839	0.0	1.002	125907		0.78(0.37-1.10)	99.2	416	
D 77 d9-N-EtFOSE										
639.20 > 58.90	8.919	8.932	-0.013	1.223	754616	4.99		99.8	638	
78 N-EtFOSE-M										
630.00 > 58.90	8.932	8.945	-0.013	1.001	758815	2.38		95.3	2166	
D 79 d5-NEtPFOSA										
531.10 > 219.00	8.996	8.996	0.0	1.234	485491	1.96		97.8	2904	
80 N-EtFOSA-M										
526.00 > 219.00	8.996	9.009	-0.013	1.000	118384	0.4972	Target=0.84	99.4	559	
526.00 > 169.00	8.996	9.009	-0.013	1.000	135652		0.87(0.42-1.25)	99.4	611	
81 Perfluorooctadecanoic acid										
913.00 > 869.00	9.790	9.782	0.008	1.136	200831	0.6411	Target=11.42	128	5024	
913.00 > 169.00	9.790	9.782	0.008	1.136	16183		12.41(5.71-17.13)	128	581	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL3_00036 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 12:07:22 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-03.d

Injection Date: 29-Jan-2026 01:06:07 Instrument ID: 30576

Lims ID: IC CAL 3

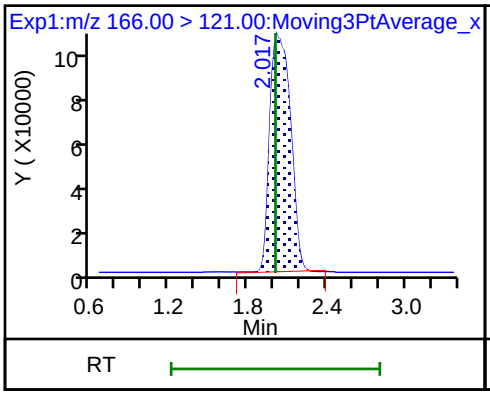
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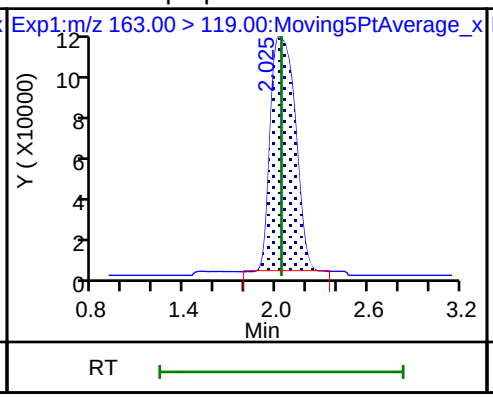
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Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

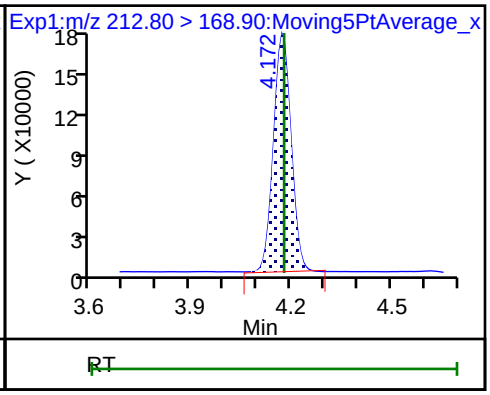
D 1 13C3PFPrA



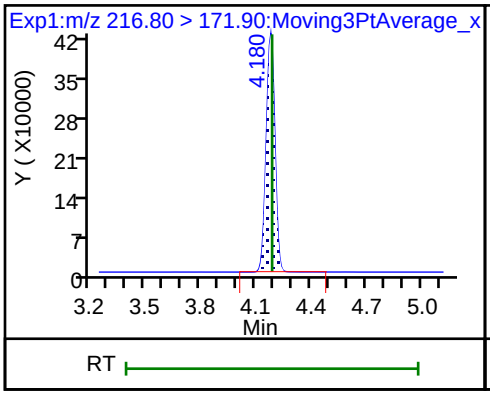
2 Perfluoropropionic acid



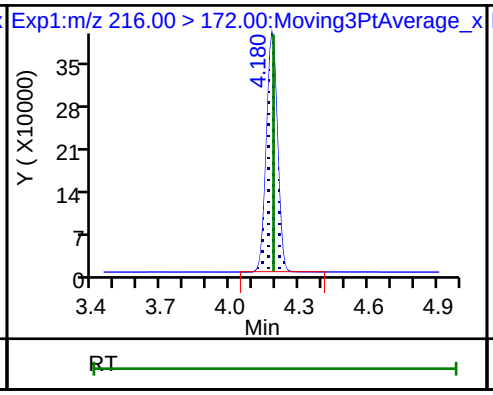
3 PFBA



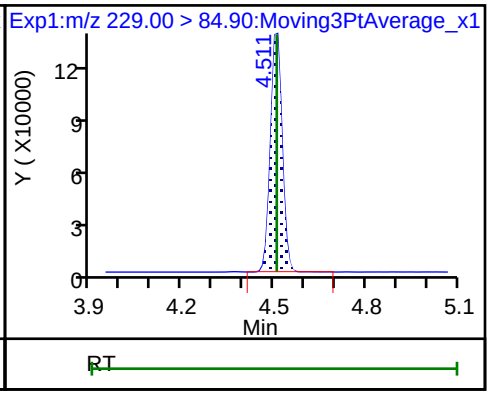
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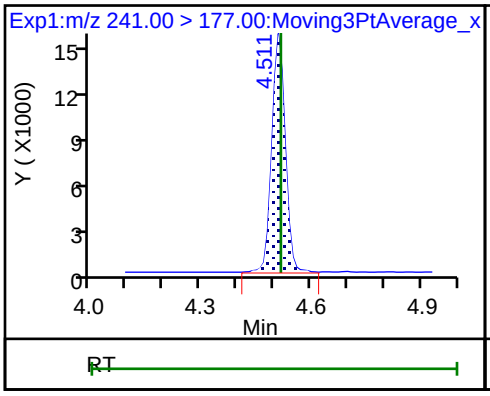
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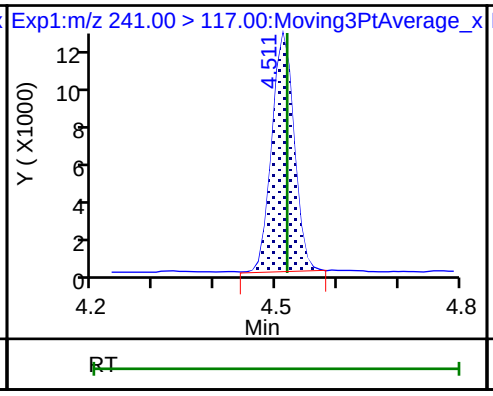
6 PFMPA



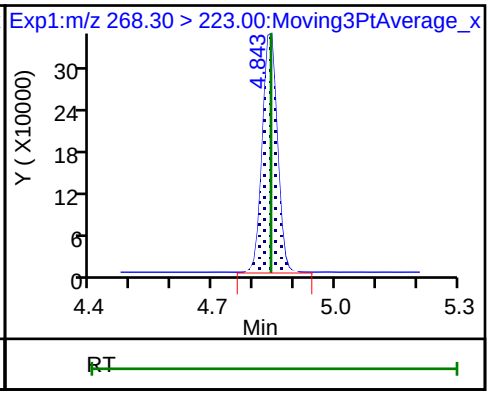
7 3:3 FTCA



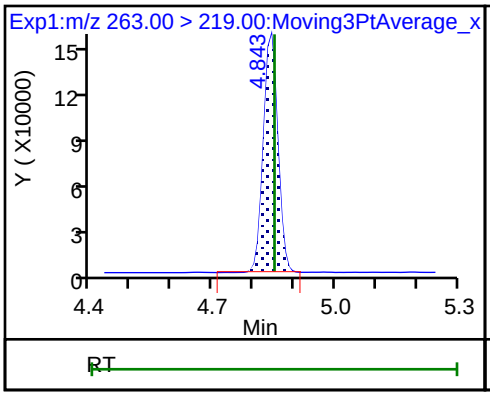
7 3:3 FTCA



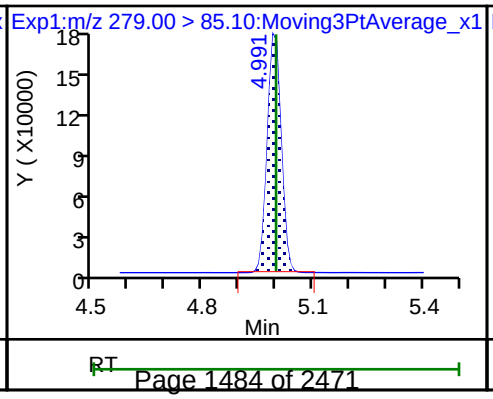
D 8 13C5 PFPeA



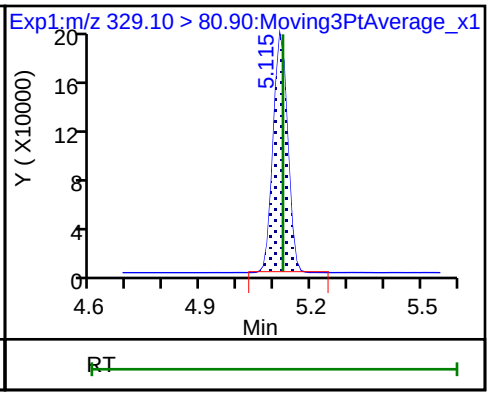
9 PFPA



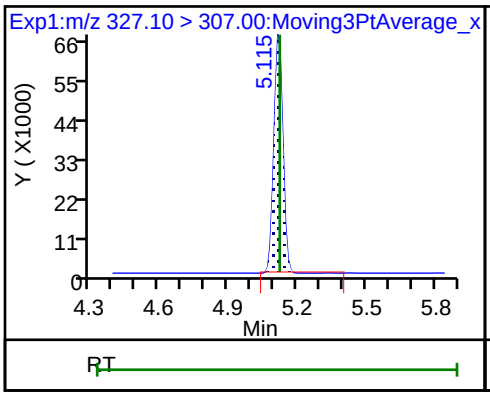
10 PFMBA



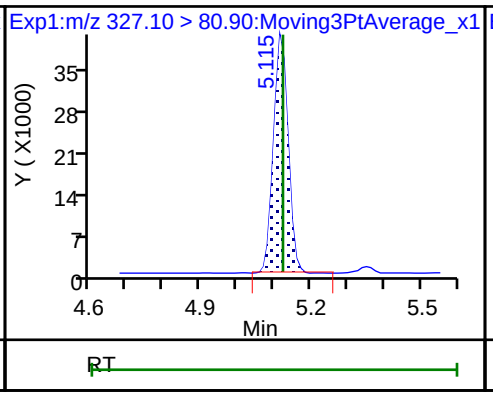
D 12 13C2-4:2FTS



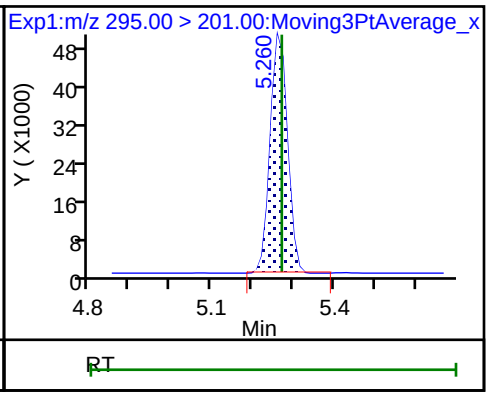
13 4:2FTS



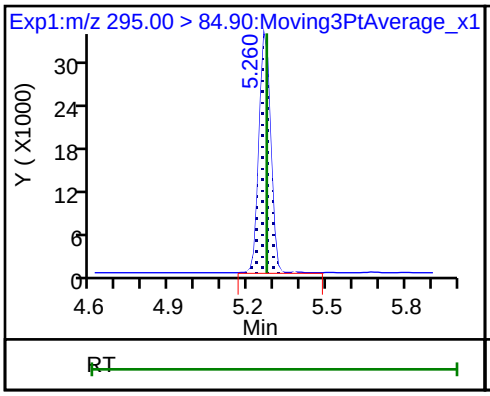
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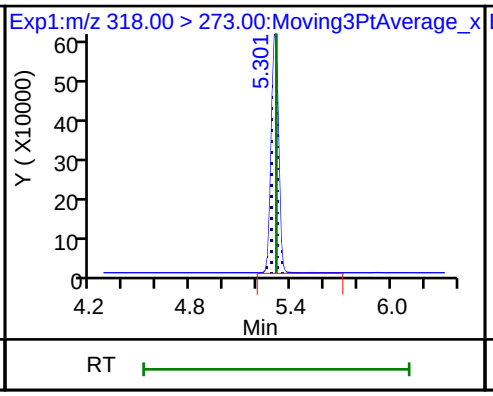
14 NFDHA



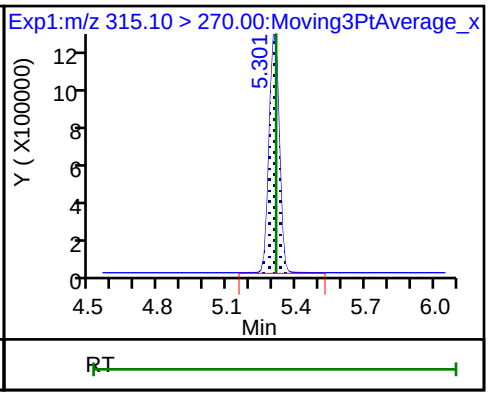
14 NFDHA



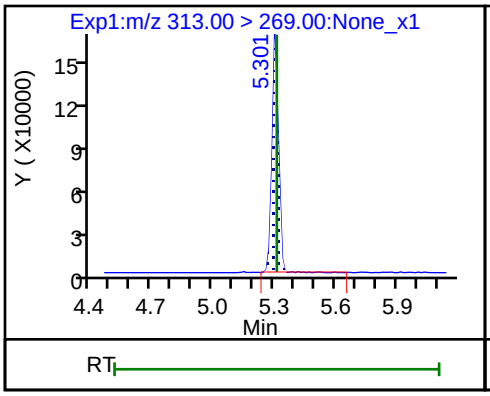
D 15 13C5 PFHxA



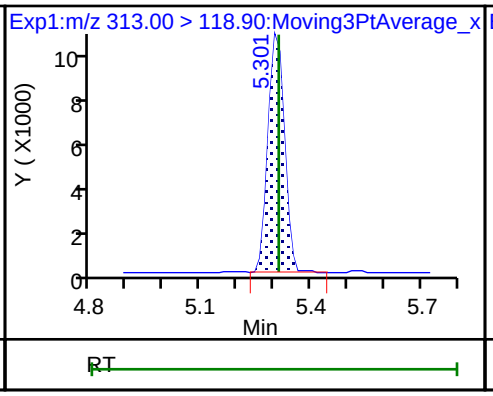
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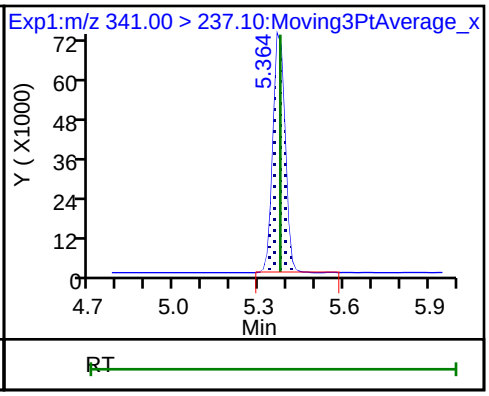
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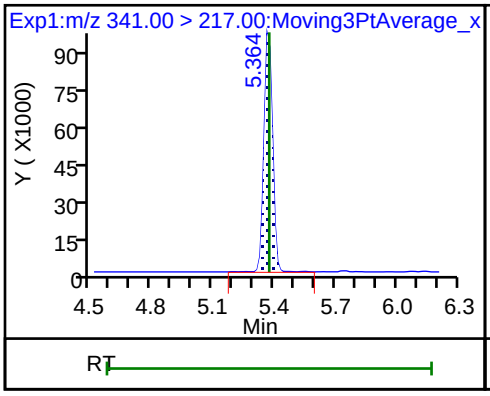
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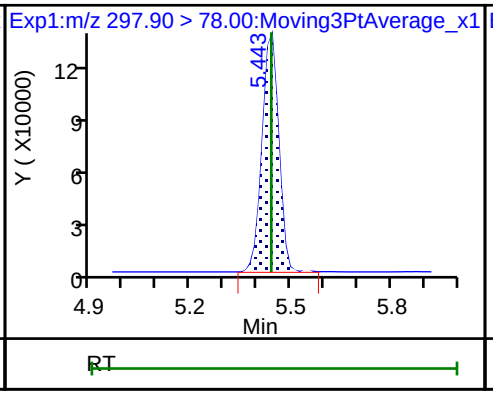
18 5:3 FTCA



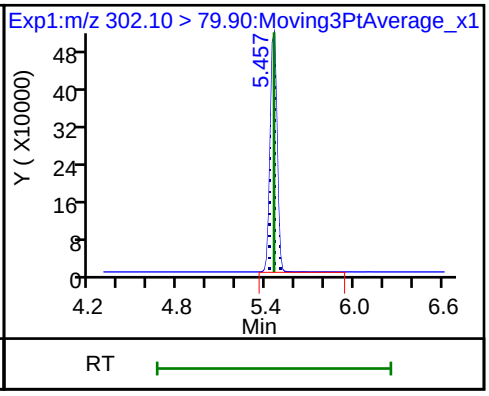
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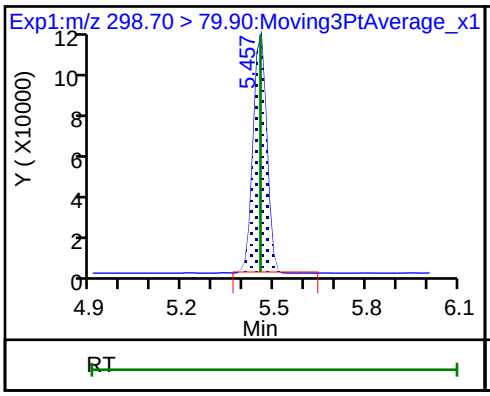
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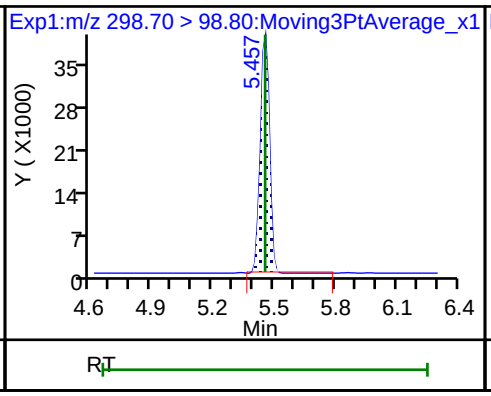
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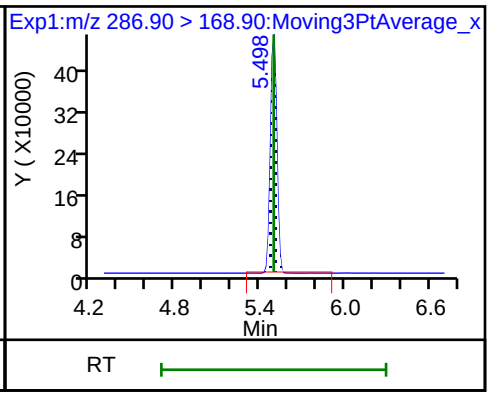
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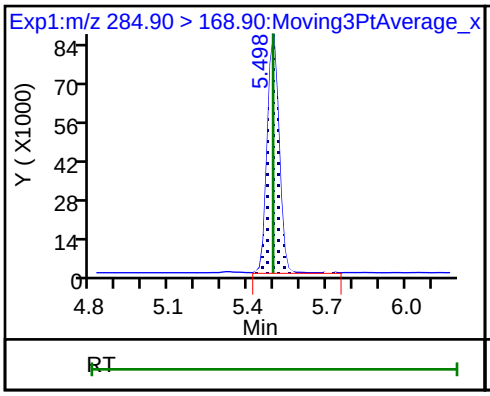
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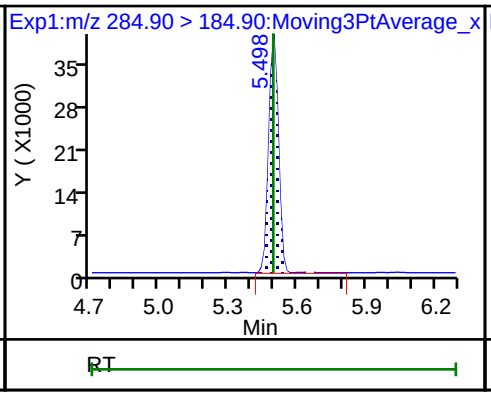
D 22 13C3 HFPO-DA



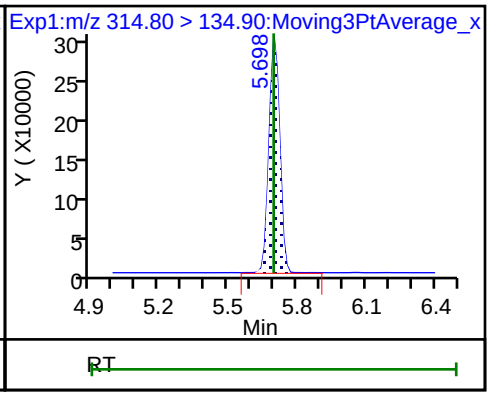
23 HFPO-DA



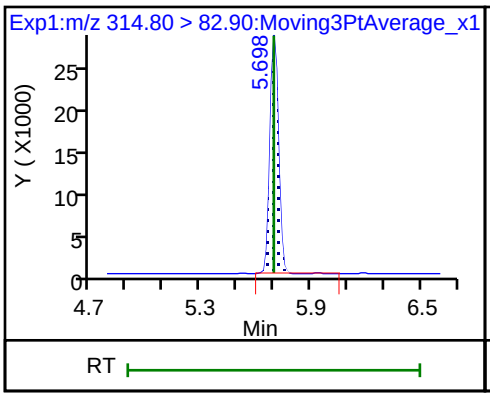
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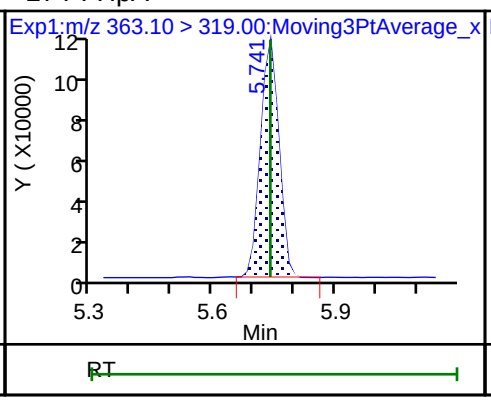
26 PFEESA



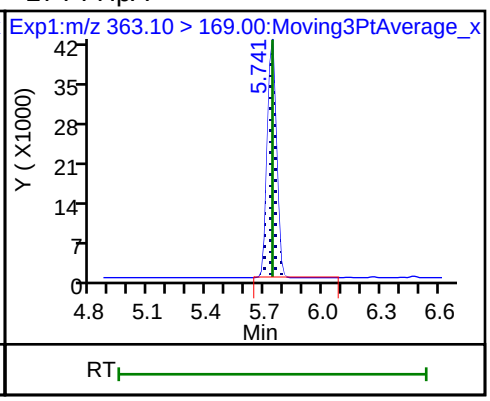
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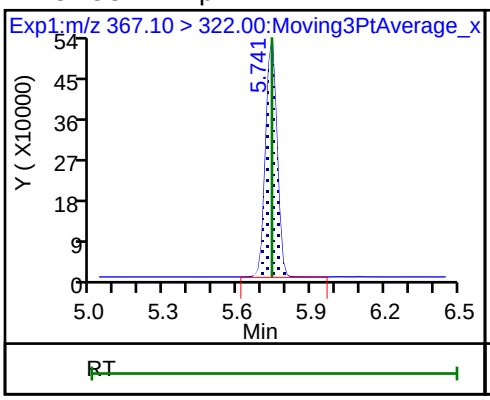
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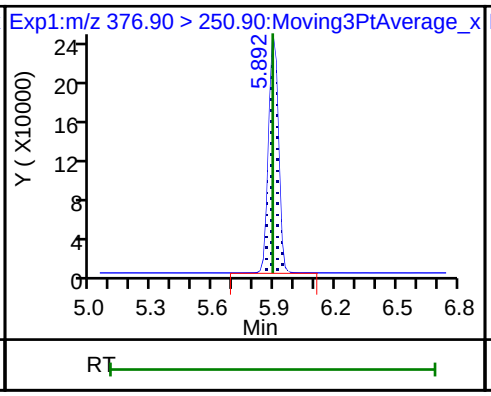
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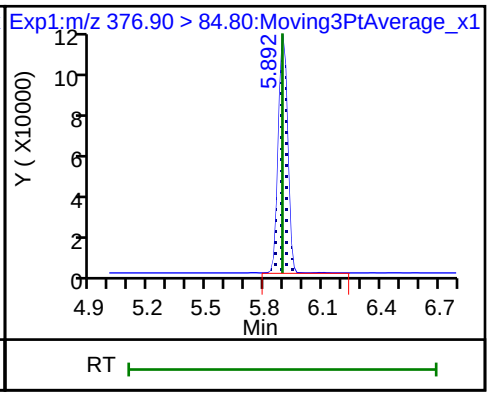
D 28 13C4 PFHpA



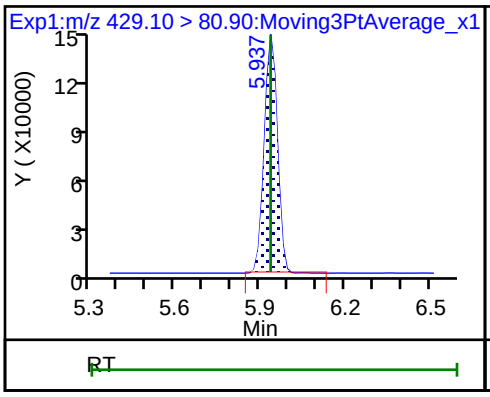
29 ADONA



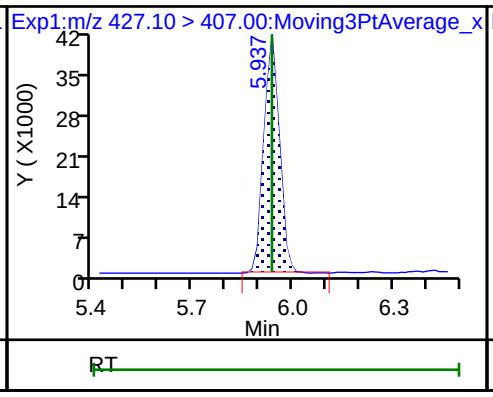
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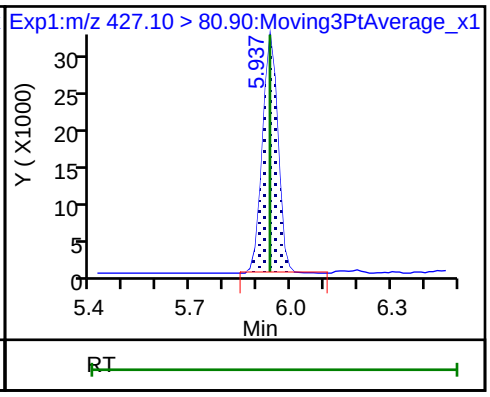
D 30 13C2-6:2FTS



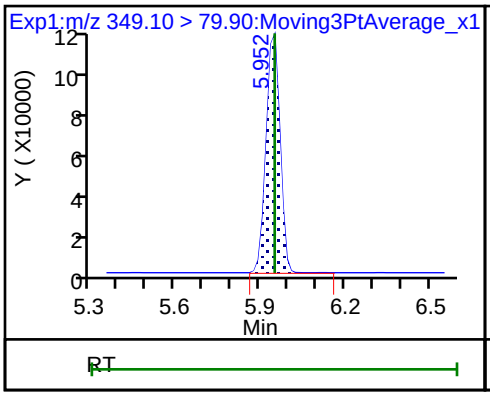
31 6:2FTS



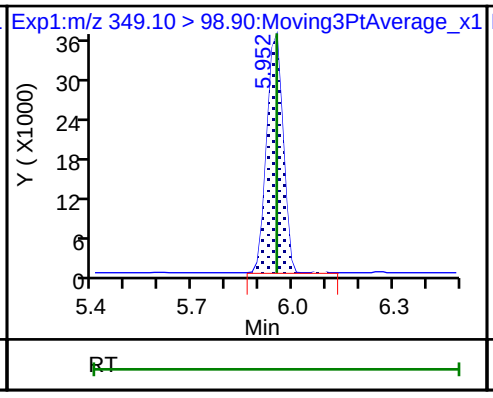
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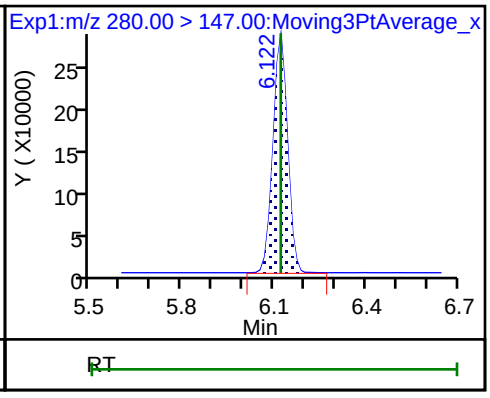
32 PFPeS



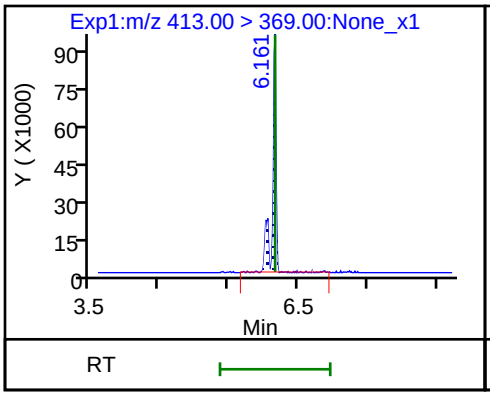
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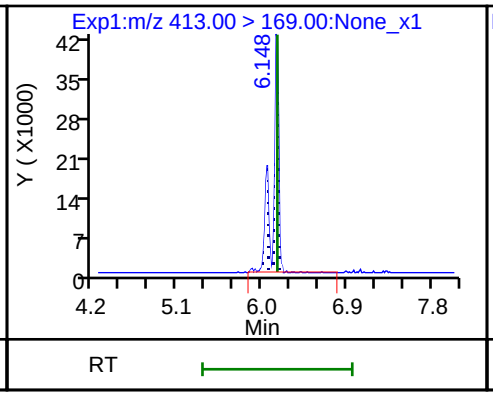
33 BTS



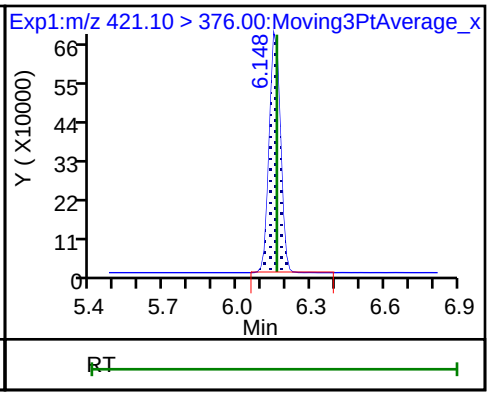
34 PFOA



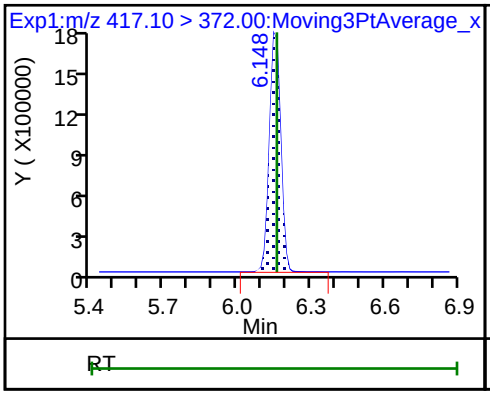
34 PFOA



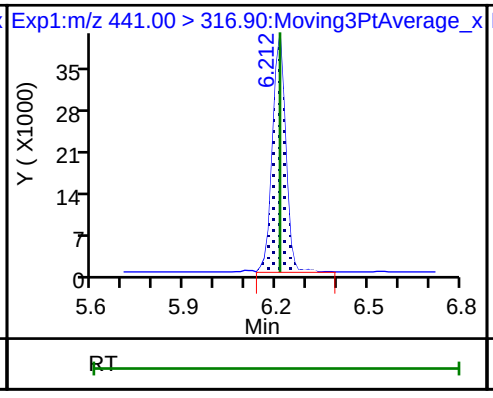
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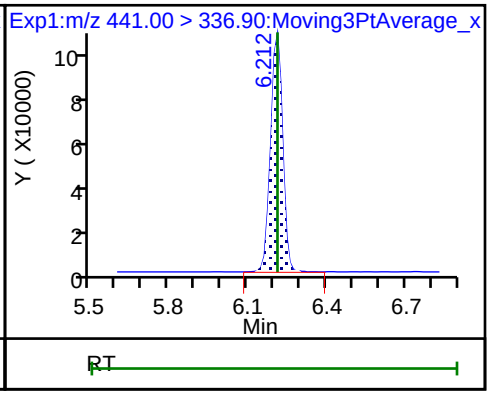
* 36 13C4 PFOA



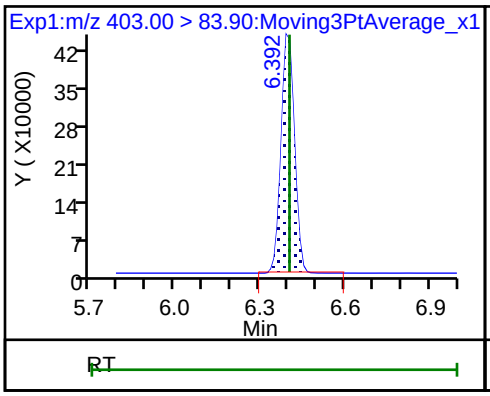
37 7:3 FTCA



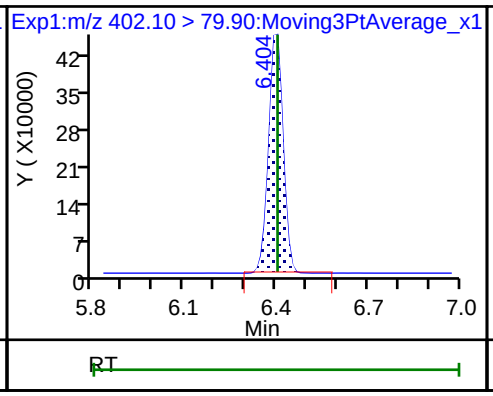
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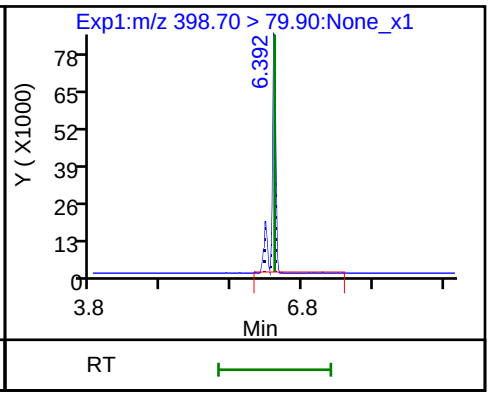
* 40 18O2 PFHxS



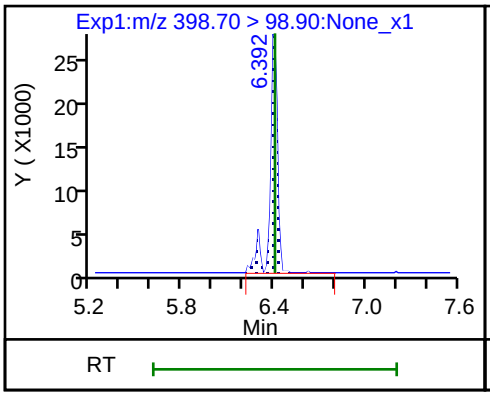
D 38 13C3 PFHxS



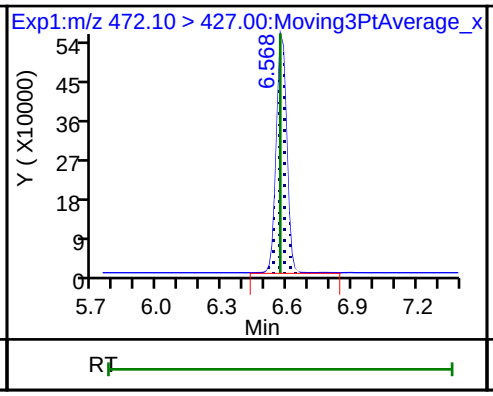
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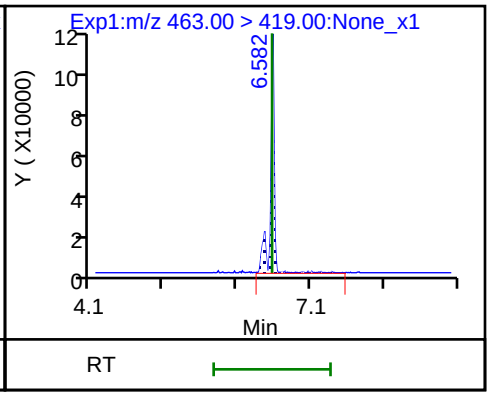
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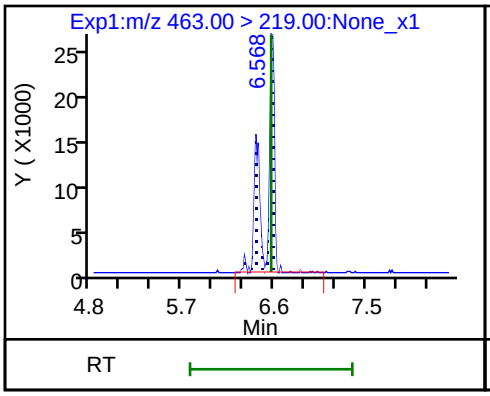
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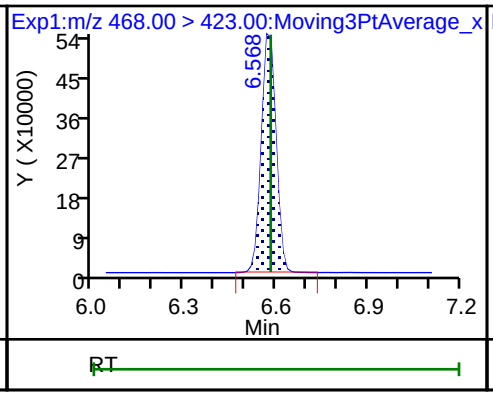
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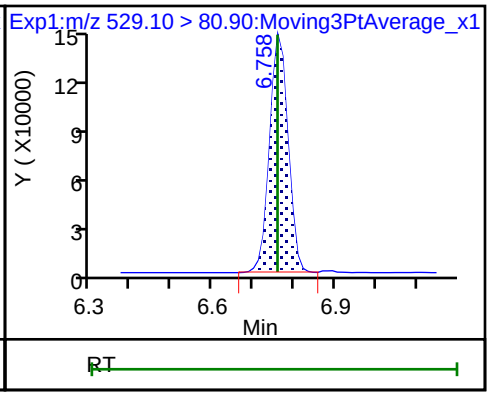
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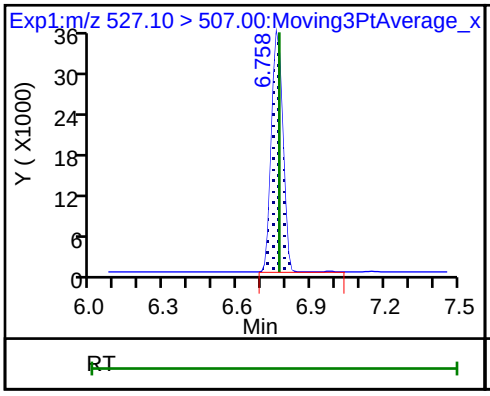
* 43 13C5 PFNA



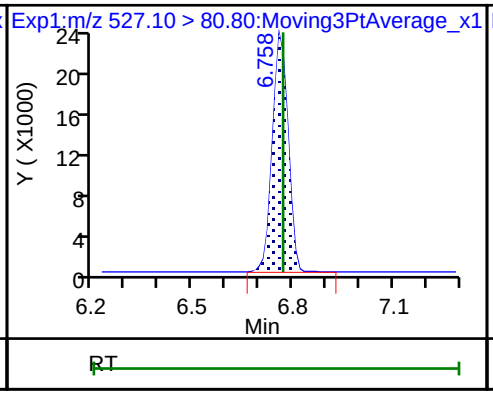
D 44 13C2-8:2FTS



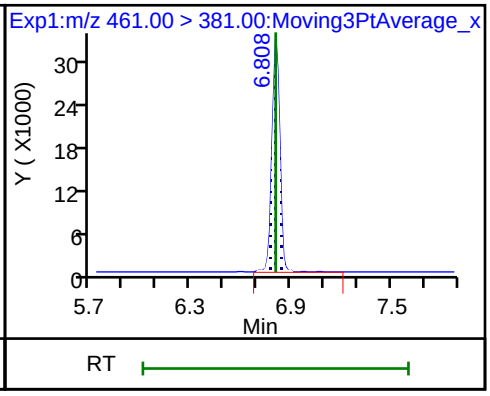
45 8:2FTS



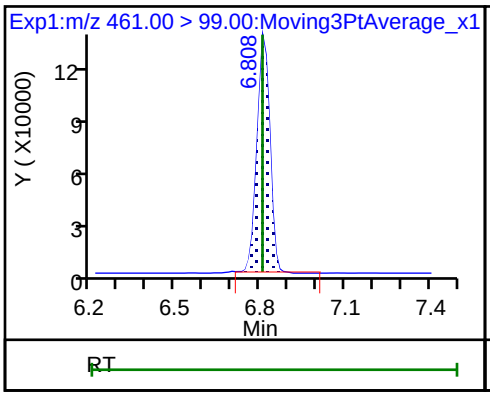
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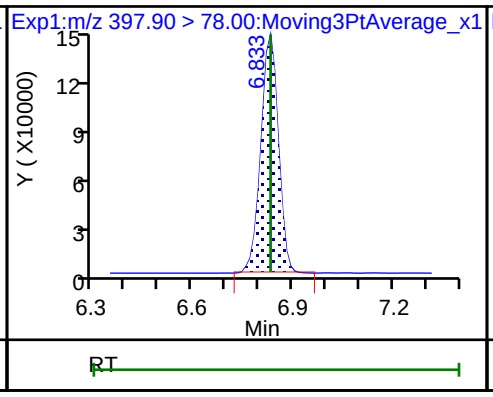
46 PFECHS



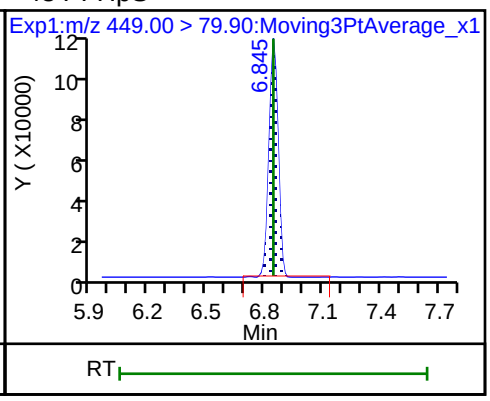
46 PFECHS



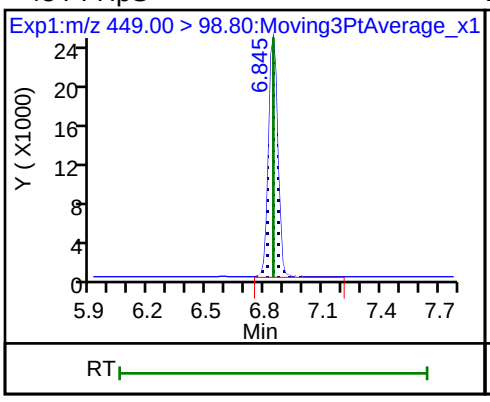
47 FHxSA



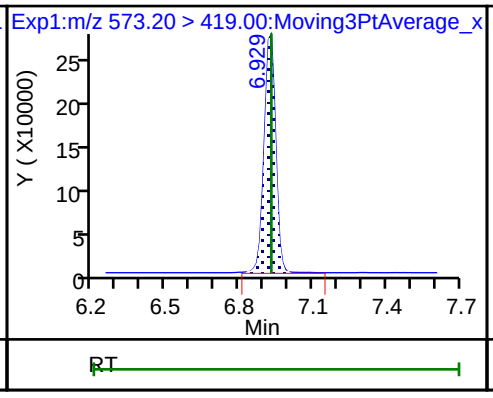
48 PFHpS



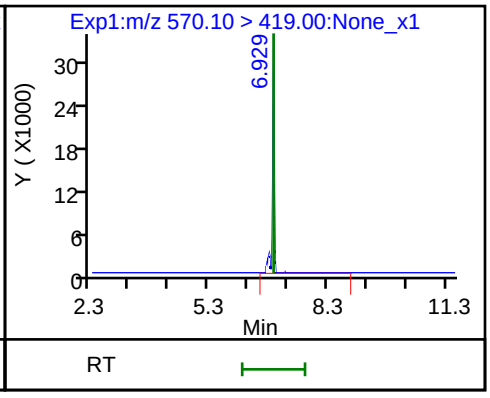
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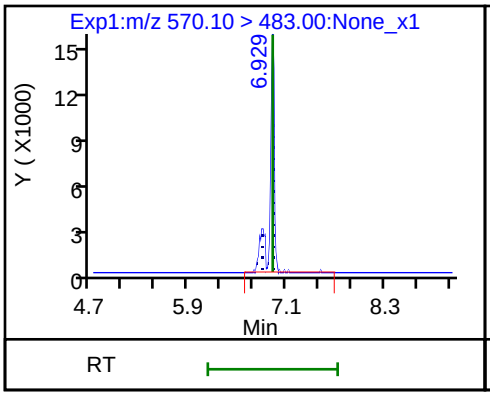
D 49 d3-NMeFOSAA



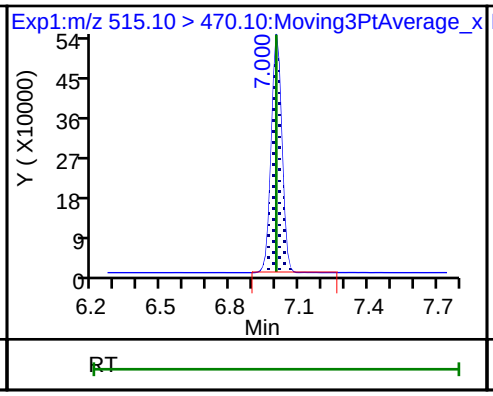
50 NMeFOSAA



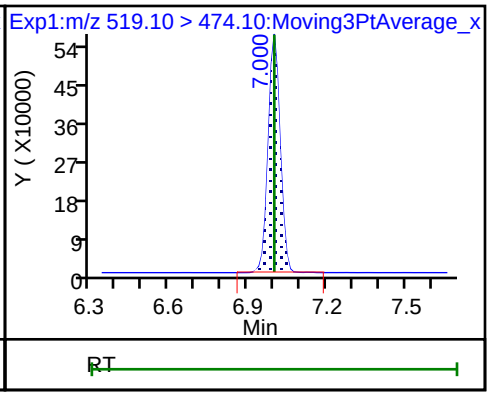
50 NMeFOSAA



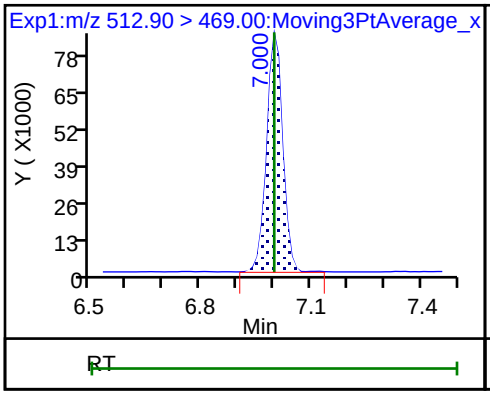
* 51 13C2 PFDA



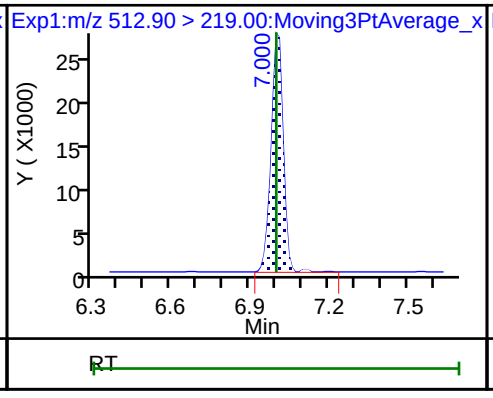
D 52 13C6 PFDA



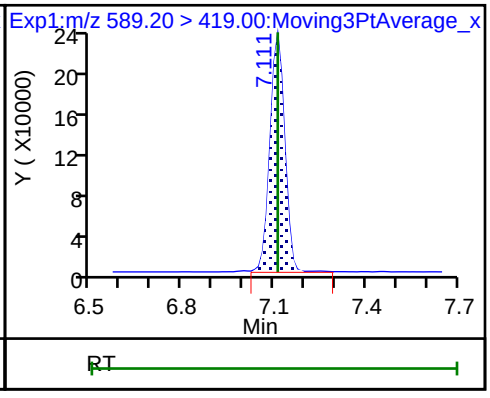
53 PFDA



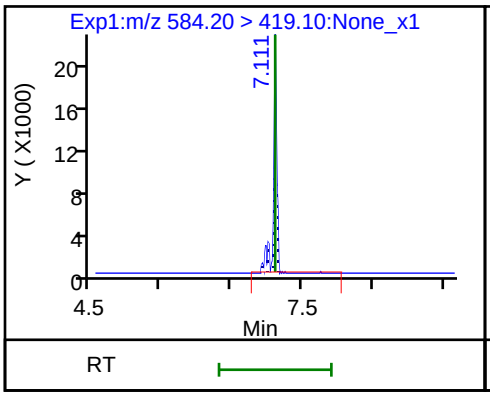
53 PFDA



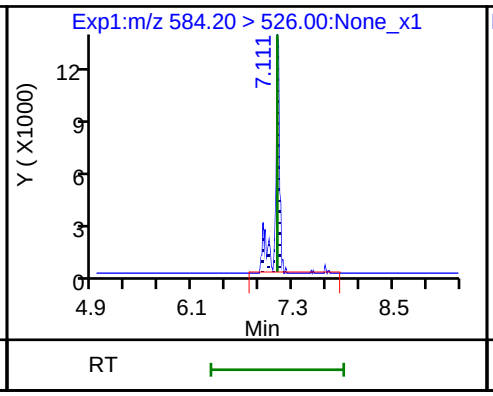
D 54 d5-NEtFOSAA



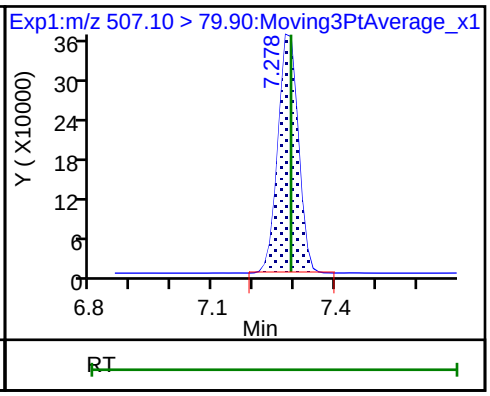
55 NEtFOSAA



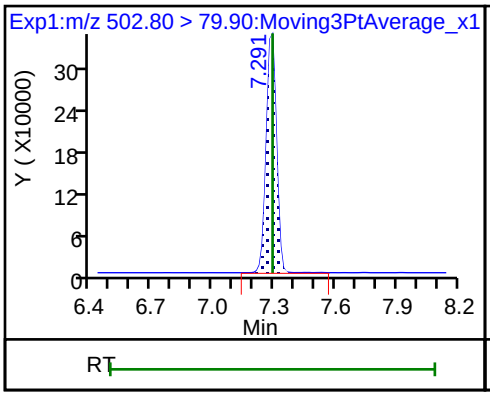
55 NEtFOSAA



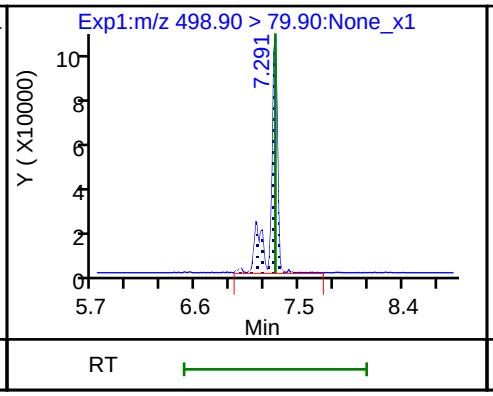
D 56 13C8 PFOS



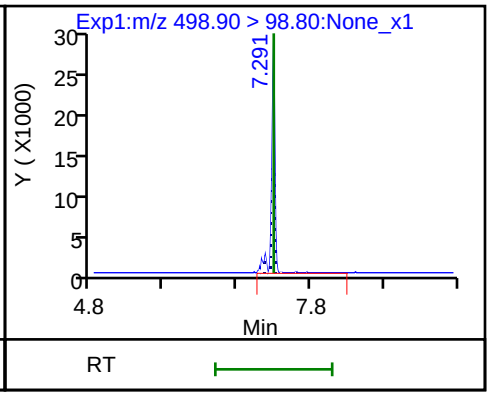
* 57 13C4 PFOS



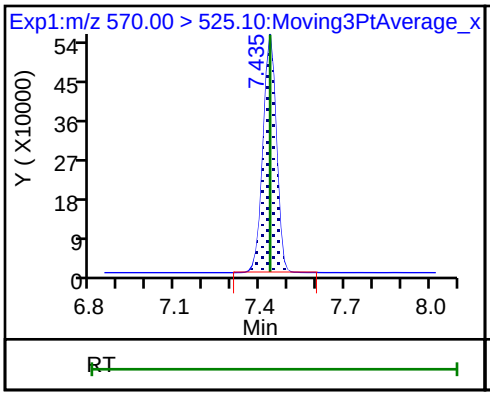
58 PFOS



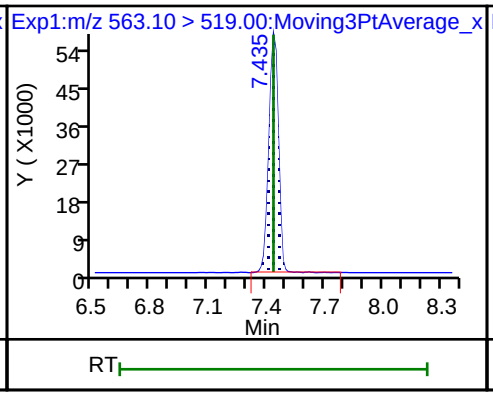
58 PFOS



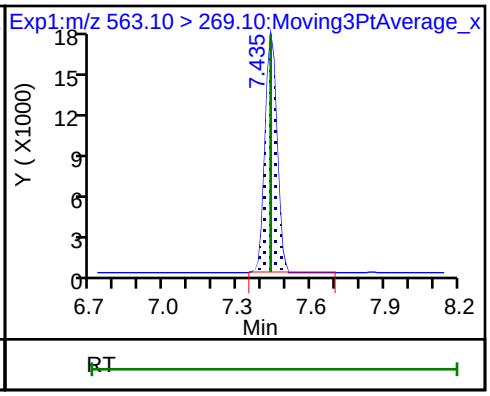
D 59 13C7 PFUnA



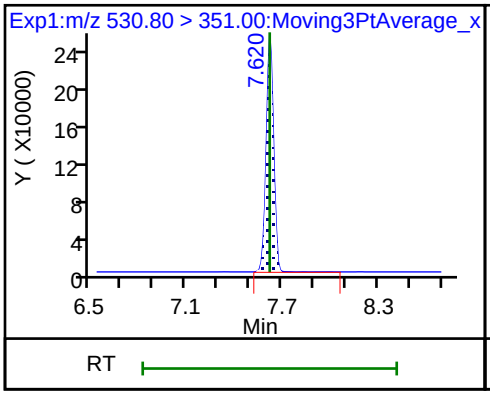
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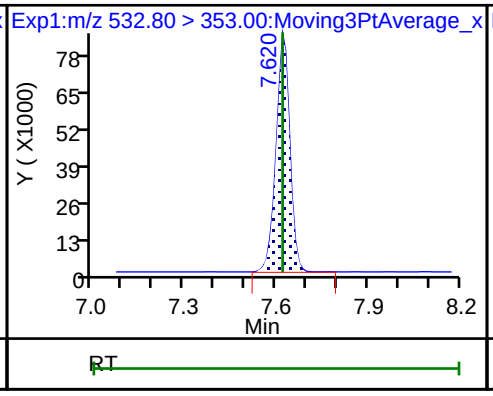
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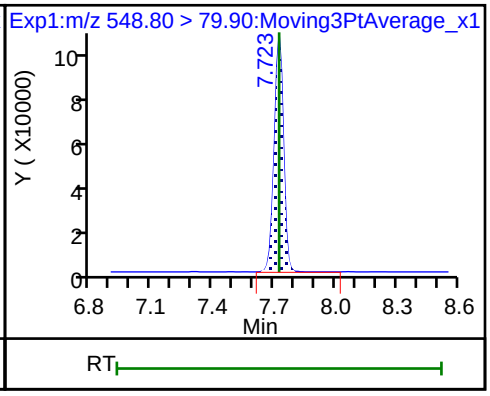
61 9ClFOS



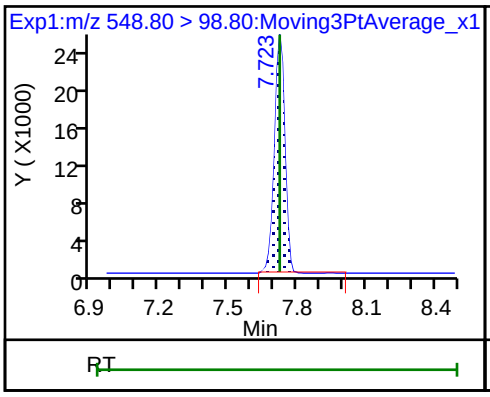
61 9ClFOS



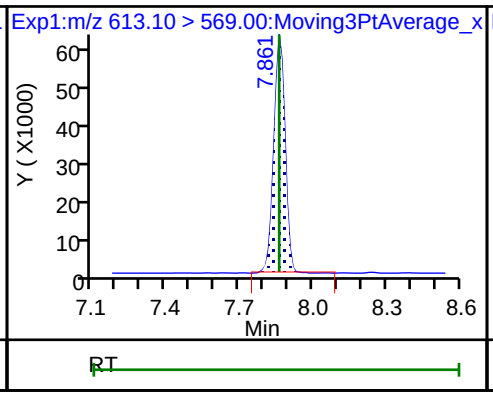
62 PFNS



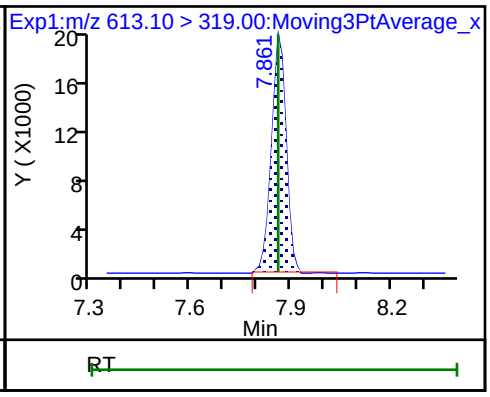
62 PFNS



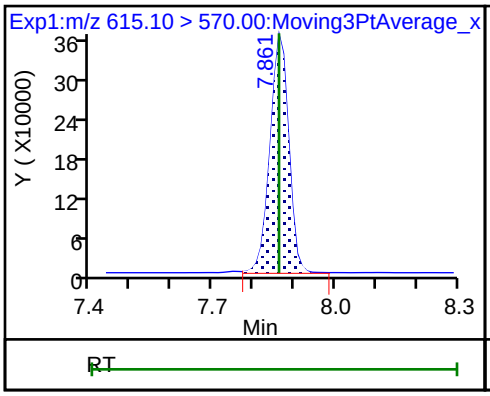
63 PFDoA



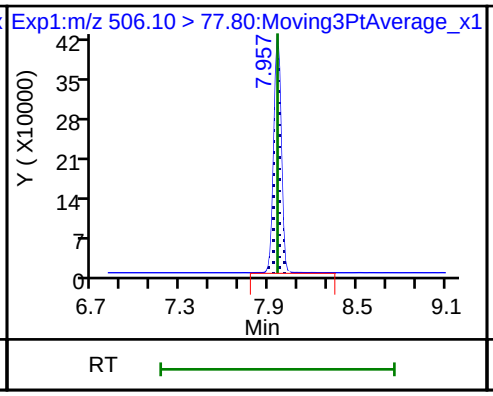
63 PFDoA



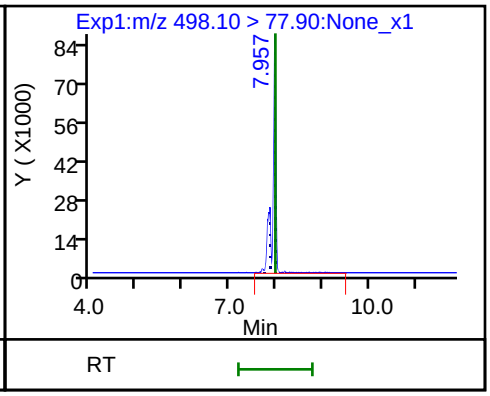
D 64 13C2 PFDoA



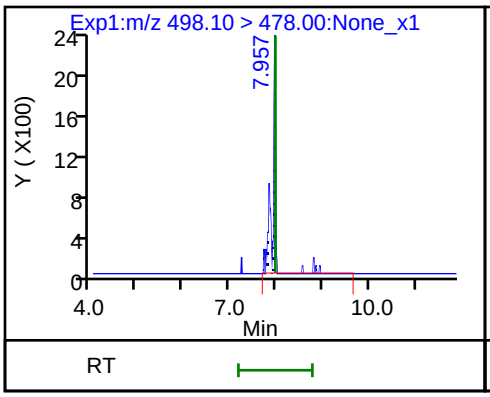
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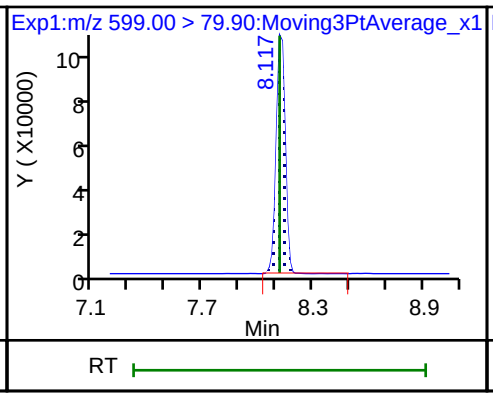
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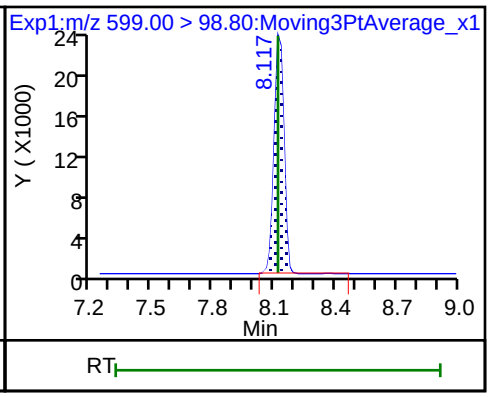
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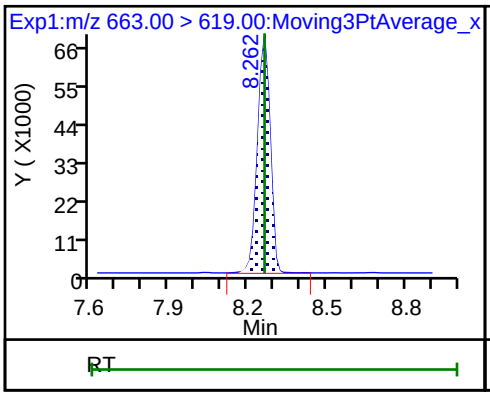
67 PFDS



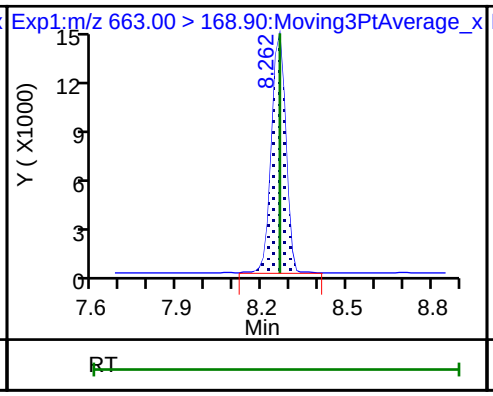
67 PFDS



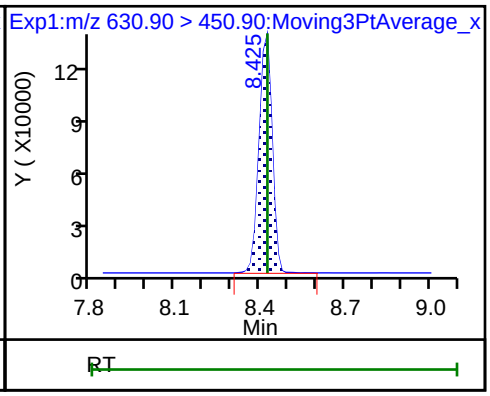
68 PFTrDA



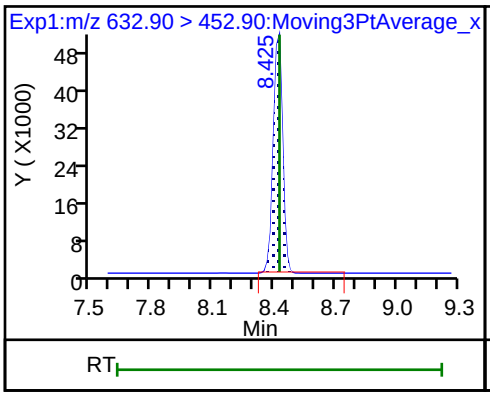
68 PFTrDA



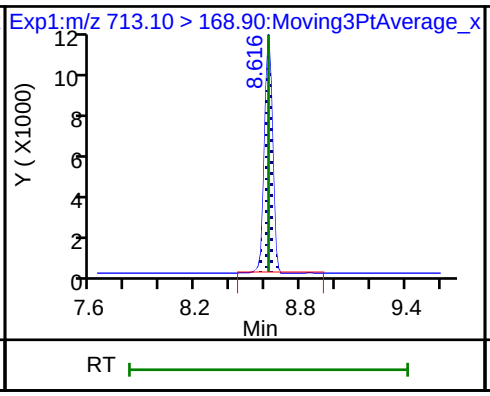
69 11ClFOS



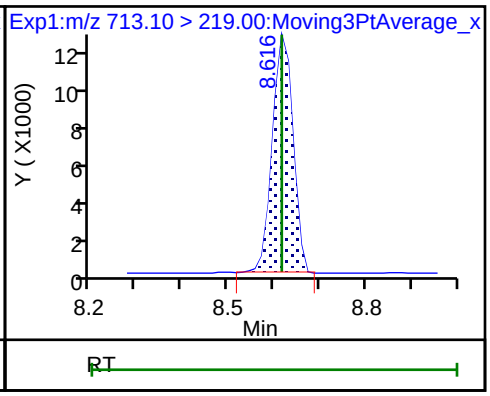
69 11ClFOS



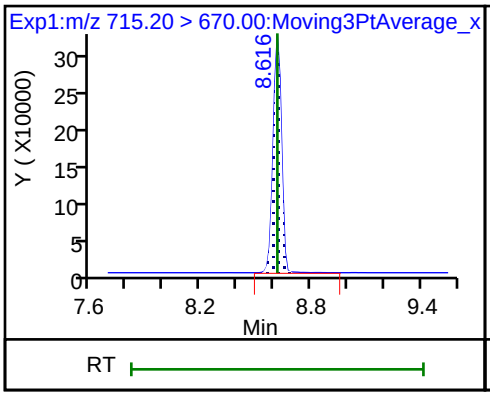
70 PFTeDA



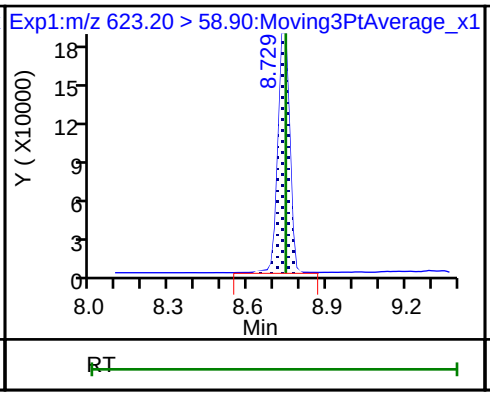
70 PFTeDA



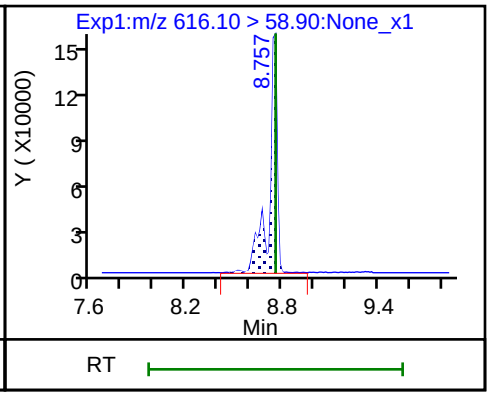
D 71 13C2 PFTeDA



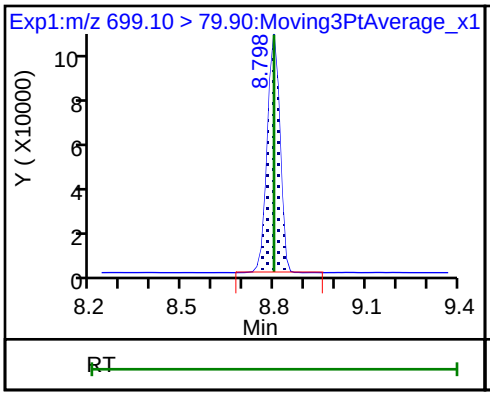
D 72 d7-N-Me-FOSE



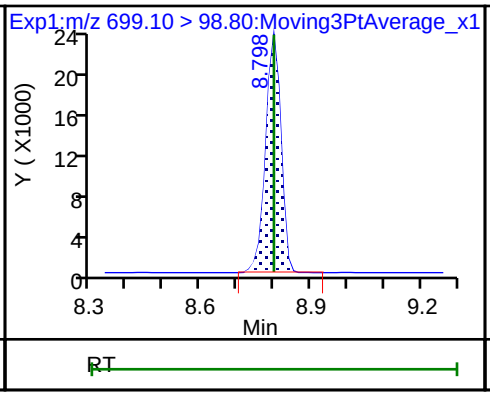
73 N-MeFOSE-M



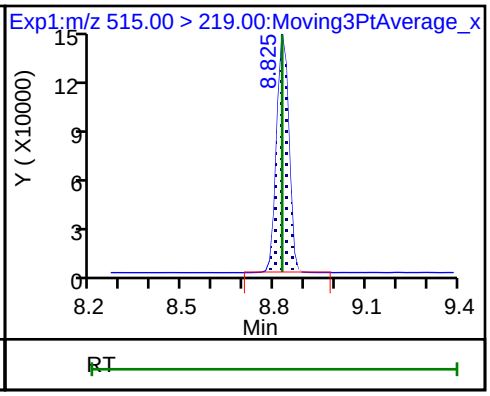
74 PFDoS



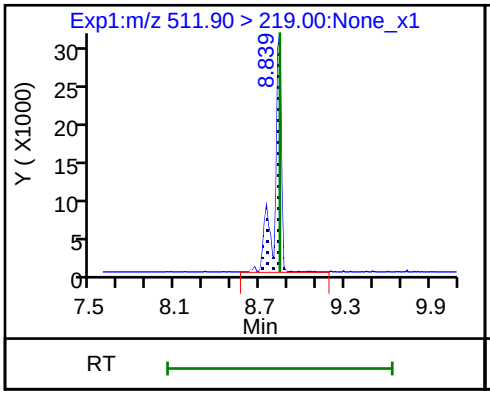
74 PFDoS



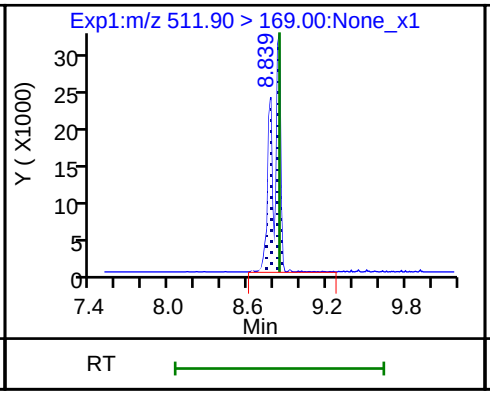
D 75 d3-NMePFOSA



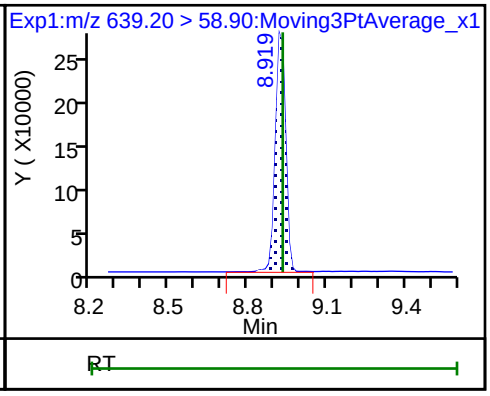
76 NMeFOSA



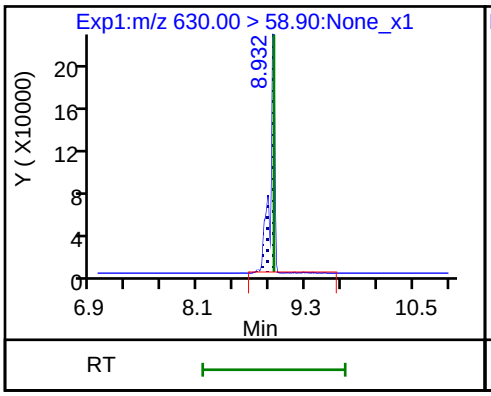
76 NMeFOSA



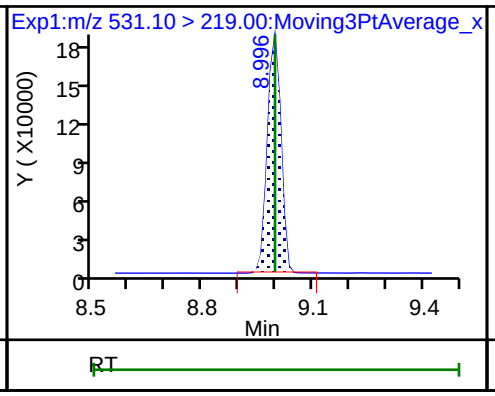
D 77 d9-N-EtFOSE



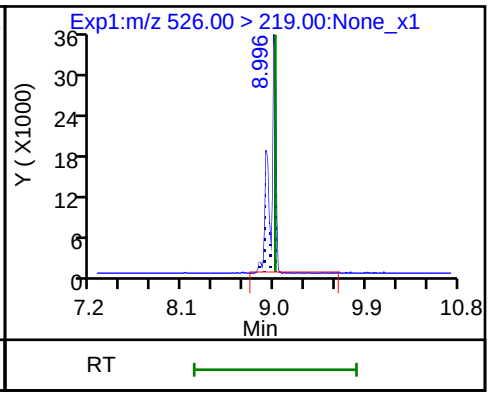
78 N-EtFOSE-M



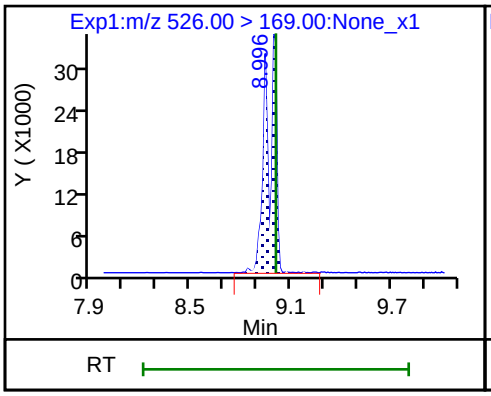
D 79 d5-NEtPFOSA



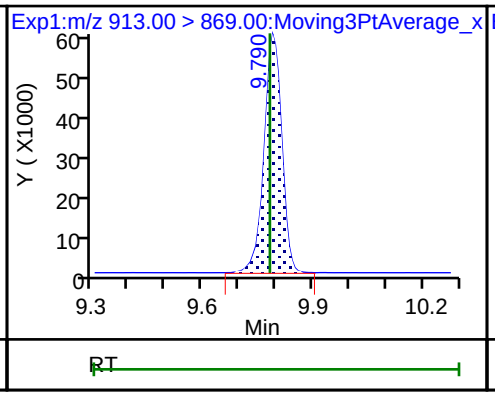
80 N-EtFOSA-M



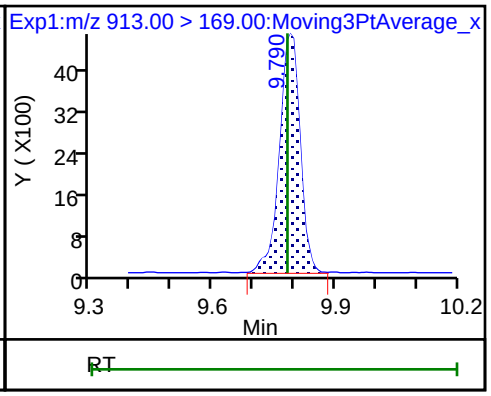
80 N-EtFOSA-M



81 Perfluorooctadecanoic acid



81 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-04.d
Lims ID: IC CAL 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Jan-2026 01:19:42 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub14

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 12:07:35 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1631

First Level Reviewer: M4QQ Date: 29-Jan-2026 06:55:23
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.009	2.008	0.001	0.480	1233461	2.06		103	569	
2 Perfluoropropionic acid										
163.00 > 119.00	2.034	2.033	0.001	1.012	2733448	4.85		97.0	6071	
3 PFBA										
212.80 > 168.90	4.180	4.179	0.001	1.000	1326450	1.95		97.5	13867	
D 4 13C4-PFBA										
216.80 > 171.90	4.180	4.187	-0.007	0.998	1487752	2.06		103	7036	
* 5 13C3PFBA										
216.00 > 172.00	4.189	4.187	0.002		1383144	2.00			593	
6 PFMPA										
229.00 > 84.90	4.511	4.508	0.003	0.931	730671	0.9599		96.0	3050	
7 3:3 FTCA										
241.00 > 177.00	4.511	4.518	-0.007	0.931	77751	1.88	Target=1.25	94.0	1605	
241.00 > 117.00	4.511	4.518	-0.007	0.931	63238		1.23(0.63-1.88)	94.0	487	
D 8 13C5 PFPeA										
268.30 > 223.00	4.843	4.842	0.001	0.914	912018	2.03		101	5313	
9 PFPA										
263.00 > 219.00	4.843	4.850	-0.007	1.000	856174	1.01		101	1671	
10 PFMBA										
279.00 > 85.10	4.991	4.999	-0.008	1.031	968683	1.00		100	5687	
D 12 13C2-4:2FTS										
329.10 > 80.90	5.115	5.123	-0.008	0.800	576875	4.81		103	3283	
13 4:2FTS										
327.10 > 307.00	5.115	5.123	-0.008	1.000	358500	1.75	Target=1.50	93.4	2913	
327.10 > 80.90	5.115	5.123	-0.008	1.000	240535		1.49(0.75-2.24)	93.4	1729	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.260	5.271	-0.011	0.992	310653	1.01	Target=1.42	101	2397	
295.00 > 84.90	5.260	5.271	-0.011	0.992	202294		1.54(0.71-2.13)	101	886	
D 15 13C5 PFHxA										
318.00 > 273.00	5.301	5.312	-0.011	1.000	1751084	1.98		99.0	6302	
* 16 13C2 PFHxA										
315.10 > 270.00	5.301	5.312	-0.011		3868479	5.00			14143	
17 PFHxA										
313.00 > 269.00	5.301	5.312	-0.011	1.000	746654	0.9879	Target=11.34	98.8	1449	
313.00 > 118.90	5.301	5.312	-0.011	1.000	69127		10.80(5.67-17.02)	98.8	336	
18 5:3 FTCA										
341.00 > 237.10	5.364	5.375	-0.010	1.012	493253	5.05	Target=0.84	101	1777	
341.00 > 217.00	5.364	5.375	-0.010	1.012	554324		0.89(0.42-1.26)	101	1480	
19 FBSA										
297.90 > 78.00	5.443	5.441	0.002	0.998	914543	0.99		99.5	1718	
D 20 13C3 PFBS										
302.10 > 79.90	5.457	5.454	0.003	0.854	1625835	1.84		98.6	4527	
21 PFBS										
298.70 > 79.90	5.457	5.454	0.003	1.000	827087	0.9005	Target=3.25	101	1765	
298.70 > 98.80	5.457	5.454	0.003	1.000	265162		3.12(1.62-4.87)	101	1776	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.498	5.495	0.003	1.037	1554899	2.03		102	4416	
23 HFPO-DA										
284.90 > 168.90	5.498	5.495	0.003	1.000	571423	0.7379	Target=2.31	98.4	1278	
284.90 > 184.90	5.498	5.495	0.003	1.000	230061		2.48(1.15-3.46)	98.4	870	
26 PFEESA										
314.80 > 134.90	5.698	5.697	0.001	1.075	2026265	0.8794	Target=11.22	98.6	9538	
314.80 > 82.90	5.698	5.697	0.001	1.075	189941		10.67(5.61-16.83)	98.6	791	
27 PFHpA										
363.10 > 319.00	5.741	5.740	0.001	1.000	778022	1.02	Target=2.31	102	1752	
363.10 > 169.00	5.741	5.740	0.001	1.000	313998		2.48(1.16-3.47)	102	1433	
D 28 13C4 PFHpA										
367.10 > 322.00	5.741	5.740	0.001	1.083	1809016	2.07		104	3650	
29 ADONA										
376.90 > 250.90	5.892	5.892	0.0	1.072	1747591	0.9435	Target=1.98	99.7	6317	
376.90 > 84.80	5.892	5.892	0.0	1.072	883720		1.98(0.99-2.97)	99.7	3612	
D 30 13C2-6:2FTS										
429.10 > 80.90	5.937	5.936	0.001	0.929	479801	4.86		102	3045	
31 6:2FTS										
427.10 > 407.00	5.937	5.936	0.001	1.000	311610	1.87	Target=1.40	98.0	375	
427.10 > 80.90	5.937	5.936	0.001	1.000	211280		1.47(0.70-2.10)	98.0	394	
32 PFPeS										
349.10 > 79.90	5.937	5.951	-0.014	0.929	835777	0.9212	Target=3.31	98.0	4906	
349.10 > 98.90	5.937	5.951	-0.014	0.929	245469		3.40(1.65-4.96)	98.0	1476	
33 BTS										
280.00 > 147.00	6.122	6.121	0.001	0.958	1905051	0.8987		91.8	5746	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 PFOA										
413.00 > 369.00	6.148	6.160	-0.012	1.000	655531	0.9335	Target=1.89	93.3	605	
413.00 > 169.00	6.161	6.160	0.001	1.002	367932		1.78(0.95-2.84)	93.3	292	
D 35 13C8 PFOA										
421.10 > 376.00	6.148	6.160	-0.012	1.000	2206981	1.99		99.5	5665	
* 36 13C4 PFOA										
417.10 > 372.00	6.148	6.160	-0.012		5544722	5.00			13935	
37 7:3 FTCA										
441.00 > 316.90	6.212	6.212	0.0	1.172	255240	5.07	Target=0.34	101	845	
441.00 > 336.90	6.212	6.212	0.0	1.172	752103		0.34(0.17-0.50)	101	1800	
D 38 13C3 PFHxS										
402.10 > 79.90	6.391	6.404	-0.013	1.000	1546117	1.91		101	4970	
39 PFHxS										
398.70 > 79.90	6.391	6.404	-0.013	1.000	597569	0.8489	Target=3.47	93.1	906	
398.70 > 98.90	6.391	6.404	-0.013	1.000	173315		3.45(1.73-5.20)	93.1	144	
* 40 18O2 PFHxS										
403.00 > 83.90	6.391	6.404	-0.013		1491184	1.90			7755	
D 41 13C9 PFNA										
472.10 > 427.00	6.568	6.568	0.0	0.998	1803138	2.06		103	5137	
42 PFNA										
463.00 > 419.00	6.581	6.568	0.013	1.002	842769	0.9667	Target=2.73	96.7	989	
463.00 > 219.00	6.581	6.568	0.013	1.002	308994		2.73(1.37-4.09)	96.7	357	
* 43 13C5 PFNA										
468.00 > 423.00	6.581	6.581	0.0		1867980	2.00			6626	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.757	6.758	-0.001	1.057	450150	4.78		99.5	2361	
45 8:2FTS										
527.10 > 507.00	6.757	6.770	-0.013	1.000	238447	1.91	Target=1.55	99.3	74100	
527.10 > 80.80	6.757	6.770	-0.013	1.000	140335		1.70(0.78-2.33)	99.3	843	
46 PFECHS										a
461.00 > 381.00	6.807	6.808	-0.001	1.065	207362	0.8451	Target=0.25	91.5	959	a
461.00 > 99.00	6.807	6.808	-0.001	1.065	905746		0.23(0.13-0.38)	91.5	593	
47 FHxSA										
397.90 > 78.00	6.832	6.832	0.0	1.069	1103028	0.9760		97.6	3241	
48 PFHpS										
449.00 > 79.90	6.844	6.845	-0.001	0.939	779959	0.9555	Target=4.28	100	3229	
449.00 > 98.80	6.844	6.845	-0.001	0.939	196023		3.98(2.14-6.42)	100	1185	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.929	6.929	0.0	0.950	948738	5.15		103	1278	
50 NMeFOSAA										
570.10 > 419.00	6.941	6.929	0.012	1.002	194705	0.8866	Target=1.90	88.7	192	
570.10 > 483.00	6.929	6.929	0.0	1.000	118717		1.64(0.95-2.85)	88.7	134	
* 51 13C2 PFDA										
515.10 > 470.10	6.999	7.000	-0.001		1699522	2.00			6209	
D 52 13C6 PFDA										
519.10 > 474.10	6.999	7.000	-0.001	1.000	1710515	1.99		99.6	7163	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
53 PFDA										
512.90 > 469.00	6.999	7.000	-0.001	1.000	566602	1.03	Target=3.34	103	1280	
512.90 > 219.00	6.999	7.000	-0.001	1.000	164465		3.45(1.67-5.01)	103	1086	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.111	7.111	0.0	0.975	842737	5.29		106	1382	
55 NEtFOSAA										
584.20 > 419.10	7.123	7.111	0.012	1.002	128660	0.9570	Target=1.51	95.7	186	
584.20 > 526.00	7.123	7.111	0.012	1.002	89510		1.44(0.75-2.26)	95.7	163	
D 56 13C8 PFOS										
507.10 > 79.90	7.291	7.291	0.0	1.000	1236583	1.97		103	1216	
* 57 13C4 PFOS										
502.80 > 79.90	7.291	7.291	0.0		1186262	1.92			6893	
58 PFOS										
498.90 > 79.90	7.291	7.291	0.0	1.000	855551	0.9370	Target=4.89	101	993	
498.90 > 98.80	7.291	7.291	0.0	1.000	169858		5.04(2.45-7.34)	101	355	
D 59 13C7 PFUnA										
570.00 > 525.10	7.434	7.435	-0.001	1.062	1716382	2.00		100	3957	
60 PFUnA										
563.10 > 519.00	7.434	7.435	-0.001	1.000	406589	1.02	Target=3.26	102	1311	
563.10 > 269.10	7.447	7.435	0.012	1.002	128533		3.16(1.63-4.88)	102	566	
61 9ClFOS										
530.80 > 351.00	7.630	7.620	0.010	1.047	1720237	0.9601	Target=3.01	103	4354	
532.80 > 353.00	7.630	7.620	0.010	1.047	588585		2.92(1.51-4.52)	103	3884	
62 PFNS										
548.80 > 79.90	7.723	7.723	0.0	1.059	717530	1.02	Target=4.32	106	3364	
548.80 > 98.80	7.723	7.723	0.0	1.059	139687		5.14(2.16-6.47)	106	1199	
63 PFDoA										
613.10 > 569.00	7.872	7.861	0.011	1.000	437872	1.05	Target=3.42	105	3757	
613.10 > 319.00	7.872	7.861	0.011	1.000	130591		3.35(1.71-5.13)	105	557	
D 64 13C2 PFDoA										
615.10 > 570.00	7.872	7.861	0.011	1.125	1195355	1.98		99.0	3412	
D 65 13C8 FOSA										
506.10 > 77.80	7.970	7.958	0.012	1.093	1431617	2.03		102	7065	
66 PFOSA										
498.10 > 77.90	7.970	7.971	-0.001	1.000	751489	1.00	Target=43.97	100	1891	
498.10 > 478.00	7.970	7.971	-0.001	1.000	12374		60.73(21.98-65.95)	100	38.8	
67 PFDS										
599.00 > 79.90	8.132	8.118	0.014	1.115	755142	1.01	Target=4.28	105	3072	
599.00 > 98.80	8.132	8.118	0.014	1.115	172439		4.38(2.14-6.41)	105	1564	
68 PFTrDA										
663.00 > 619.00	8.262	8.262	0.0	0.959	521107	1.03	Target=4.49	103	2469	
663.00 > 168.90	8.262	8.262	0.0	0.959	107438		4.85(2.24-6.73)	103	809	
69 11ClFOS										
630.90 > 450.90	8.424	8.425	-0.001	1.155	939968	0.9556	Target=2.77	101	5603	
632.90 > 452.90	8.424	8.425	-0.001	1.155	344325		2.73(1.39-4.16)	101	2138	
70 PFTeDA										
713.10 > 168.90	8.615	8.616	-0.001	1.000	72558	0.9277	Target=0.89	92.8	708	
713.10 > 219.00	8.615	8.616	-0.001	1.000	83509		0.87(0.44-1.33)	92.8	716	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 71 13C2 PFTeDA										
715.20 > 670.00	8.615	8.616	-0.001	1.231	1051673	2.10		105	2436	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.742	8.744	-0.002	1.199	583026	5.25		105	298	
73 N-MeFOSE-M										
616.10 > 58.90	8.757	8.758	-0.001	1.002	1099976	4.93		98.6	6710	
74 PFDoS										
699.10 > 79.90	8.797	8.799	-0.002	1.207	664140	0.9672	Target=4.86	99.7	4898	
699.10 > 98.80	8.797	8.799	-0.002	1.207	130877		5.07(2.43-7.29)	99.7	2292	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.838	8.826	0.012	1.212	400903	2.01		101	3219	
76 NMeFOSA										
511.90 > 219.00	8.838	8.839	-0.001	1.000	204686	1.03	Target=0.74	103	1251	
511.90 > 169.00	8.838	8.839	-0.001	1.000	261355		0.78(0.37-1.10)	103	803	
D 77 d9-N-EtFOSE										
639.20 > 58.90	8.931	8.932	-0.001	1.225	749645	5.08		102	609	
78 N-EtFOSE-M										
630.00 > 58.90	8.944	8.945	-0.001	1.001	1588405	5.02		100	8124	
D 79 d5-NEtPFOSA										
531.10 > 219.00	8.995	8.996	-0.001	1.234	504445	2.08		104	2481	
80 N-EtFOSA-M										
526.00 > 219.00	9.008	9.009	-0.001	1.001	237097	0.9584	Target=0.84	95.8	1611	
526.00 > 169.00	9.008	9.009	-0.001	1.001	294237		0.81(0.42-1.25)	95.8	1286	
81 Perfluorooctadecanoic acid										M
913.00 > 869.00	9.827	9.782	0.045	1.141	153891	0.4843	Target=11.42	48.4	3349	M
913.00 > 169.00	9.819	9.782	0.037	1.140	15098		10.19(5.71-17.13)	48.4	404	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

1633_125_CAL4_00083 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 12:07:40 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-04.d

Injection Date: 29-Jan-2026 01:19:42 Instrument ID: 30576

Lims ID: IC CAL 4

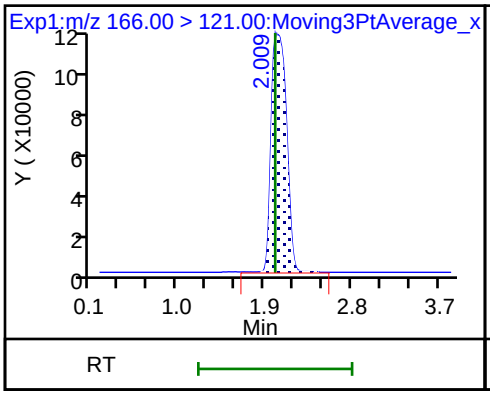
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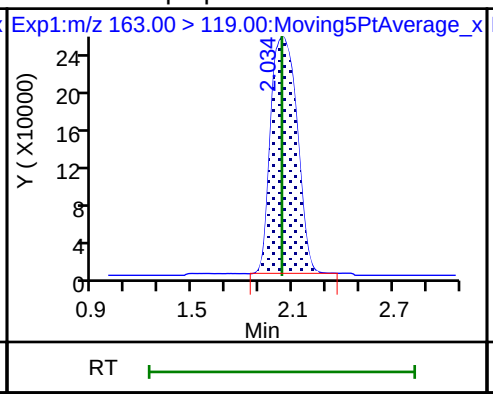
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Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

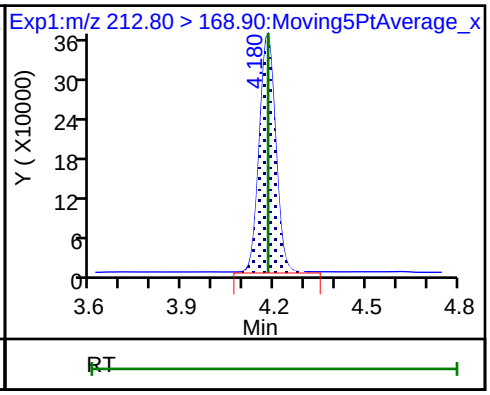
D 1 13C3PFPrA



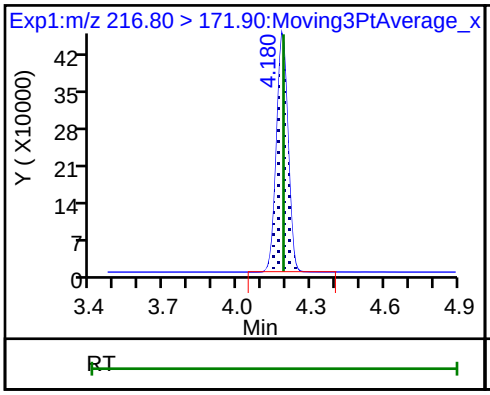
2 Perfluoropropionic acid



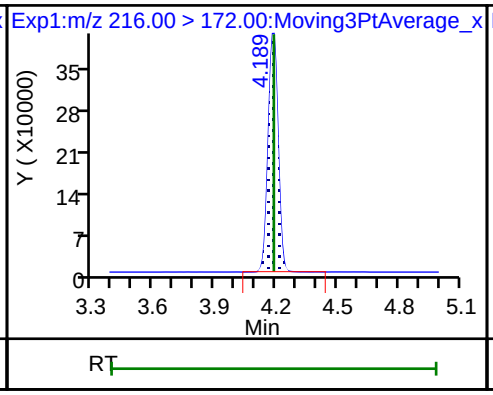
3 PFBA



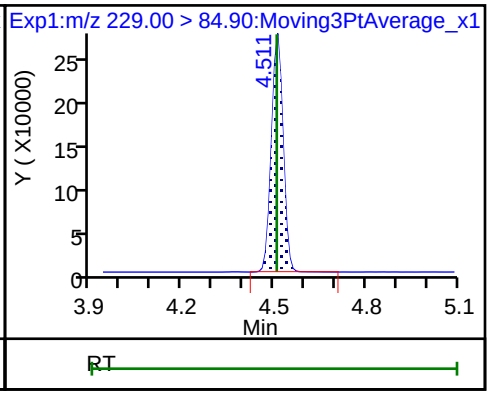
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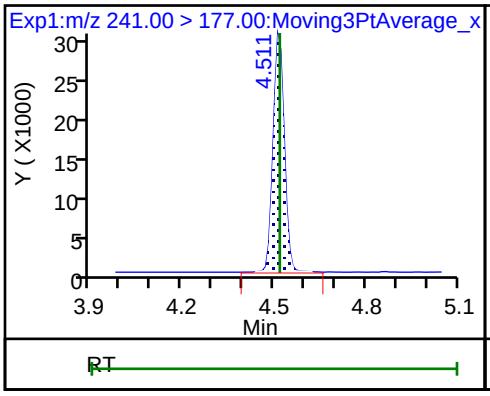
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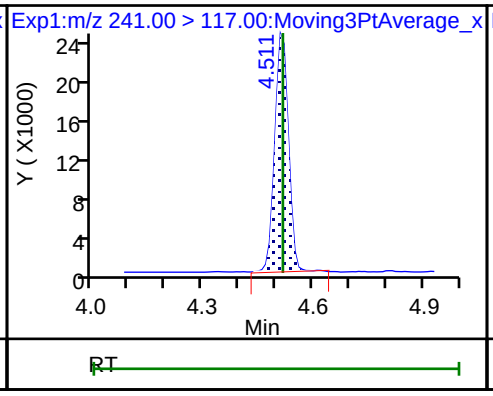
6 PFMPA



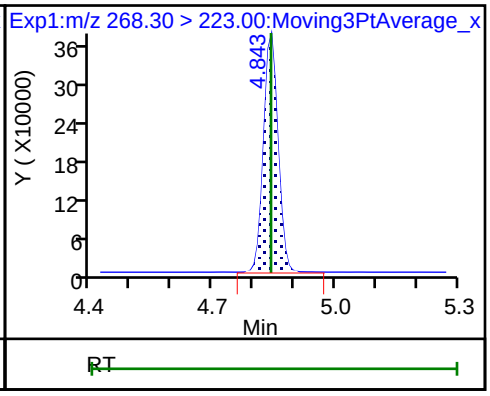
7 3:3 FTCA



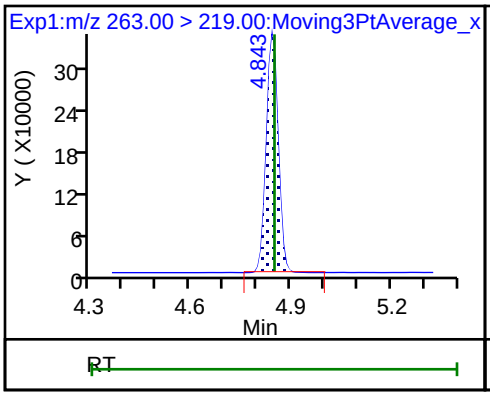
7 3:3 FTCA



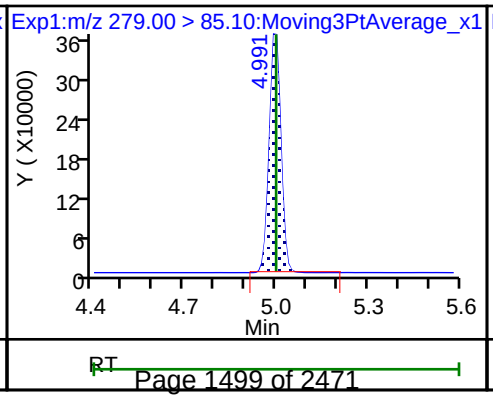
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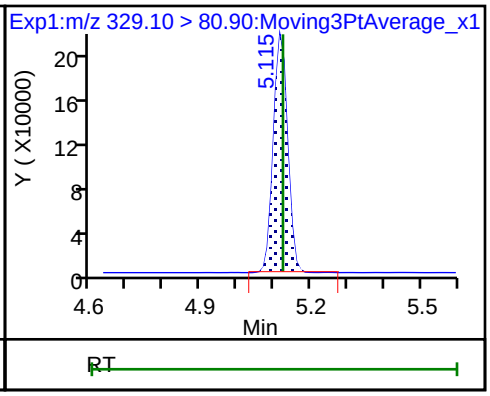
9 PFPA



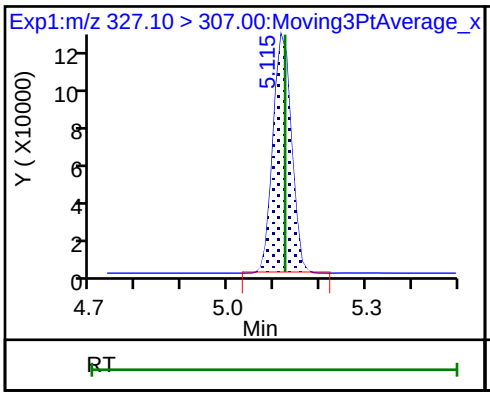
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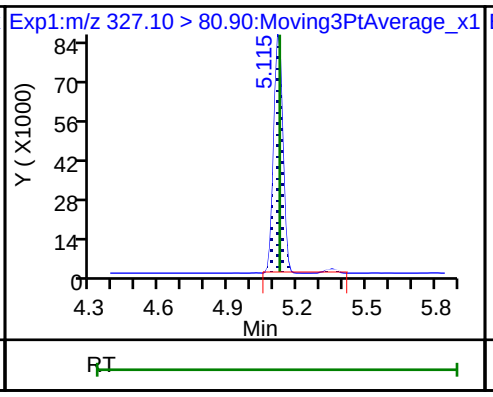
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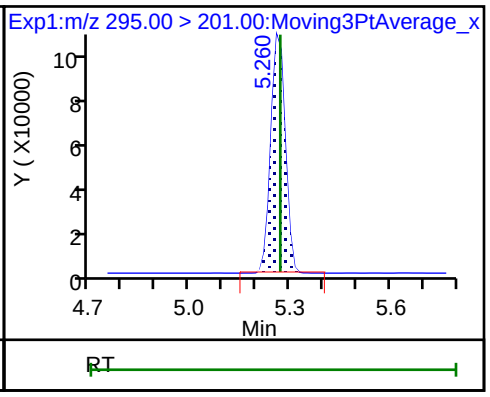
13 4:2FTS



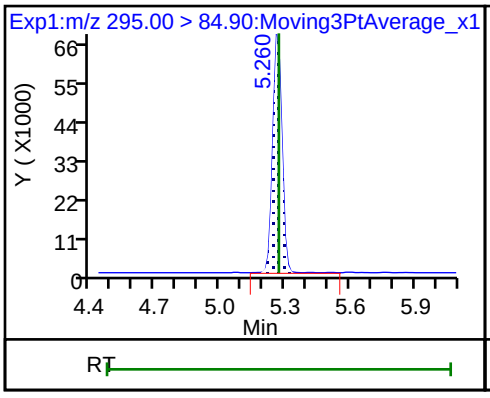
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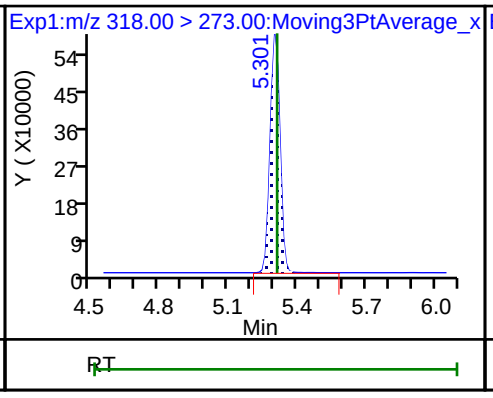
14 NFDHA



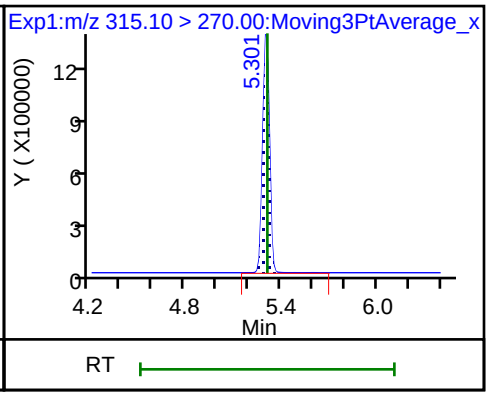
14 NFDHA



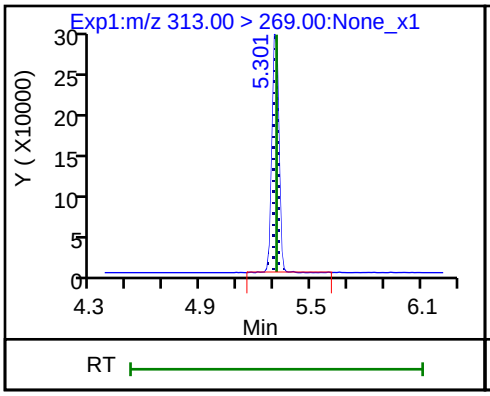
D 15 13C5 PFHxA



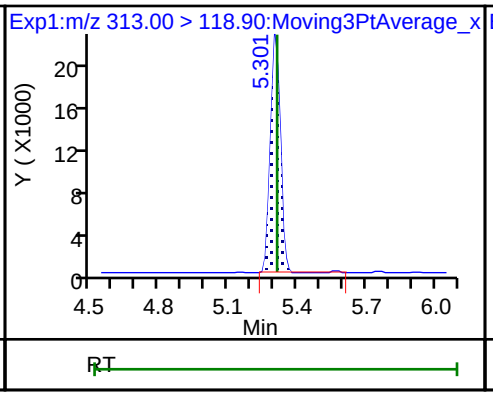
* 16 13C2 PFHxA



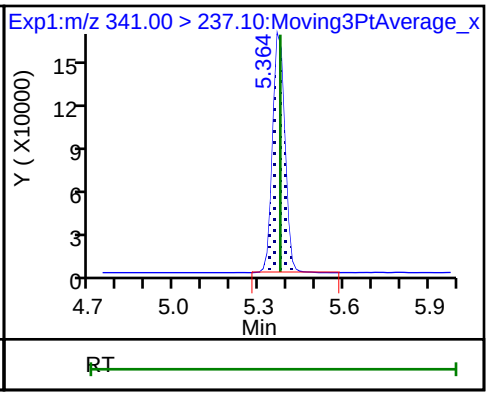
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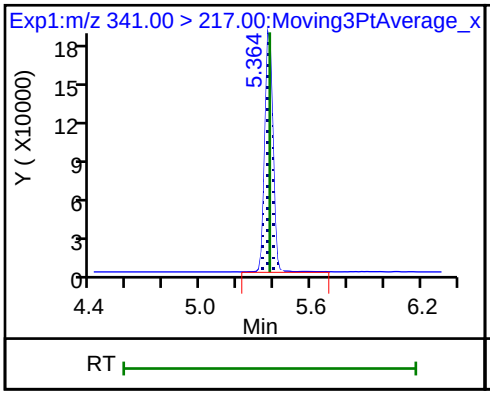
17 PFHxA



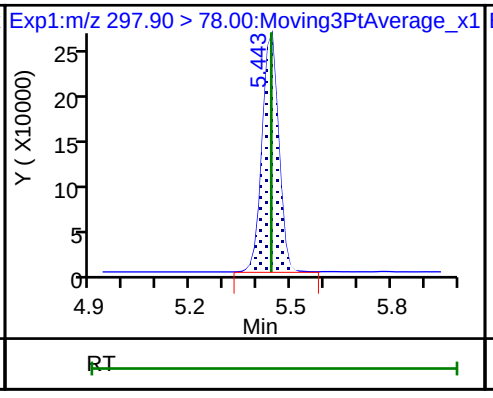
18 5:3 FTCA



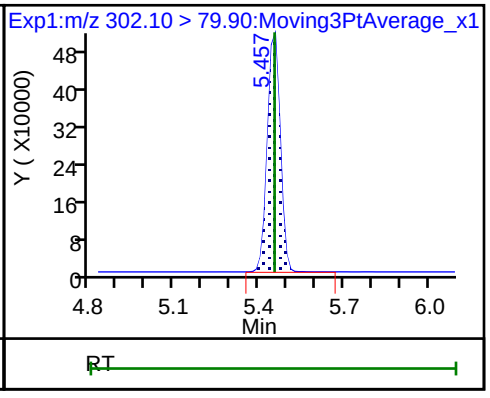
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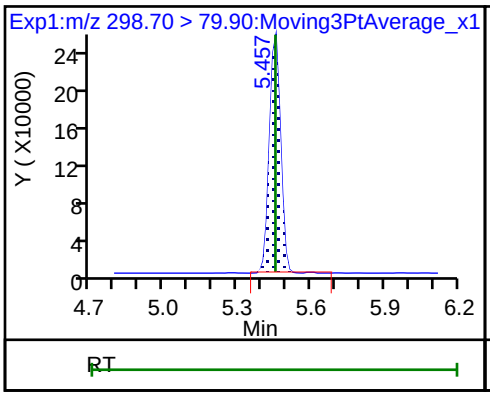
19 FBSA



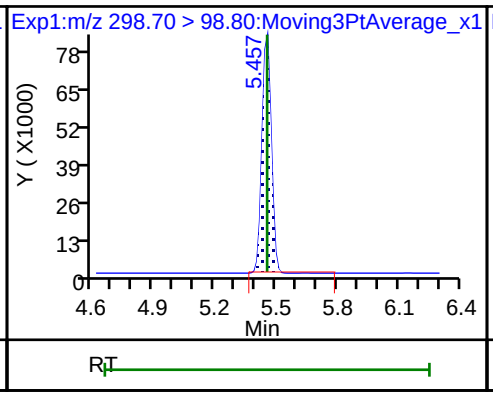
D 20 13C3 PFBS



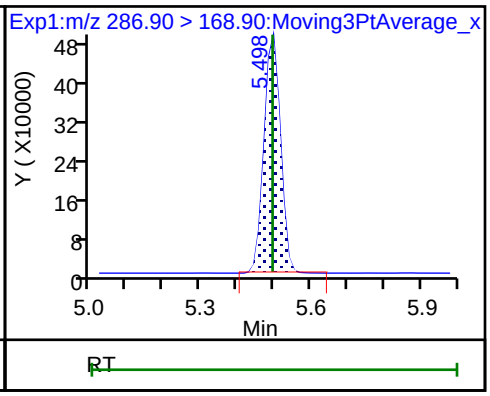
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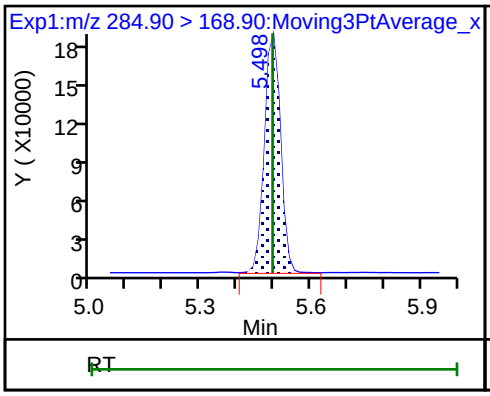
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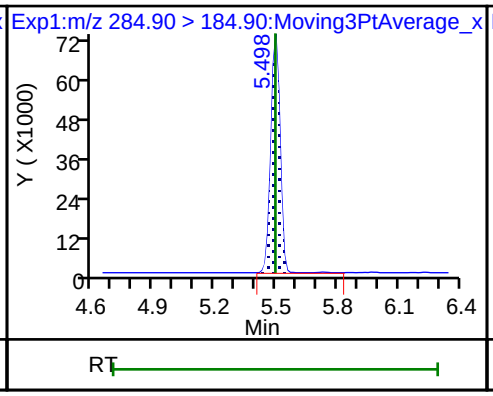
D 22 13C3 HFPO-DA



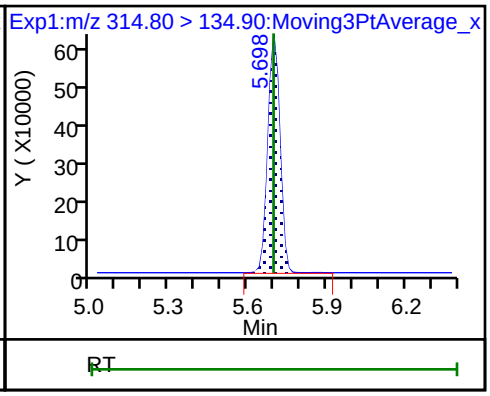
23 HFPO-DA



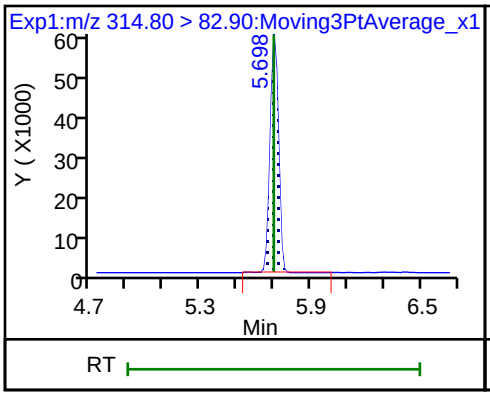
23 HFPO-DA



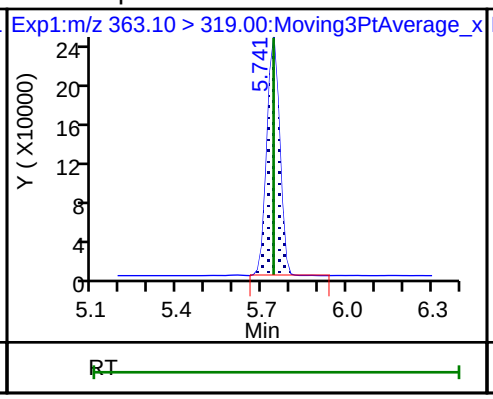
26 PFEESA



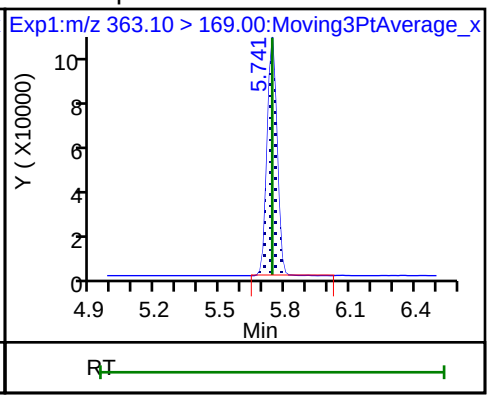
26 PFEESA



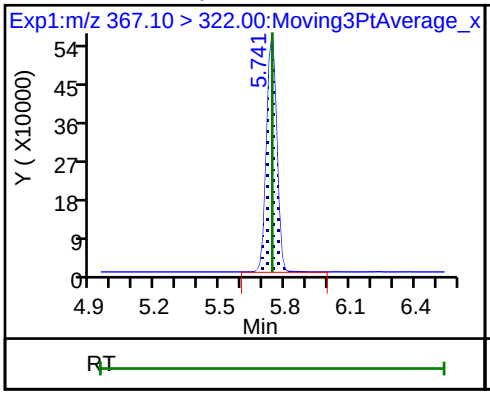
27 PFHpA



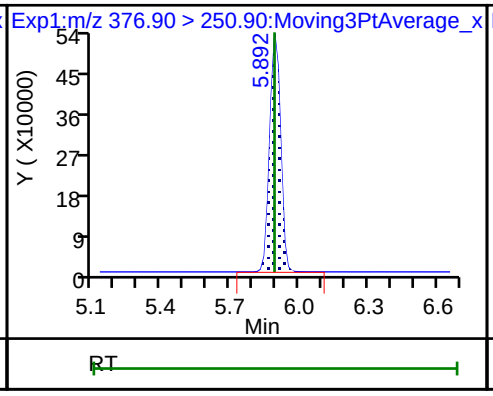
27 PFHpA



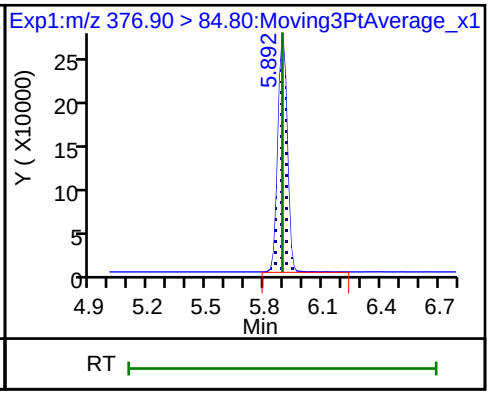
D 28 13C4 PFHpA



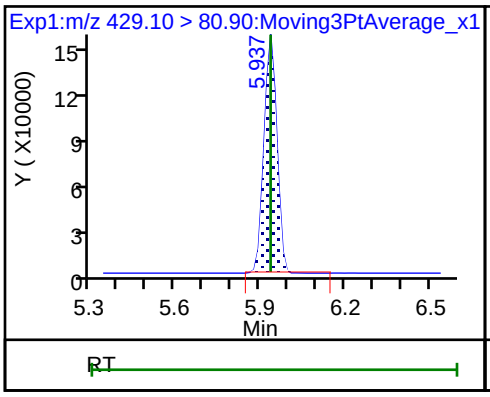
29 ADONA



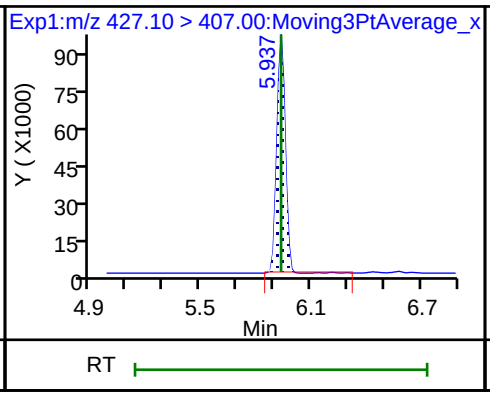
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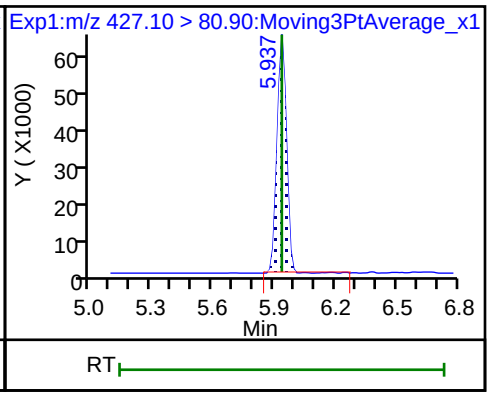
D 30 13C2-6:2FTS



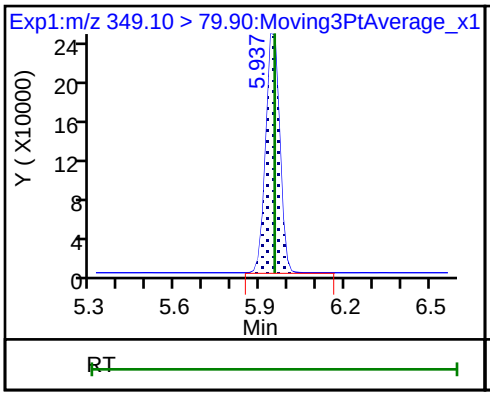
31 6:2FTS



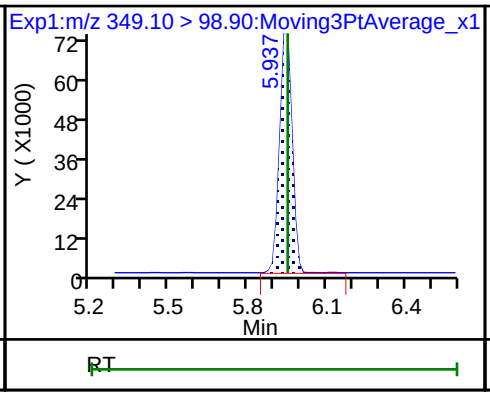
31 6:2FTS



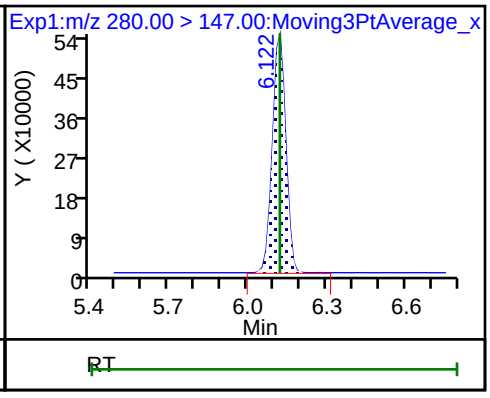
32 PFPeS



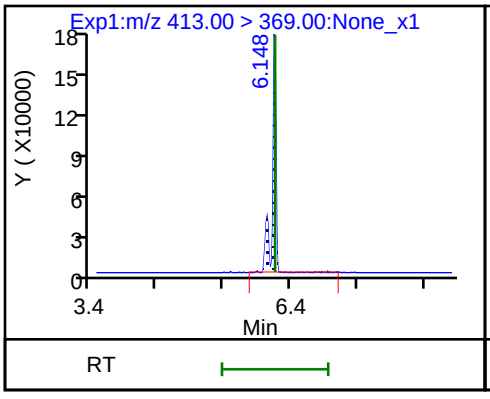
32 PFPeS



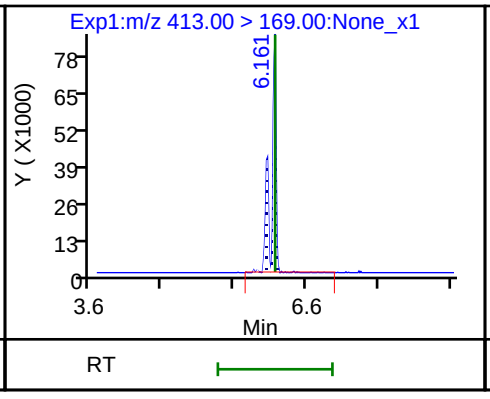
33 BTS



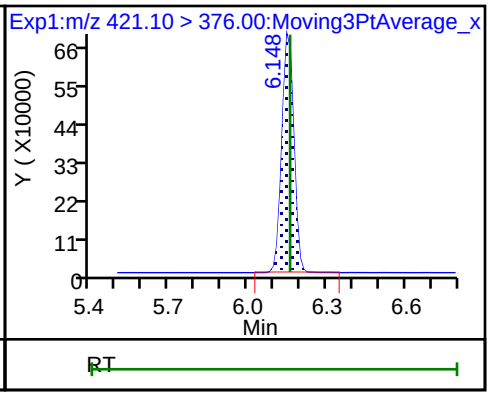
34 PFOA



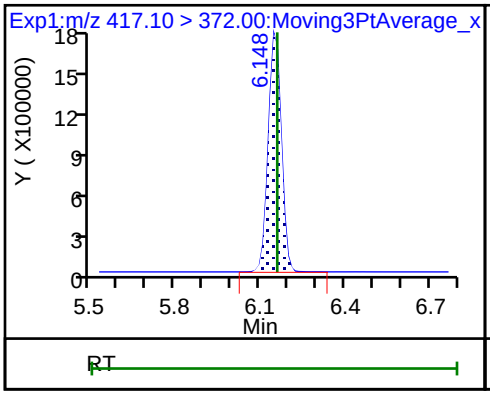
34 PFOA



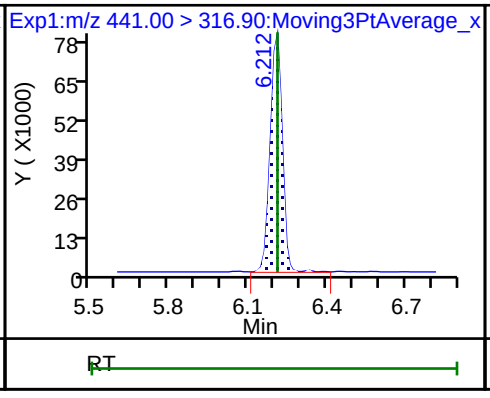
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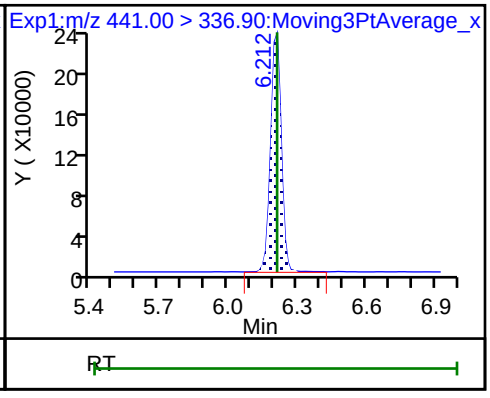
* 36 13C4 PFOA



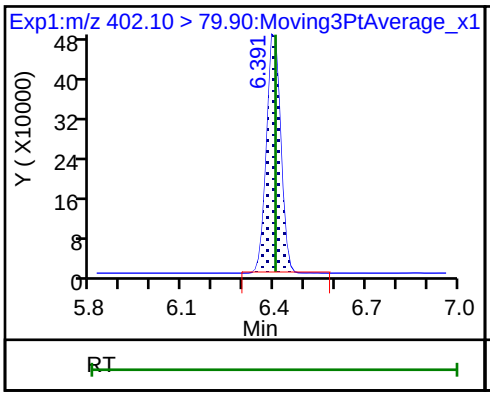
37 7:3 FTCA



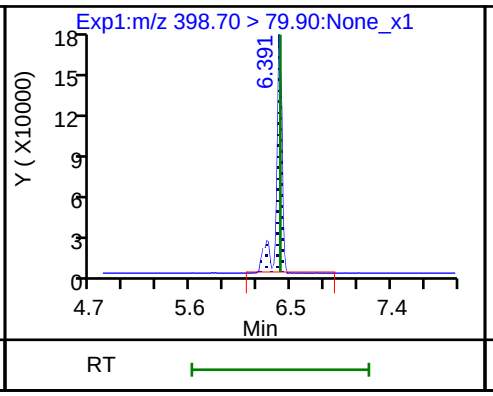
37 7:3 FTCA



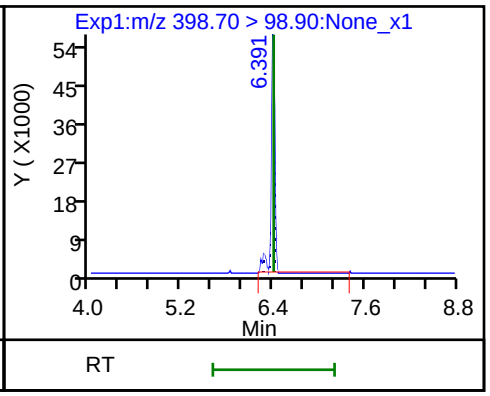
D 38 13C3 PFHxS



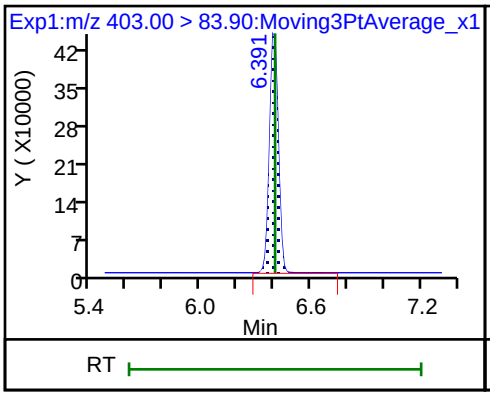
39 PFHxS



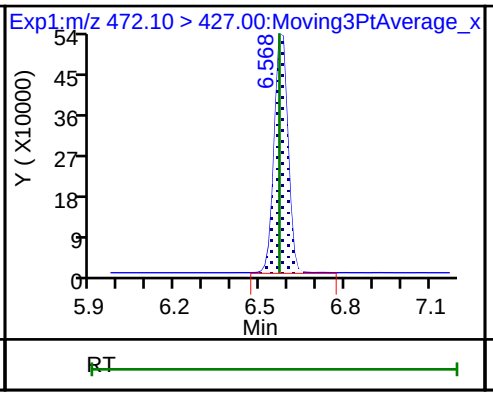
39 PFHxS



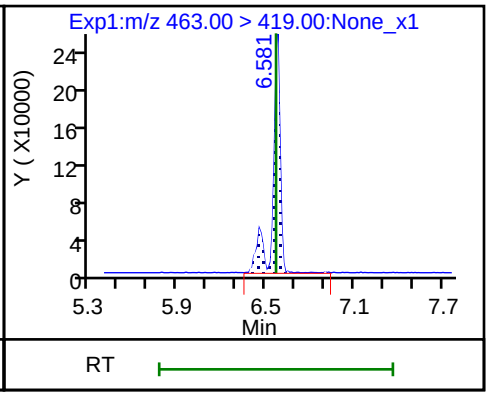
* 40 18O2 PFHxS



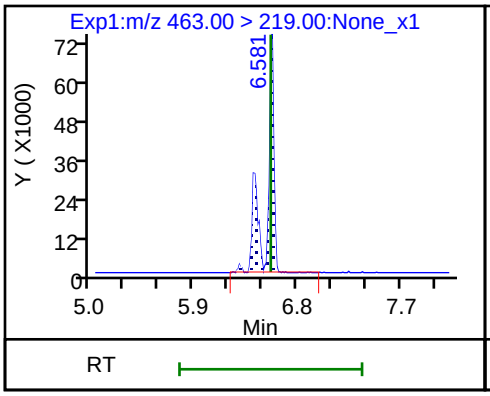
D 41 13C9 PFNA



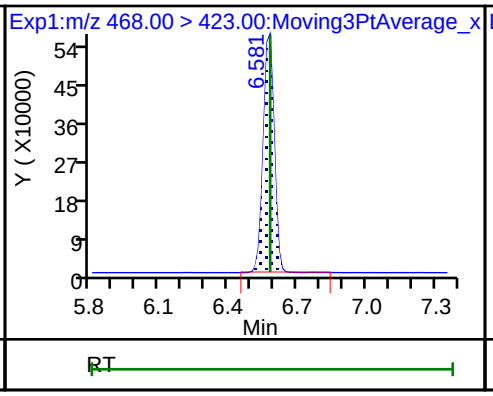
42 PFNA



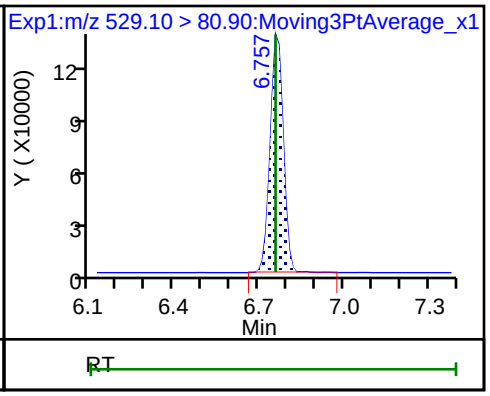
42 PFNA



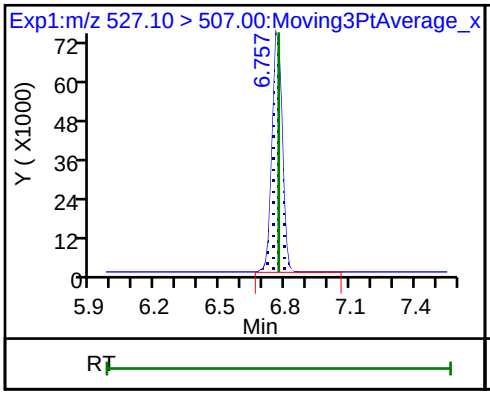
* 43 13C5 PFNA



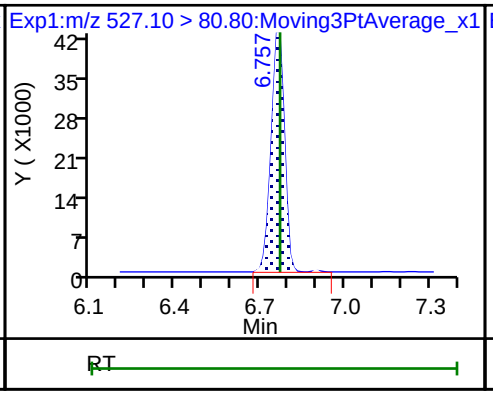
D 44 13C2-8:2FTS



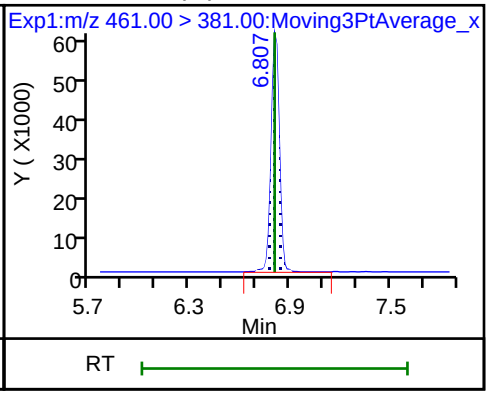
45 8:2FTS



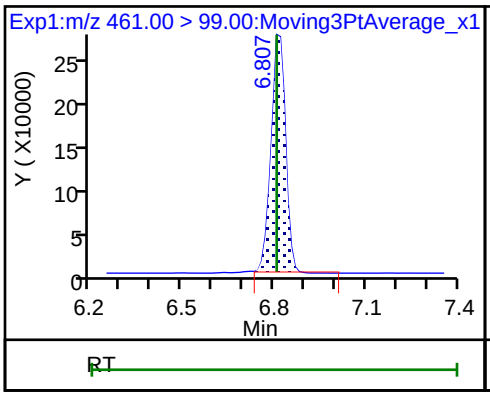
45 8:2FTS



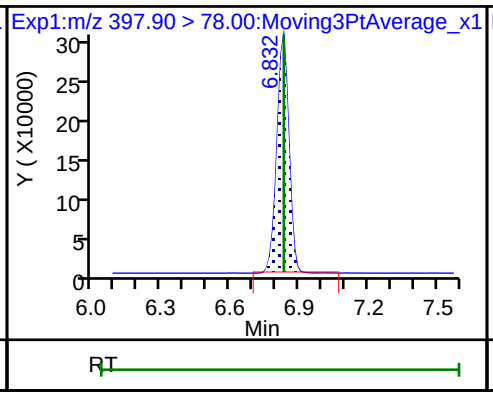
46 PFECHS (M)



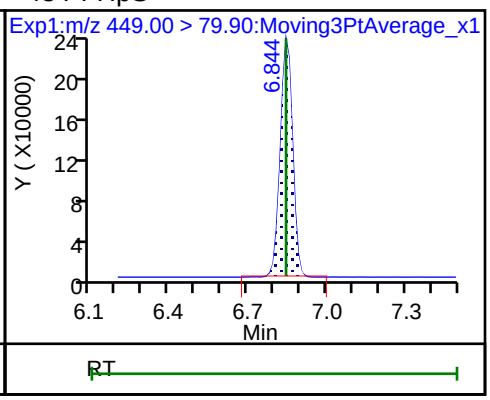
46 PFECHS



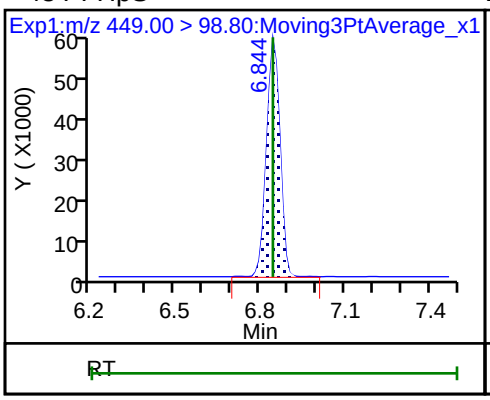
47 FHxSA



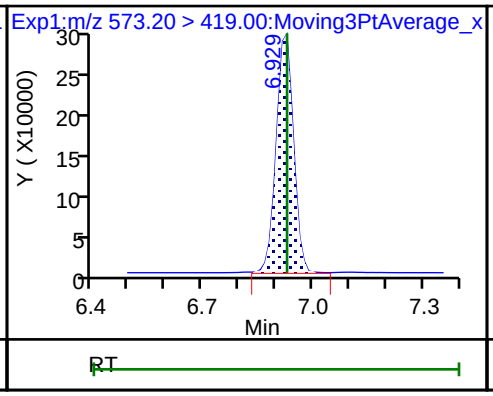
48 PFHpS



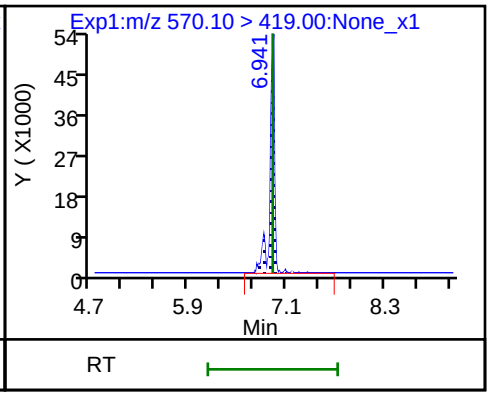
48 PFHpS



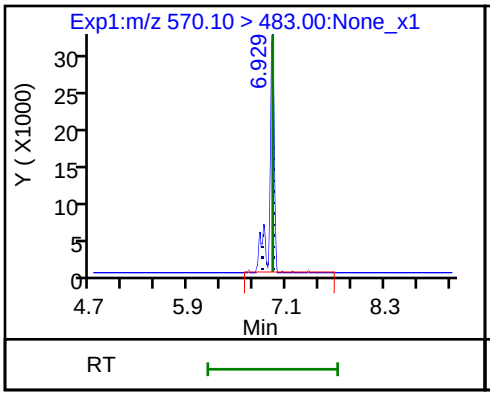
D 49 d3-NMeFOSAA



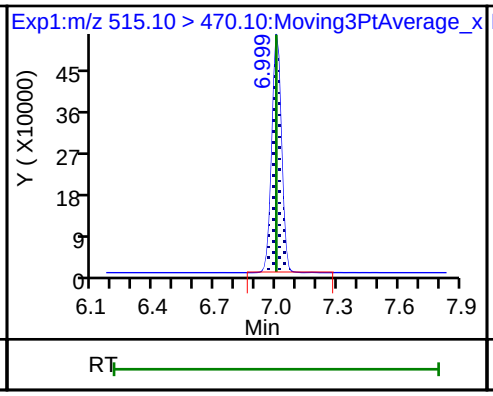
50 NMeFOSAA



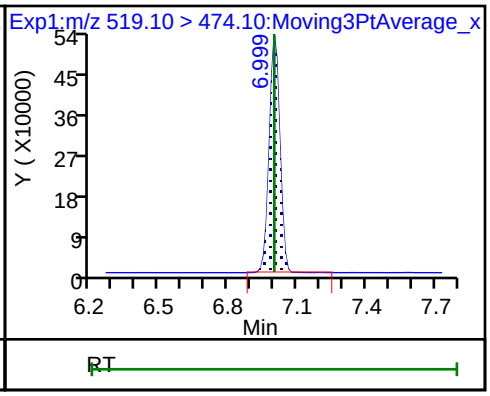
50 NMeFOSAA



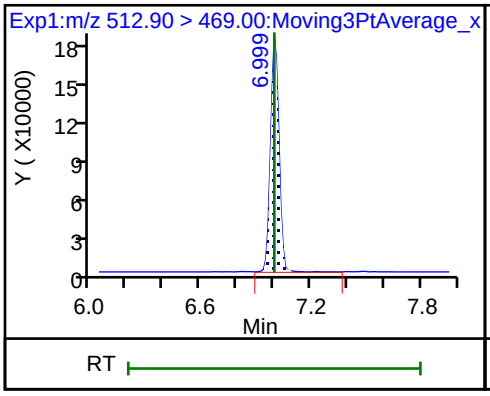
* 51 13C2 PFDA



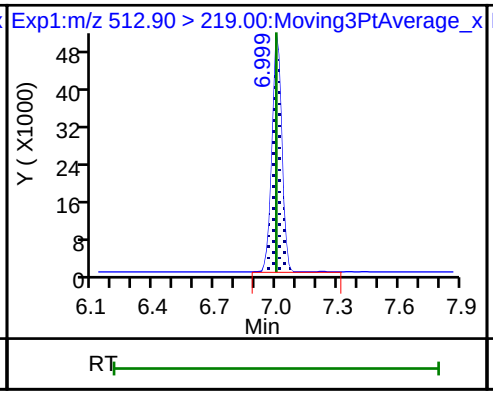
D 52 13C6 PFDA



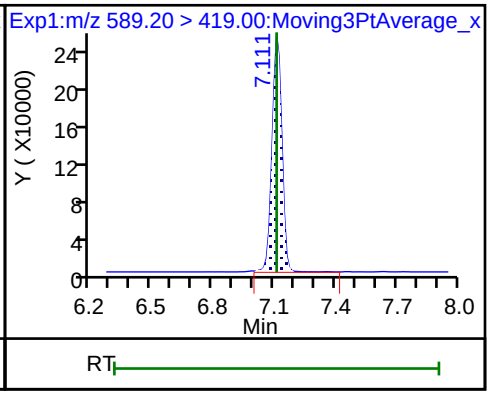
53 PFDA



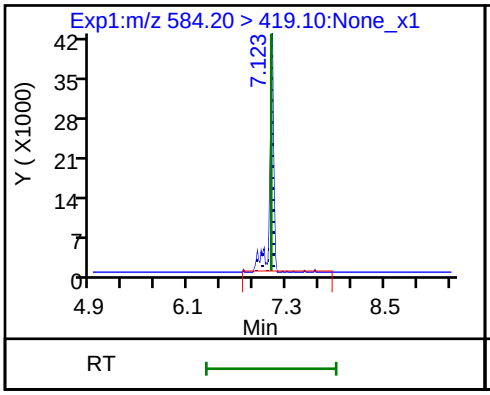
53 PFDA



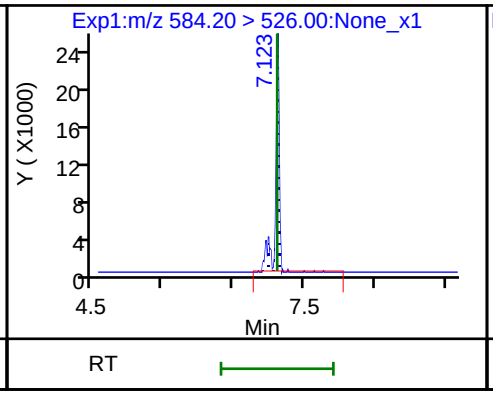
D 54 d5-NEtFOSAA



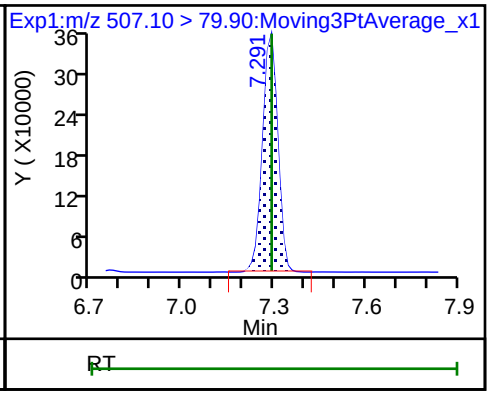
55 NEtFOSAA



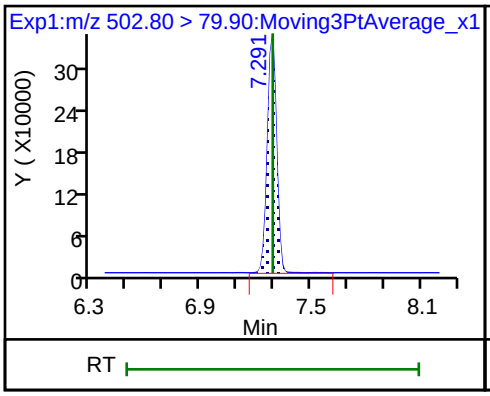
55 NEtFOSAA



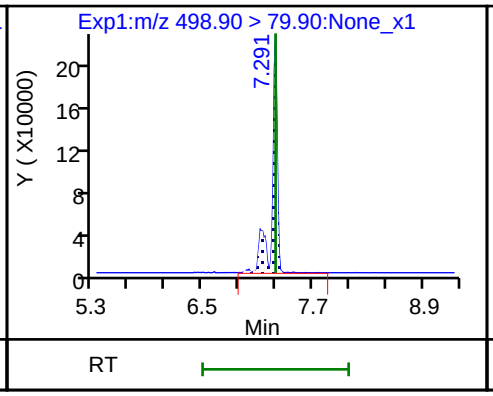
D 56 13C8 PFOS



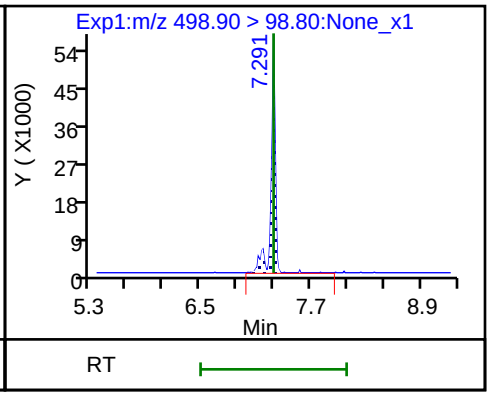
* 57 13C4 PFOS



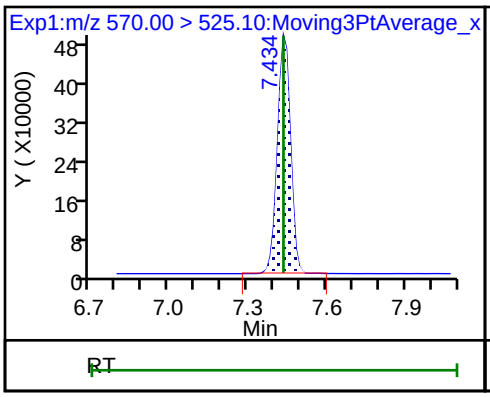
58 PFOS



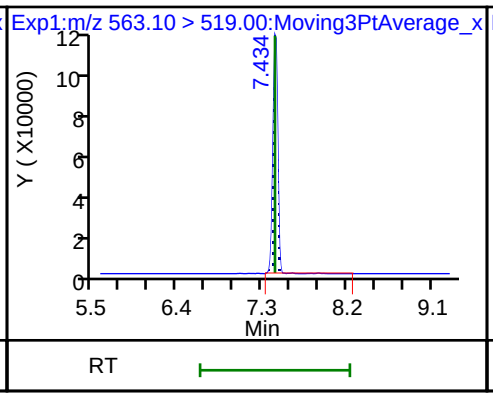
58 PFOS



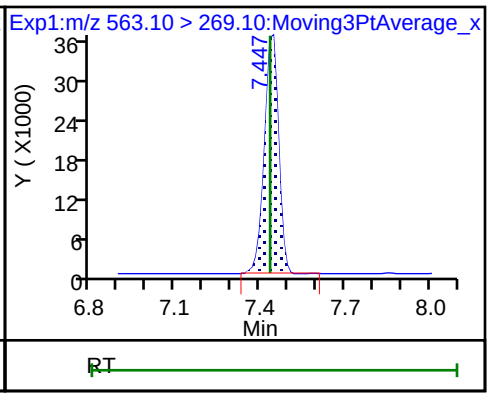
D 59 13C7 PFUnA



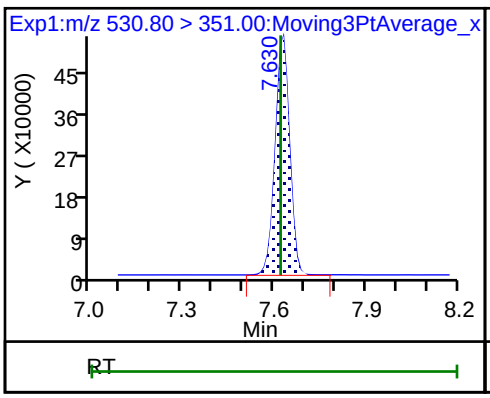
60 PFUnA



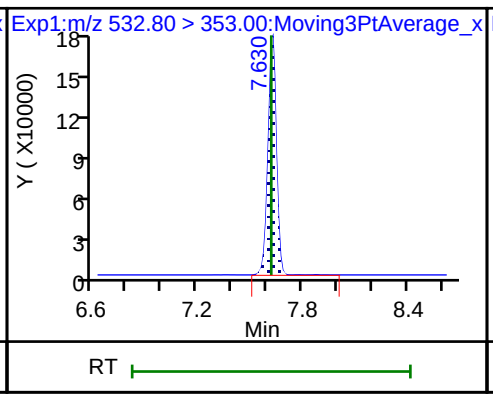
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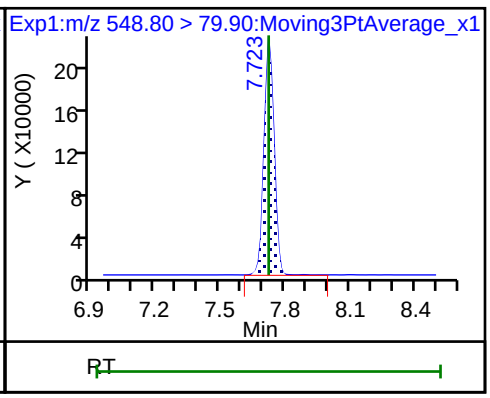
61 9ClFOS



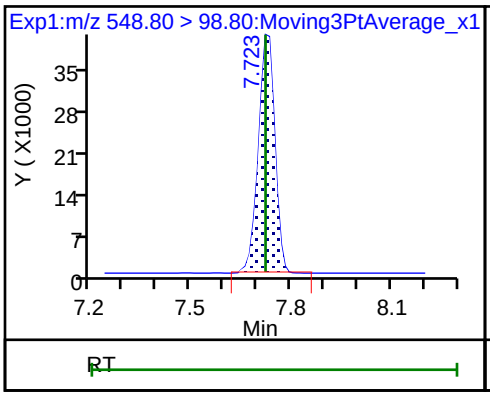
61 9ClFOS



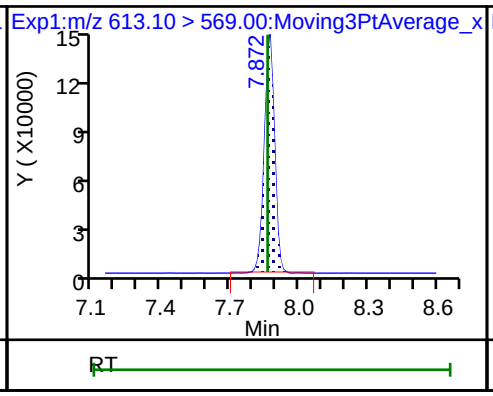
62 PFNS



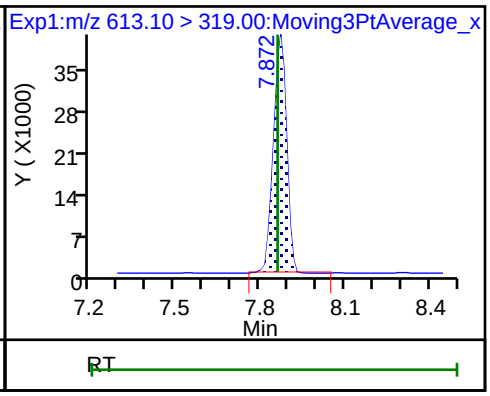
62 PFNS



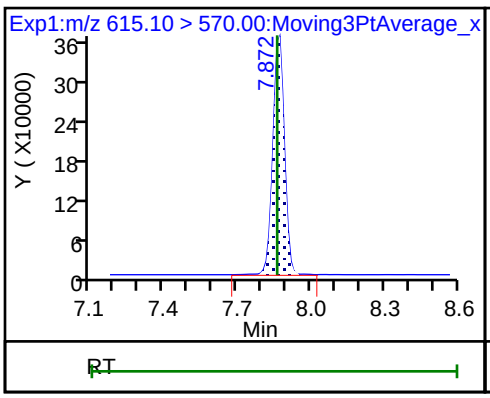
63 PFDoA



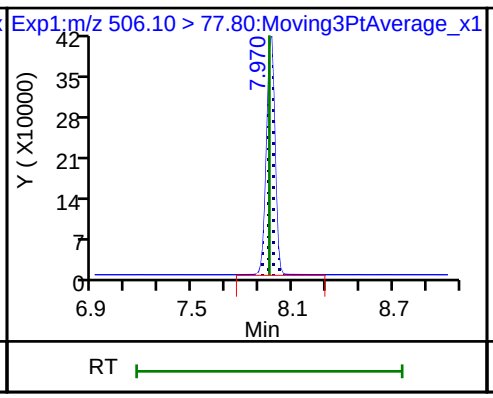
63 PFDoA



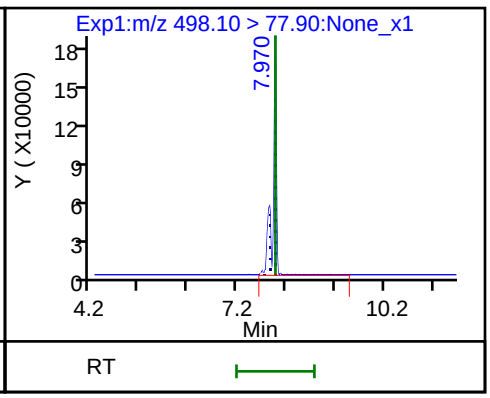
D 64 13C2 PFDoA



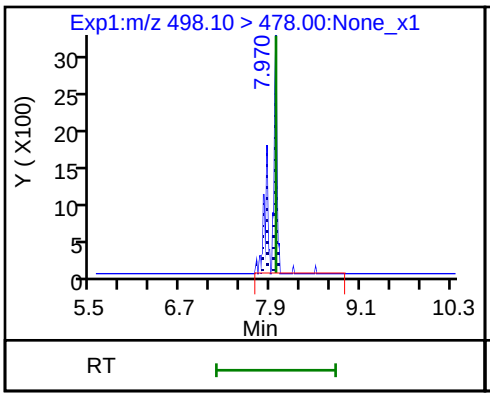
D 65 13C8 FOSA



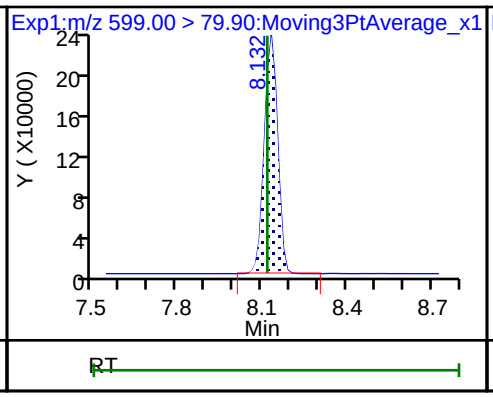
66 PFOSA



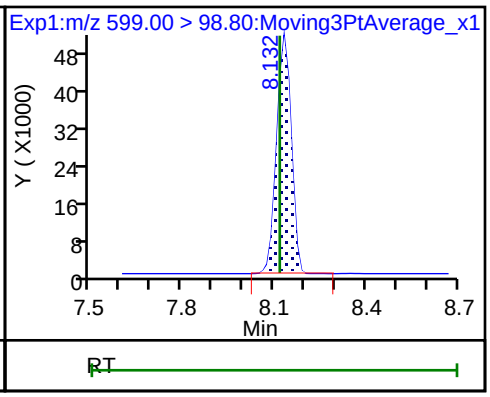
66 PFOSA



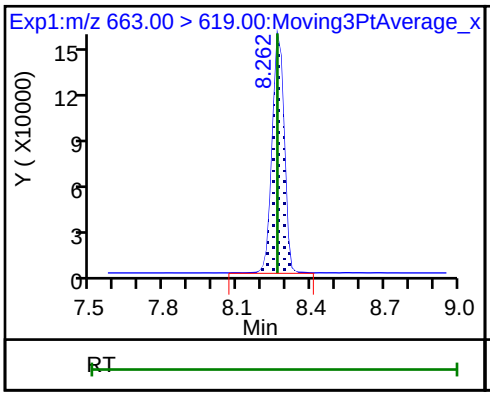
67 PFDS



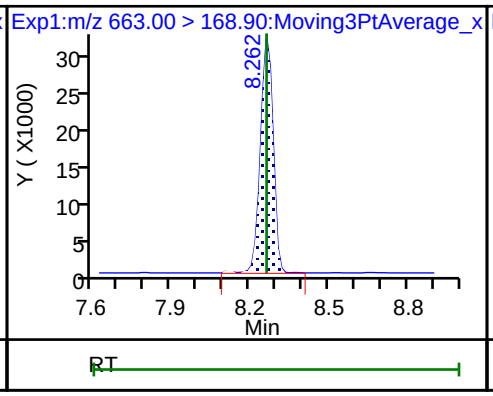
67 PFDS



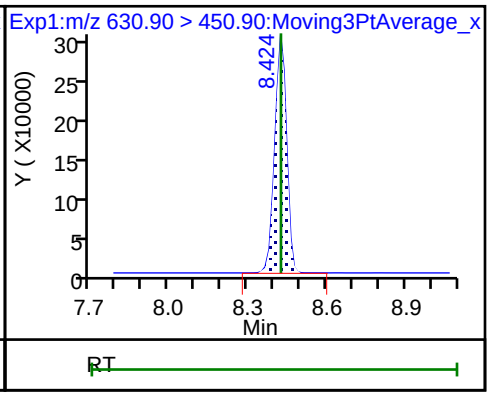
68 PFTrDA



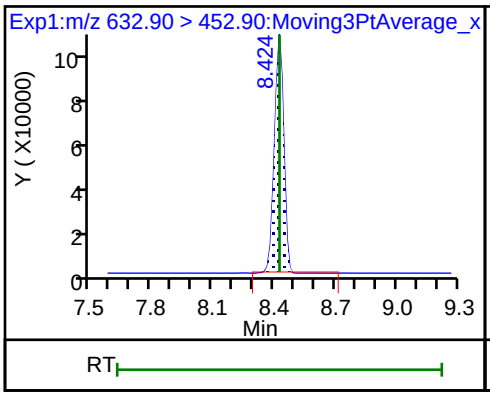
68 PFTrDA



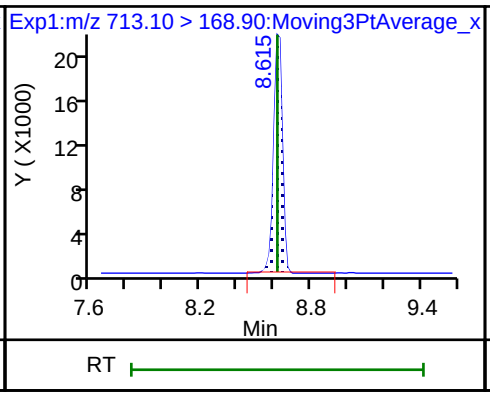
69 11ClFOS



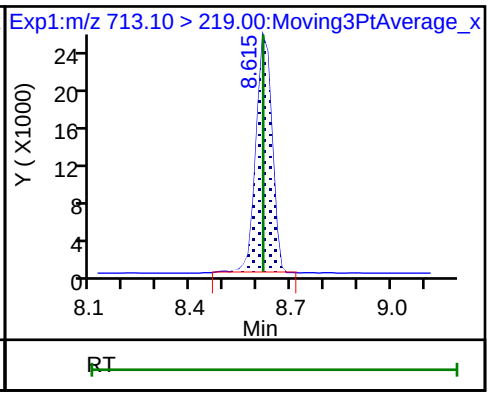
69 11ClFOS



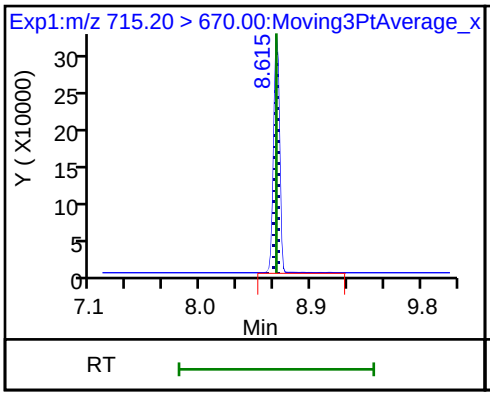
70 PFTeDA



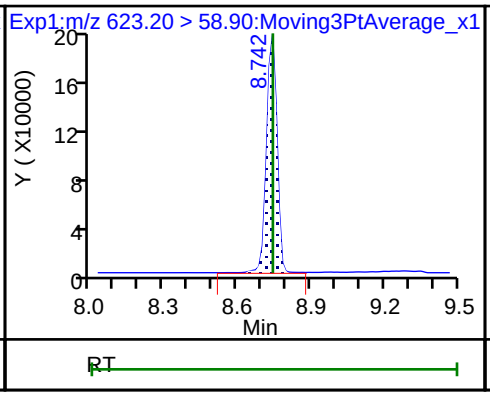
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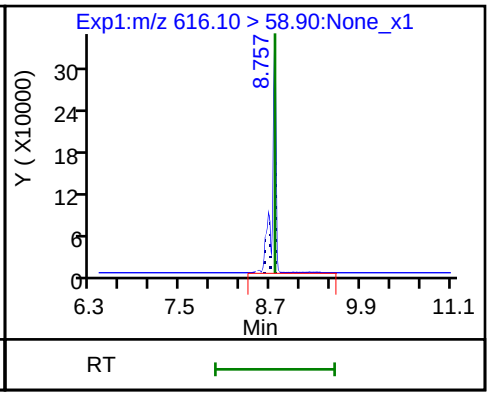
D 71 13C2 PFTeDA



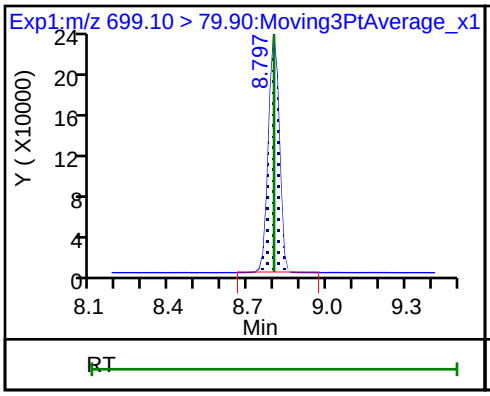
D 72 d7-N-Me-FOSE



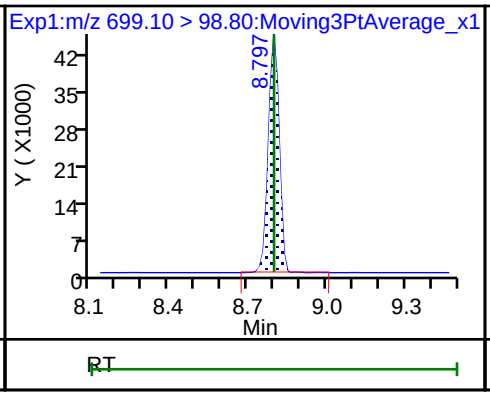
73 N-MeFOSE-M



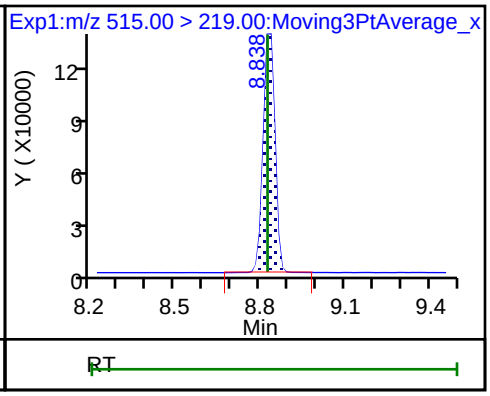
74 PFDoS



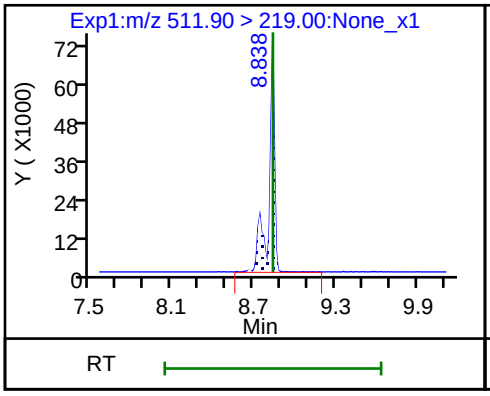
74 PFDoS



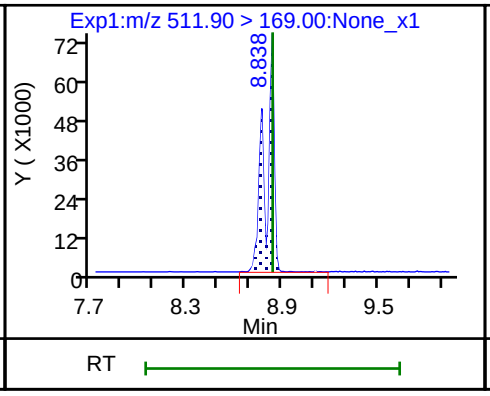
D 75 d3-NMePFOSA



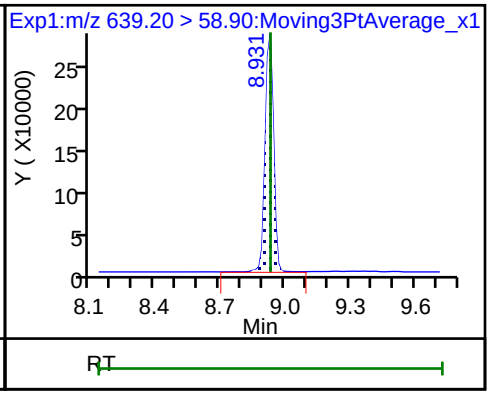
76 NMeFOSA



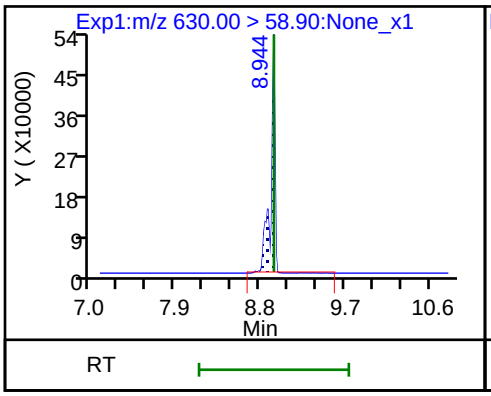
76 NMeFOSA



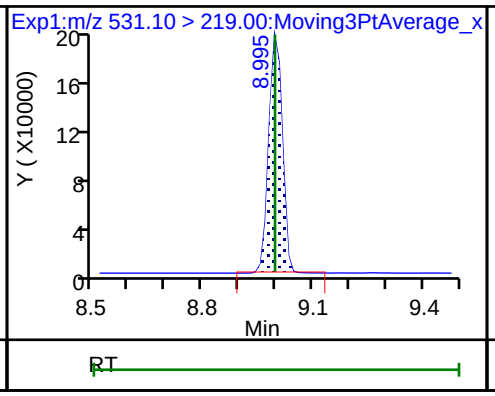
D 77 d9-N-EtFOSE



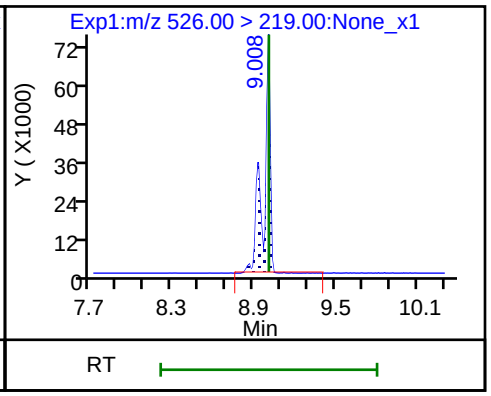
78 N-EtFOSE-M



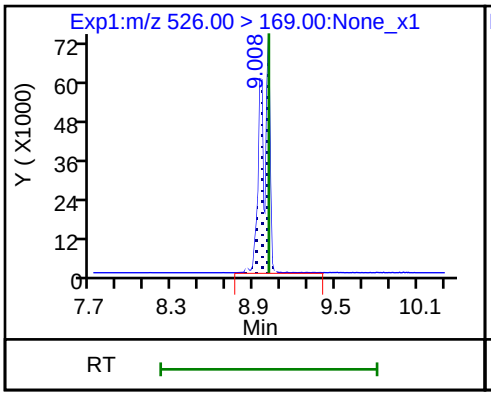
D 79 d5-NEtPFOSA



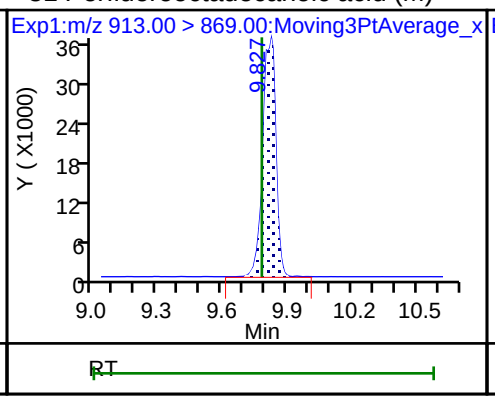
80 N-EtFOSA-M



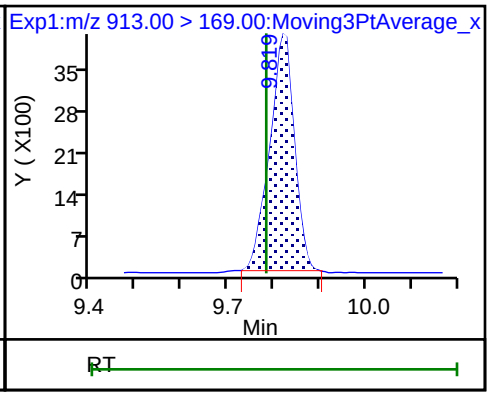
80 N-EtFOSA-M



81 Perfluorooctadecanoic acid (M)



81 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

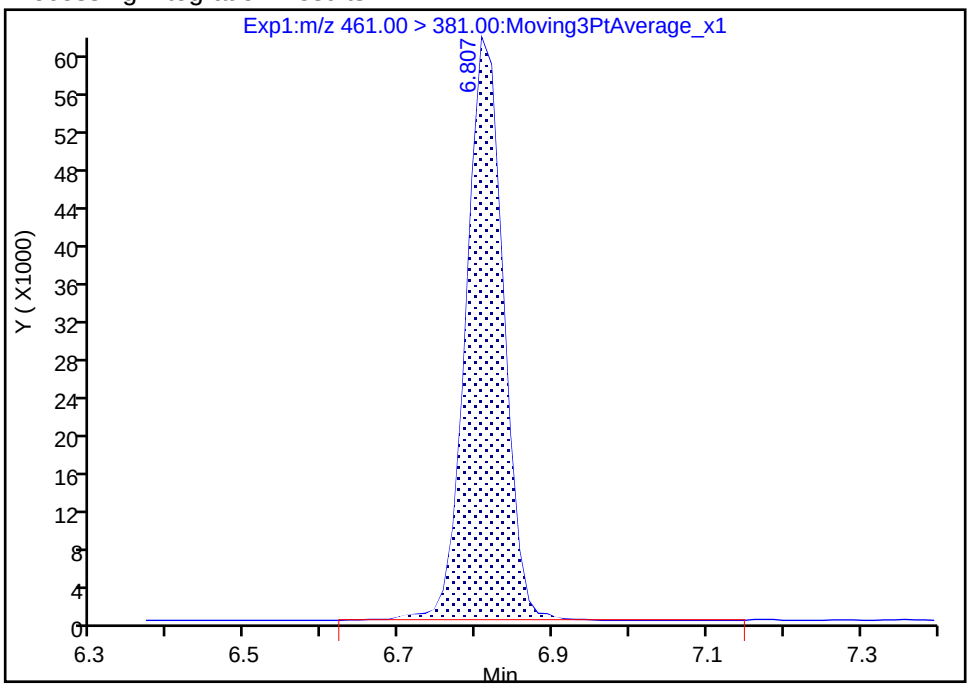
Data File:	\\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-04.d				
Injection Date:	29-Jan-2026 01:19:42	Instrument ID:	30576		
Lims ID:	IC CAL 4				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	5	Worklist Smp#:	4
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

46 PFECHS, CAS: 133201-07-7

Signal: 1

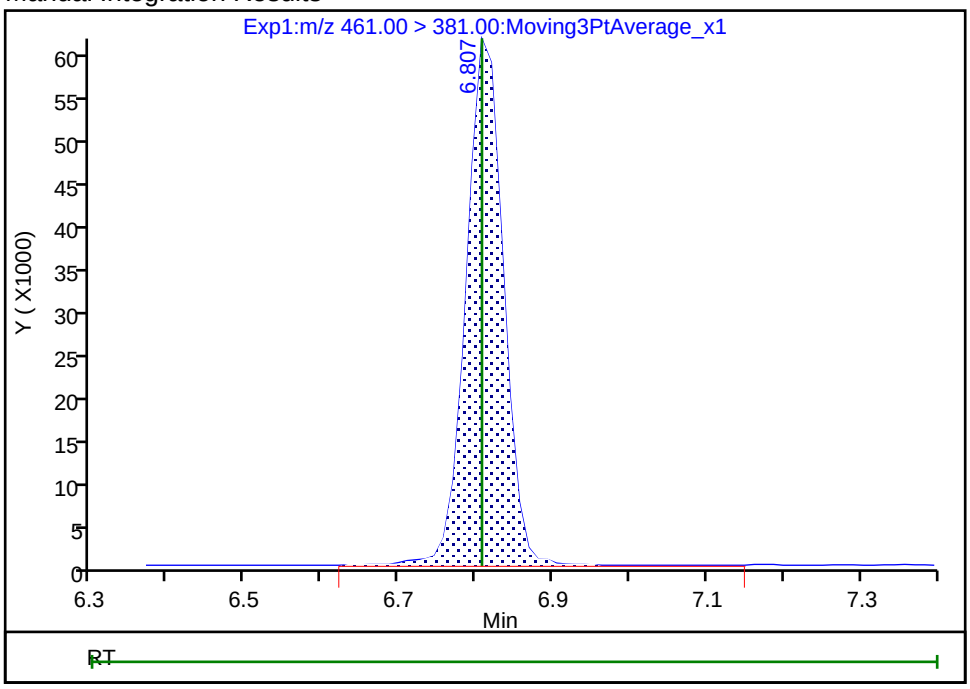
Processing Integration Results

RT: 6.81
Area: 207362
Amount: 0.845118
Amount Units: ng/ml



Manual Integration Results

RT: 6.81
Area: 207362
Amount: 0.845118
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:54:46 -05:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

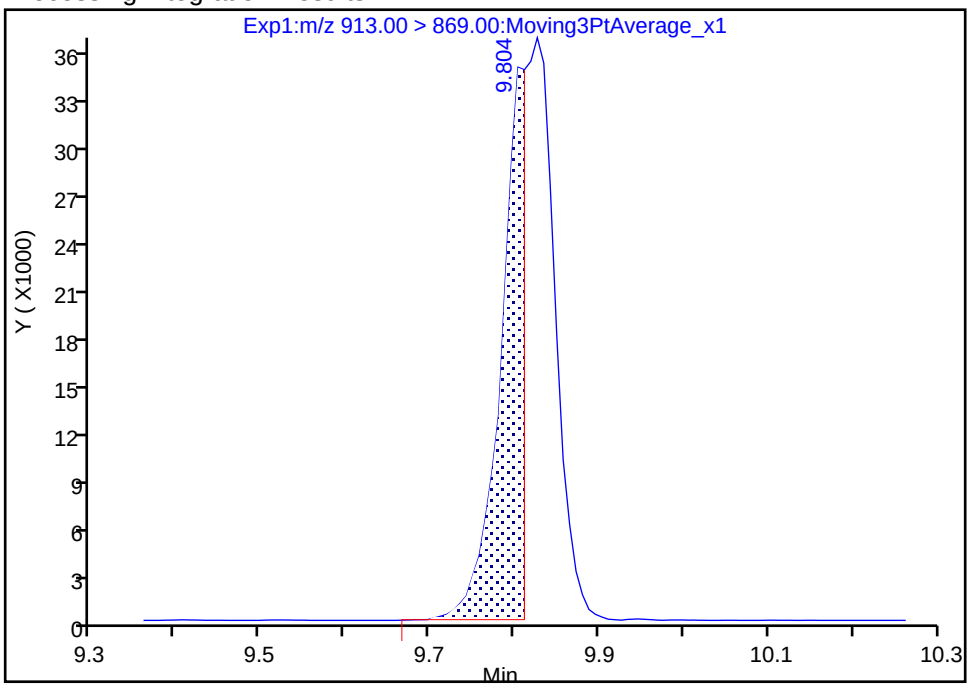
Data File:	\\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-04.d				
Injection Date:	29-Jan-2026 01:19:42	Instrument ID:	30576		
Lims ID:	IC CAL 4				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	5	Worklist Smp#:	4
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

81 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

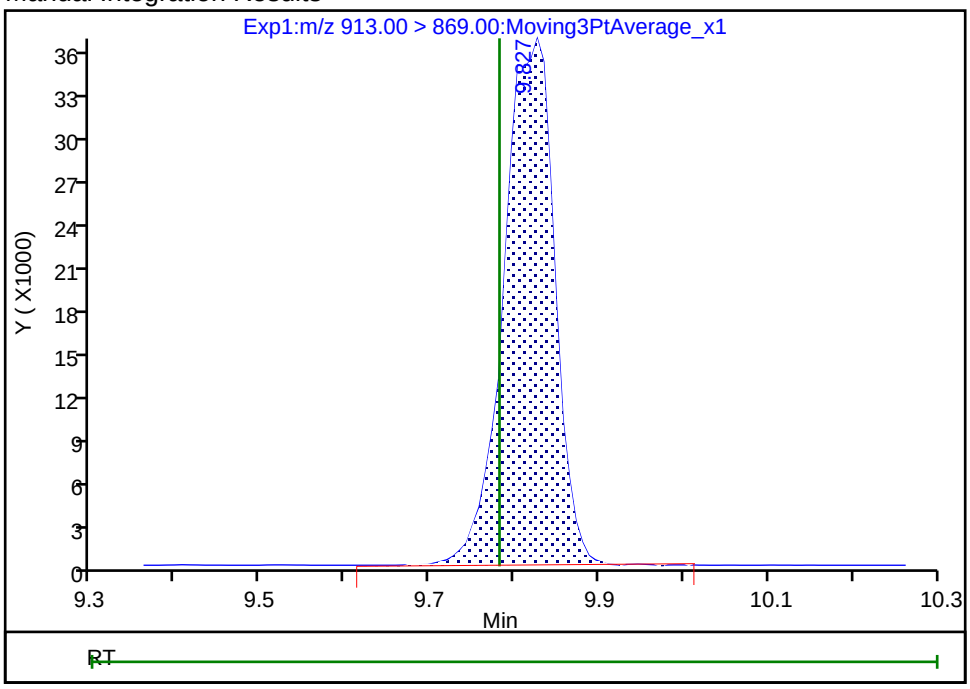
Processing Integration Results

RT: 9.80
Area: 65448
Amount: 0.214482
Amount Units: ng/ml



Manual Integration Results

RT: 9.83
Area: 153891
Amount: 0.484271
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:54:57 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-05.d
Lims ID: ICISAV CAL 5
Client ID:
Sample Type: ICISAV Calib Level: 5
Inject. Date: 29-Jan-2026 01:33:18 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub14

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 12:07:55 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1631

First Level Reviewer: M4QQ Date: 29-Jan-2026 06:51:16
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 13C3PFPrA										
166.00 > 121.00	2.008	2.008	0.0	0.480	1132478	1.93		96.6	588	
2 Perfluoropropionic acid										
163.00 > 119.00	2.033	2.033	0.0	1.012	6737057	13.0		104	18192	
3 PFBA										
212.80 > 168.90	4.179	4.179	0.0	0.998	3278986	5.20		104	35767	
D 4 13C4-PFBA										
216.80 > 171.90	4.187	4.187	0.0	1.000	1378659	1.95		97.4	7112	
* 5 13C3PFBA										
216.00 > 172.00	4.187	4.187	0.0		1353536	2.00			618	
6 PFMPA										
229.00 > 84.90	4.508	4.508	0.0	0.931	1939827	2.64		105	4804	
7 3:3 FTCA										
241.00 > 177.00	4.518	4.518	0.0	0.933	201988	5.05	Target=1.25	101	1558	
241.00 > 117.00	4.518	4.518	0.0	0.933	162892		1.24(0.63-1.88)	101	967	
D 8 13C5 PFPeA										
268.30 > 223.00	4.842	4.842	0.0	0.911	882046	2.07		103	5244	
9 PFPA										
263.00 > 219.00	4.850	4.850	0.0	1.002	2062260	2.52		101	2807	
10 PFMBA										
279.00 > 85.10	4.999	4.999	0.0	1.033	2285253	2.44		97.6	8702	
D 12 13C2-4:2FTS										
329.10 > 80.90	5.123	5.123	0.0	0.800	539075	4.74		101	3540	
13 4:2FTS										
327.10 > 307.00	5.123	5.123	0.0	1.000	891876	4.66	Target=1.50	99.4	7284	
327.10 > 80.90	5.123	5.123	0.0	1.000	596273		1.50(0.75-2.24)	99.4	4800	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.271	5.271	0.0	0.992	818756	2.80	Target=1.42	112	5258	
295.00 > 84.90	5.271	5.271	0.0	0.992	536685		1.53(0.71-2.13)	112	3896	
D 15 13C5 PFHxA										
318.00 > 273.00	5.312	5.312	0.0	1.000	1666394	1.99		99.5	4767	
* 16 13C2 PFHxA										
315.10 > 270.00	5.312	5.312	0.0		3666012	5.00			7163	
17 PFHxA										a
313.00 > 269.00	5.312	5.312	0.0	1.000	1845510	2.57	Target=11.34	103	2283	a
313.00 > 118.90	5.312	5.312	0.0	1.000	149069		12.38(5.67-17.02)	103	1216	
18 5:3 FTCA										
341.00 > 237.10	5.375	5.375	0.0	1.012	1221574	13.1	Target=0.84	105	3717	
341.00 > 217.00	5.375	5.375	0.0	1.012	1460211		0.84(0.42-1.26)	105	3593	
19 FBSA										
297.90 > 78.00	5.441	5.441	0.0	0.998	2279918	2.43		97.3	3607	
D 20 13C3 PFBS										
302.10 > 79.90	5.454	5.454	0.0	0.852	1657318	1.98		106	11473	
21 PFBS										
298.70 > 79.90	5.454	5.454	0.0	1.000	2120678	2.26	Target=3.25	102	5739	
298.70 > 98.80	5.454	5.454	0.0	1.000	690350		3.07(1.62-4.87)	102	3562	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.495	5.495	0.0	1.034	1499964	2.07		103	3867	
23 HFPO-DA										
284.90 > 168.90	5.495	5.495	0.0	1.000	1396180	1.87	Target=2.31	99.7	2915	
284.90 > 184.90	5.495	5.495	0.0	1.000	595217		2.35(1.15-3.46)	99.7	2533	
26 PFEESA										
314.80 > 134.90	5.697	5.697	0.0	1.072	5321100	2.43	Target=11.22	109	16161	
314.80 > 82.90	5.697	5.697	0.0	1.072	458300		11.61(5.61-16.83)	109	2101	
27 PFHpA										
363.10 > 319.00	5.740	5.740	0.0	1.000	1838370	2.56	Target=2.31	102	2996	
363.10 > 169.00	5.740	5.740	0.0	1.000	795790		2.31(1.16-3.47)	102	2280	
D 28 13C4 PFHpA										
367.10 > 322.00	5.740	5.740	0.0	1.081	1709959	2.07		103	5641	
29 ADONA										
376.90 > 250.90	5.892	5.892	0.0	1.072	4301629	2.41	Target=1.98	102	13753	
376.90 > 84.80	5.892	5.892	0.0	1.072	2226176		1.93(0.99-2.97)	102	7536	
D 30 13C2-6:2FTS										
429.10 > 80.90	5.936	5.936	0.0	0.927	455442	4.87		102	2407	
31 6:2FTS										
427.10 > 407.00	5.936	5.936	0.0	1.000	787301	4.97	Target=1.40	104	941	
427.10 > 80.90	5.936	5.936	0.0	1.000	526951		1.49(0.70-2.10)	104	946	
32 PFPeS										
349.10 > 79.90	5.951	5.951	0.0	0.929	2129877	2.53	Target=3.31	108	8423	
349.10 > 98.90	5.951	5.951	0.0	0.929	686512		3.10(1.65-4.96)	108	211512	
33 BTS										
280.00 > 147.00	6.121	6.121	0.0	0.956	5043843	2.57		105	13189	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 PFOA										
413.00 > 369.00	6.160	6.160	0.0	1.000	1667432	2.59	Target=1.89	104	1411	
413.00 > 169.00	6.160	6.160	0.0	1.000	897345		1.86(0.95-2.84)	104	1021	
D 35 13C8 PFOA										
421.10 > 376.00	6.160	6.160	0.0	1.000	2023138	1.92		96.2	7300	
* 36 13C4 PFOA										
417.10 > 372.00	6.160	6.160	0.0		5257348	5.00			12394	
37 7:3 FTCA										
441.00 > 316.90	6.212	6.212	0.0	1.169	622555	13.0	Target=0.34	104	1676	
441.00 > 336.90	6.212	6.212	0.0	1.169	1845584		0.34(0.17-0.50)	104	2769	
39 PFHxS										
398.70 > 79.90	6.404	6.404	0.0	1.000	1542366	2.36	Target=3.47	104	1783	
398.70 > 98.90	6.392	6.404	-0.012	0.998	466900		3.30(1.73-5.20)	104	938	
* 40 18O2 PFHxS										
403.00 > 83.90	6.404	6.404	0.0		1412738	1.90			5885	
D 38 13C3 PFHxS										
402.10 > 79.90	6.404	6.404	0.0	1.000	1434246	1.87		98.9	4798	
D 41 13C9 PFNA										
472.10 > 427.00	6.568	6.568	0.0	0.998	1694413	2.02		101	3873	
42 PFNA										
463.00 > 419.00	6.568	6.568	0.0	1.000	1992028	2.43	Target=2.73	97.3	3712	
463.00 > 219.00	6.581	6.568	0.013	1.002	761912		2.61(1.37-4.09)	97.3	912	
* 43 13C5 PFNA										
468.00 > 423.00	6.581	6.581	0.0		1792321	2.00			6042	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.758	6.758	0.0	1.055	453461	5.08		106	2030	
45 8:2FTS										
527.10 > 507.00	6.770	6.770	0.0	1.002	597508	4.74	Target=1.55	98.8	1221	
527.10 > 80.80	6.770	6.770	0.0	1.002	438436		1.36(0.78-2.33)	98.8	1653	
46 PFECHS										
461.00 > 381.00	6.808	6.808	0.0	1.063	564670	2.48	Target=0.25	107	2589	
461.00 > 99.00	6.808	6.808	0.0	1.063	2172787		0.26(0.13-0.38)	107	4050	
47 FHxSA										
397.90 > 78.00	6.832	6.832	0.0	1.067	2866801	2.73		109	4582	
48 PFHpS										
449.00 > 79.90	6.845	6.845	0.0	0.939	1988690	2.49	Target=4.28	105	3900	
449.00 > 98.80	6.845	6.845	0.0	0.939	489562		4.06(2.14-6.42)	105	1226	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.929	6.929	0.0	0.950	877124	4.61		92.1	1228	
50 NMeFOSAA										
570.10 > 419.00	6.929	6.929	0.0	1.000	575389	2.83	Target=1.90	113	169797	
570.10 > 483.00	6.929	6.929	0.0	1.000	294385		1.95(0.95-2.85)	113	78061	
* 51 13C2 PFDA										
515.10 > 470.10	7.000	7.000	0.0		1717167	2.00			5371	
D 52 13C6 PFDA										
519.10 > 474.10	7.000	7.000	0.0	1.000	1703670	1.96		98.2	4832	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
53 PFDA										
512.90 > 469.00	7.000	7.000	0.0	1.000	1406371	2.57	Target=3.34	103	3541	
512.90 > 219.00	7.000	7.000	0.0	1.000	443655		3.17(1.67-5.01)	103	2877	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.111	7.111	0.0	0.975	786124	4.78		95.5	1421	
55 NEtFOSAA										
584.20 > 419.10	7.111	7.111	0.0	1.000	335551	2.68	Target=1.51	107	101039	
584.20 > 526.00	7.124	7.111	0.013	1.002	204107		1.64(0.75-2.26)	107	54207	
D 56 13C8 PFOS										
507.10 > 79.90	7.291	7.291	0.0	1.000	1207568	1.86		97.0	624	
* 57 13C4 PFOS										
502.80 > 79.90	7.291	7.291	0.0		1226120	1.92			5241	
58 PFOS										
498.90 > 79.90	7.291	7.291	0.0	1.000	2092188	2.35	Target=4.89	101	2311	
498.90 > 98.80	7.291	7.291	0.0	1.000	420094		4.98(2.45-7.34)	101	529	
D 59 13C7 PFUnA										
570.00 > 525.10	7.435	7.435	0.0	1.062	1610810	1.86		93.1	3409	
60 PFUnA										
563.10 > 519.00	7.435	7.435	0.0	1.000	940584	2.51	Target=3.26	101	2910	
563.10 > 269.10	7.435	7.435	0.0	1.000	324968		2.89(1.63-4.88)	101	2596	
61 9ClFOS										
530.80 > 351.00	7.620	7.620	0.0	1.045	4416251	2.52	Target=3.01	108	1442430	
532.80 > 353.00	7.620	7.620	0.0	1.045	1420713		3.11(1.51-4.52)	108	4275	
62 PFNS										
548.80 > 79.90	7.723	7.723	0.0	1.059	1724378	2.51	Target=4.32	105	3966	
548.80 > 98.80	7.723	7.723	0.0	1.059	394464		4.37(2.16-6.47)	105	1878	
63 PFDoA										
613.10 > 569.00	7.861	7.861	0.0	1.000	1059630	2.51	Target=3.42	101	3700	
613.10 > 319.00	7.861	7.861	0.0	1.000	328235		3.23(1.71-5.13)	101	1937	
D 64 13C2 PFDoA										
615.10 > 570.00	7.861	7.861	0.0	1.123	1209220	1.98		99.1	3000	
D 65 13C8 FOSA										
506.10 > 77.80	7.958	7.958	0.0	1.091	1402020	1.92		96.2	8585	
66 PFOSA										
498.10 > 77.90	7.971	7.971	0.0	1.002	1907791	2.60	Target=43.97	104	3443	
498.10 > 478.00	7.958	7.971	-0.013	1.000	42543		44.84(21.98-65.95)	104	107	
67 PFDS										
599.00 > 79.90	8.118	8.118	0.0	1.113	1832933	2.52	Target=4.28	105	9197	
599.00 > 98.80	8.118	8.118	0.0	1.113	408289		4.49(2.14-6.41)	105	120023	
68 PFTrDA										
663.00 > 619.00	8.262	8.262	0.0	0.959	1127748	2.35	Target=4.49	94.0	4414	
663.00 > 168.90	8.262	8.262	0.0	0.959	279377		4.04(2.24-6.73)	94.0	1433	
69 11ClFOS										
630.90 > 450.90	8.425	8.425	0.0	1.156	2321637	2.42	Target=2.77	102	16529	
632.90 > 452.90	8.425	8.425	0.0	1.156	845063		2.75(1.39-4.16)	102	10091	
70 PFTeDA										
713.10 > 168.90	8.616	8.616	0.0	1.000	179829	2.62	Target=0.89	105	1859	
713.10 > 219.00	8.616	8.616	0.0	1.000	206321		0.87(0.44-1.33)	105	1949	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 71 13C2 PFTeDA										
715.20 > 670.00	8.616	8.616	0.0	1.231	922940	1.82		91.2	2986	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.744	8.744	0.0	1.199	531246	4.62		92.5	251	
73 N-MeFOSE-M										
616.10 > 58.90	8.758	8.758	0.0	1.002	2627039	12.9		103	7687	
74 PFDoS										
699.10 > 79.90	8.799	8.799	0.0	1.207	1715784	2.56	Target=4.86	106	4775	
699.10 > 98.80	8.799	8.799	0.0	1.207	360719		4.76(2.43-7.29)	106	3454	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.826	8.826	0.0	1.210	414847	2.02		101	3833	
76 NMeFOSA										
511.90 > 219.00	8.839	8.839	0.0	1.002	506732	2.45	Target=0.74	98.2	2044	
511.90 > 169.00	8.839	8.839	0.0	1.002	693634		0.73(0.37-1.10)	98.2	1657	
D 77 d9-N-EtFOSE										
639.20 > 58.90	8.932	8.932	0.0	1.225	748062	4.90		98.1	622	
78 N-EtFOSE-M										
630.00 > 58.90	8.945	8.945	0.0	1.001	3966743	12.6		101	15060	
D 79 d5-NEtPFOSA										
531.10 > 219.00	8.996	8.996	0.0	1.234	483500	1.93		96.6	2686	
80 N-EtFOSA-M										
526.00 > 219.00	9.009	9.009	0.0	1.001	619696	2.61	Target=0.84	105	3098	
526.00 > 169.00	8.996	9.009	-0.013	1.000	728334		0.85(0.42-1.25)	105	1686	
81 Perfluorooctadecanoic acid										a
913.00 > 869.00	9.782	9.782	0.0	1.135	568432	2.04	Target=11.42	81.5	8408	a
913.00 > 169.00	9.782	9.782	0.0	1.135	55086		10.32(5.71-17.13)	81.5	1393	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

1633_125_CAL5_00038 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 12:07:56 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-05.d

Injection Date: 29-Jan-2026 01:33:18 Instrument ID: 30576

Lims ID: ICISAV CAL 5

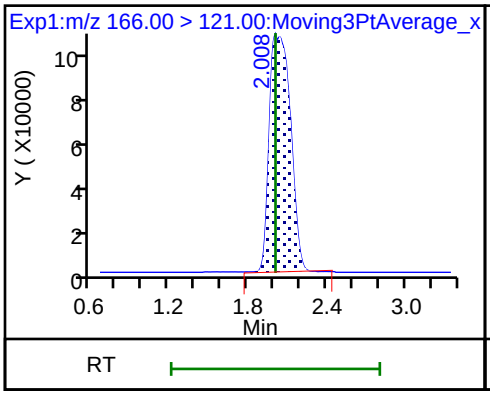
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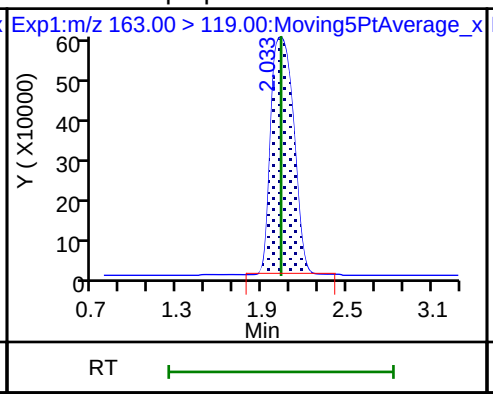
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Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

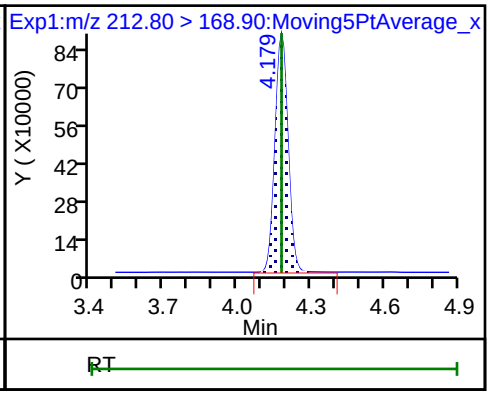
D 1 13C3PFPrA



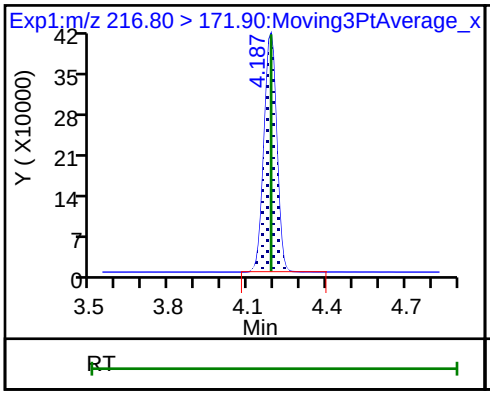
2 Perfluoropropionic acid



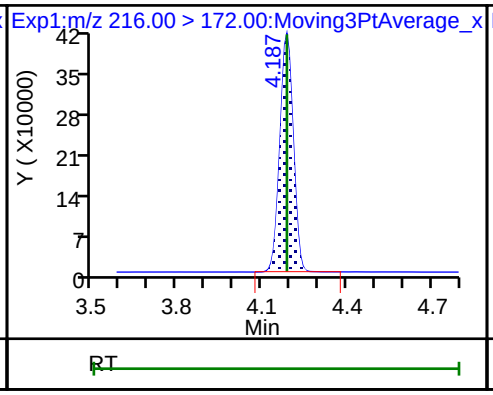
3 PFBA



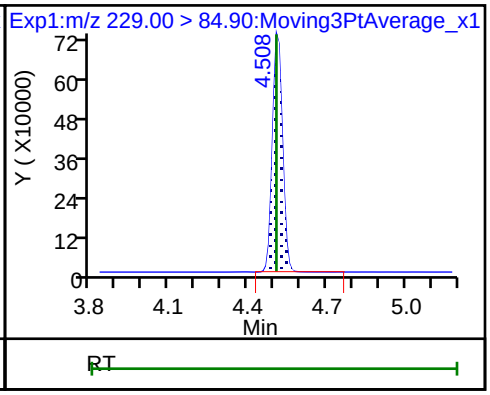
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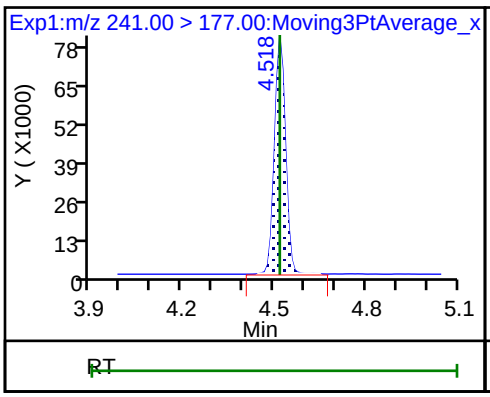
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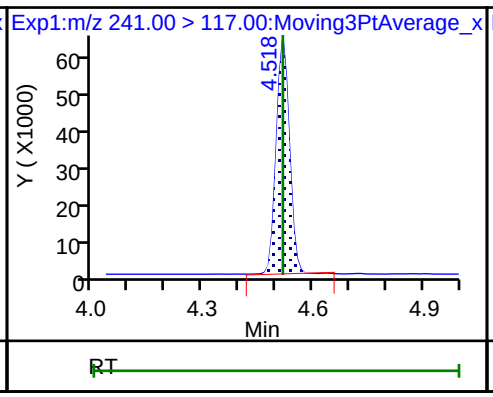
6 PFMPA



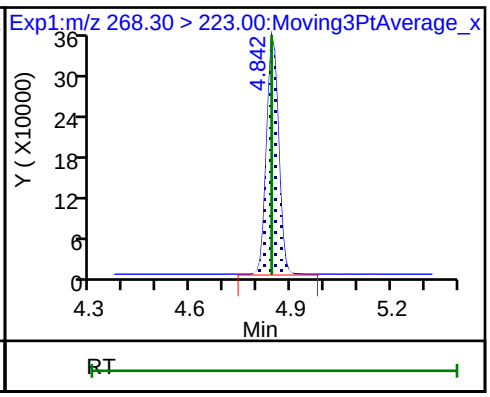
7 3:3 FTCA



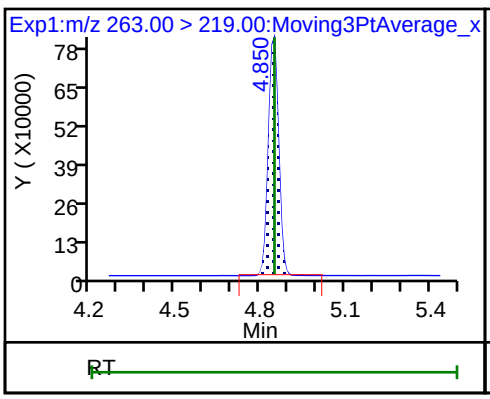
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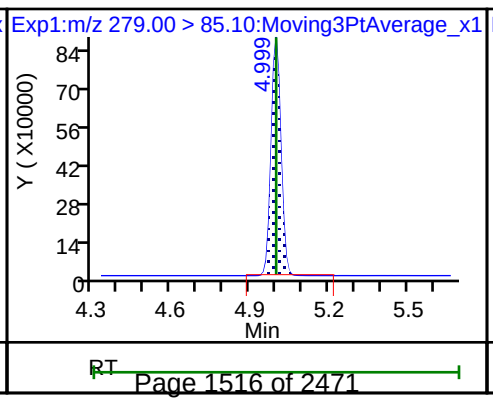
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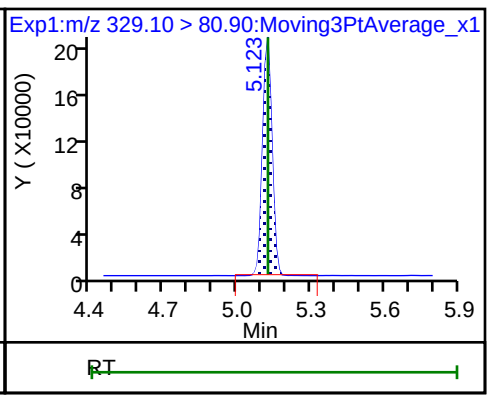
9 PFPA



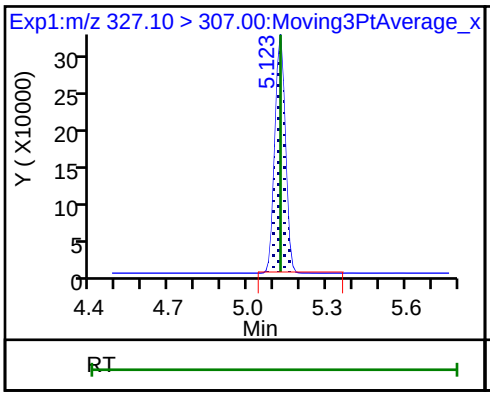
10 PFMBA



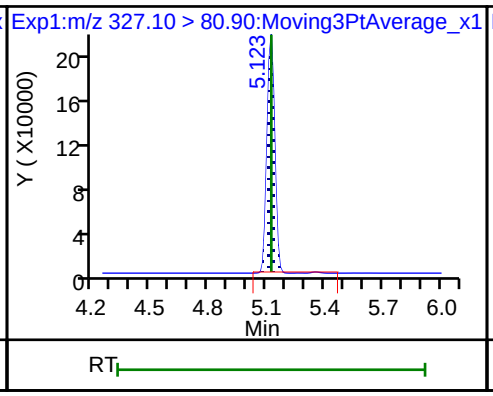
D 12 13C2-4:2FTS



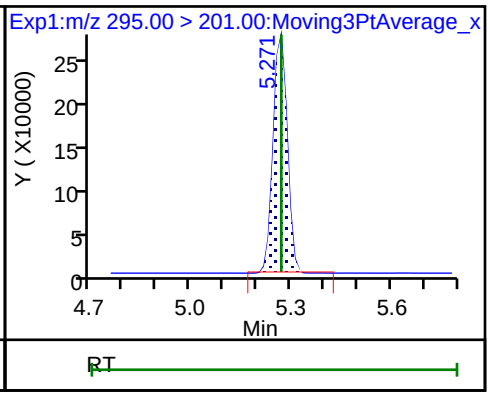
13 4:2FTS



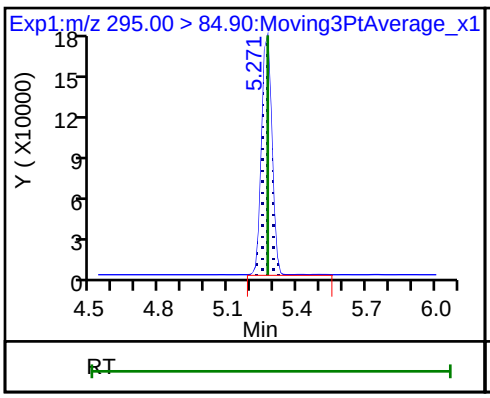
13 4:2FTS



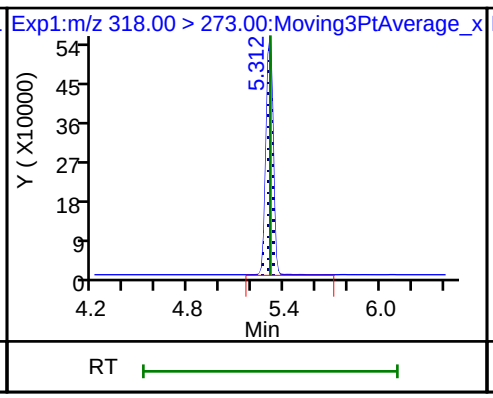
14 NFDHA



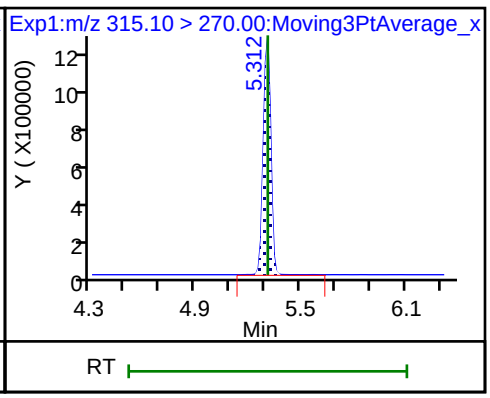
14 NFDHA



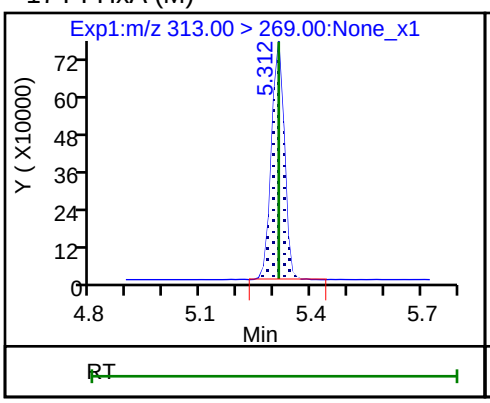
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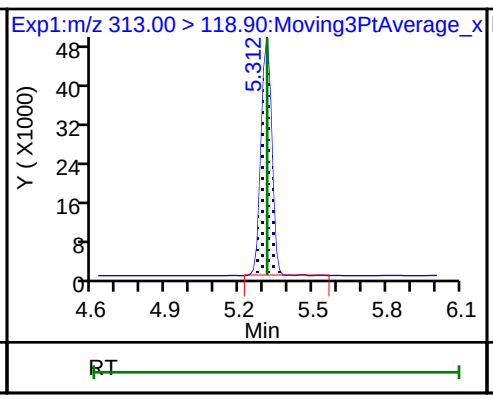
* 16 13C2 PFHxA



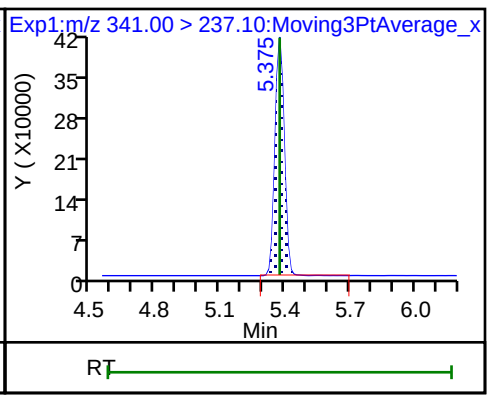
17 PFHxA (M)



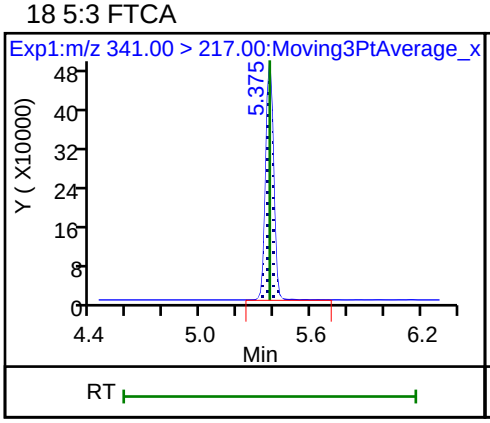
17 PFHxA



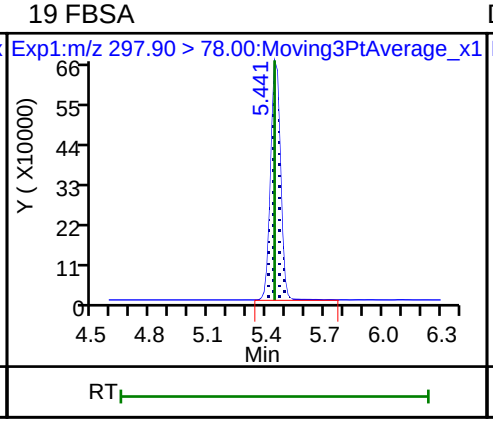
18 5:3 FTCA



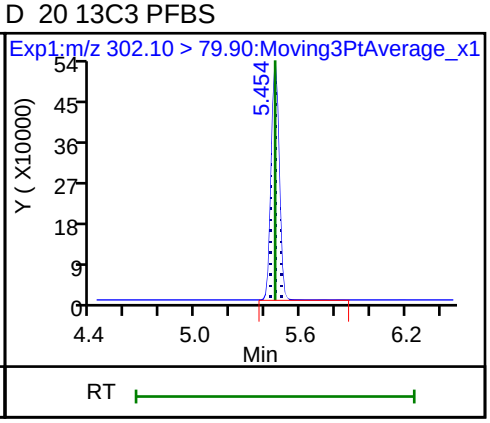
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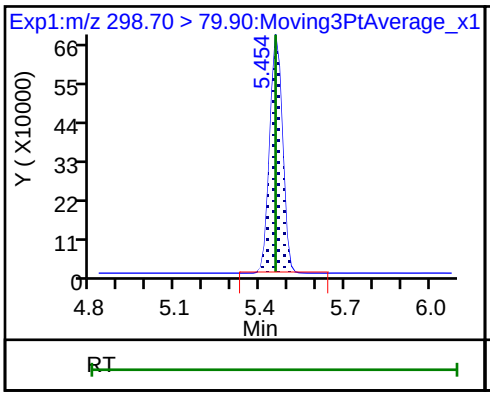
19 FBSA



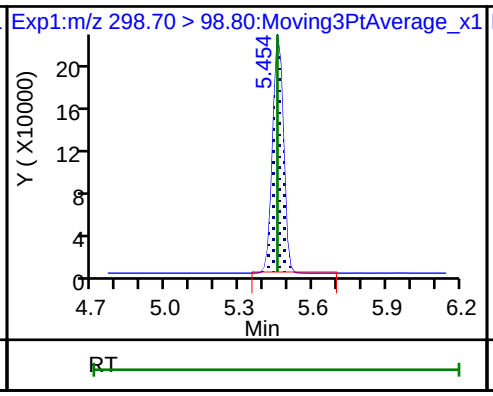
D 20 13C3 PFBS



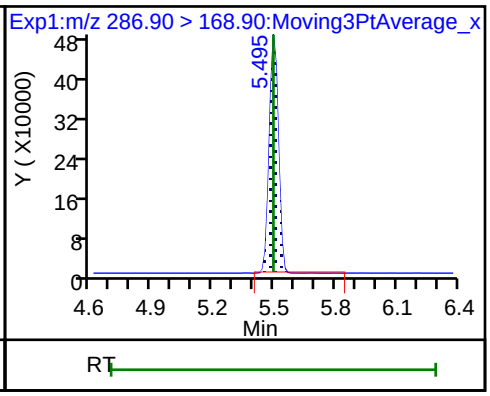
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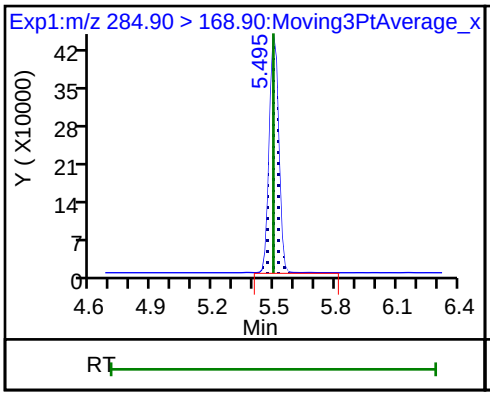
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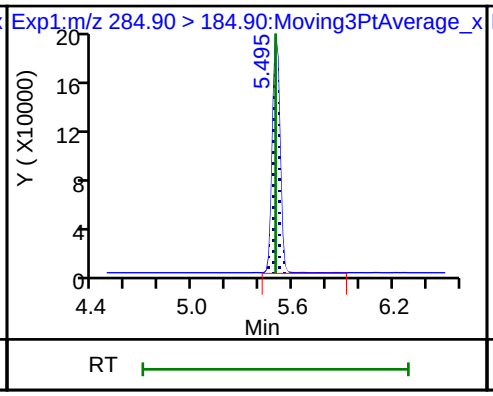
D 22 13C3 HFPO-DA



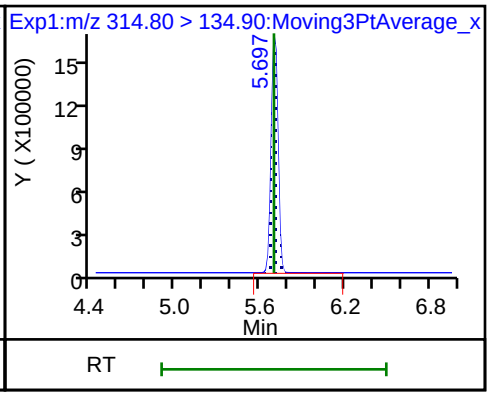
23 HFPO-DA



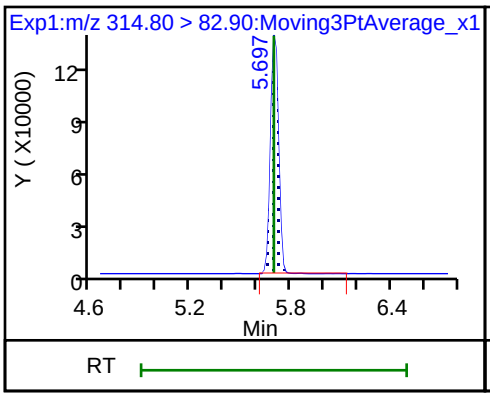
23 HFPO-DA



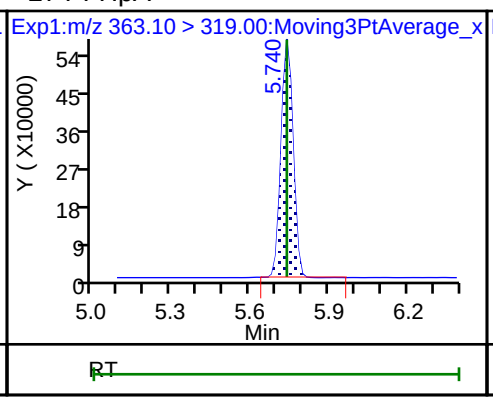
26 PFEESA



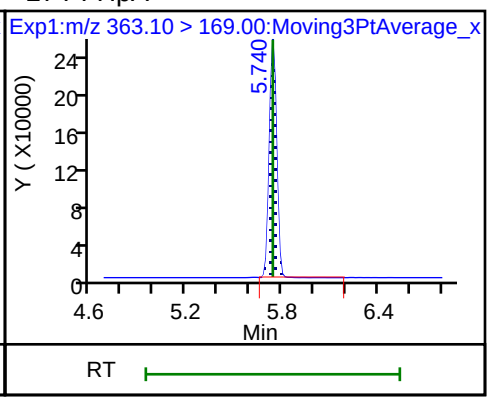
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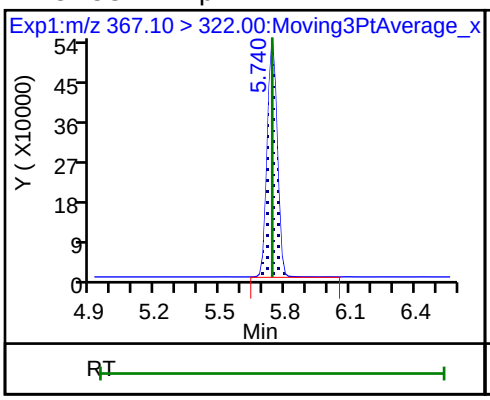
27 PFHpA



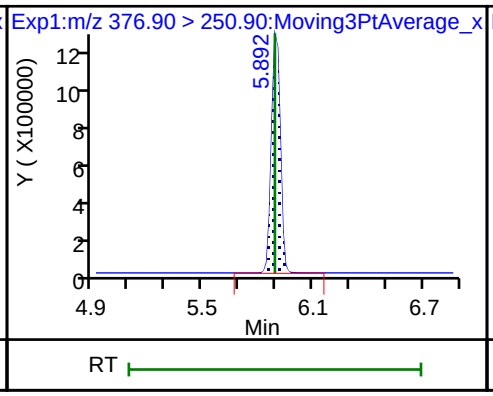
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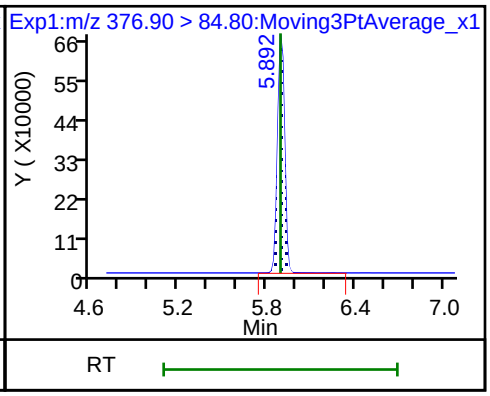
D 28 13C4 PFHpA



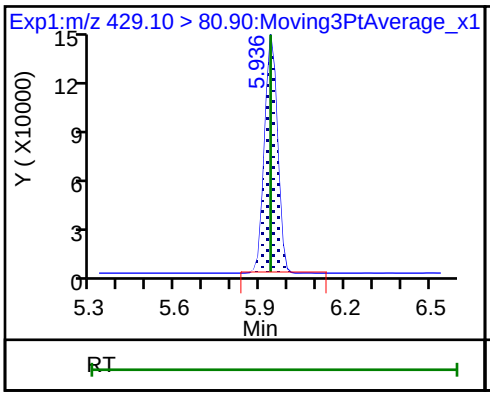
29 ADONA



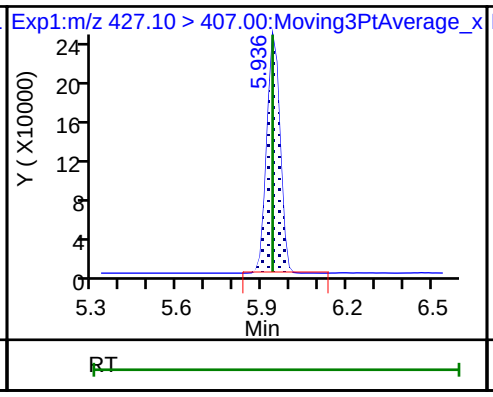
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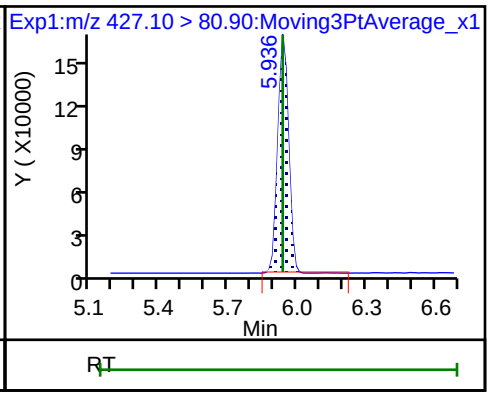
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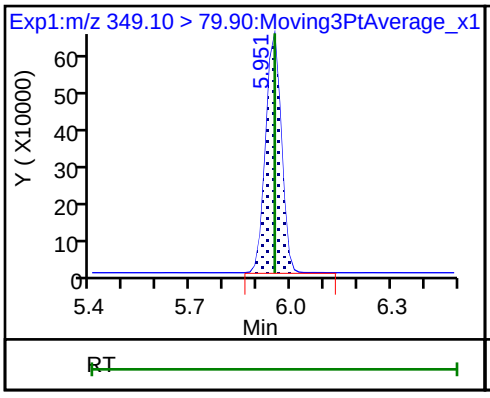
31 6:2FTS



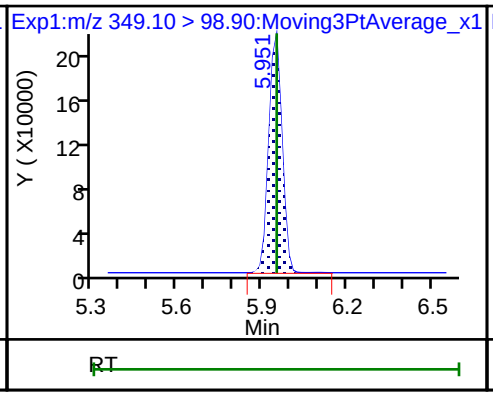
31 6:2FTS



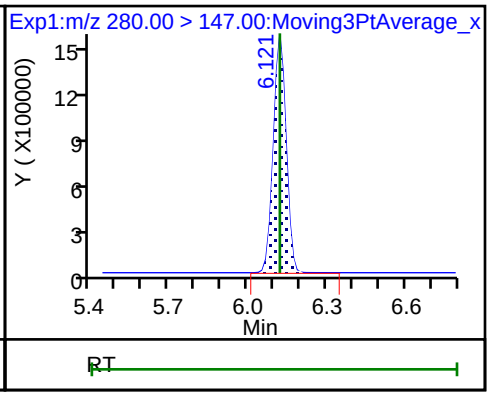
32 PFPeS



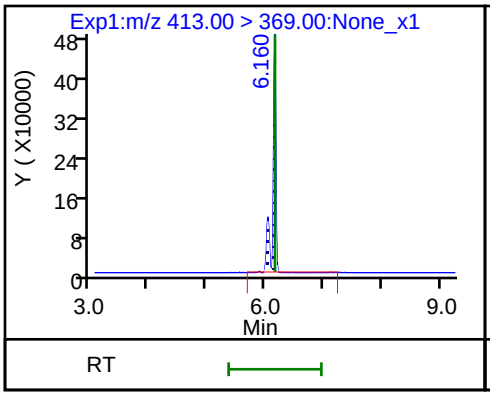
32 PFPeS



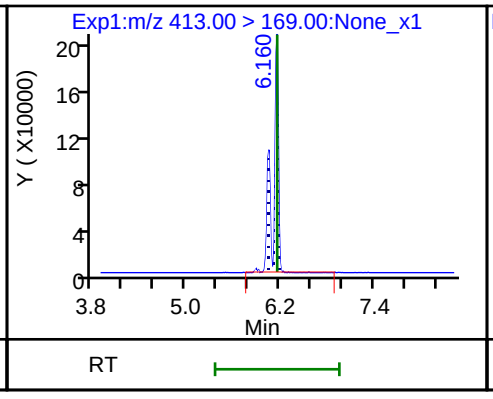
33 BTS



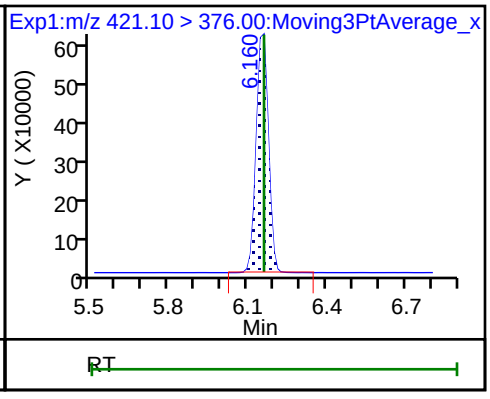
34 PFOA



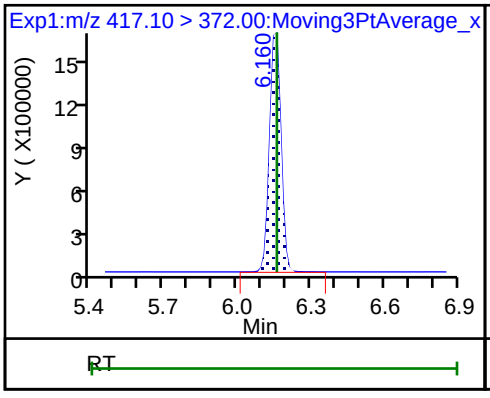
34 PFOA



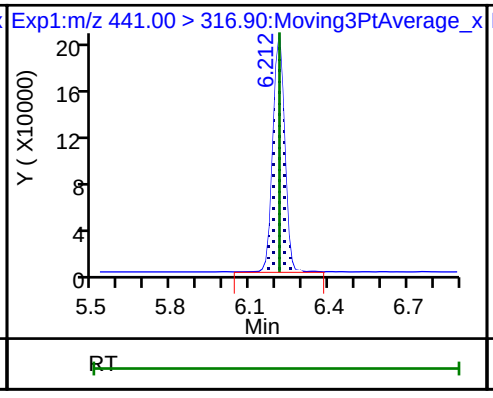
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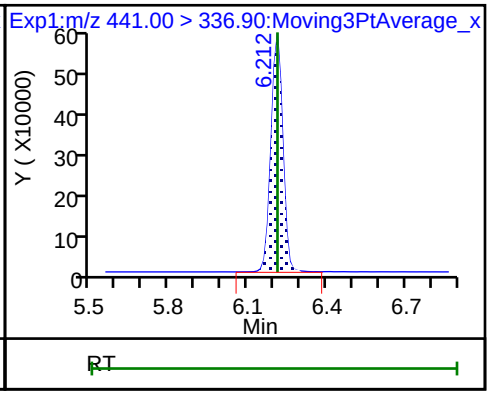
* 36 13C4 PFOA



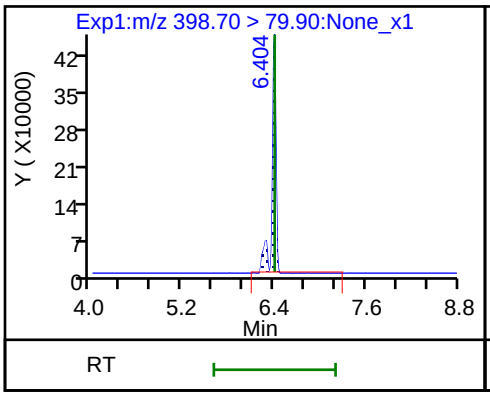
37 7:3 FTCA



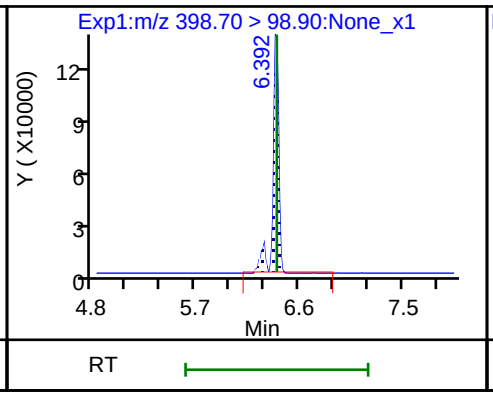
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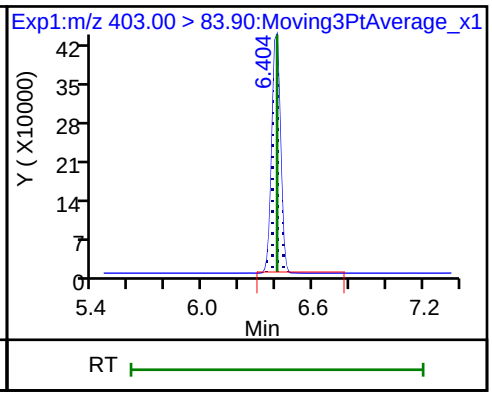
39 PFHxS



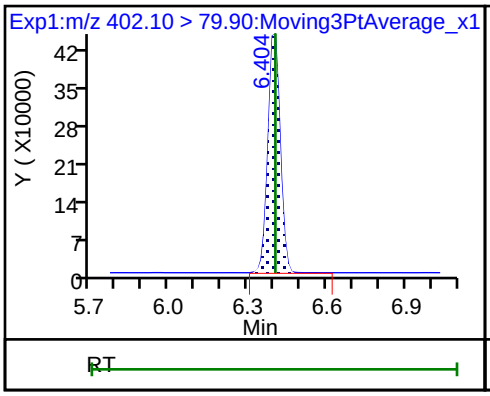
39 PFHxS



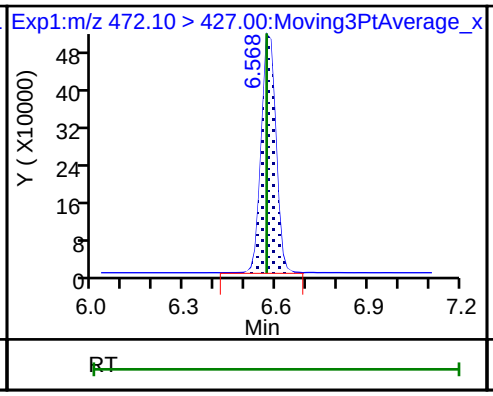
* 40 18O2 PFHxS



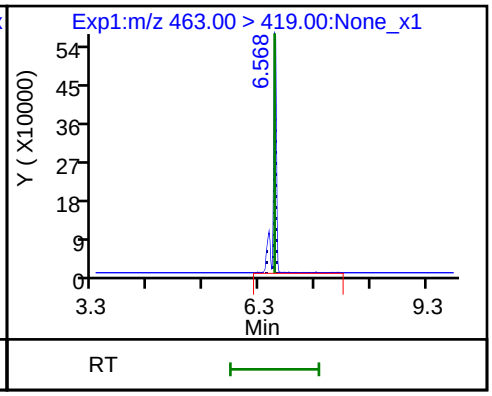
D 38 13C3 PFHxS



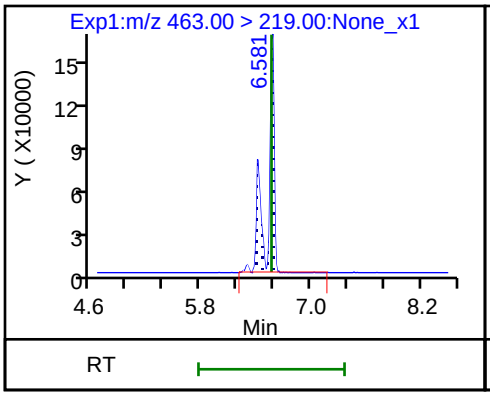
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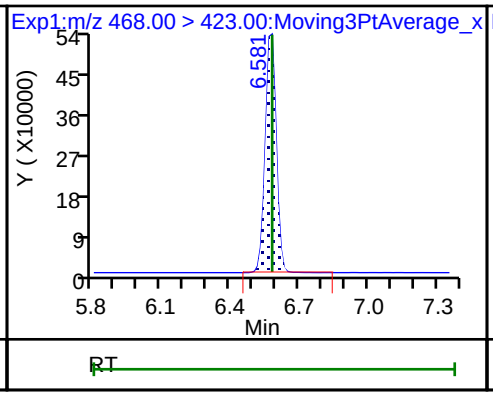
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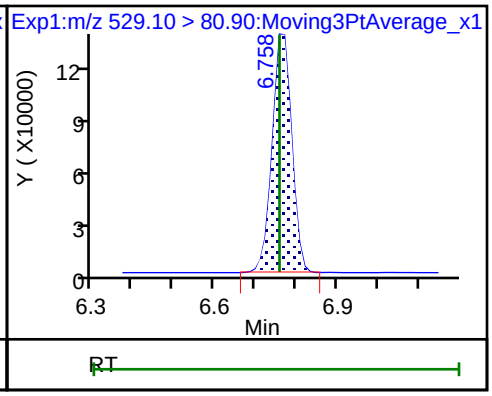
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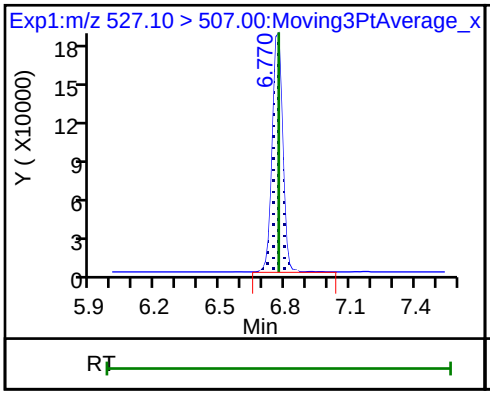
* 43 13C5 PFNA



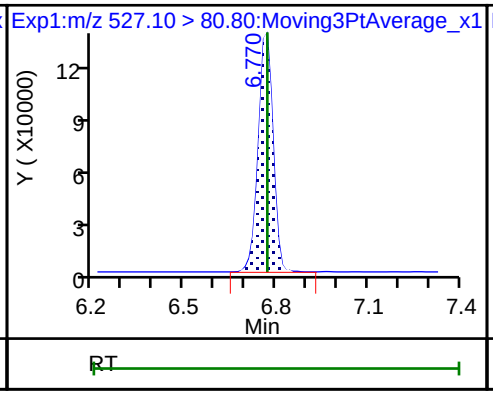
D 44 13C2-8:2FTS



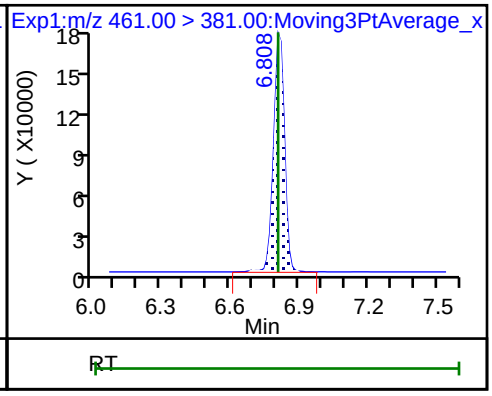
45 8:2FTS



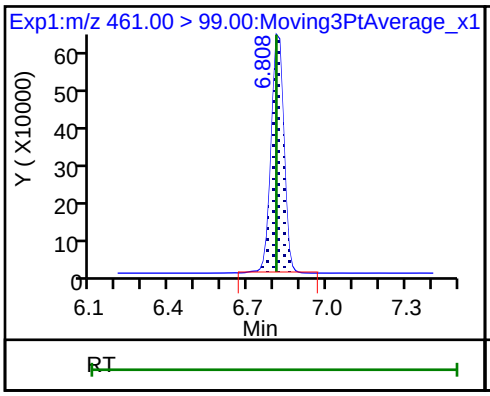
45 8:2FTS



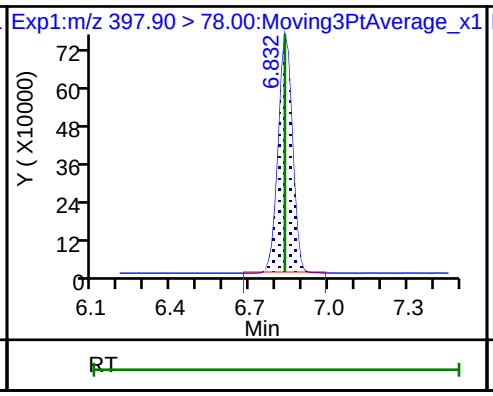
46 PFECHS



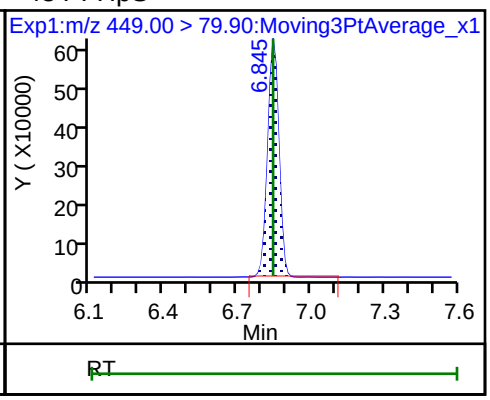
46 PFECHS



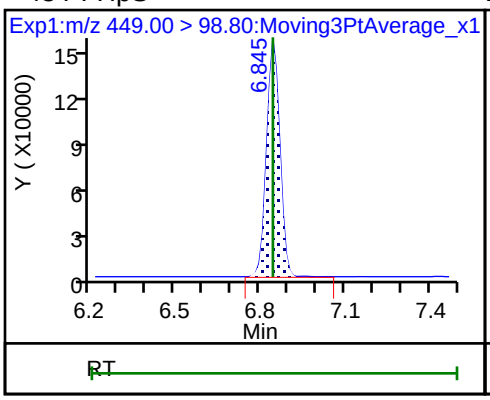
47 FHxSA



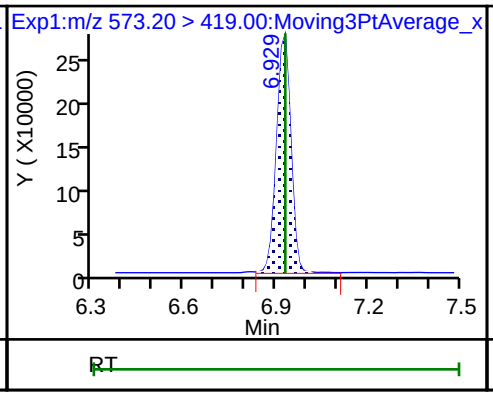
48 PFHpS



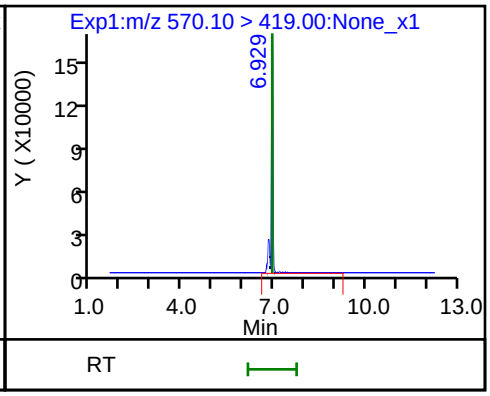
48 PFHpS



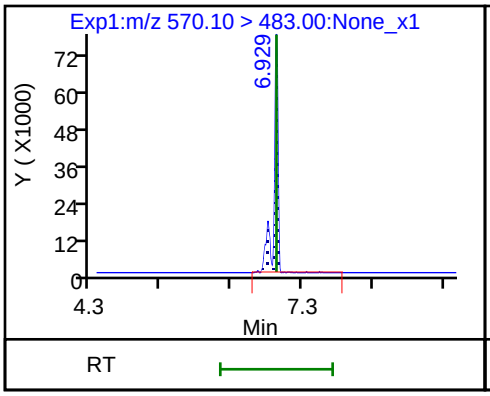
D 49 d3-NMeFOSAA



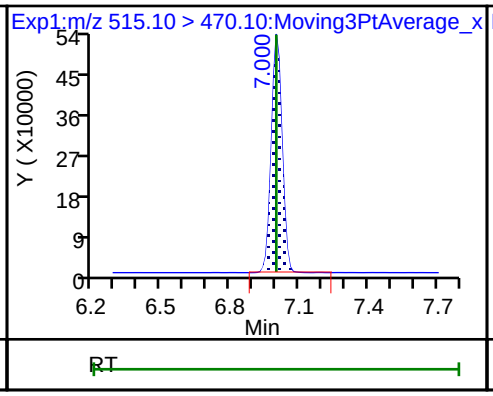
50 NMeFOSAA



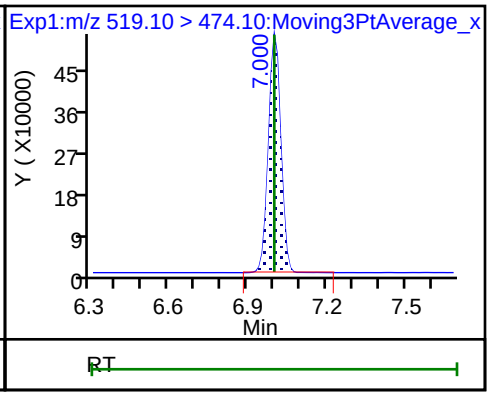
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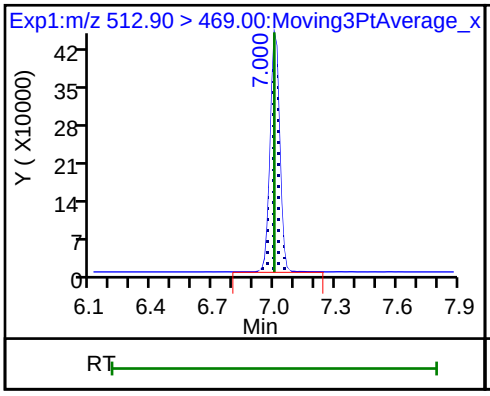
* 51 13C2 PFDA



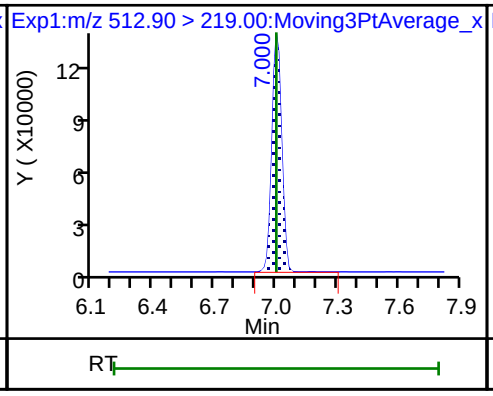
D 52 13C6 PFDA



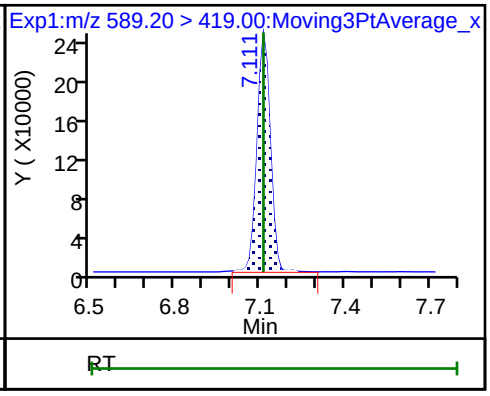
53 PFDA



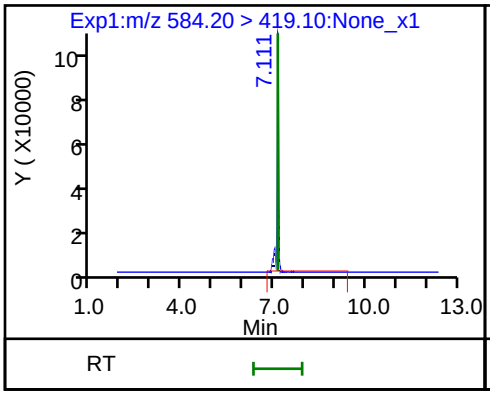
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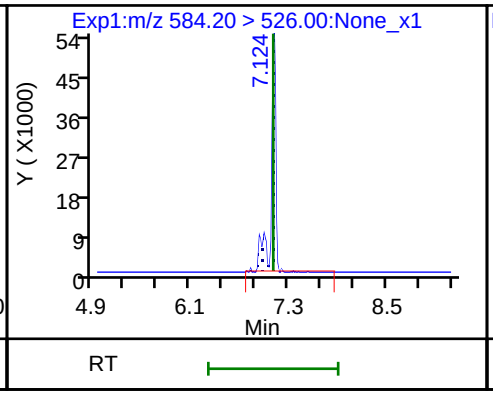
D 54 d5-NEtFOSAA



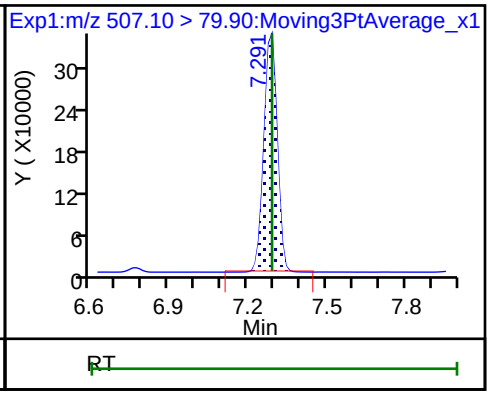
55 NEtFOSAA



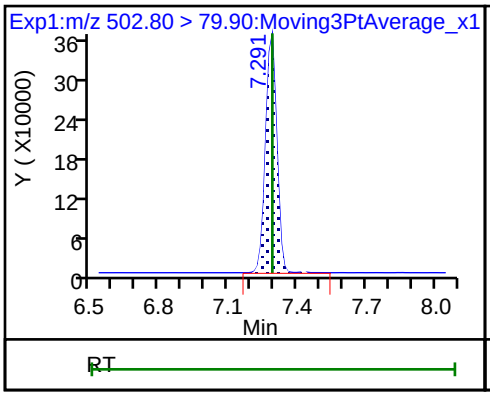
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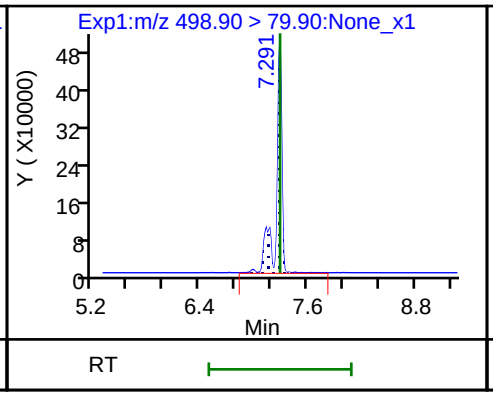
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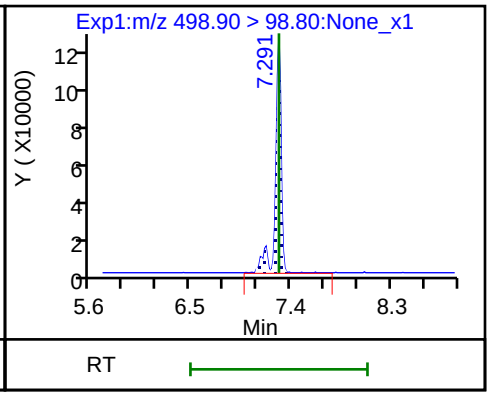
* 57 13C4 PFOS



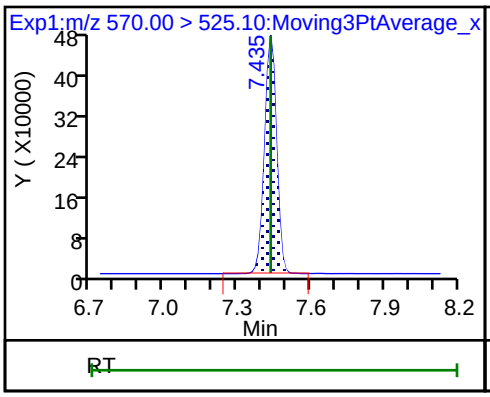
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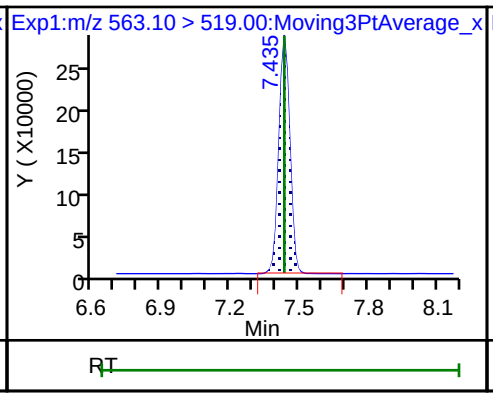
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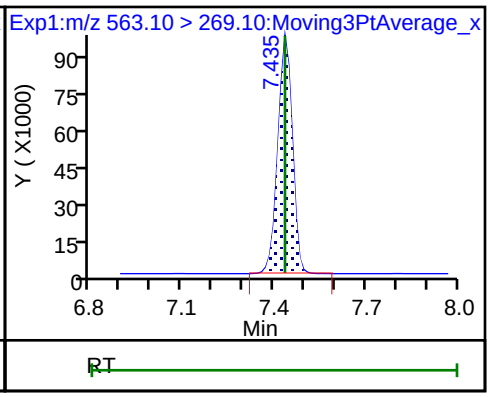
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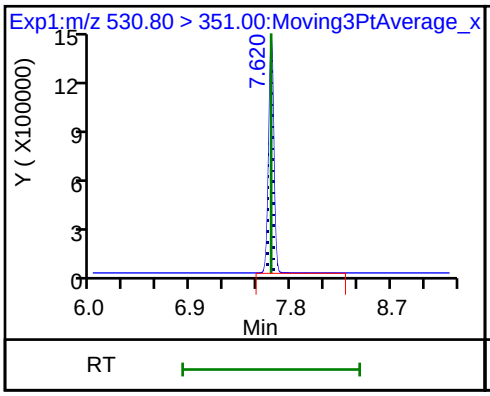
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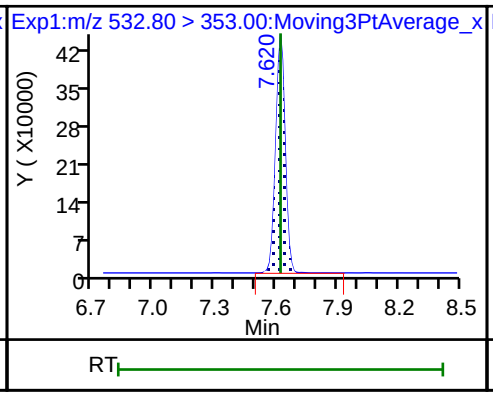
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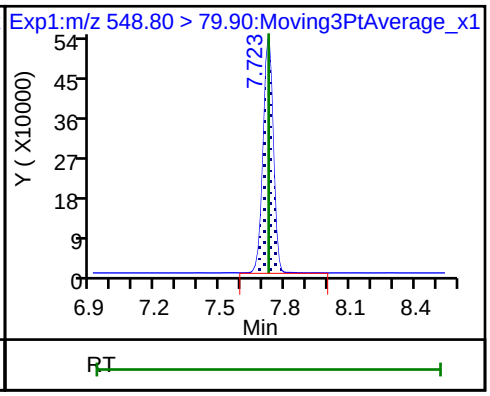
61 9ClFOS



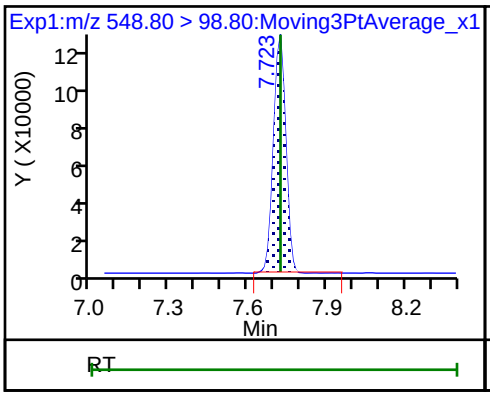
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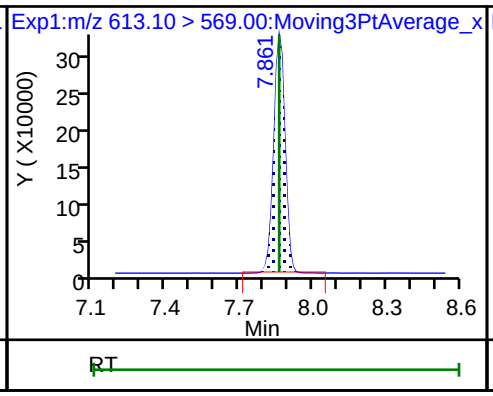
62 PFNS



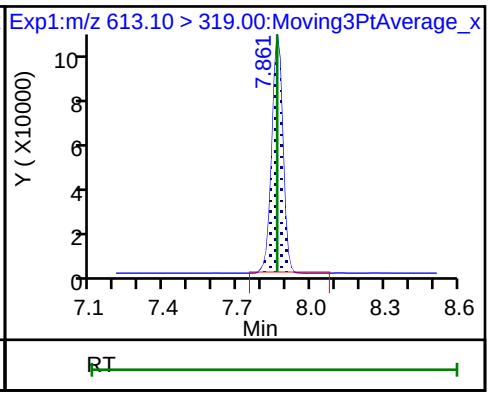
62 PFNS



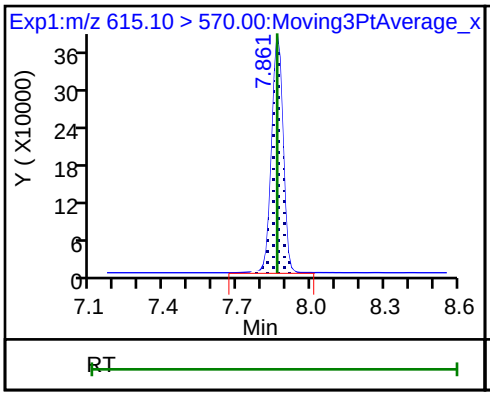
63 PFDoA



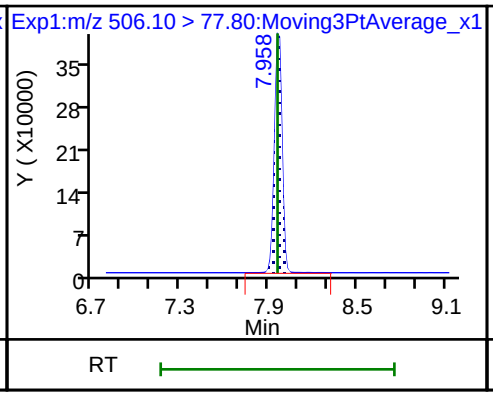
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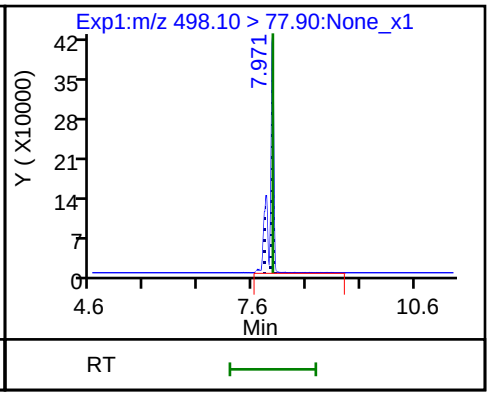
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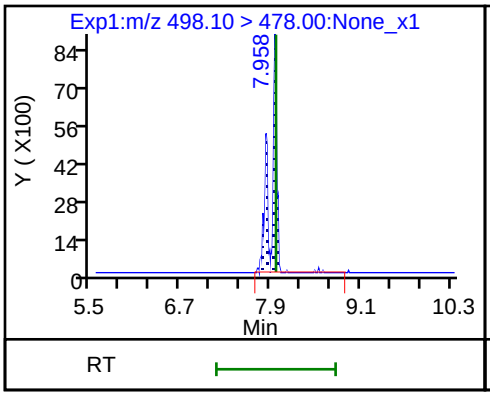
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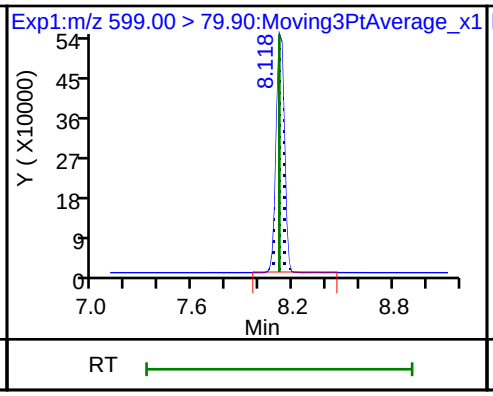
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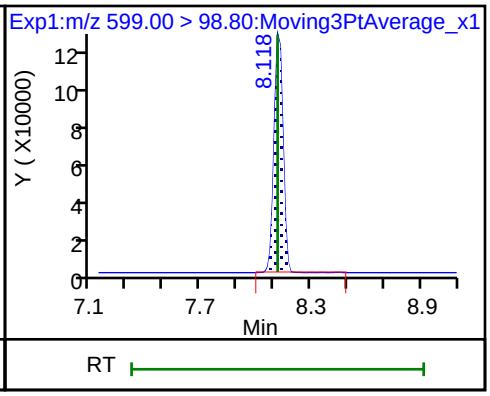
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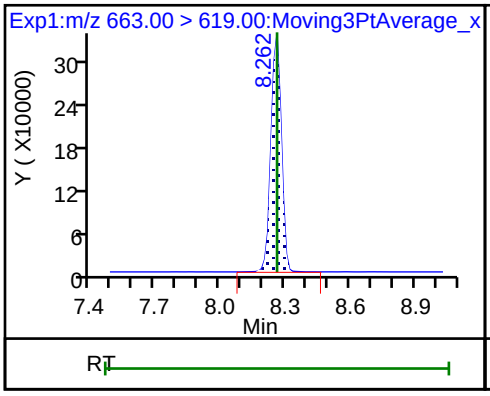
67 PFDS



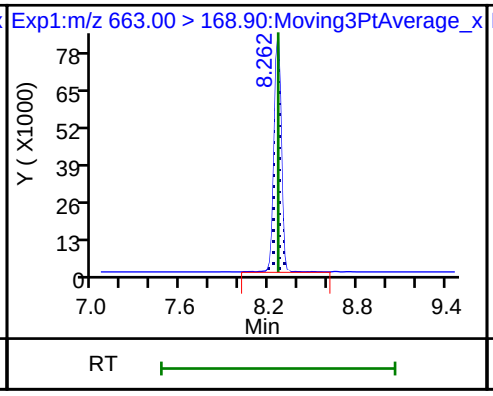
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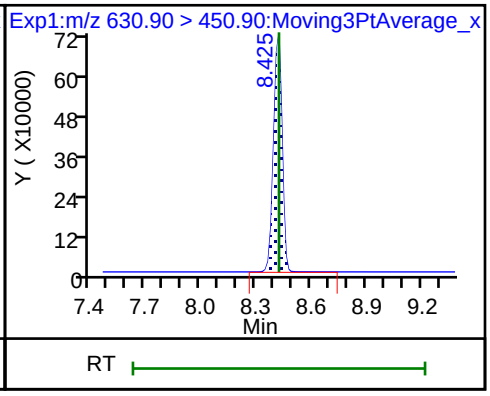
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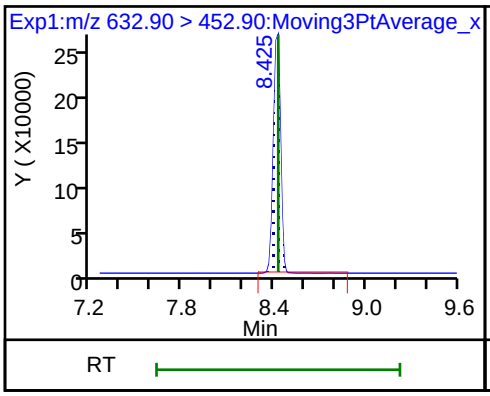
68 PFTrDA



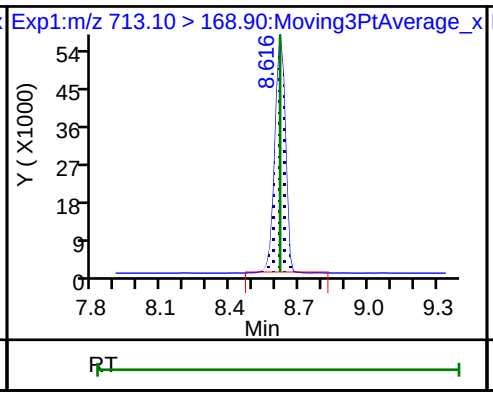
69 11ClFOS



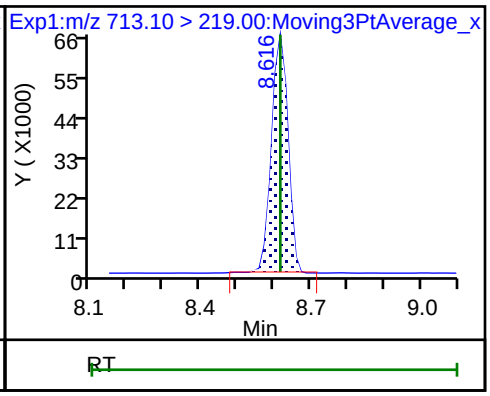
69 11ClFOS



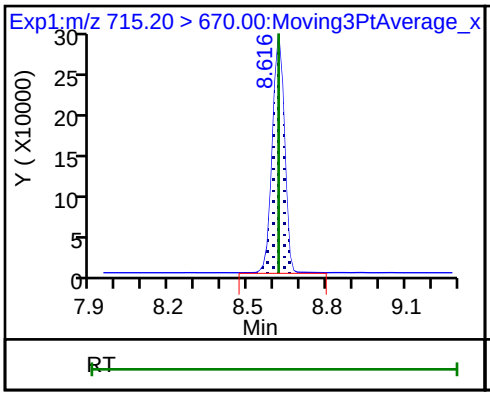
70 PFTeDA



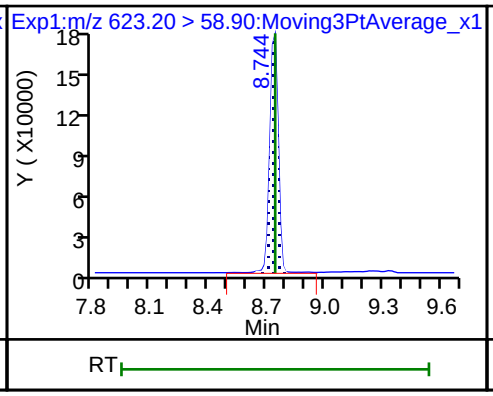
70 PFTeDA



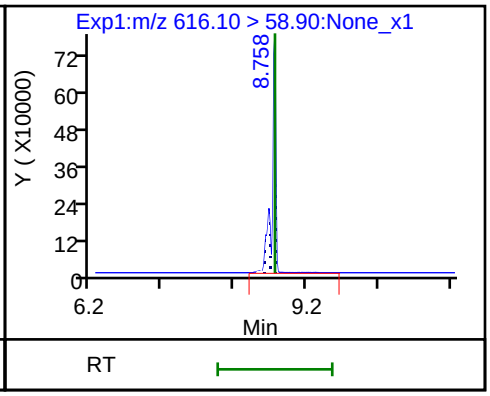
D 71 13C2 PFTeDA



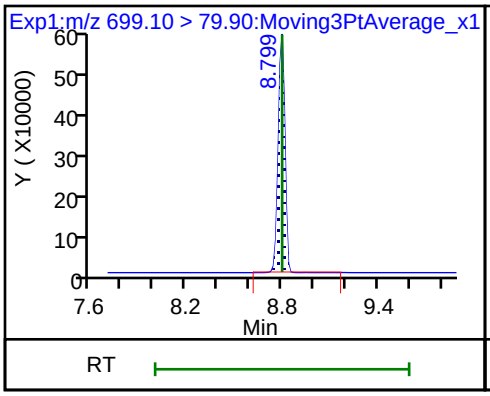
D 72 d7-N-Me-FOSE



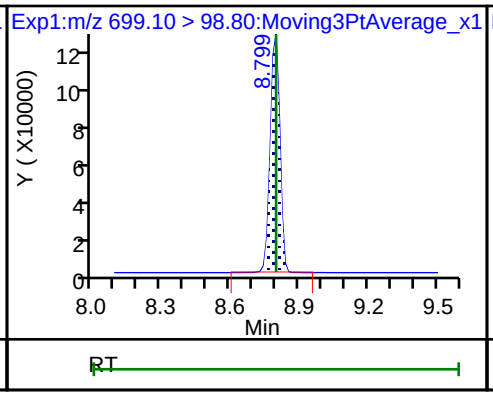
73 N-MeFOSE-M



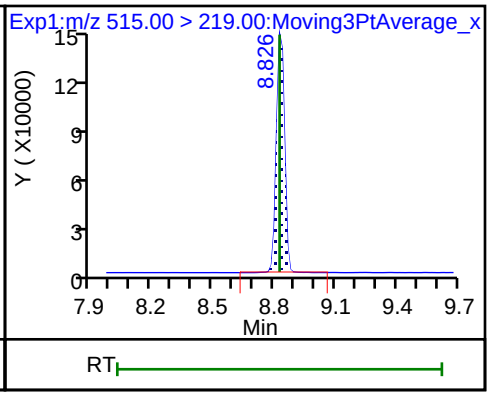
74 PFDoS



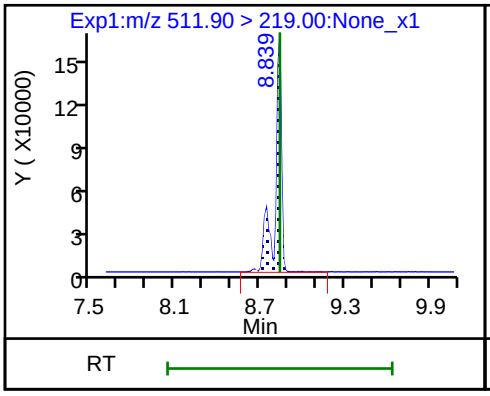
74 PFDoS



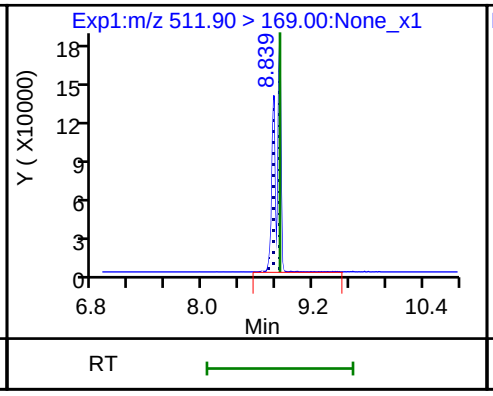
D 75 d3-NMePFOSA



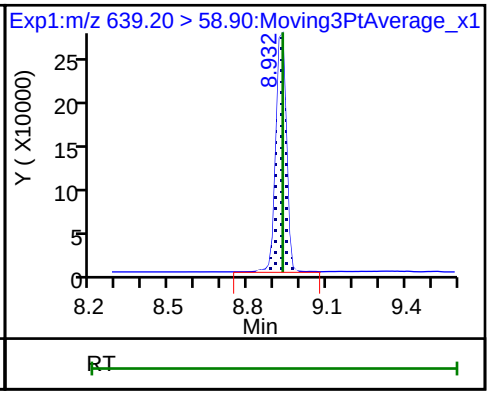
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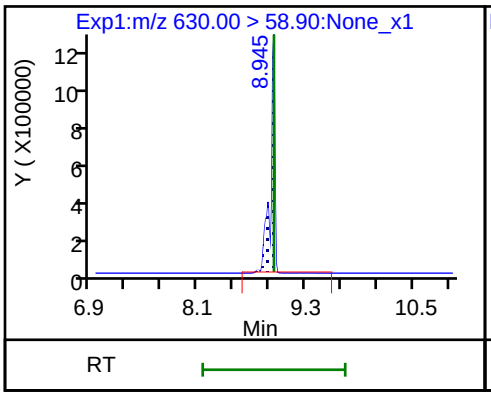
76 NMeFOSA



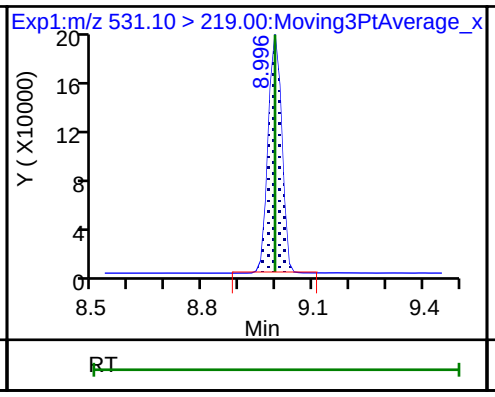
D 77 d9-N-EtFOSE



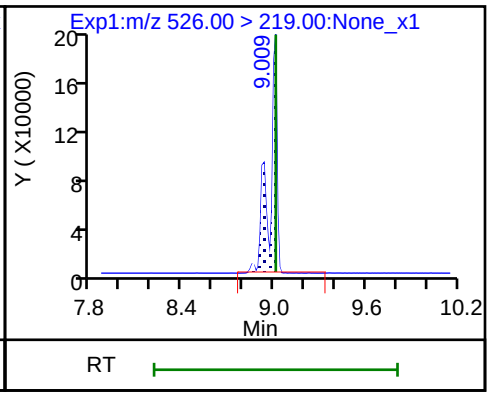
78 N-EtFOSE-M



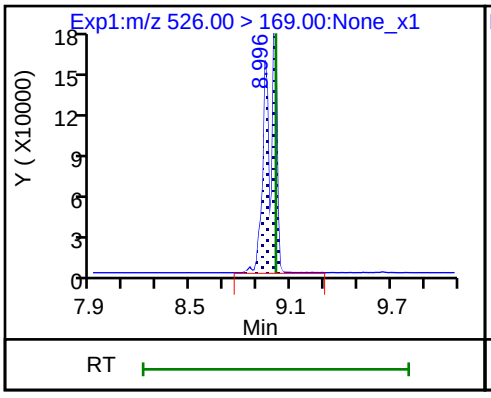
D 79 d5-NEtPFOSA



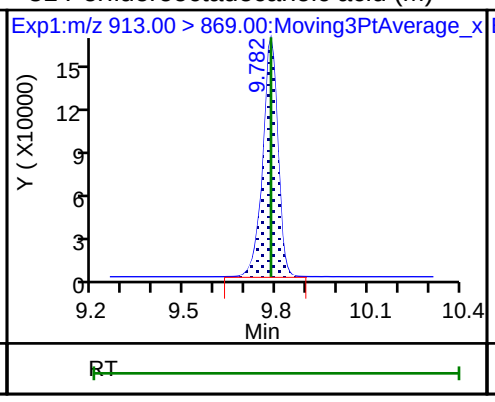
80 N-EtFOSA-M



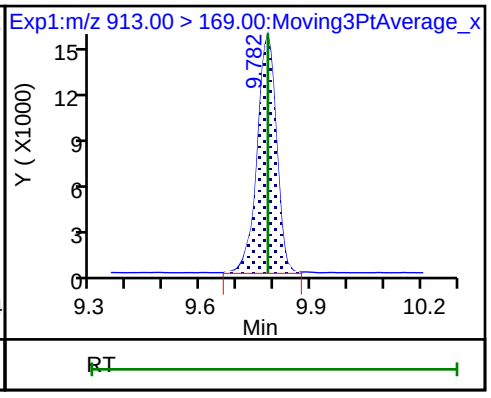
80 N-EtFOSA-M



81 Perfluorooctadecanoic acid (M)



81 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

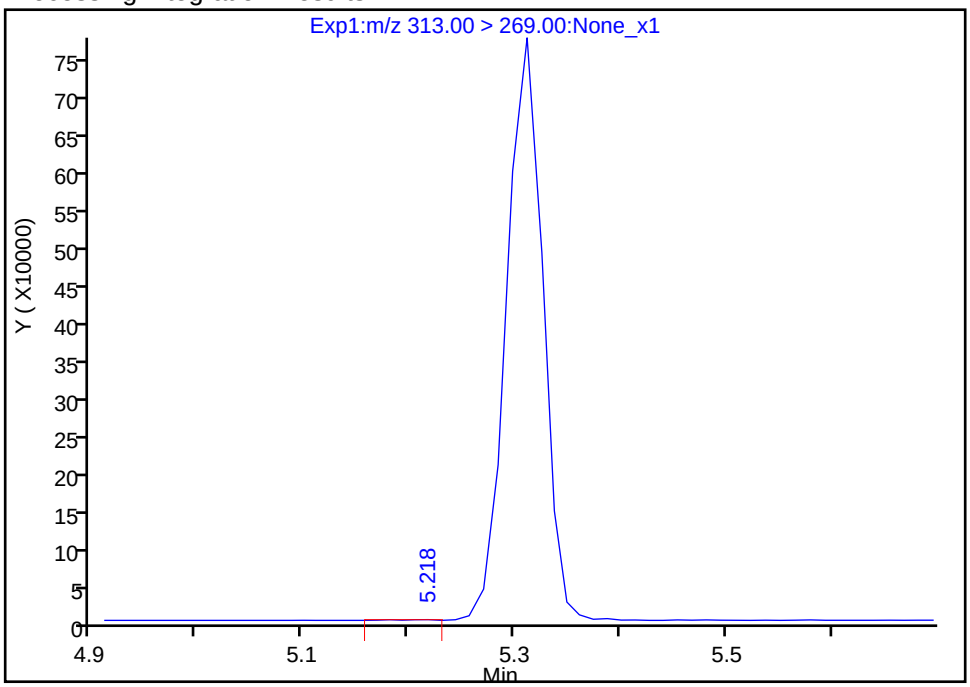
Data File:	\\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-05.d				
Injection Date:	29-Jan-2026 01:33:18	Instrument ID:	30576		
Lims ID:	ICISAV CAL 5				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	6	Worklist Smp#:	5
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

17 PFHxA, CAS: 307-24-4

Signal: 1

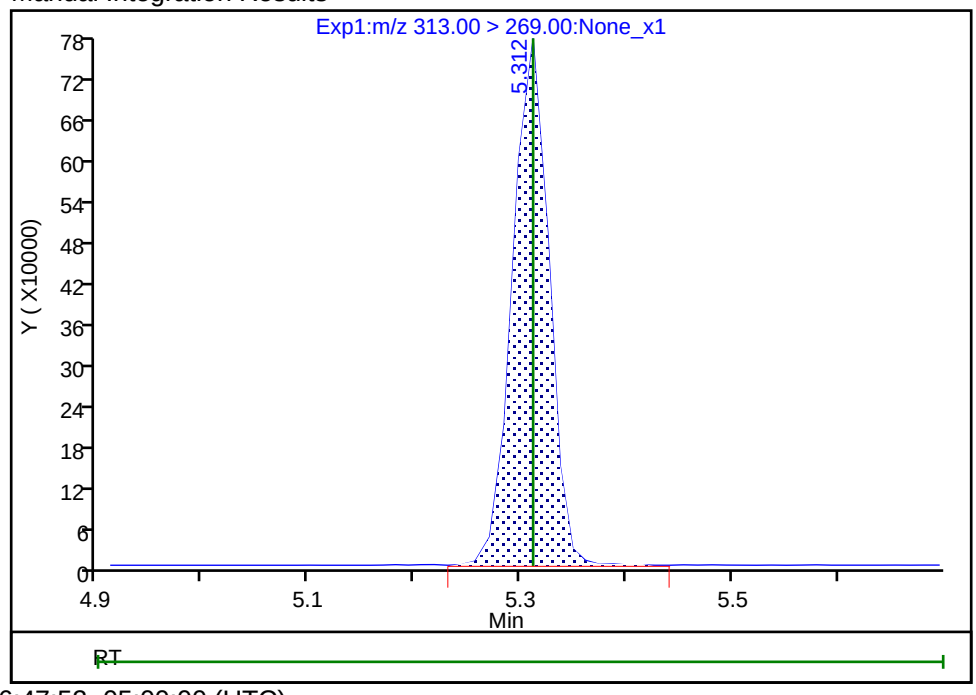
Processing Integration Results

RT: 5.22
Area: 2348
Amount: 0.006701
Amount Units: ng/ml



Manual Integration Results

RT: 5.31
Area: 1845510
Amount: 2.565996
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 06:47:52 -05:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

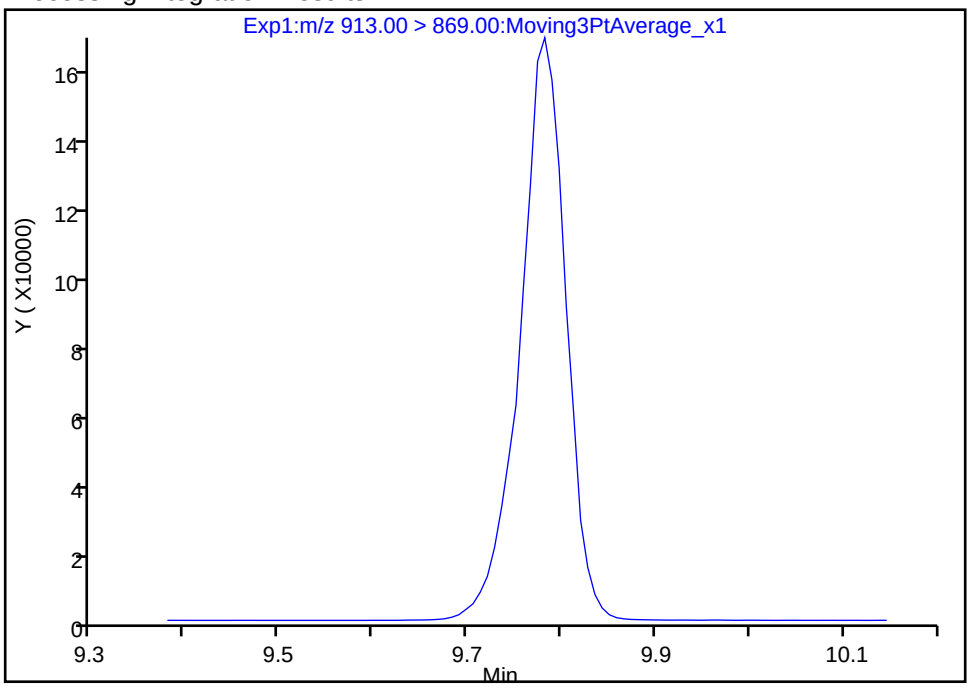
Data File:	\\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-05.d				
Injection Date:	29-Jan-2026 01:33:18	Instrument ID:	30576		
Lims ID:	ICISAV CAL 5				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	6	Worklist Smp#:	5
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

81 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

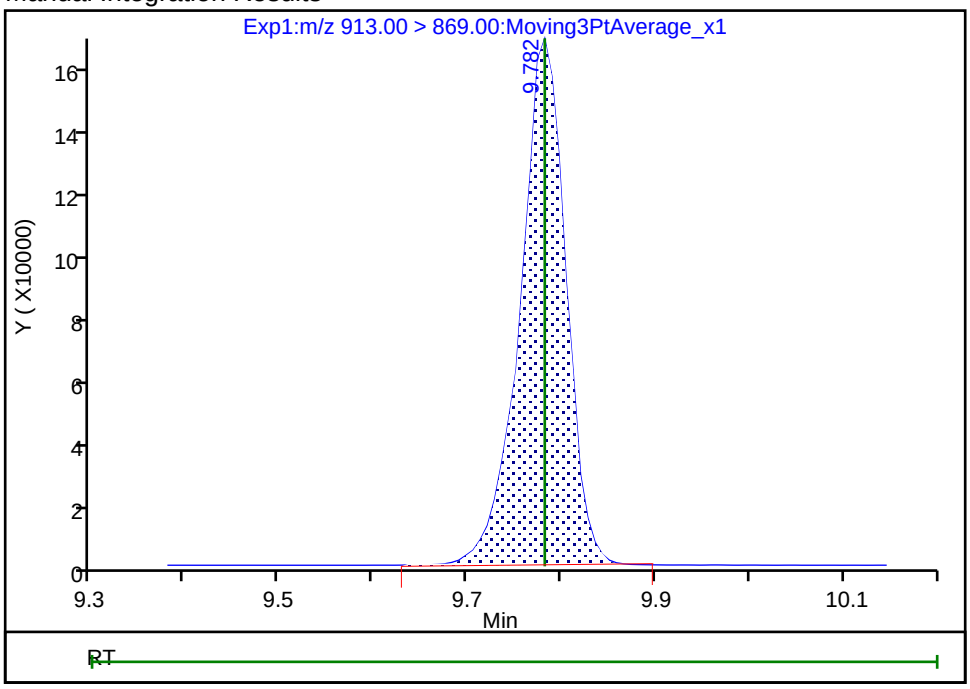
Not Detected
Expected RT: 9.78

Processing Integration Results



Manual Integration Results

RT: 9.78
Area: 568432
Amount: 2.038265
Amount Units: ng/ml



Reviewer: M4QQ, 29-Jan-2026 07:46:34 -05:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-06.d
Lims ID: IC CAL 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Jan-2026 01:46:54 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL6
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub14

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 12:08:10 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1631

First Level Reviewer: A4JU Date: 05-Feb-2026 09:23:43
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 13C3PFPrA										
166.00 > 121.00	2.017	2.008	0.009	0.481	1134754	1.99		99.5	474	
2 Perfluoropropionic acid										
163.00 > 119.00	2.041	2.033	0.008	1.012	12856045	24.8		99.1	45521	
3 PFBA										
212.80 > 168.90	4.180	4.179	0.001	0.998	6237591	10.0		100	65560	
D 4 13C4-PFBA										
216.80 > 171.90	4.188	4.187	0.001	1.000	1363428	1.98		99.1	6956	
* 5 13C3PFBA										
216.00 > 172.00	4.188	4.187	0.001		1316470	2.00			532	
6 PFMPA										
229.00 > 84.90	4.510	4.508	0.002	0.931	3485102	4.84		96.8	4438	
7 3:3 FTCA										
241.00 > 177.00	4.520	4.518	0.002	0.933	371628	9.50	Target=1.25	95.0	4168	
241.00 > 117.00	4.520	4.518	0.002	0.933	308953		1.20(0.63-1.88)	95.0	1205	
D 8 13C5 PFPeA										
268.30 > 223.00	4.843	4.842	0.001	0.911	862503	1.96		98.0	5282	
9 PFPA										
263.00 > 219.00	4.852	4.850	0.002	1.002	4044528	5.05		101	5173	
10 PFMBA										
279.00 > 85.10	5.000	4.999	0.001	1.033	4542062	4.96		99.2	10831	
D 12 13C2-4:2FTS										
329.10 > 80.90	5.126	5.123	0.003	0.800	552013	4.90		105	2892	
13 4:2FTS										
327.10 > 307.00	5.126	5.123	0.003	1.000	1765425	9.01	Target=1.50	96.1	16798	
327.10 > 80.90	5.126	5.123	0.003	1.000	1144582		1.54(0.75-2.24)	96.1	2597	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.273	5.271	0.002	0.992	1466073	4.85	Target=1.42	97.0	8198	
295.00 > 84.90	5.273	5.271	0.002	0.992	1103335		1.33(0.71-2.13)	97.0	4870	
D 15 13C5 PFHxA										
318.00 > 273.00	5.315	5.312	0.003	1.000	1722730	1.99		99.6	8364	
* 16 13C2 PFHxA										
315.10 > 270.00	5.315	5.312	0.003		3782749	5.00			8378	
17 PFHxA										
313.00 > 269.00	5.315	5.312	0.003	1.000	3503664	4.71	Target=11.34	94.2	4870	
313.00 > 118.90	5.315	5.312	0.003	1.000	317450		11.04(5.67-17.02)	94.2	2398	
18 5:3 FTCA										
341.00 > 237.10	5.377	5.375	0.003	1.012	2385719	24.8	Target=0.84	99.3	3532	
341.00 > 217.00	5.377	5.375	0.003	1.012	2822100		0.85(0.42-1.26)	99.3	3402	
19 FBSA										
297.90 > 78.00	5.443	5.441	0.002	0.998	4393722	4.99		99.8	2439	
D 20 13C3 PFBS										
302.10 > 79.90	5.457	5.454	0.003	0.852	1557583	1.88		101	6646	
21 PFBS										
298.70 > 79.90	5.457	5.454	0.003	1.000	3957457	4.50	Target=3.25	101	8217	
298.70 > 98.80	5.457	5.454	0.003	1.000	1258873		3.14(1.62-4.87)	101	6309	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.497	5.495	0.002	1.034	1515599	2.03		101	3549	
23 HFPO-DA										
284.90 > 168.90	5.497	5.495	0.002	1.000	2812036	3.73	Target=2.31	99.3	3945	
284.90 > 184.90	5.497	5.495	0.002	1.000	1129503		2.49(1.15-3.46)	99.3	3280	
26 PFEESA										
314.80 > 134.90	5.712	5.697	0.015	1.075	10125699	4.47	Target=11.22	100	18541	
314.80 > 82.90	5.698	5.697	0.001	1.072	861452		11.75(5.61-16.83)	100	3102	
27 PFHpA										
363.10 > 319.00	5.741	5.740	0.001	1.000	3685995	5.12	Target=2.31	102	4299	
363.10 > 169.00	5.741	5.740	0.001	1.000	1498910		2.46(1.16-3.47)	102	6601	
D 28 13C4 PFHpA										
367.10 > 322.00	5.741	5.740	0.001	1.080	1711904	2.01		100	4617	
29 ADONA										
376.90 > 250.90	5.908	5.892	0.016	1.075	8132025	4.50	Target=1.98	95.2	21003	
376.90 > 84.80	5.908	5.892	0.016	1.075	4158163		1.96(0.99-2.97)	95.2	9109	
D 30 13C2-6:2FTS										
429.10 > 80.90	5.937	5.936	0.001	0.927	420122	4.53		95.2	1241	
31 6:2FTS										
427.10 > 407.00	5.937	5.936	0.001	1.000	1462539	10.0	Target=1.40	105	1342	
427.10 > 80.90	5.937	5.936	0.001	1.000	939275		1.56(0.70-2.10)	105	2281	
32 PFPeS										
349.10 > 79.90	5.952	5.951	0.001	0.929	4035713	4.66	Target=3.31	99.2	14287	
349.10 > 98.90	5.952	5.951	0.001	0.929	1109339		3.64(1.65-4.96)	99.2	3317	
33 BTS										
280.00 > 147.00	6.122	6.121	0.001	0.956	9586505	4.74		96.8	12250	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 PFOA										
413.00 > 369.00	6.161	6.160	0.001	1.000	3370023	4.93	Target=1.89	98.7	3114	
413.00 > 169.00	6.161	6.160	0.001	1.000	1728880		1.95(0.95-2.84)	98.7	2455	
D 35 13C8 PFOA										
421.10 > 376.00	6.161	6.160	0.001	1.000	2146334	2.02		101	6983	
* 36 13C4 PFOA										
417.10 > 372.00	6.161	6.160	0.001		5315782	5.00			13278	
37 7:3 FTCA										
441.00 > 316.90	6.212	6.212	0.0	1.169	1247102	25.2	Target=0.34	101	2041	
441.00 > 336.90	6.212	6.212	0.0	1.169	3744786		0.33(0.17-0.50)	101	3611	
* 40 18O2 PFHxS										
403.00 > 83.90	6.404	6.404	0.0		1399259	1.90			5689	
D 38 13C3 PFHxS										
402.10 > 79.90	6.404	6.404	0.0	1.000	1475511	1.95		103	7405	
39 PFHxS										
398.70 > 79.90	6.404	6.404	0.0	1.000	2948995	4.39	Target=3.47	96.3	5473	
398.70 > 98.90	6.404	6.404	0.0	1.000	821226		3.59(1.73-5.20)	96.3	1131	
D 41 13C9 PFNA										
472.10 > 427.00	6.582	6.568	0.014	1.000	1702638	1.93		96.6	4001	
42 PFNA										
463.00 > 419.00	6.582	6.568	0.014	1.000	3897699	4.73	Target=2.73	94.7	3254	
463.00 > 219.00	6.582	6.568	0.014	1.000	1496080		2.61(1.37-4.09)	94.7	1472	
* 43 13C5 PFNA										
468.00 > 423.00	6.582	6.581	0.001		1882635	2.00			7145	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.771	6.758	0.013	1.057	430372	4.87		101	2032	
45 8:2FTS										
527.10 > 507.00	6.771	6.770	0.001	1.000	1146474	9.59	Target=1.55	99.9	6935	
527.10 > 80.80	6.771	6.770	0.001	1.000	781164		1.47(0.78-2.33)	99.9	3214	
46 PFECHS										
461.00 > 381.00	6.808	6.808	0.0	1.063	1103653	4.71	Target=0.25	102	676	
461.00 > 99.00	6.820	6.808	0.012	1.065	4217200		0.26(0.13-0.38)	102	2347	
47 FHxSA										
397.90 > 78.00	6.833	6.832	0.001	1.067	5495752	5.10		102	3425	
48 PFHpS										
449.00 > 79.90	6.845	6.845	0.0	0.939	3919738	4.77	Target=4.28	100.0	10869	
449.00 > 98.80	6.845	6.845	0.0	0.939	932963		4.20(2.14-6.42)	100.0	5605	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.929	6.929	0.0	0.950	953632	5.11		102	1157	
50 NMeFOSAA										
570.10 > 419.00	6.929	6.929	0.0	1.000	1012803	4.59	Target=1.90	91.8	791	
570.10 > 483.00	6.929	6.929	0.0	1.000	556058		1.82(0.95-2.85)	91.8	1037	
* 51 13C2 PFDA										
515.10 > 470.10	7.011	7.000	0.011		1778077	2.00			4679	
D 52 13C6 PFDA										
519.10 > 474.10	7.000	7.000	0.0	0.998	1539793	1.71		85.7	5678	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
53 PFDA										
512.90 > 469.00	7.000	7.000	0.0	1.000	2545626	5.15	Target=3.34	103	4233	
512.90 > 219.00	7.000	7.000	0.0	1.000	807959		3.15(1.67-5.01)	103	1989	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.111	7.111	0.0	0.975	824452	5.11		102	1596	
55 NEtFOSAA										
584.20 > 419.10	7.124	7.111	0.013	1.002	663504	5.04	Target=1.51	101	818	
584.20 > 526.00	7.124	7.111	0.013	1.002	421526		1.57(0.75-2.26)	101	755	
D 56 13C8 PFOS										
507.10 > 79.90	7.291	7.291	0.0	1.000	1245347	1.95		102	420	
* 57 13C4 PFOS										
502.80 > 79.90	7.291	7.291	0.0		1202587	1.92			6412	
58 PFOS										
498.90 > 79.90	7.291	7.291	0.0	1.000	4062838	4.42	Target=4.89	95.0	4937	
498.90 > 98.80	7.291	7.291	0.0	1.000	819889		4.96(2.45-7.34)	95.0	2071	
D 59 13C7 PFUnA										
570.00 > 525.10	7.435	7.435	0.0	1.060	1728873	1.93		96.5	4018	
60 PFUnA										
563.10 > 519.00	7.435	7.435	0.0	1.000	1989618	4.95	Target=3.26	99.1	6511	
563.10 > 269.10	7.435	7.435	0.0	1.000	593476		3.35(1.63-4.88)	99.1	4022	
61 9ClFOS										
530.80 > 351.00	7.621	7.620	0.001	1.045	8183857	4.54	Target=3.01	97.1	26117	
532.80 > 353.00	7.621	7.620	0.001	1.045	2613920		3.13(1.51-4.52)	97.1	22625	
62 PFNS										
548.80 > 79.90	7.723	7.723	0.0	1.059	3227579	4.56	Target=4.32	94.9	5765	
548.80 > 98.80	7.723	7.723	0.0	1.059	722665		4.47(2.16-6.47)	94.9	5830	
63 PFDoA										
613.10 > 569.00	7.862	7.861	0.001	1.000	1926802	4.72	Target=3.42	94.3	6543	
613.10 > 319.00	7.862	7.861	0.001	1.000	614168		3.14(1.71-5.13)	94.3	3079	
D 64 13C2 PFDoA										
615.10 > 570.00	7.862	7.861	0.001	1.121	1171375	1.85		92.7	5608	
D 65 13C8 FOSA										
506.10 > 77.80	7.958	7.958	0.0	1.091	1441266	2.02		101	6051	
66 PFOSA										
498.10 > 77.90	7.971	7.971	0.0	1.002	3636510	4.83	Target=43.97	96.5	4239	
498.10 > 478.00	7.971	7.971	0.0	1.002	78564		46.29(21.98-65.95)	96.5	184	
67 PFDS										
599.00 > 79.90	8.118	8.118	0.0	1.113	3473356	4.63	Target=4.28	96.1	9174	
599.00 > 98.80	8.118	8.118	0.0	1.113	768598		4.52(2.14-6.41)	96.1	2302	
68 PFTrDA										
663.00 > 619.00	8.262	8.262	0.0	0.959	2374681	4.94	Target=4.49	98.7	5138	
663.00 > 168.90	8.262	8.262	0.0	0.959	523118		4.54(2.24-6.73)	98.7	3191	
69 11ClFOS										
630.90 > 450.90	8.425	8.425	0.0	1.156	4781232	4.83	Target=2.77	102	15993	
632.90 > 452.90	8.425	8.425	0.0	1.156	1634909		2.92(1.39-4.16)	102	7286	
70 PFTeDA										
713.10 > 168.90	8.616	8.616	0.0	1.000	351891	4.90	Target=0.89	98.0	2041	
713.10 > 219.00	8.616	8.616	0.0	1.000	388544		0.91(0.44-1.33)	98.0	865	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 71 13C2 PFTeDA										
715.20 > 670.00	8.616	8.616	0.0	1.229	965693	1.84		92.1	3583	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.744	8.744	0.0	1.199	587156	5.21		104	327	
73 N-MeFOSE-M										
616.10 > 58.90	8.758	8.758	0.0	1.002	5256904	23.4		93.6	3543	
74 PFDoS										
699.10 > 79.90	8.799	8.799	0.0	1.207	3176451	4.59	Target=4.86	94.7	17002	
699.10 > 98.80	8.799	8.799	0.0	1.207	648318		4.90(2.43-7.29)	94.7	4763	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.839	8.826	0.013	1.212	392397	1.94		97.2	3254	
76 NMeFOSA										
511.90 > 219.00	8.839	8.839	0.0	1.000	988448	5.06	Target=0.74	101	3868	
511.90 > 169.00	8.839	8.839	0.0	1.000	1325799		0.75(0.37-1.10)	101	2855	
D 77 d9-N-EtFOSE										
639.20 > 58.90	8.932	8.932	0.0	1.225	734193	4.91		98.1	666	
78 N-EtFOSE-M										
630.00 > 58.90	8.945	8.945	0.0	1.001	7797744	25.2		101	66186	
D 79 d5-NEtPFOSA										
531.10 > 219.00	8.996	8.996	0.0	1.234	493583	2.01		101	3595	
80 N-EtFOSA-M										
526.00 > 219.00	9.009	9.009	0.0	1.001	1201396	4.96	Target=0.84	99.3	5834	
526.00 > 169.00	9.009	9.009	0.0	1.001	1407240		0.85(0.42-1.25)	99.3	4022	
81 Perfluorooctadecanoic acid										
913.00 > 869.00	9.744	9.782	-0.038	1.131	2743351	9.40	Target=11.42	188	31040	
913.00 > 169.00	9.744	9.782	-0.038	1.131	228897		11.99(5.71-17.13)	188	6131	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL6_00037 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 12:08:11 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-06.d

Injection Date: 29-Jan-2026 01:46:54 Instrument ID: 30576

Lims ID: IC CAL 6

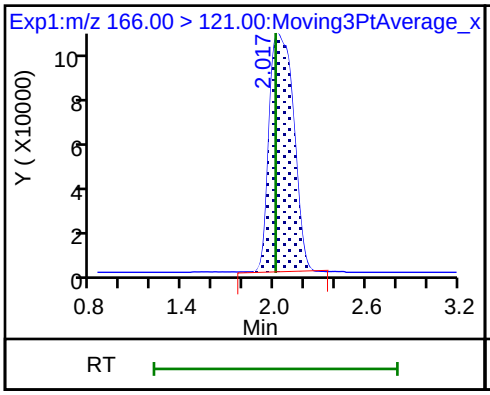
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 7 Worklist Smp#: 6

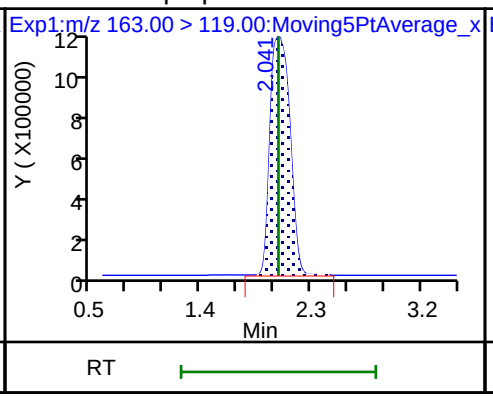
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

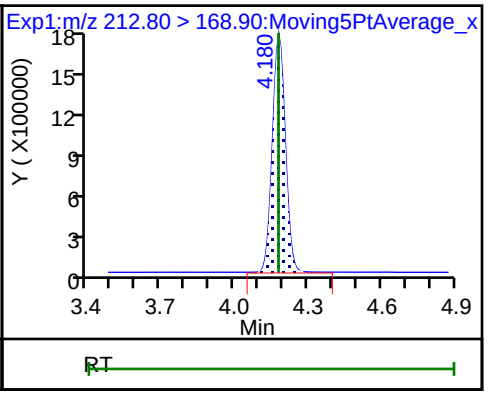
D 1 13C3PFPrA



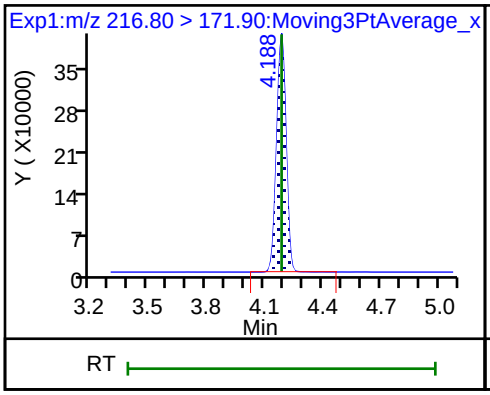
2 Perfluoropropionic acid



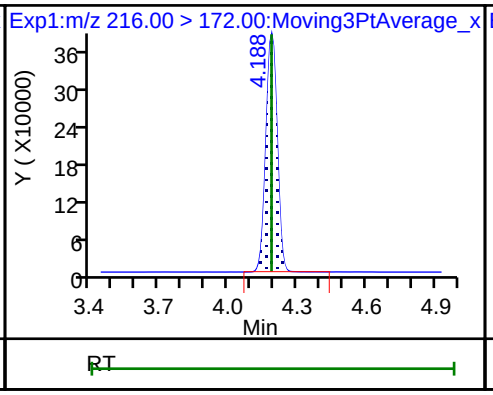
3 PFBA



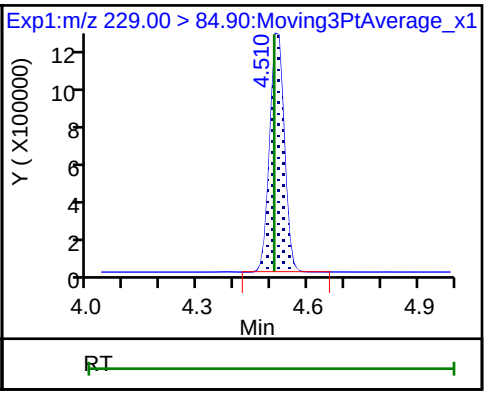
D 4 13C4-PFBA



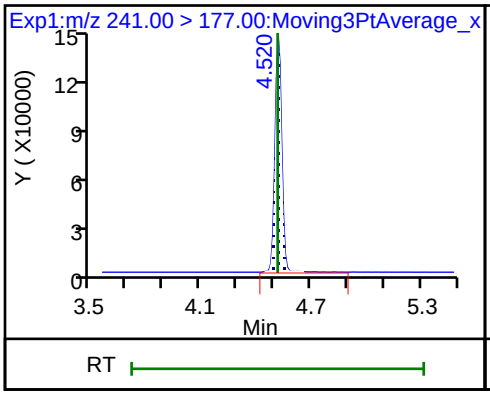
* 5 13C3PFBA



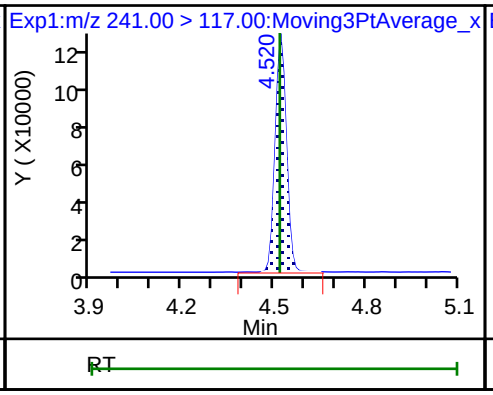
6 PFMPA



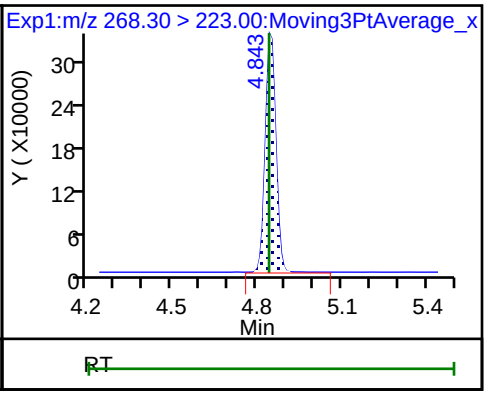
7 3:3 FTCA



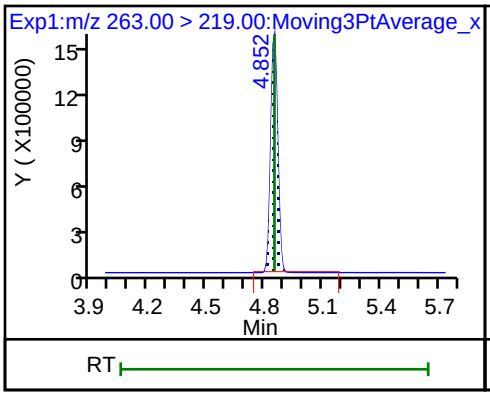
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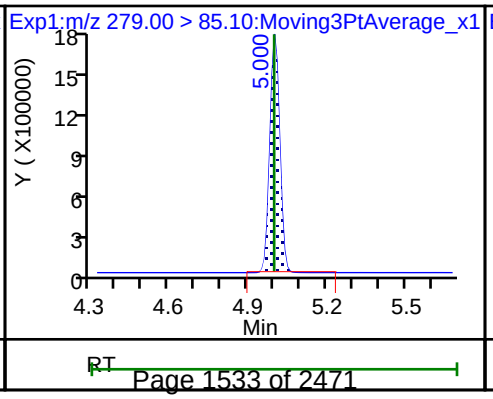
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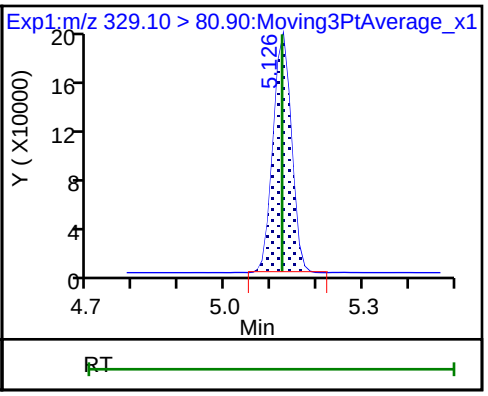
9 PFPA



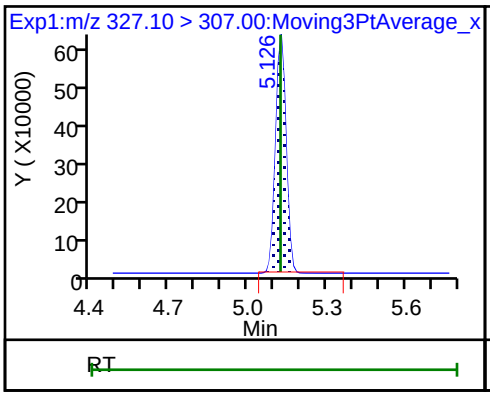
10 PFMBA



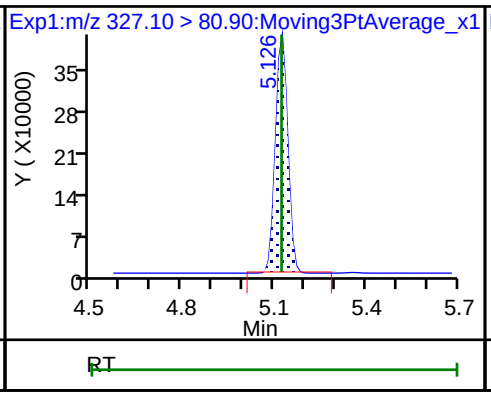
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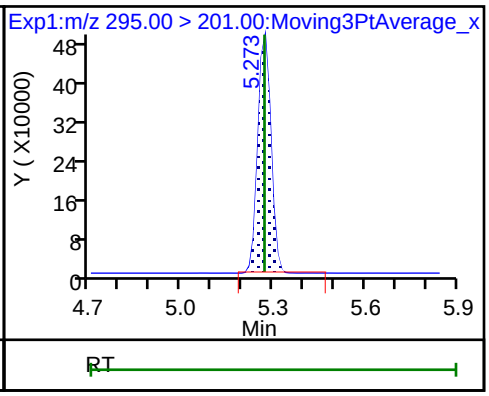
13 4:2FTS



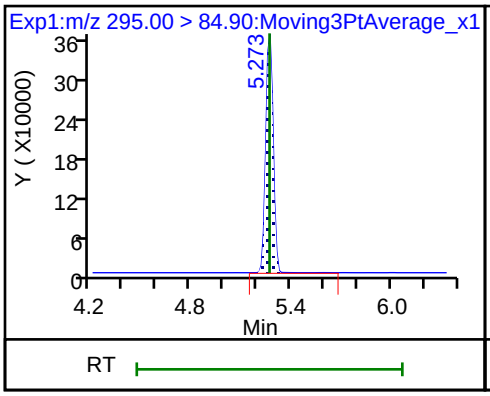
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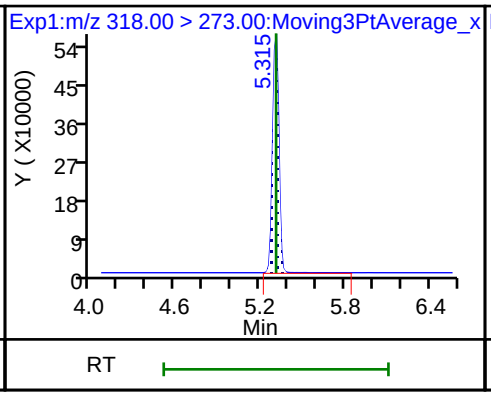
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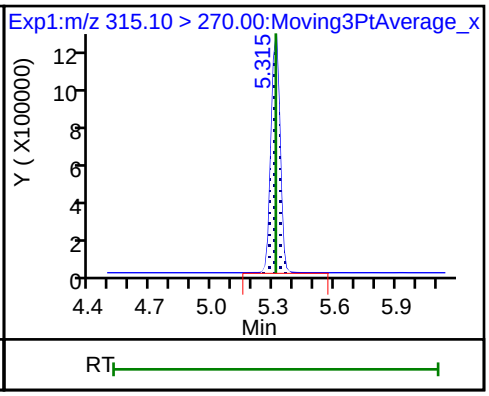
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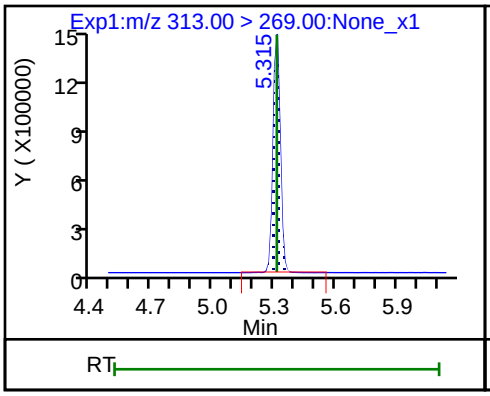
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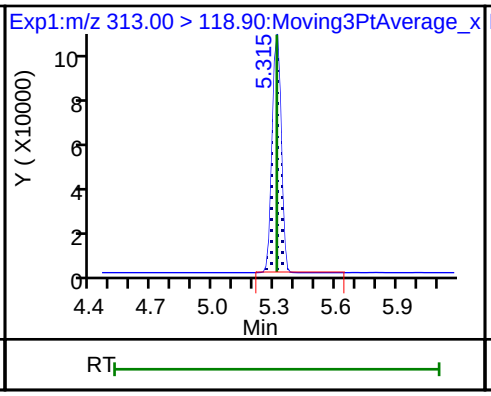
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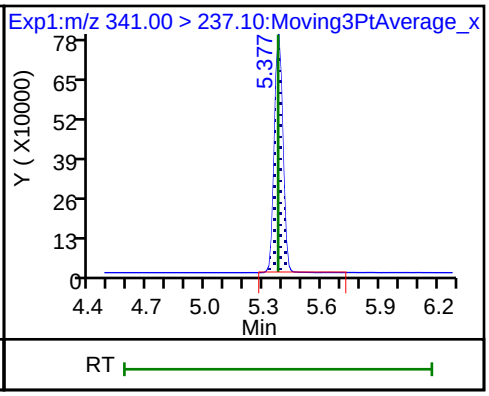
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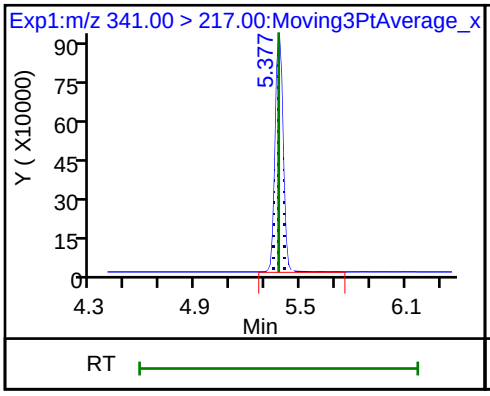
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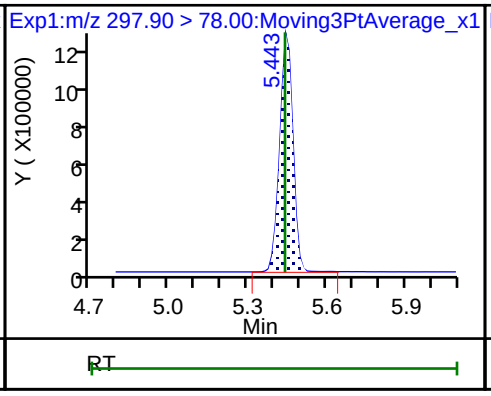
18 5:3 FTCA



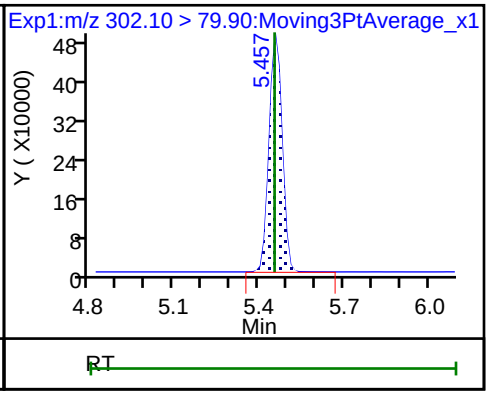
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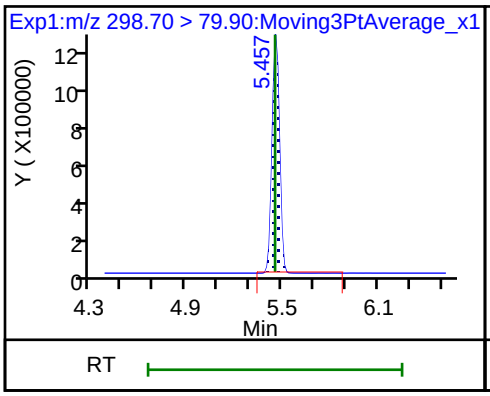
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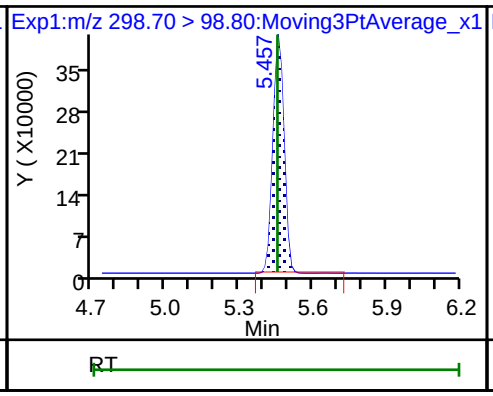
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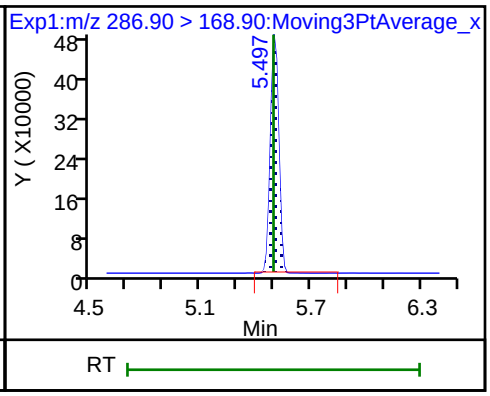
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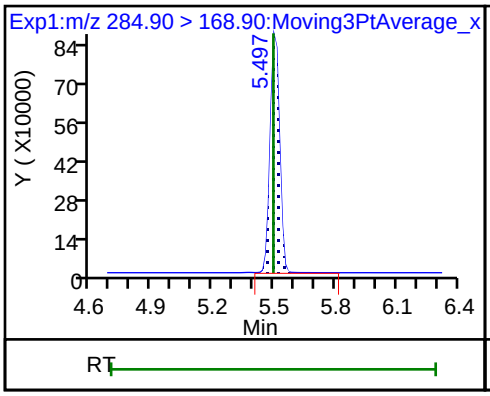
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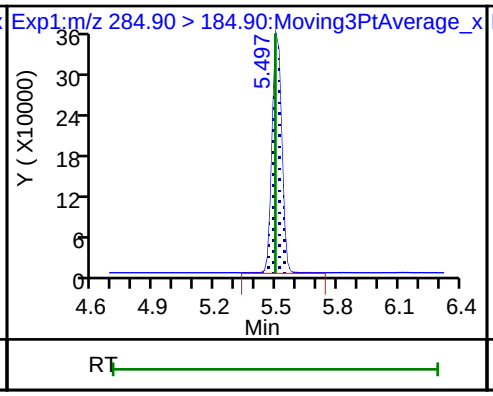
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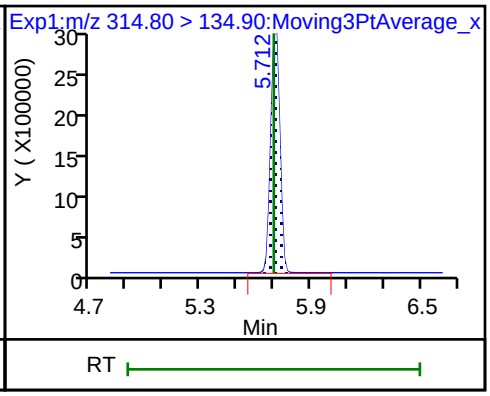
23 HFPO-DA



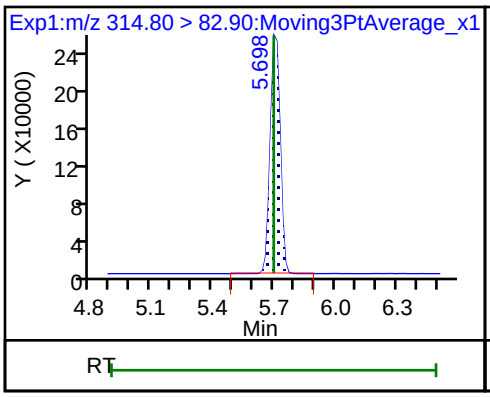
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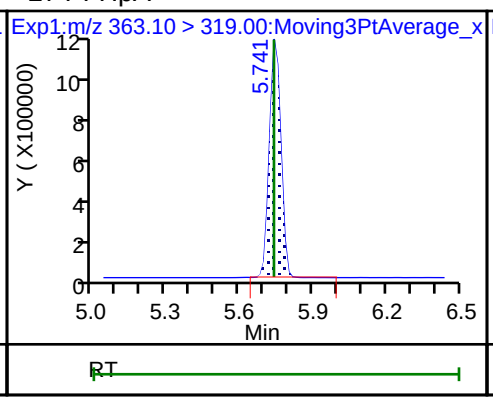
26 PFEESA



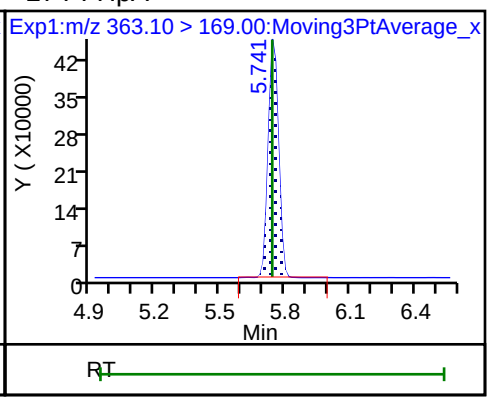
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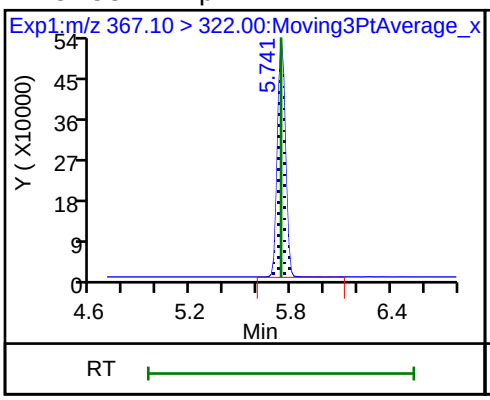
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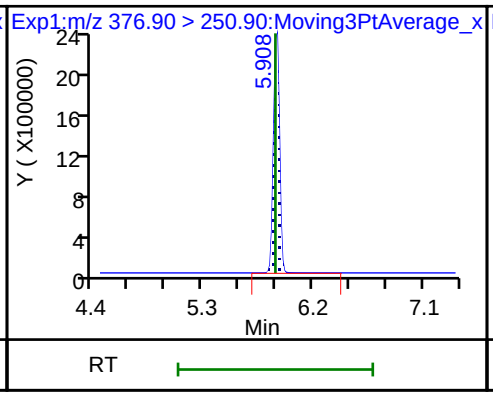
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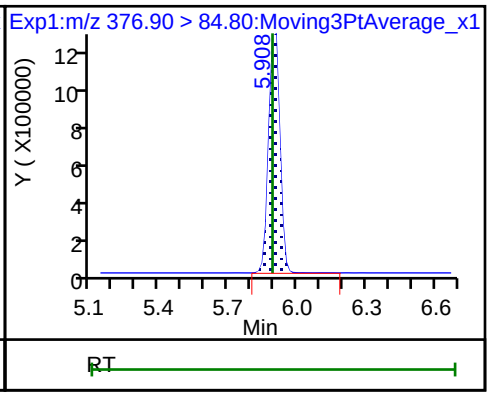
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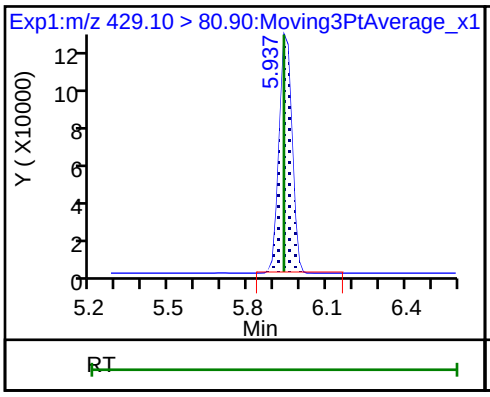
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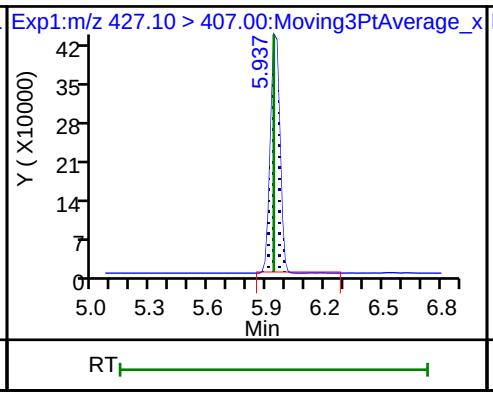
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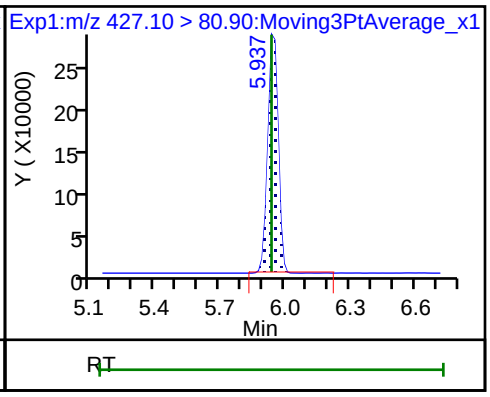
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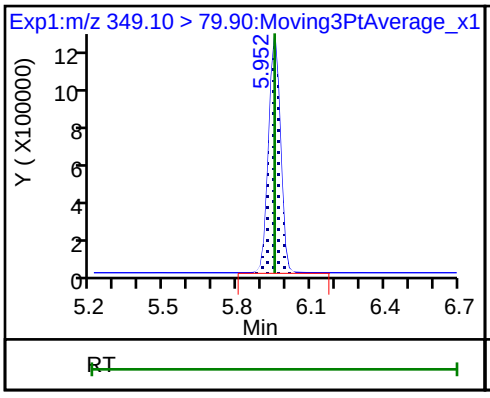
31 6:2FTS



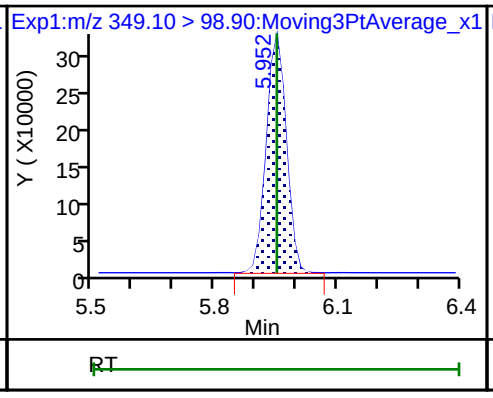
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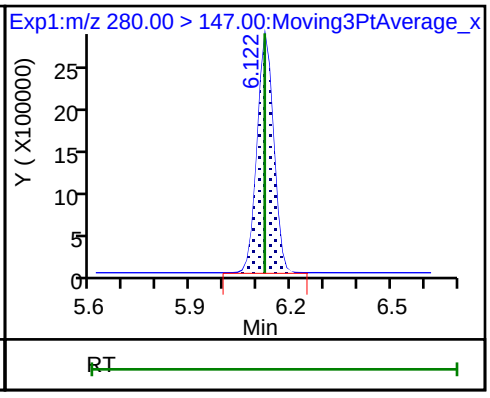
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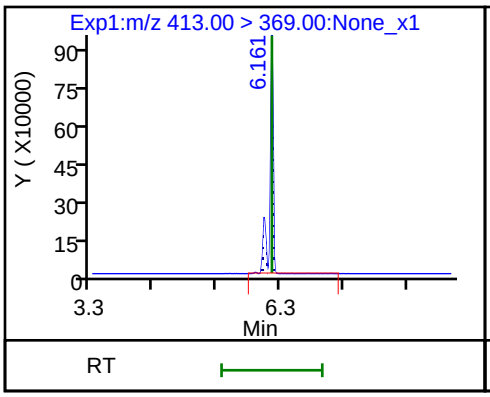
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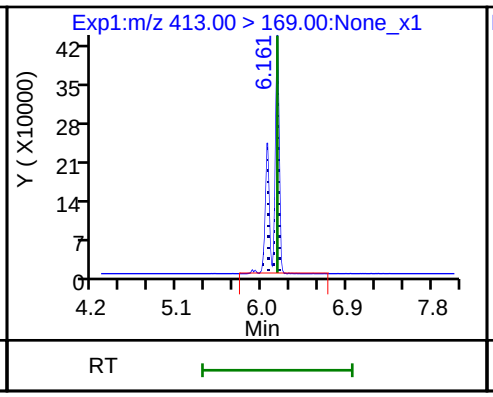
33 BTS



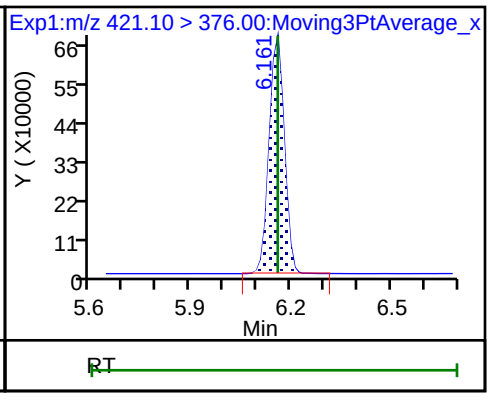
34 PFOA



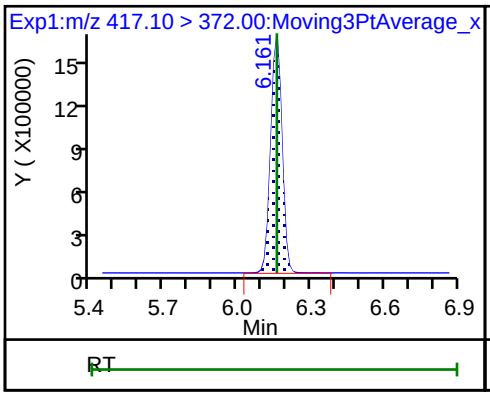
34 PFOA



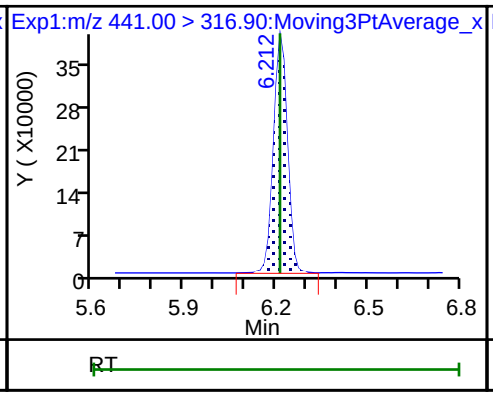
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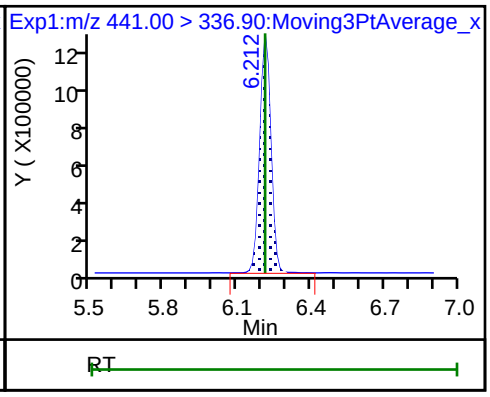
* 36 13C4 PFOA



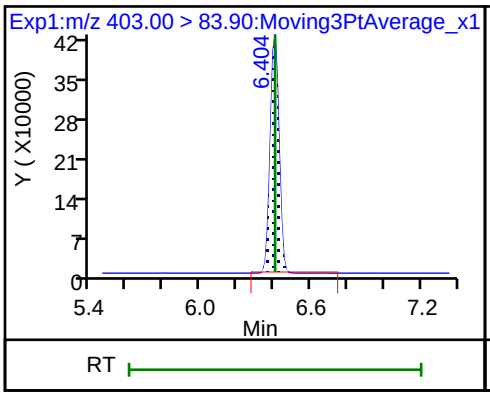
37 7:3 FTCA



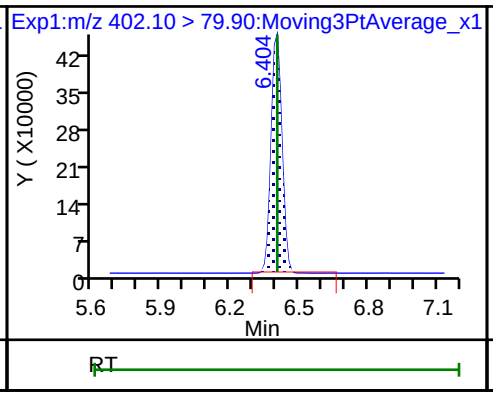
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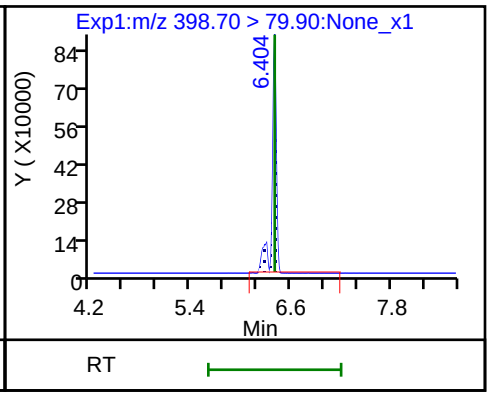
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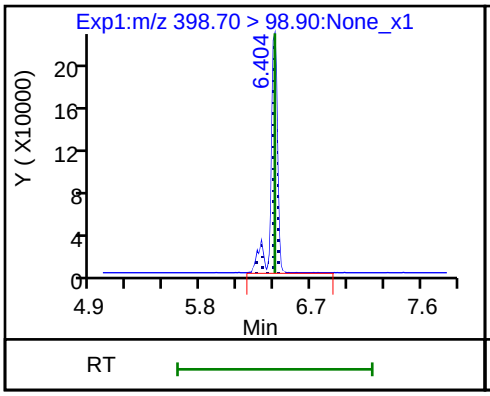
D 38 13C3 PFHxS



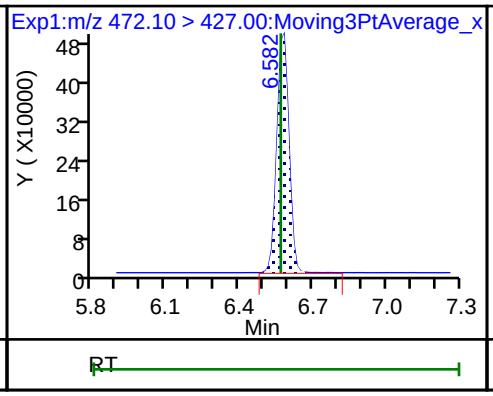
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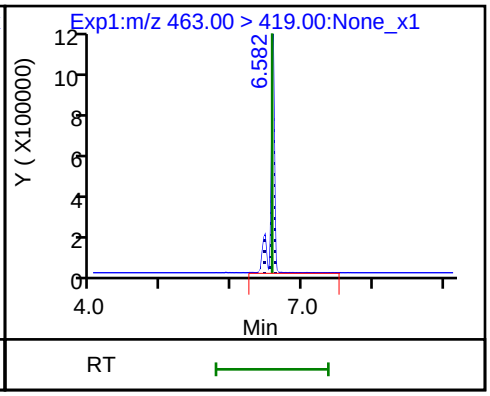
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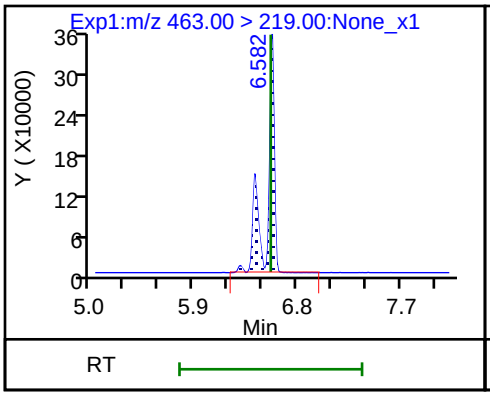
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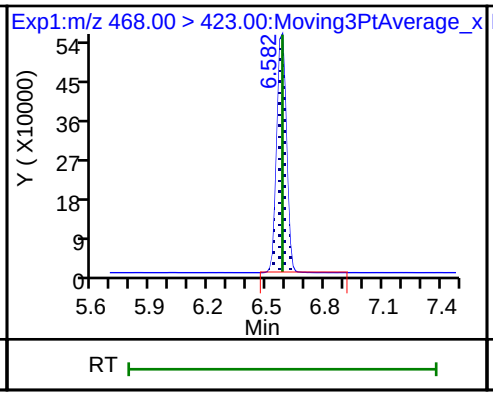
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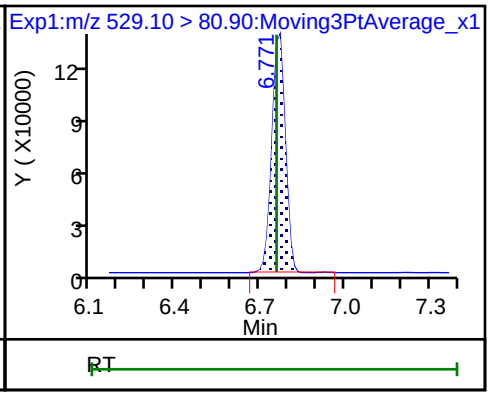
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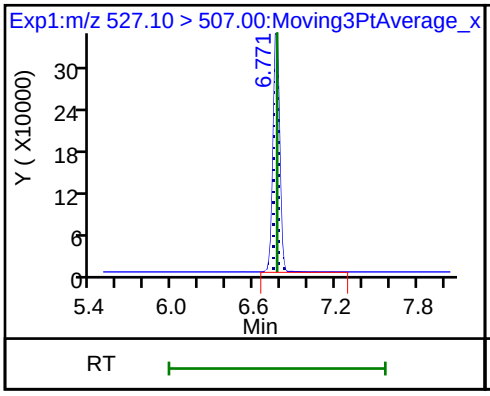
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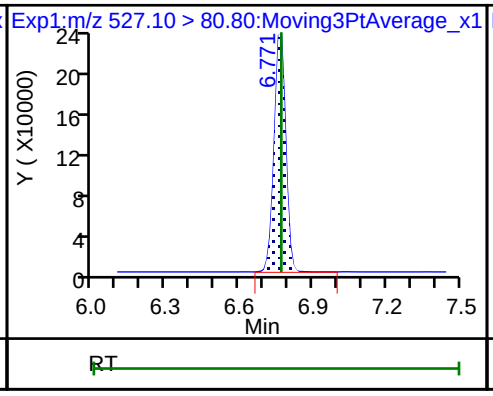
D 44 13C2-8:2FTS



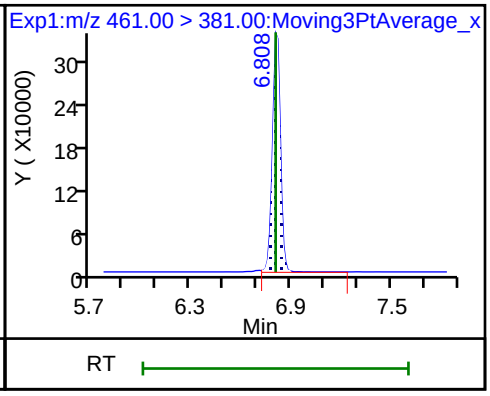
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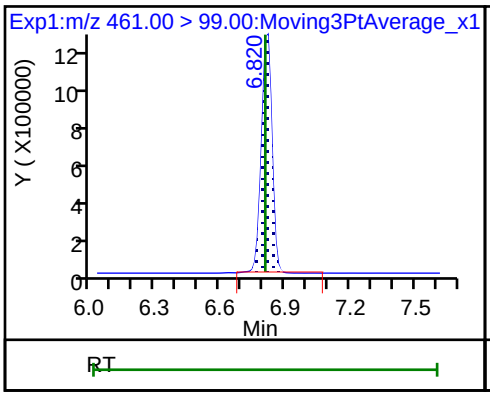
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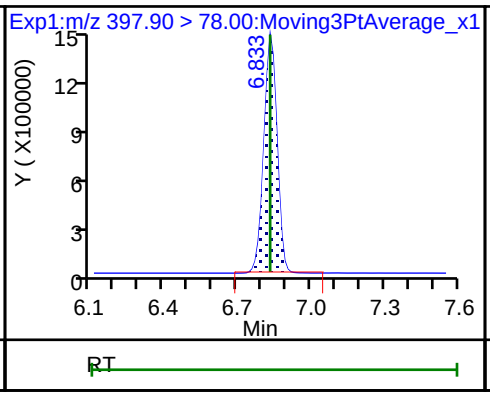
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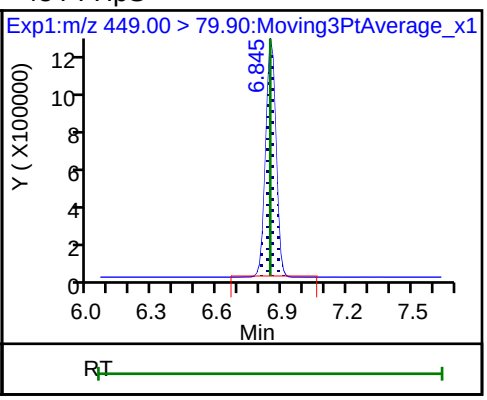
46 PFECHS



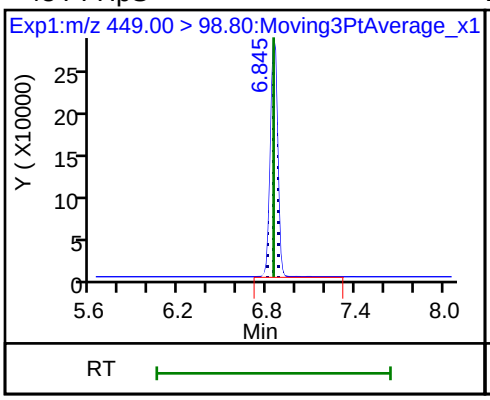
47 FHxSA



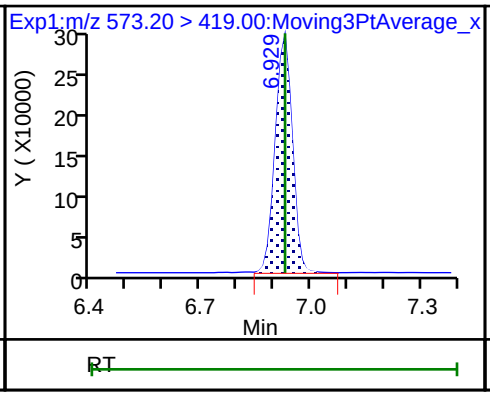
48 PFHpS



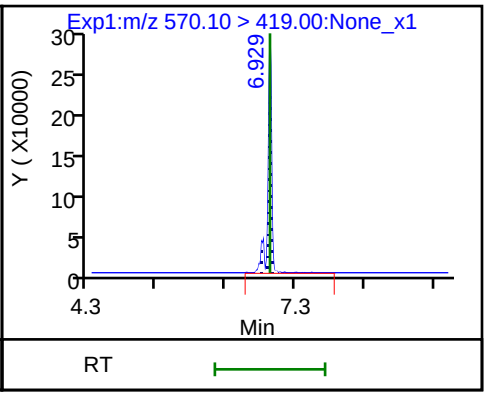
48 PFHpS



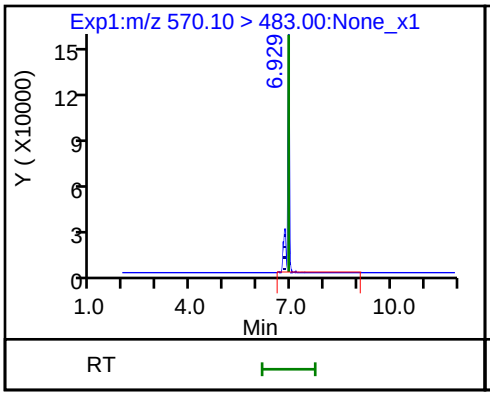
D 49 d3-NMeFOSAA



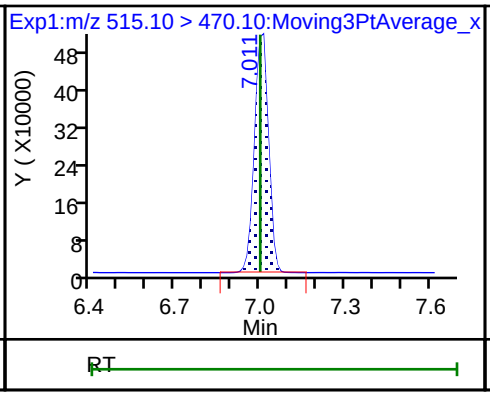
50 NMeFOSAA



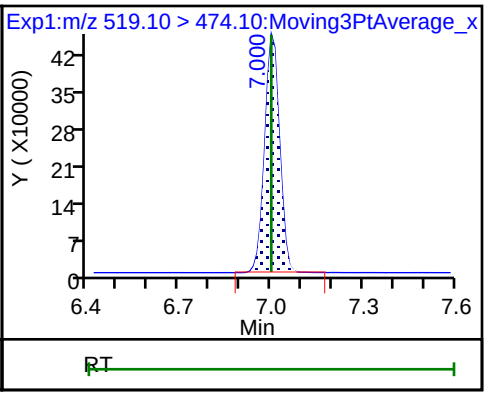
50 NMeFOSAA



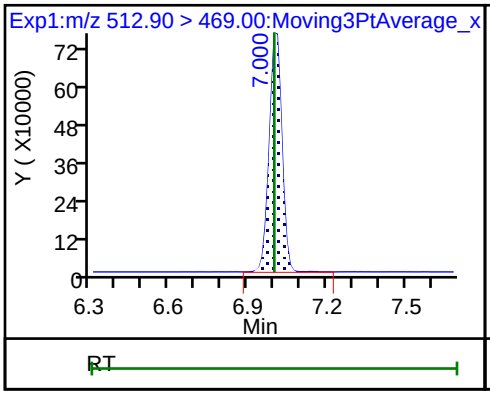
* 51 13C2 PFDA



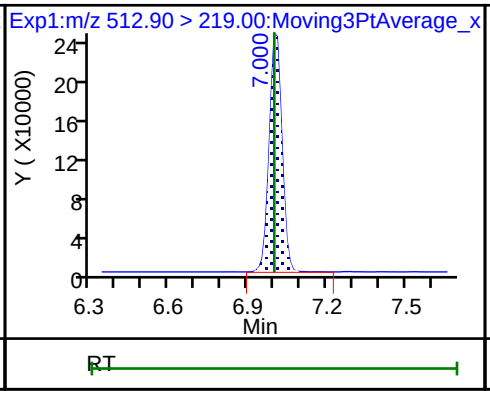
D 52 13C6 PFDA



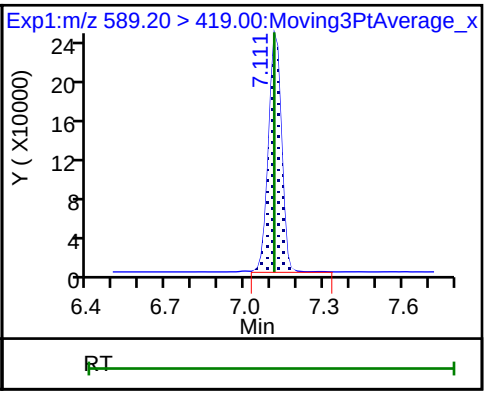
53 PFDA



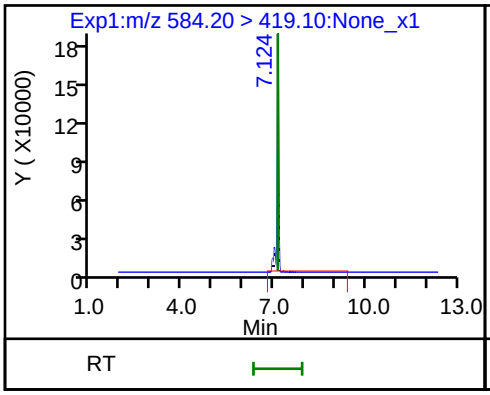
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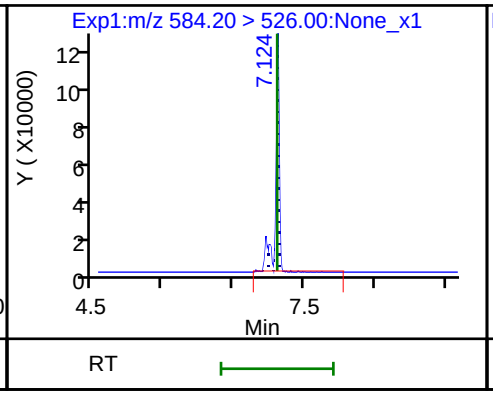
D 54 d5-NEtFOSAA



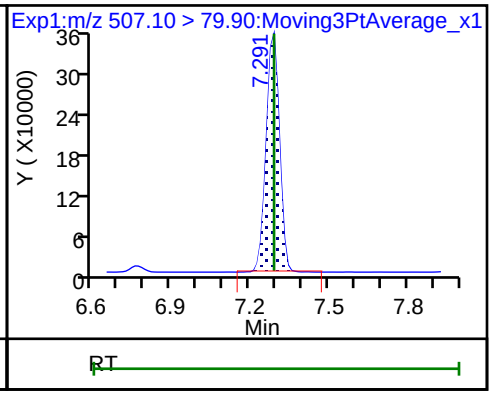
55 NEtFOSAA



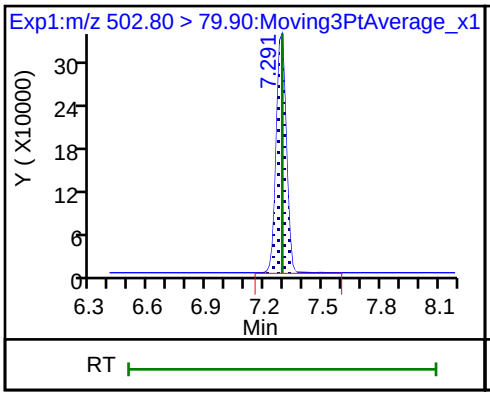
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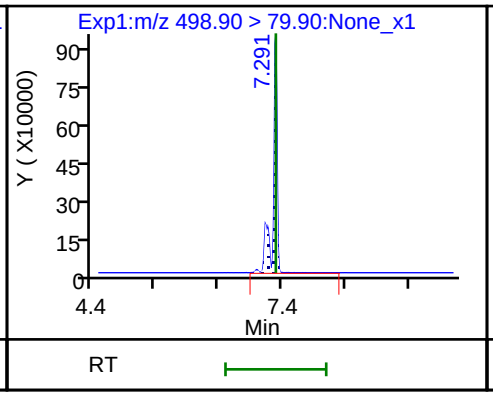
D 56 13C8 PFOS



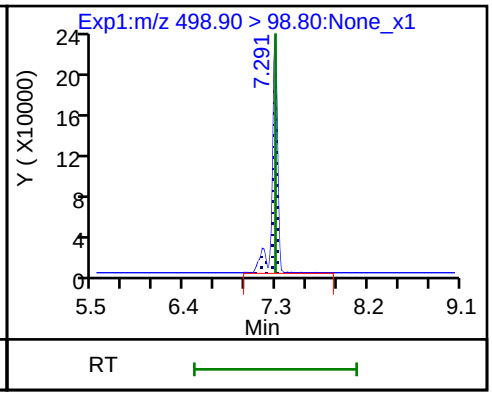
* 57 13C4 PFOS



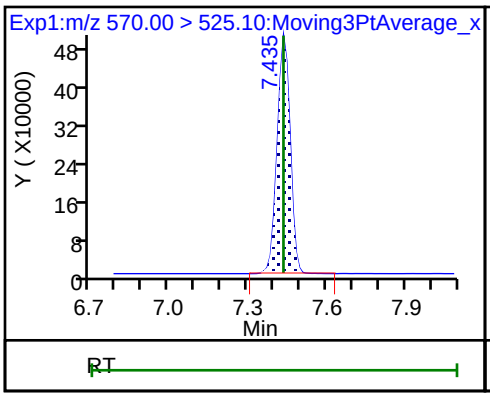
58 PFOS



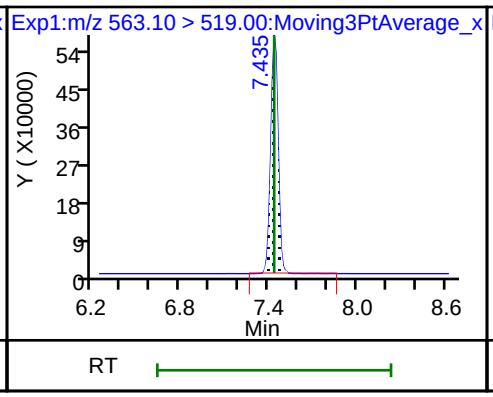
58 PFOS



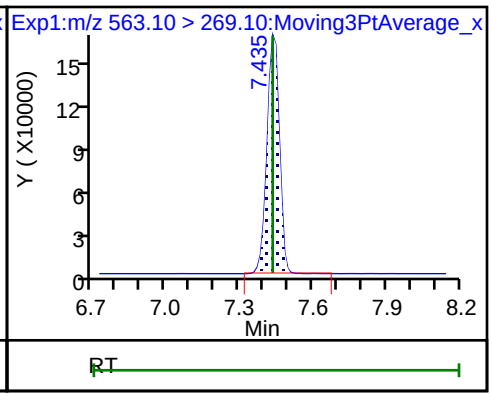
D 59 13C7 PFUnA



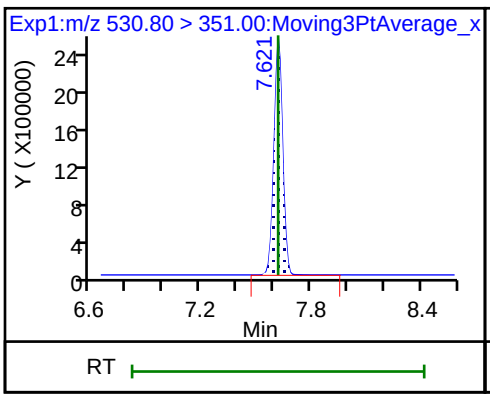
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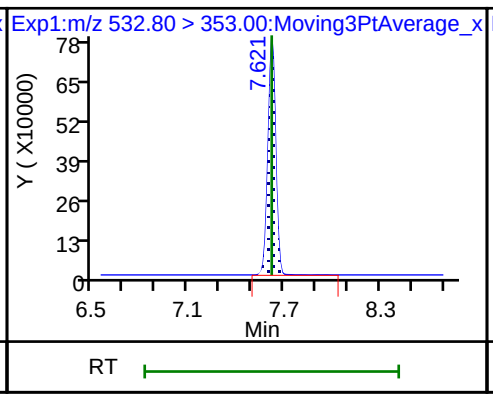
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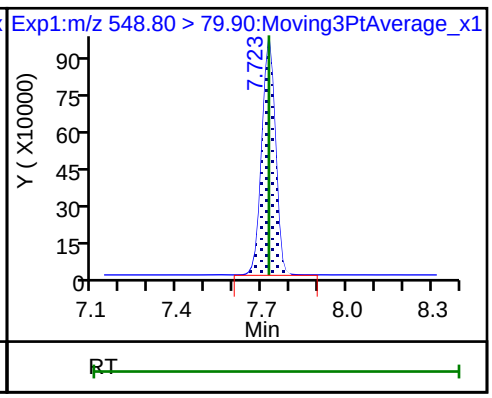
61 9ClFOS



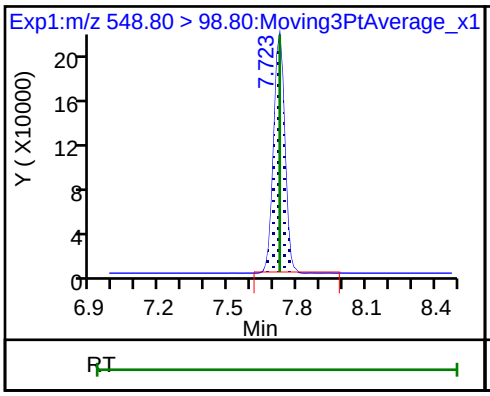
61 9ClFOS



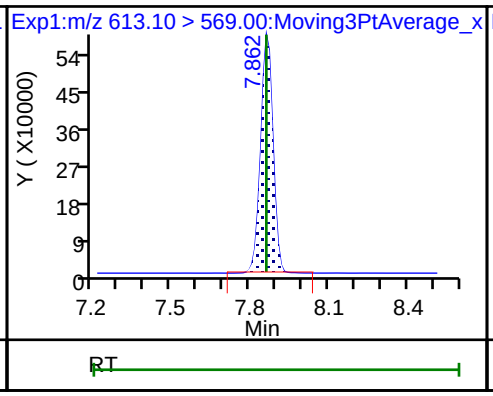
62 PFNS



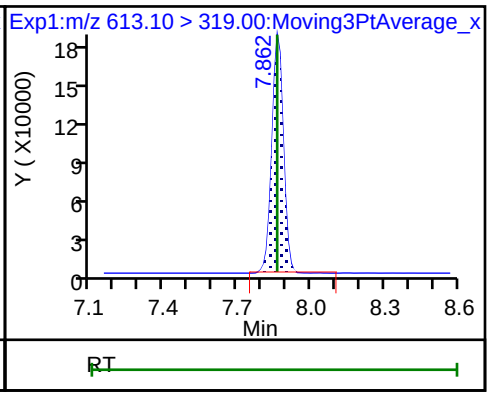
62 PFNS



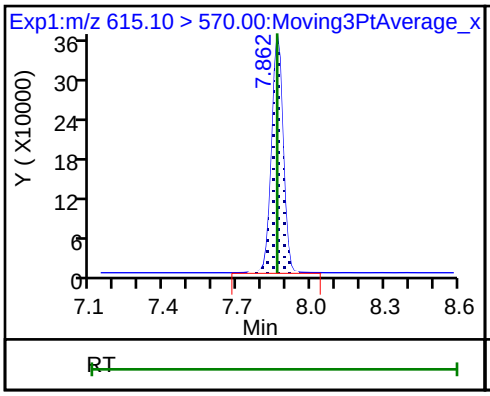
63 PFDoA



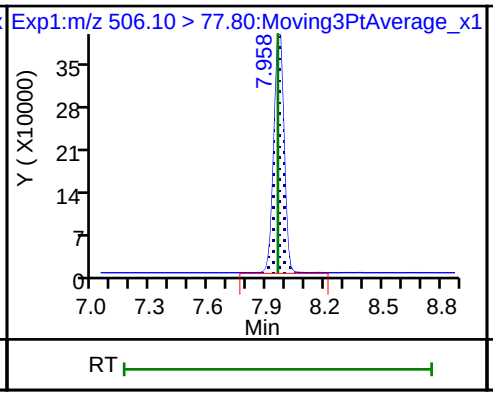
63 PFDoA



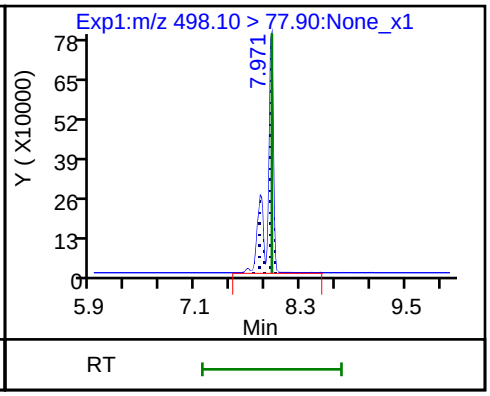
D 64 13C2 PFDoA



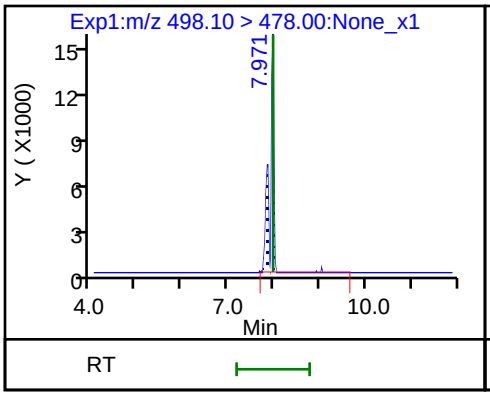
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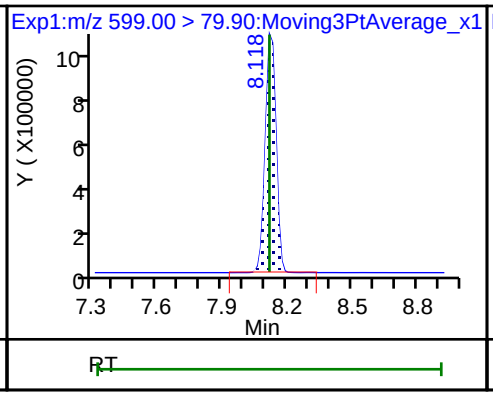
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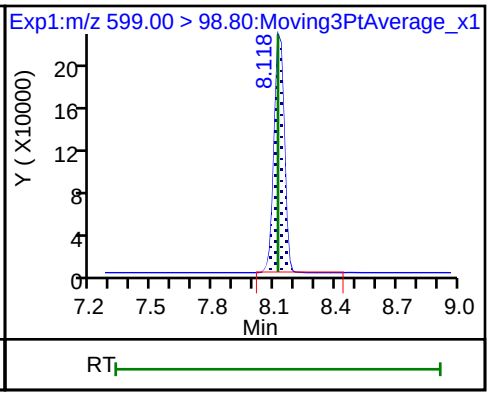
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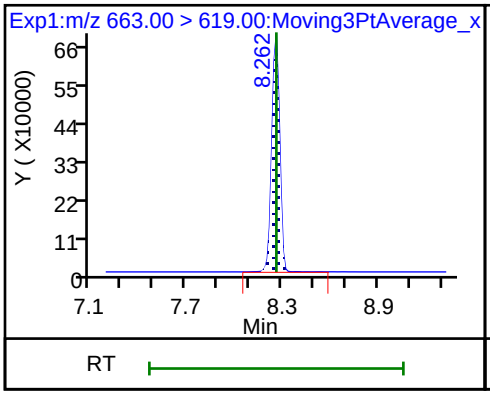
67 PFDS



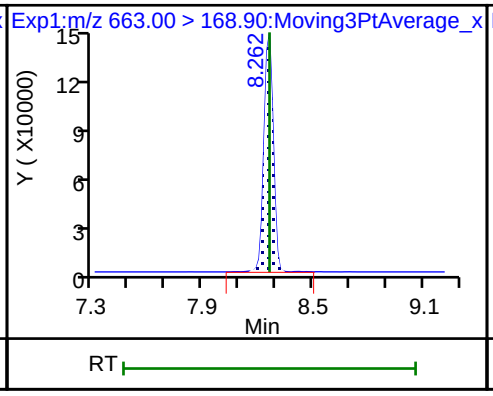
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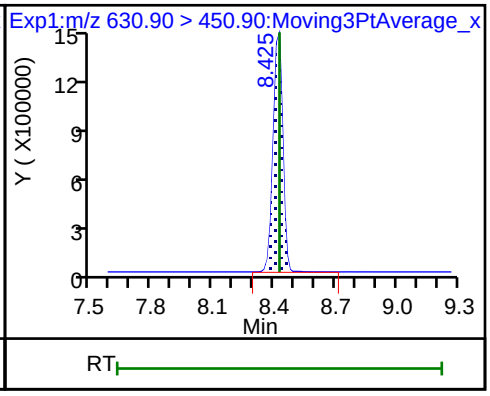
68 PFTrDA



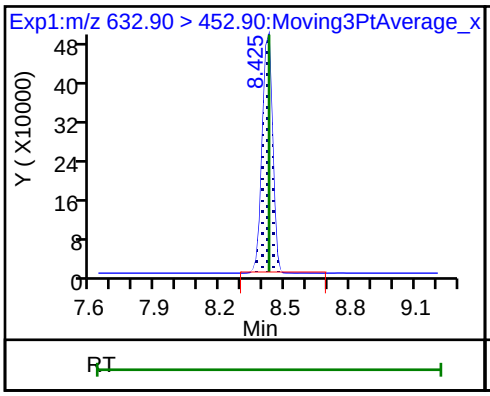
68 PFTrDA



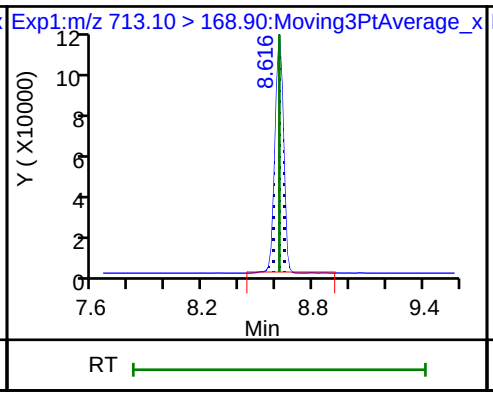
69 11ClFOS



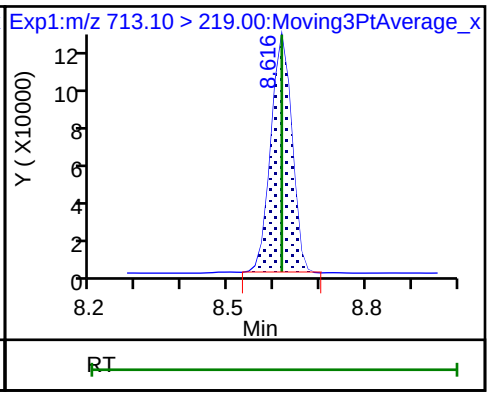
69 11ClFOS



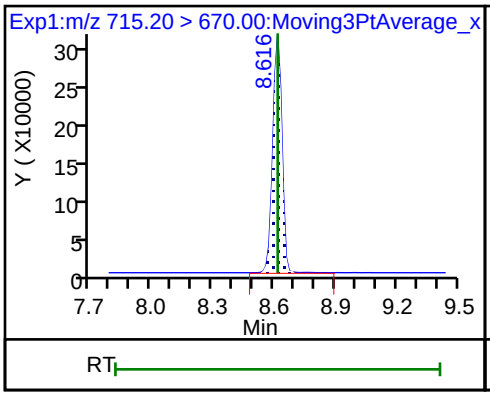
70 PFTeDA



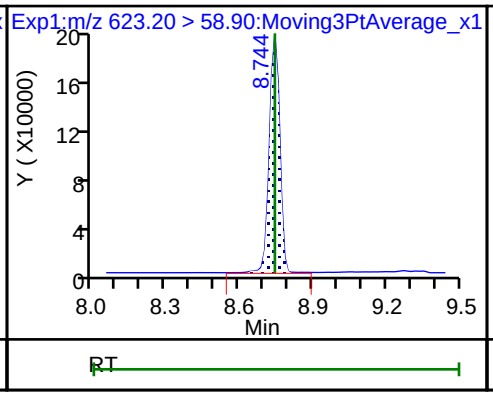
70 PFTeDA



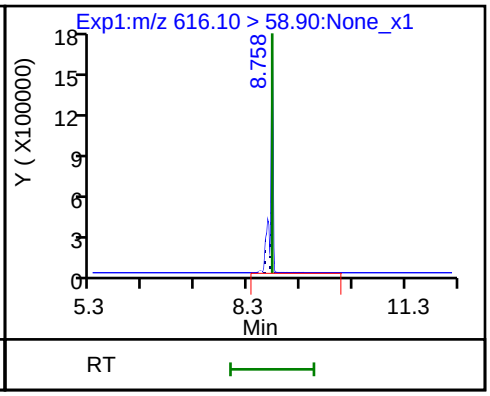
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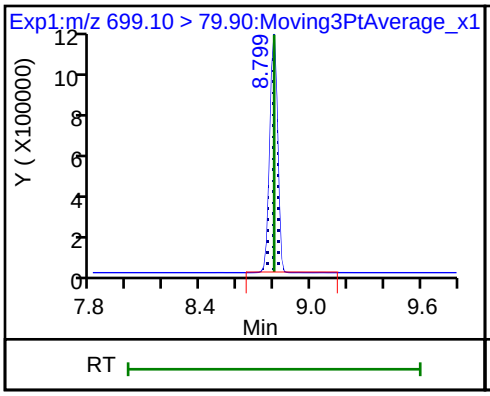
D 72 d7-N-Me-FOSE



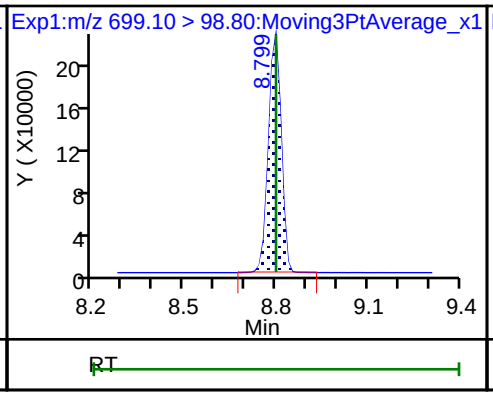
73 N-MeFOSE-M



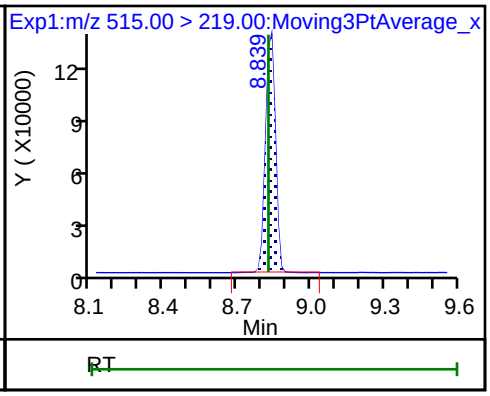
74 PFDoS



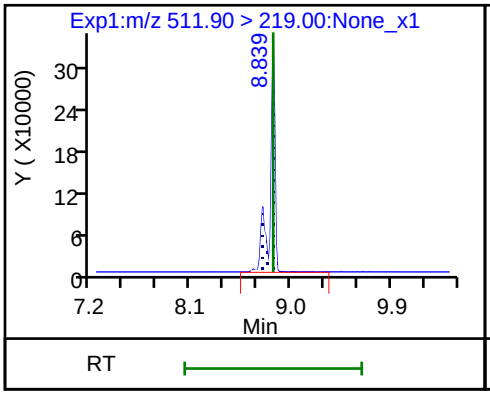
74 PFDoS



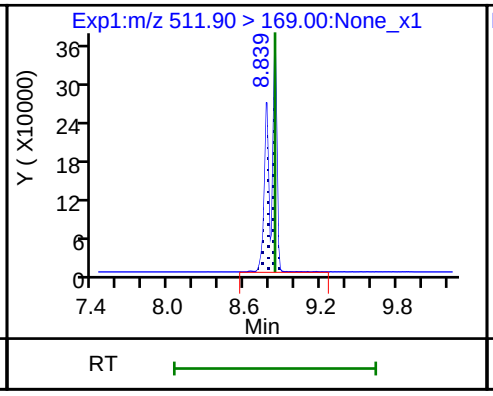
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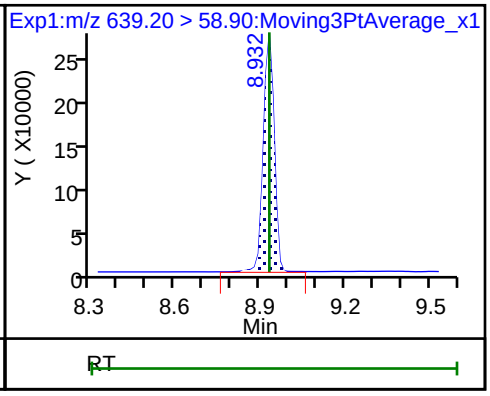
76 NMeFOSA



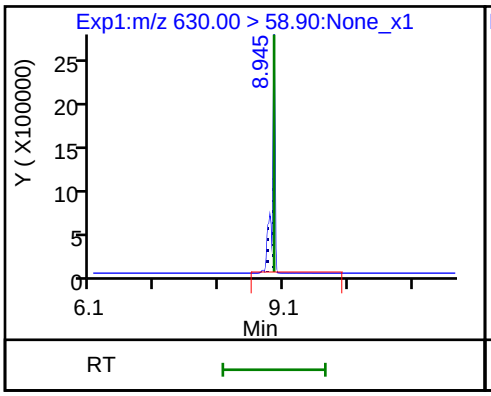
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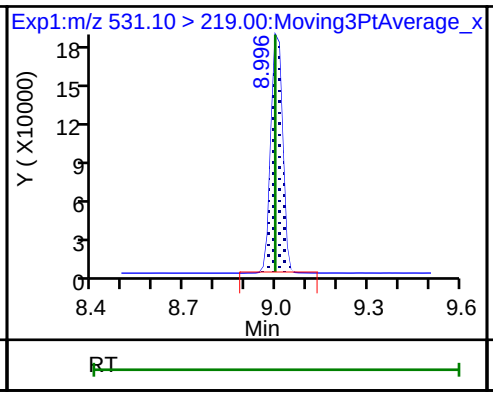
D 77 d9-N-EtFOSE



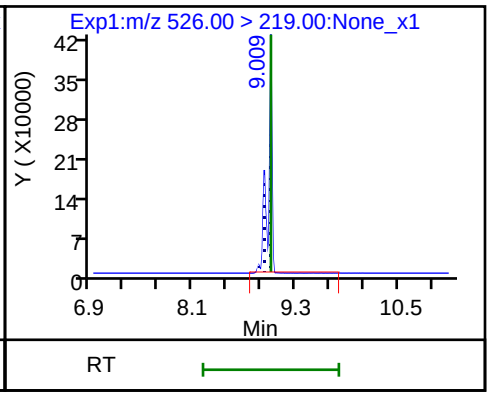
78 N-EtFOSE-M



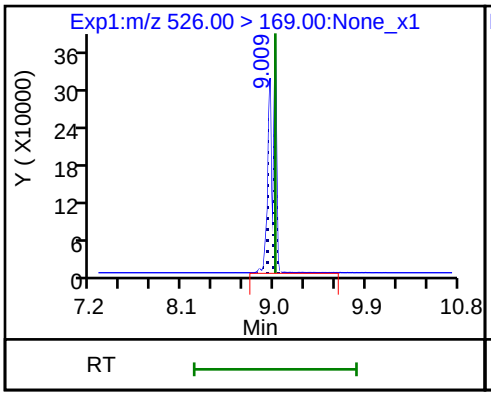
D 79 d5-NEtPFOSA



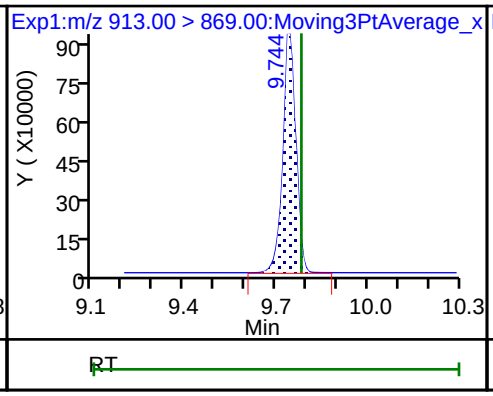
80 N-EtFOSA-M



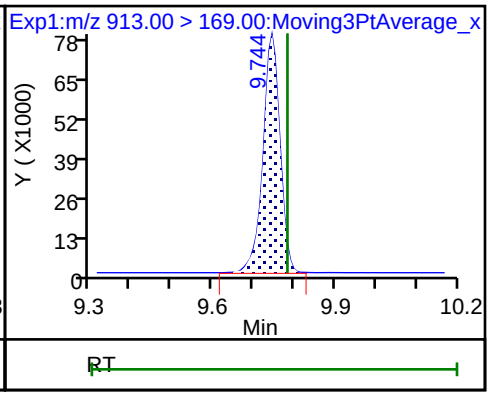
80 N-EtFOSA-M



81 Perfluorooctadecanoic acid



81 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-07.d
Lims ID: IC CAL 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 29-Jan-2026 02:00:29 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL7
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub14

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 12:08:28 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1631

First Level Reviewer: A4JU Date: 05-Feb-2026 09:22:09
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 13C3PFPrA										
166.00 > 121.00	2.033	2.008	0.025	0.486	1116459	1.99		99.4	471	
2 Perfluoropropionic acid										
163.00 > 119.00	2.008	2.033	-0.025	0.988	25556471	50.1		100	93327	
3 PFBA										
212.80 > 168.90	4.171	4.179	-0.008	0.998	12393063	19.9		99.3	138721	
D 4 13C4-PFBA										
216.80 > 171.90	4.179	4.187	-0.008	1.000	1364351	2.01		101	7109	
* 5 13C3PFBA										
216.00 > 172.00	4.179	4.187	-0.008		1297621	2.00			612	
6 PFMPA										
229.00 > 84.90	4.508	4.508	0.0	0.931	7191074	10.1		101	5019	
7 3:3 FTCA										
241.00 > 177.00	4.508	4.518	-0.010	0.931	779124	20.1	Target=1.25	101	3197	
241.00 > 117.00	4.508	4.518	-0.010	0.931	630308		1.24(0.63-1.88)	101	1466	
D 8 13C5 PFPeA										
268.30 > 223.00	4.842	4.842	0.0	0.914	852772	1.97		98.7	5291	
9 PFPA										
263.00 > 219.00	4.842	4.850	-0.008	1.000	8040301	10.1		101	8344	
10 PFMBA										
279.00 > 85.10	4.990	4.999	-0.009	1.031	9214597	10.2		102	12802	
D 12 13C2-4:2FTS										
329.10 > 80.90	5.112	5.123	-0.011	0.800	522393	4.64		98.9	3252	
13 4:2FTS										
327.10 > 307.00	5.112	5.123	-0.011	1.000	3460455	18.7	Target=1.50	99.5	17236	
327.10 > 80.90	5.112	5.123	-0.011	1.000	2260041		1.53(0.75-2.24)	99.5	5067	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.257	5.271	-0.014	0.992	2920004	9.90	Target=1.42	99.0	6202	
295.00 > 84.90	5.257	5.271	-0.014	0.992	2092357		1.40(0.71-2.13)	99.0	5819	
D 15 13C5 PFHxA										
318.00 > 273.00	5.298	5.312	-0.014	1.000	1680222	1.98		99.0	6457	
* 16 13C2 PFHxA										
315.10 > 270.00	5.298	5.312	-0.014		3714731	5.00			7853	
17 PFHxA										
313.00 > 269.00	5.298	5.312	-0.014	1.000	7005818	9.66	Target=11.34	96.6	4944	
313.00 > 118.90	5.298	5.312	-0.014	1.000	589160		11.89(5.67-17.02)	96.6	2390	
18 5:3 FTCA										
341.00 > 237.10	5.361	5.375	-0.013	1.012	5083321	54.3	Target=0.84	109	4175	
341.00 > 217.00	5.361	5.375	-0.013	1.012	5906044		0.86(0.42-1.26)	109	4433	
19 FBSA										
297.90 > 78.00	5.427	5.441	-0.014	0.995	9338342	10.4		104	3594	
D 20 13C3 PFBS										
302.10 > 79.90	5.454	5.454	0.0	0.853	1581345	1.90		102	4492	
21 PFBS										
298.70 > 79.90	5.454	5.454	0.0	1.000	7797016	8.73	Target=3.25	98.3	12657	
298.70 > 98.80	5.454	5.454	0.0	1.000	2394418		3.26(1.62-4.87)	98.3	15709	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.495	5.495	0.0	1.037	1462445	1.99		99.6	3791	
23 HFPO-DA										
284.90 > 168.90	5.495	5.495	0.0	1.000	5711241	7.84	Target=2.31	105	5920	
284.90 > 184.90	5.495	5.495	0.0	1.000	2324078		2.46(1.15-3.46)	105	7779	
26 PFEESA										
314.80 > 134.90	5.697	5.697	0.0	1.075	18989436	8.59	Target=11.22	96.3	38234	
314.80 > 82.90	5.697	5.697	0.0	1.075	1797949		10.56(5.61-16.83)	96.3	5386	
27 PFHpA										
363.10 > 319.00	5.740	5.740	0.0	1.000	7239080	10.6	Target=2.31	106	4134	
363.10 > 169.00	5.740	5.740	0.0	1.000	3079750		2.35(1.16-3.47)	106	8980	
D 28 13C4 PFHpA										
367.10 > 322.00	5.740	5.740	0.0	1.083	1623140	1.94		96.9	7010	
29 ADONA										
376.90 > 250.90	5.892	5.892	0.0	1.072	16736614	9.61	Target=1.98	102	28849	
376.90 > 84.80	5.892	5.892	0.0	1.072	8148609		2.05(0.99-2.97)	102	11812	
D 30 13C2-6:2FTS										
429.10 > 80.90	5.937	5.936	0.001	0.929	407752	4.40		92.4	1502	
31 6:2FTS										
427.10 > 407.00	5.937	5.936	0.001	1.000	2721970	19.2	Target=1.40	101	2819	
427.10 > 80.90	5.937	5.936	0.001	1.000	1823249		1.49(0.70-2.10)	101	2741	
32 PFPeS										
349.10 > 79.90	5.937	5.951	-0.014	0.929	7911790	9.34	Target=3.31	99.4	20509	
349.10 > 98.90	5.937	5.951	-0.014	0.929	2332491		3.39(1.65-4.96)	99.4	14040	
33 BTS										
280.00 > 147.00	6.108	6.121	-0.013	0.956	20098936	10.2		104	27087	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 PFOA										
413.00 > 369.00	6.147	6.160	-0.013	1.000	6807036	10.0	Target=1.89	100	6027	
413.00 > 169.00	6.147	6.160	-0.013	1.000	3440407		1.98(0.95-2.84)	100	3289	
D 35 13C8 PFOA										
421.10 > 376.00	6.147	6.160	-0.013	1.000	2129887	2.06		103	8780	
* 36 13C4 PFOA										
417.10 > 372.00	6.147	6.160	-0.013		5173048	5.00			11312	
37 7:3 FTCA										
441.00 > 316.90	6.199	6.212	-0.013	1.170	2525788	52.3	Target=0.34	105	3113	
441.00 > 336.90	6.199	6.212	-0.013	1.170	7462388		0.34(0.17-0.50)	105	4370	
D 38 13C3 PFHxS										
402.10 > 79.90	6.392	6.404	-0.012	1.000	1442871	1.90		100	4127	
39 PFHxS										
398.70 > 79.90	6.404	6.404	0.0	1.002	5809325	8.84	Target=3.47	97.0	10825	
398.70 > 98.90	6.392	6.404	-0.012	1.000	1752179		3.32(1.73-5.20)	97.0	2371	
* 40 18O2 PFHxS										
403.00 > 83.90	6.392	6.404	-0.012		1400004	1.90			3524	
D 41 13C9 PFNA										
472.10 > 427.00	6.568	6.568	0.0	1.000	1599236	1.83		91.5	6326	
42 PFNA										
463.00 > 419.00	6.568	6.568	0.0	1.000	7948584	10.3	Target=2.73	103	5692	
463.00 > 219.00	6.568	6.568	0.0	1.000	3045011		2.61(1.37-4.09)	103	2746	
* 43 13C5 PFNA										
468.00 > 423.00	6.568	6.581	-0.013		1866429	2.00			5549	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.758	6.758	0.0	1.057	403856	4.57		95.1	1545	
45 8:2FTS										
527.10 > 507.00	6.758	6.770	-0.012	1.000	2229625	19.9	Target=1.55	103	14799	
527.10 > 80.80	6.758	6.770	-0.012	1.000	1494796		1.49(0.78-2.33)	103	3691	
46 PFECHS										
461.00 > 381.00	6.808	6.808	0.0	1.065	2061080	9.00	Target=0.25	97.4	7772	
461.00 > 99.00	6.808	6.808	0.0	1.065	8346890		0.25(0.13-0.38)	97.4	5961	
47 FHxSA										
397.90 > 78.00	6.820	6.832	-0.012	1.067	10747544	10.2		102	5263	
48 PFHpS										
449.00 > 79.90	6.845	6.845	0.0	0.941	6628281	8.63	Target=4.28	90.4	21309	
449.00 > 98.80	6.845	6.845	0.0	0.941	1658840		4.00(2.14-6.42)	90.4	10016	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.917	6.929	-0.012	0.950	919414	5.16		103	2742	
50 NMeFOSAA										
570.10 > 419.00	6.917	6.929	-0.012	1.000	1965286	9.23	Target=1.90	92.3	618809	
570.10 > 483.00	6.929	6.929	0.0	1.002	1071664		1.83(0.95-2.85)	92.3	311450	
* 51 13C2 PFDA										
515.10 > 470.10	7.000	7.000	0.0		1615629	2.00			6797	
D 52 13C6 PFDA										
519.10 > 474.10	6.988	7.000	-0.012	0.998	1617979	1.98		99.1	6195	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
53 PFDA										
512.90 > 469.00	7.000	7.000	0.0	1.002	4970401	9.57	Target=3.34	95.7	7685	
512.90 > 219.00	7.000	7.000	0.0	1.002	1557039		3.19(1.67-5.01)	95.7	7956	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.111	7.111	0.0	0.977	807454	5.24		105	1527	
55 NEtFOSAA										
584.20 > 419.10	7.111	7.111	0.0	1.000	1273717	9.89	Target=1.51	98.9	421166	
584.20 > 526.00	7.111	7.111	0.0	1.000	833481		1.53(0.75-2.26)	98.9	222142	
D 56 13C8 PFOS										
507.10 > 79.90	7.277	7.291	-0.014	1.000	1164075	1.92		100.0	185	
* 57 13C4 PFOS										
502.80 > 79.90	7.277	7.291	-0.014		1146934	1.92			7229	
58 PFOS										
498.90 > 79.90	7.277	7.291	-0.014	1.000	8154218	9.49	Target=4.89	102	8431	
498.90 > 98.80	7.277	7.291	-0.014	1.000	1574789		5.18(2.45-7.34)	102	3812	
D 59 13C7 PFUnA										
570.00 > 525.10	7.421	7.435	-0.014	1.060	1708354	2.10		105	4272	
60 PFUnA										
563.10 > 519.00	7.421	7.435	-0.014	1.000	4083546	10.3	Target=3.26	103	12717	
563.10 > 269.10	7.421	7.435	-0.014	1.000	1151146		3.55(1.63-4.88)	103	4101	
61 9ClFOS										
530.80 > 351.00	7.610	7.620	-0.010	1.046	15473718	9.17	Target=3.01	98.2	23760	
532.80 > 353.00	7.610	7.620	-0.010	1.046	5214625		2.97(1.51-4.52)	98.2	11703	
62 PFNS										
548.80 > 79.90	7.711	7.723	-0.012	1.060	6154213	9.31	Target=4.32	96.8	7773	
548.80 > 98.80	7.711	7.723	-0.012	1.060	1490918		4.13(2.16-6.47)	96.8	10585	
63 PFDoA										
613.10 > 569.00	7.850	7.861	-0.011	1.000	4203616	10.1	Target=3.42	101	5112	
613.10 > 319.00	7.850	7.861	-0.011	1.000	1150670		3.65(1.71-5.13)	101	3831	
D 64 13C2 PFDoA										
615.10 > 570.00	7.850	7.861	-0.011	1.121	1189597	2.07		104	1983	
D 65 13C8 FOSA										
506.10 > 77.80	7.957	7.958	-0.001	1.093	1444867	2.12		106	5550	
66 PFOSA										
498.10 > 77.90	7.957	7.971	-0.014	1.000	7501341	9.93	Target=43.97	99.3	8425	
498.10 > 478.00	7.957	7.971	-0.014	1.000	156990		47.78(21.98-65.95)	99.3	161	
67 PFDS										
599.00 > 79.90	8.117	8.118	-0.001	1.115	6535380	9.33	Target=4.28	96.8	6604	
599.00 > 98.80	8.117	8.118	-0.001	1.115	1531758		4.27(2.14-6.41)	96.8	3943	
68 PFTrDA										
663.00 > 619.00	8.246	8.262	-0.016	0.959	4957416	10.2	Target=4.49	102	7666	
663.00 > 168.90	8.246	8.262	-0.016	0.959	1006334		4.93(2.24-6.73)	102	2447	
69 11ClFOS										
630.90 > 450.90	8.409	8.425	-0.016	1.156	8855899	9.56	Target=2.77	101	3860	
632.90 > 452.90	8.409	8.425	-0.016	1.156	3223708		2.75(1.39-4.16)	101	38826	
70 PFTeDA										
713.10 > 168.90	8.614	8.616	-0.002	1.002	740659	10.2	Target=0.89	102	4531	
713.10 > 219.00	8.614	8.616	-0.002	1.002	818449		0.90(0.44-1.33)	102	1004	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 71 13C2 PFTeDA										
715.20 > 670.00	8.600	8.616	-0.016	1.229	974641	2.05		102	7173	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.742	8.744	-0.002	1.201	559192	5.20		104	295	
73 N-MeFOSE-M										
616.10 > 58.90	8.756	8.758	-0.002	1.002	10920131	51.1		102	3423998	
74 PFDoS										
699.10 > 79.90	8.784	8.799	-0.015	1.207	6336861	9.80	Target=4.86	101	27715	
699.10 > 98.80	8.784	8.799	-0.015	1.207	1265645		5.01(2.43-7.29)	101	13460	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.824	8.826	-0.002	1.213	427568	2.22		111	2479	
76 NMeFOSA										
511.90 > 219.00	8.838	8.839	-0.001	1.002	2042166	9.60	Target=0.74	96.0	4307	
511.90 > 169.00	8.838	8.839	-0.001	1.002	2730717		0.75(0.37-1.10)	96.0	2925	
D 77 d9-N-EtFOSE										
639.20 > 58.90	8.931	8.932	-0.001	1.227	764915	5.36		107	689	
78 N-EtFOSE-M										
630.00 > 58.90	8.944	8.945	-0.001	1.001	16011461	49.6		99.2	5282567	
D 79 d5-NEtPFOSA										
531.10 > 219.00	8.995	8.996	-0.001	1.236	524266	2.24		112	3325	
80 N-EtFOSA-M										
526.00 > 219.00	9.008	9.009	-0.001	1.001	2499351	9.72	Target=0.84	97.2	6088	
526.00 > 169.00	9.008	9.009	-0.001	1.001	3013134		0.83(0.42-1.25)	97.2	5894	
81 Perfluorooctadecanoic acid										
913.00 > 869.00	9.728	9.782	-0.054	1.131	4844992	16.5	Target=11.42	165	59777	
913.00 > 169.00	9.720	9.782	-0.062	1.130	400810		12.09(5.71-17.13)	165	12575	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL7_00039 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 12:08:32 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-07.d

Injection Date: 29-Jan-2026 02:00:29 Instrument ID: 30576

Lims ID: IC CAL 7

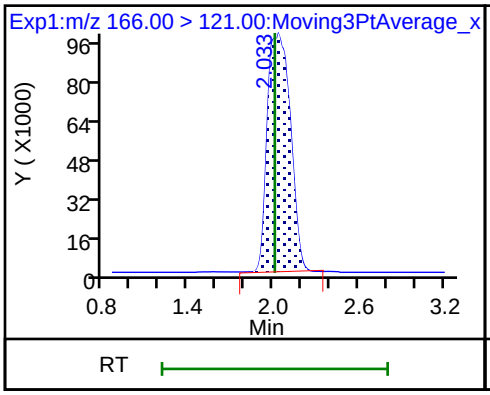
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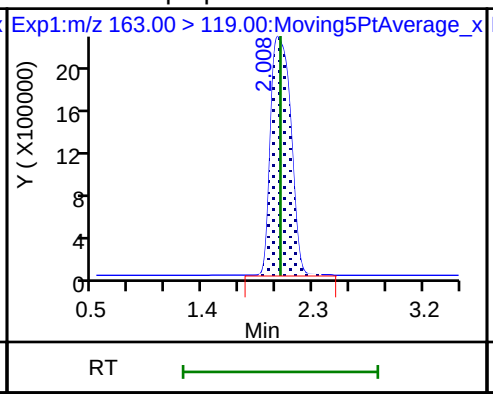
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Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

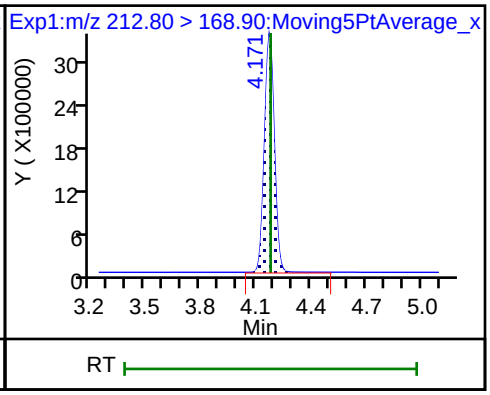
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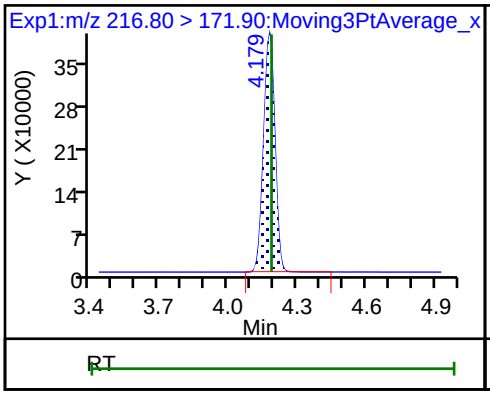
2 Perfluoropropionic acid



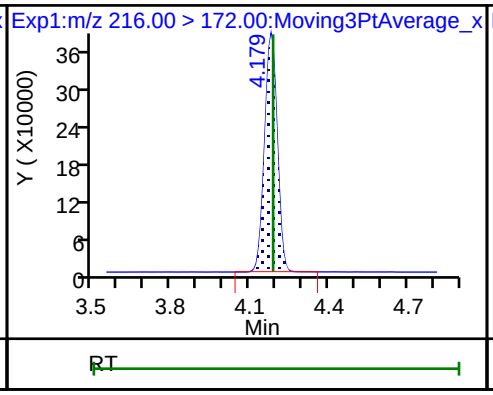
3 PFBA



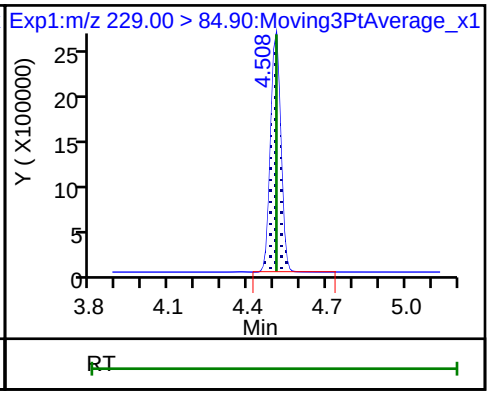
D 4 13C4-PFBA



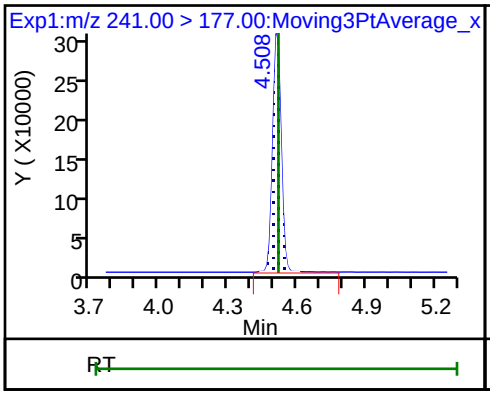
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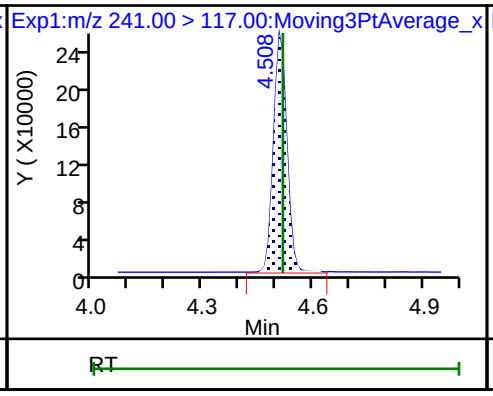
6 PFMPA



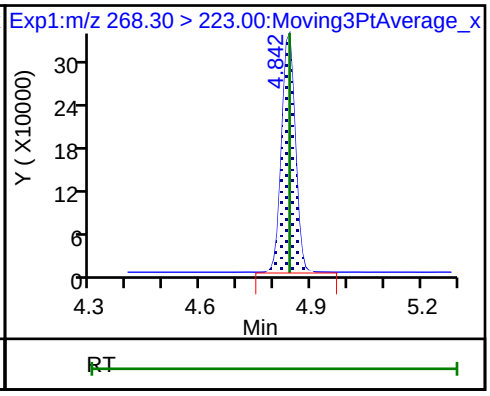
7 3:3 FTCA



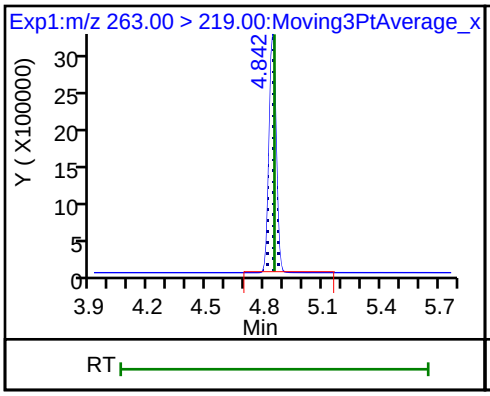
7 3:3 FTCA



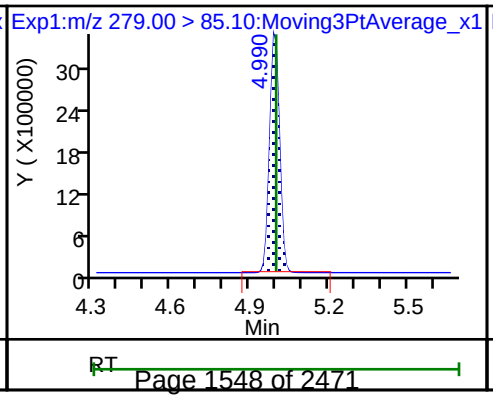
D 8 13C5 PFPeA



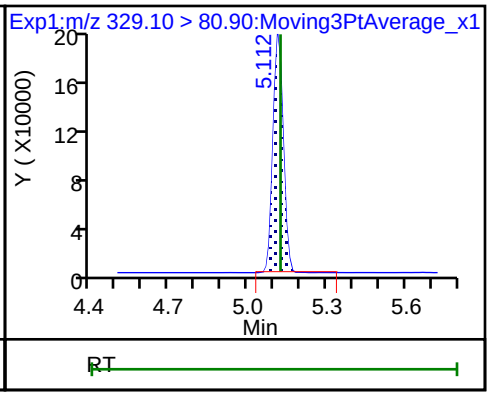
9 PFPA



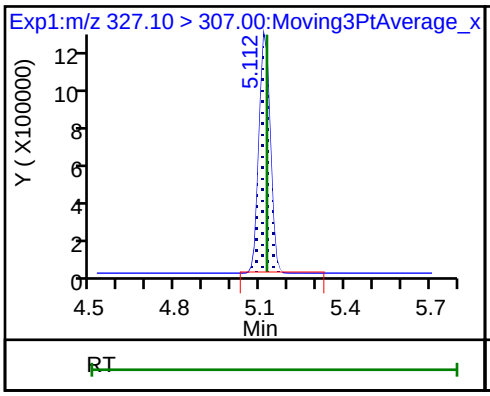
10 PFMBA



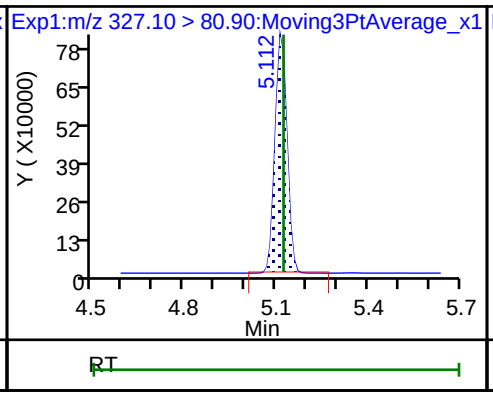
D 12 13C2-4:2FTS



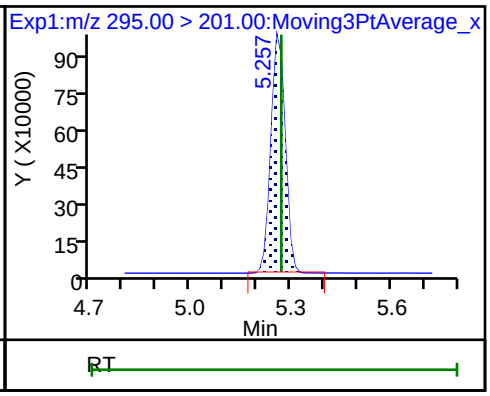
13 4:2FTS



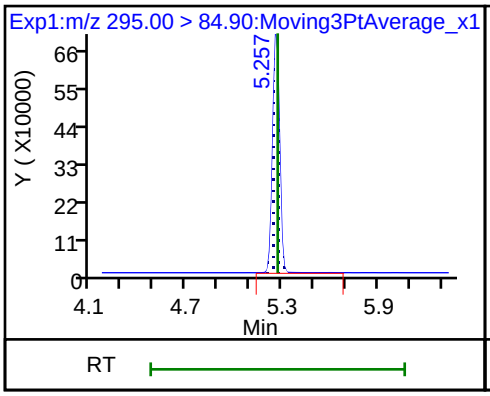
13 4:2FTS



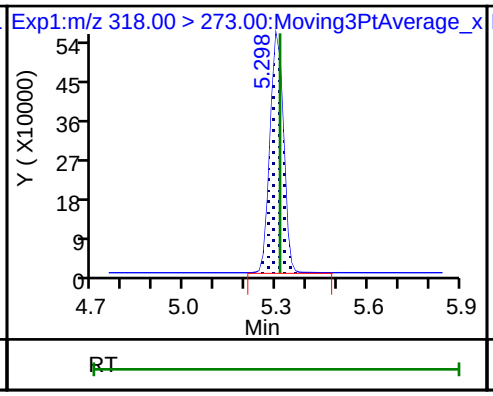
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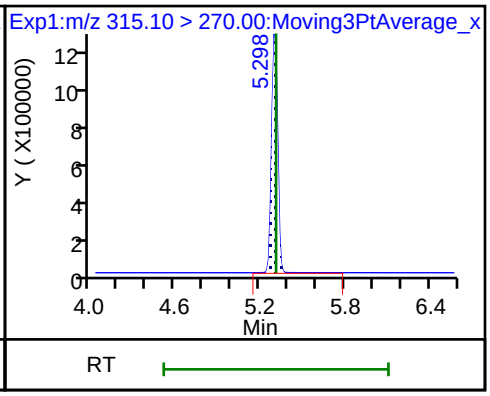
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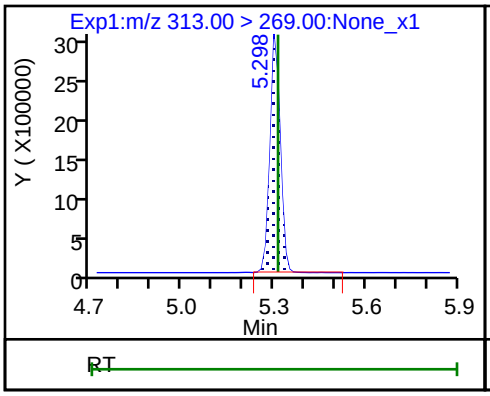
D 15 13C5 PFHxA



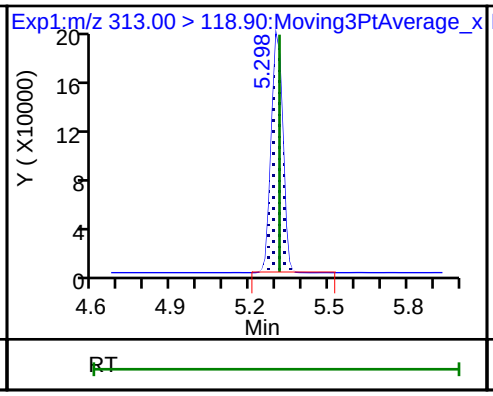
* 16 13C2 PFHxA



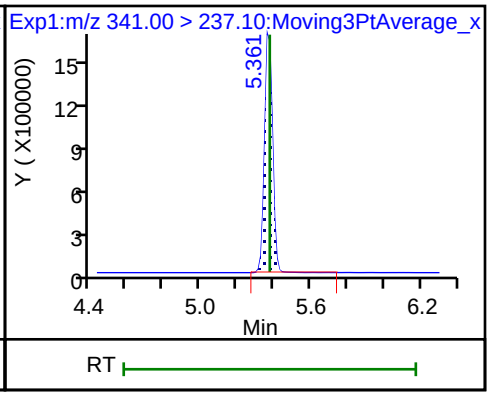
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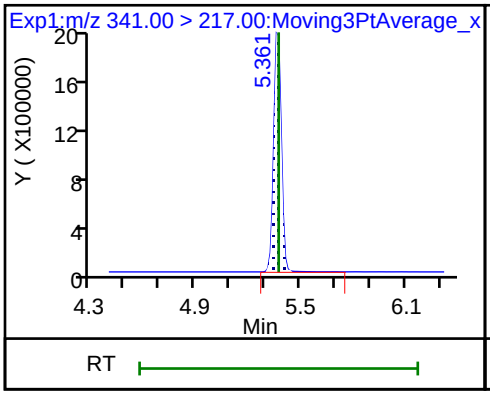
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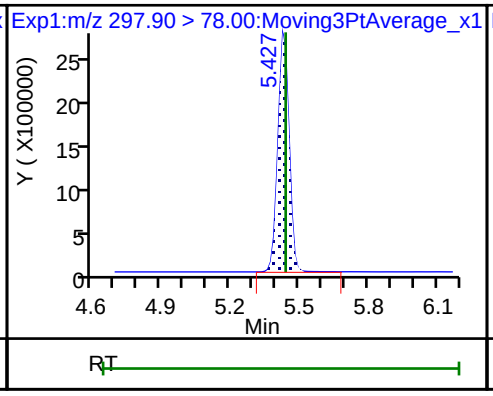
18 5:3 FTCA



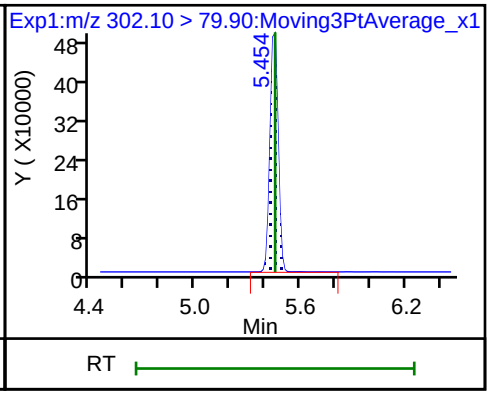
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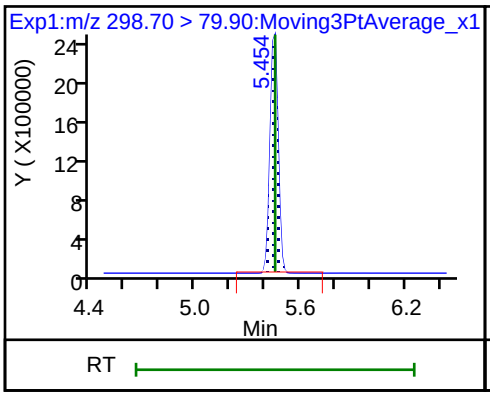
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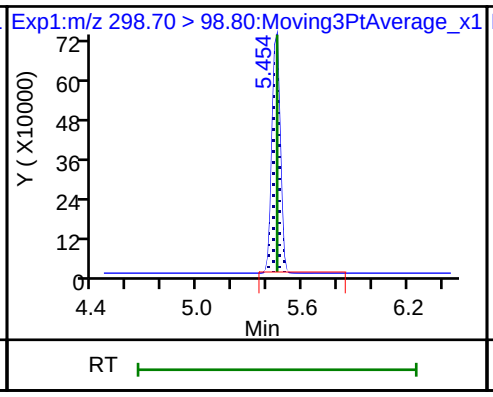
D 20 13C3 PFBS



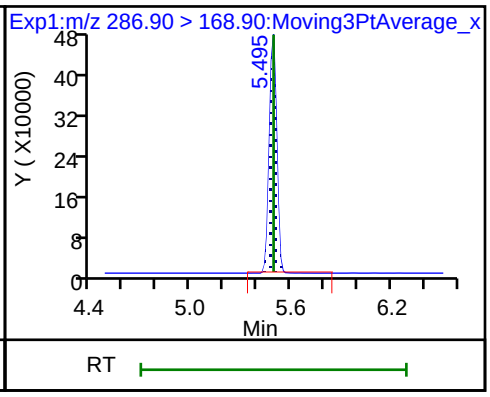
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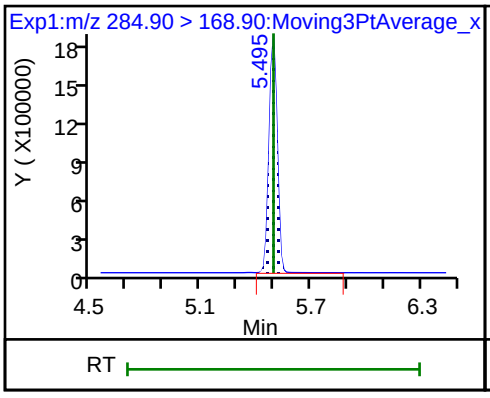
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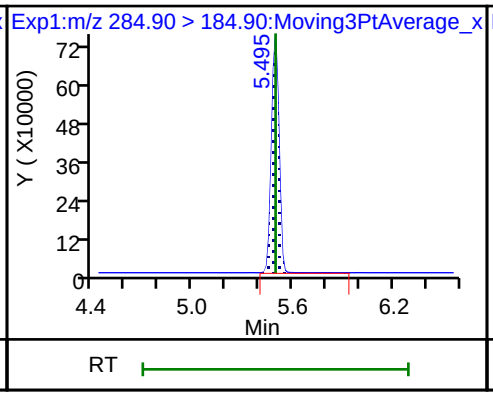
D 22 13C3 HFPO-DA



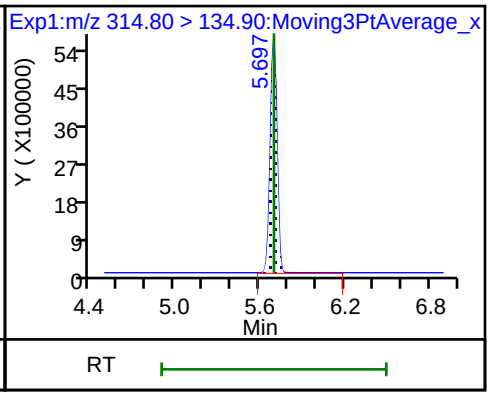
23 HFPO-DA



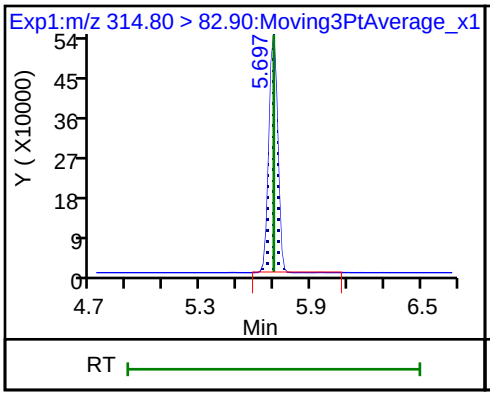
23 HFPO-DA



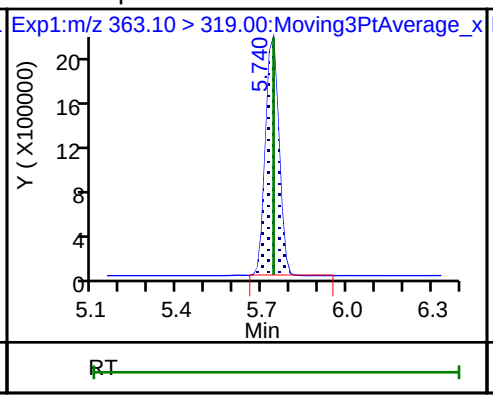
26 PFEESA



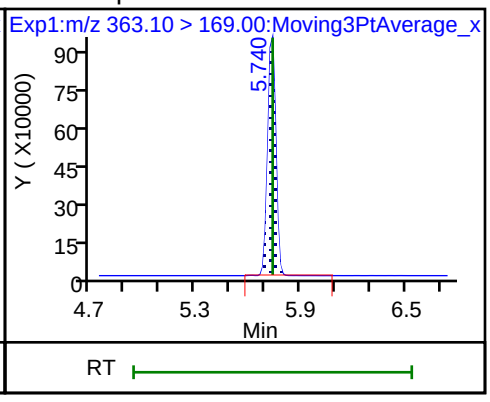
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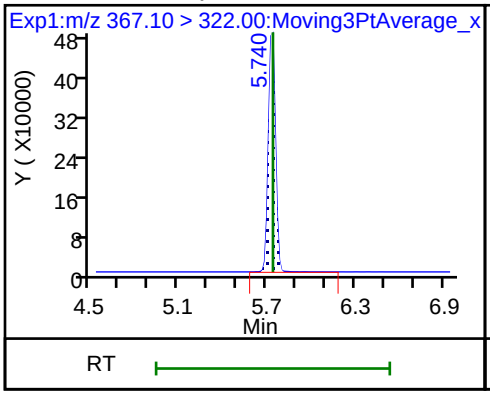
27 PFHpA



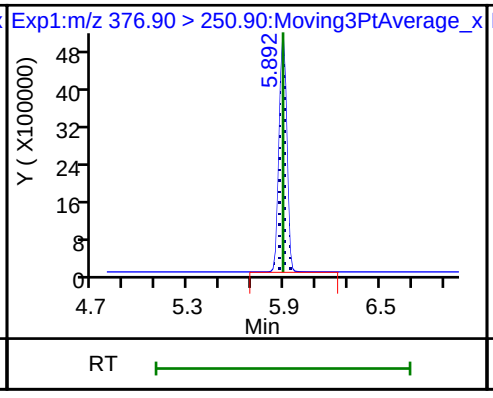
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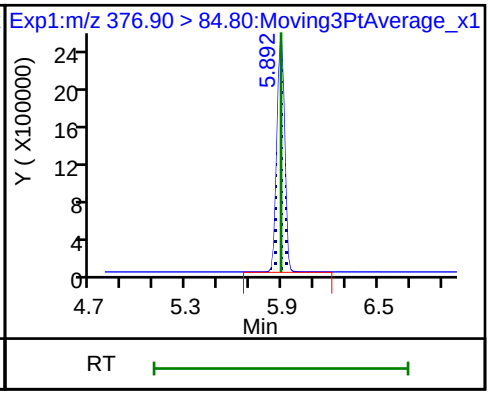
D 28 13C4 PFHpA



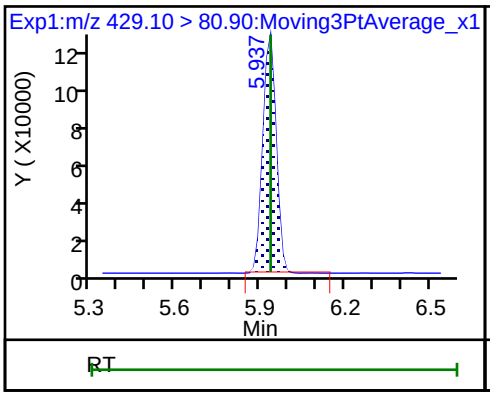
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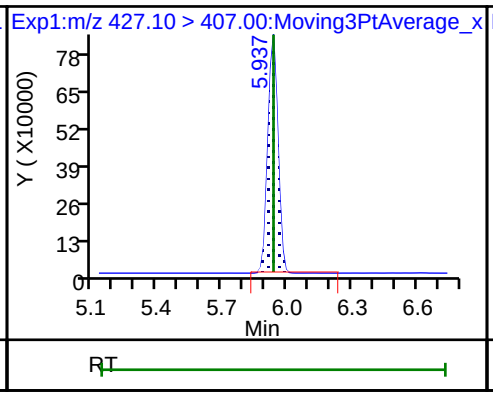
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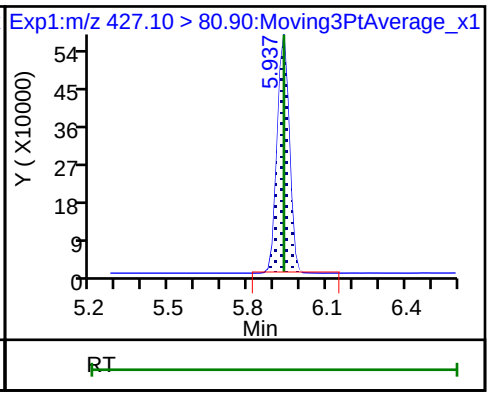
D 30 13C2-6:2FTS



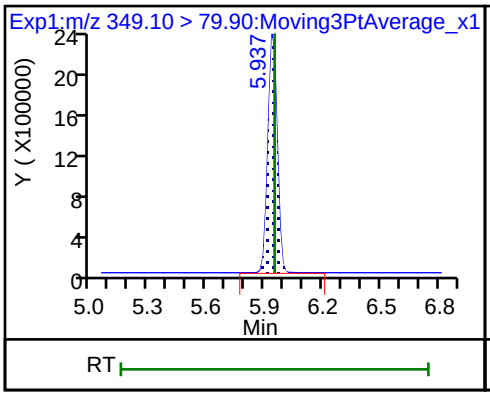
31 6:2FTS



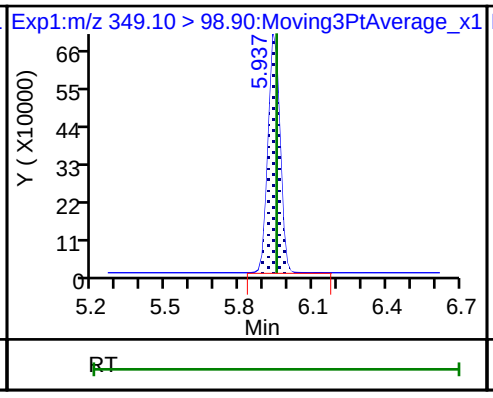
31 6:2FTS



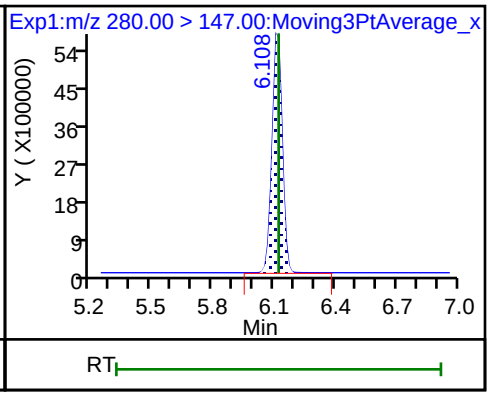
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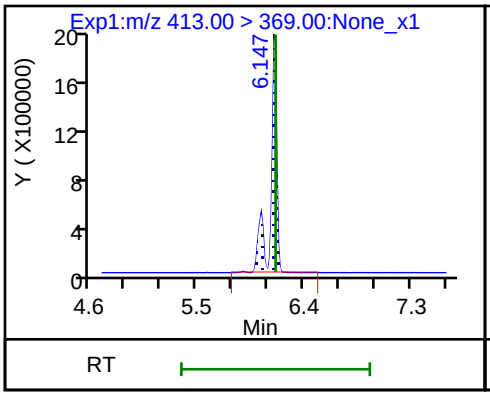
32 PFPeS



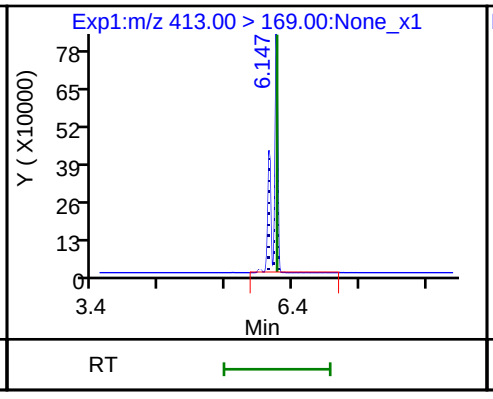
33 BTS



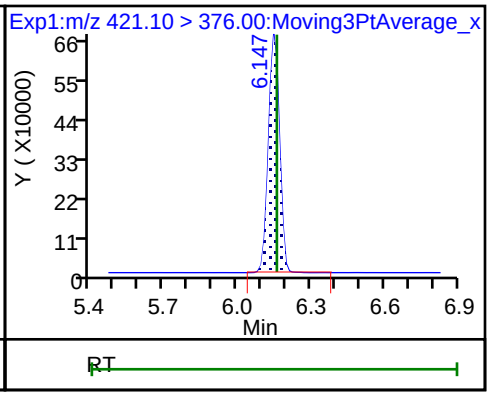
34 PFOA



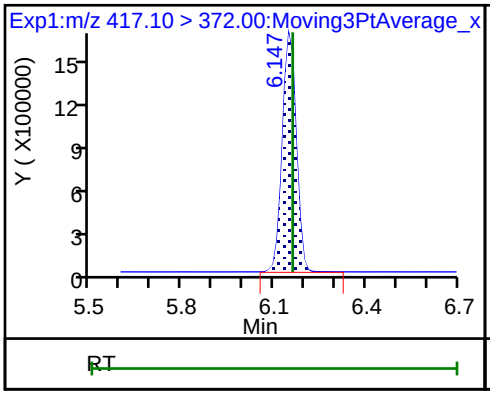
34 PFOA



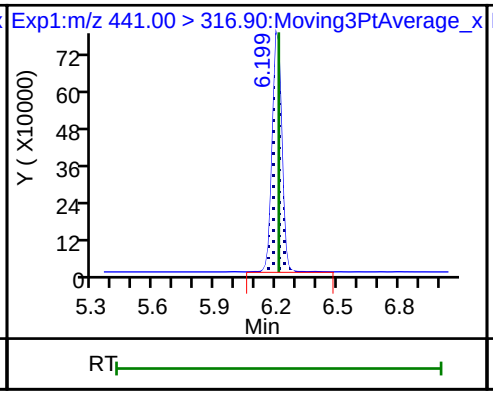
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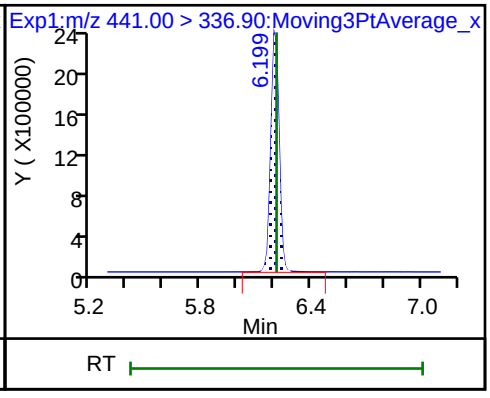
* 36 13C4 PFOA



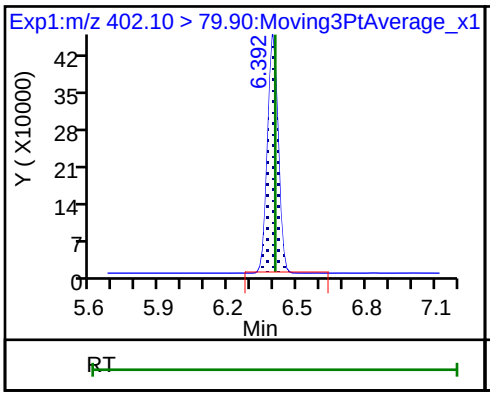
37 7:3 FTCA



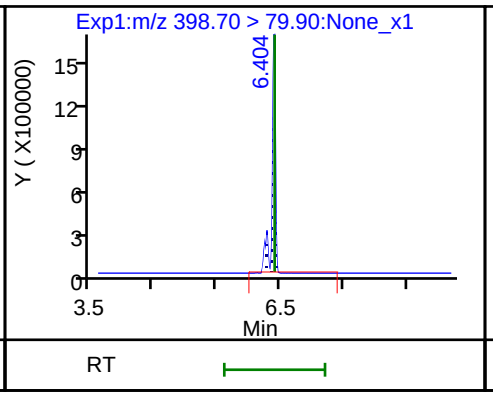
37 7:3 FTCA



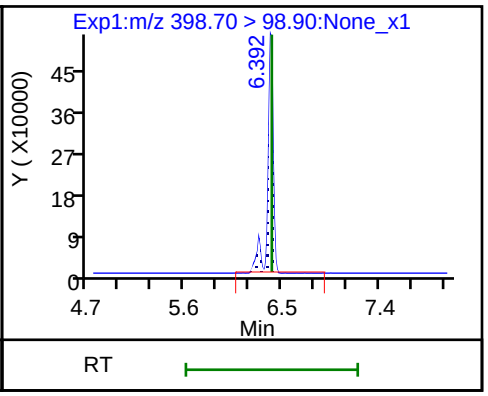
D 38 13C3 PFHxS



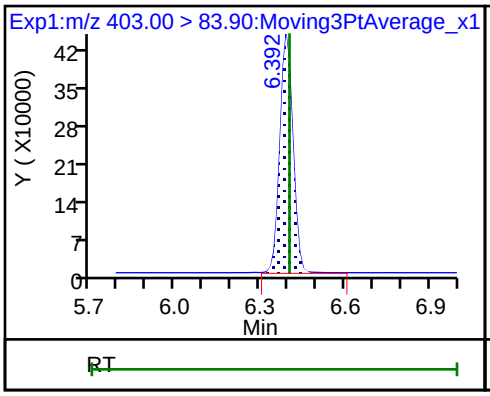
39 PFHxS



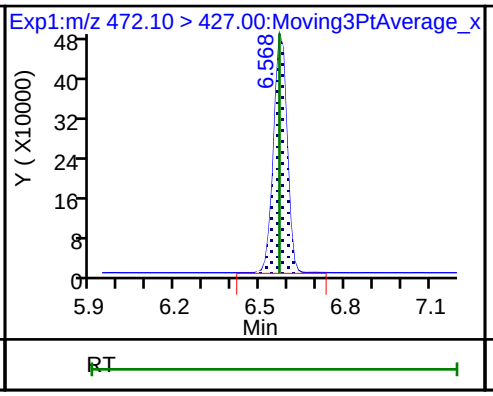
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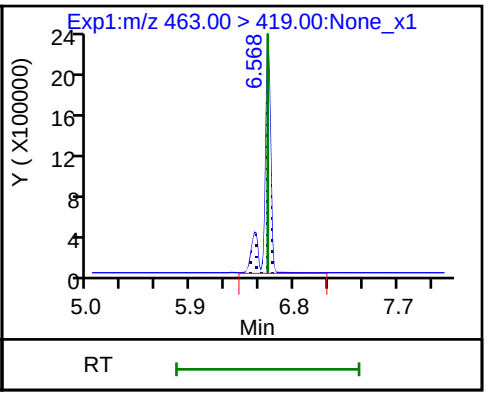
* 40 18O2 PFHxS



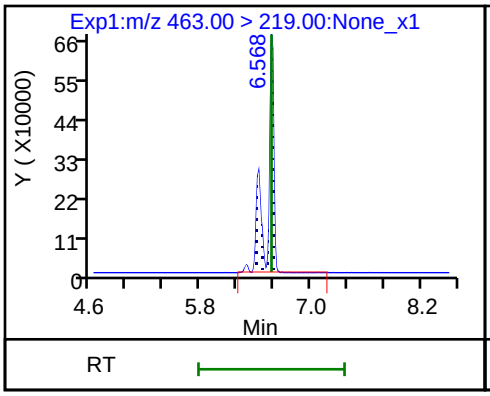
D 41 13C9 PFNA



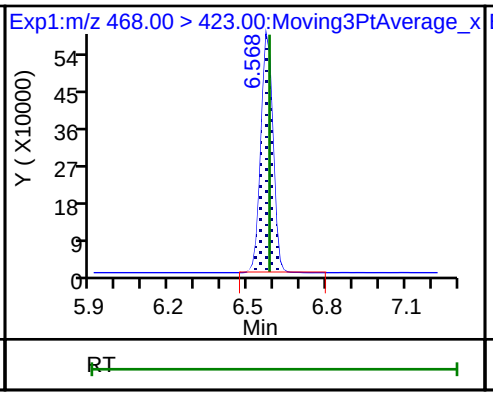
42 PFNA



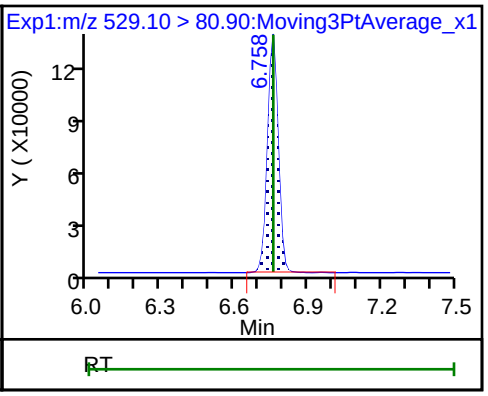
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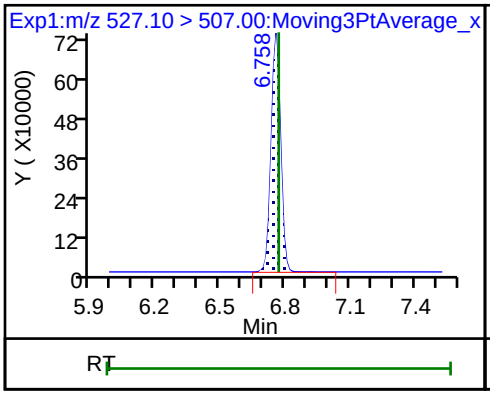
* 43 13C5 PFNA



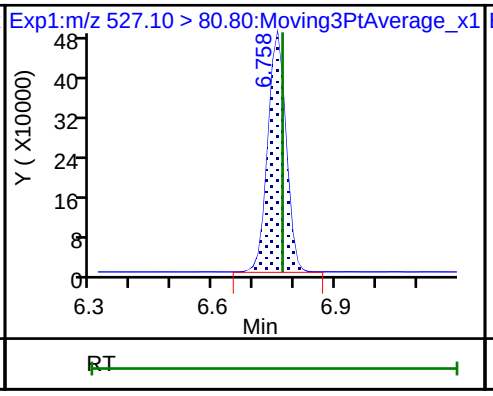
D 44 13C2-8:2FTS



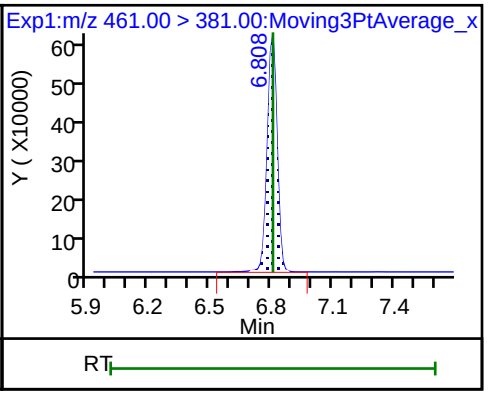
45 8:2FTS



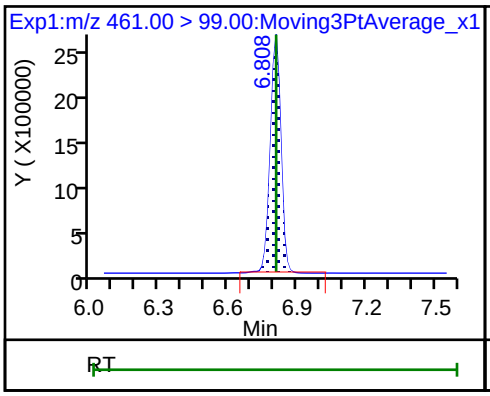
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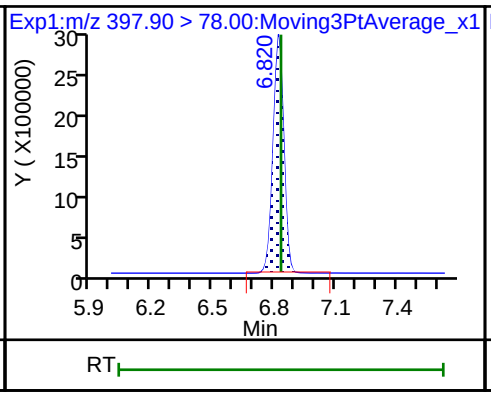
46 PFECHS



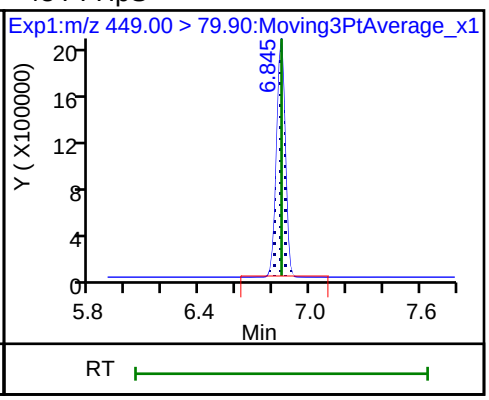
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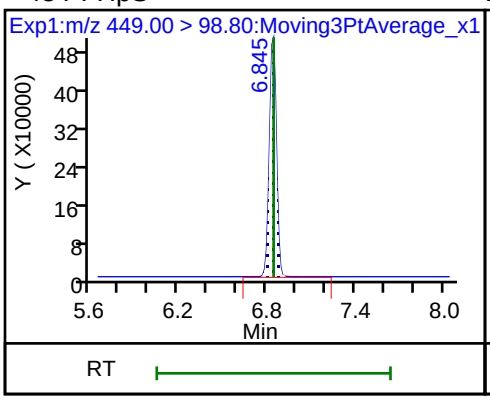
47 FHxSA



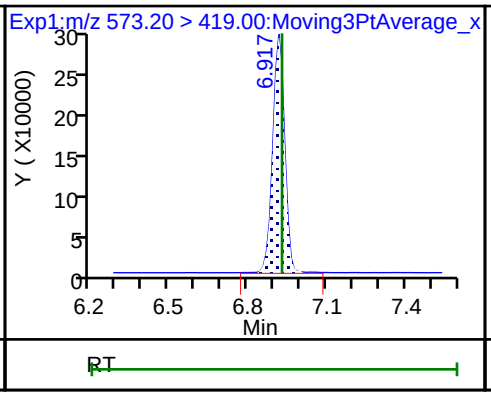
48 PFHpS



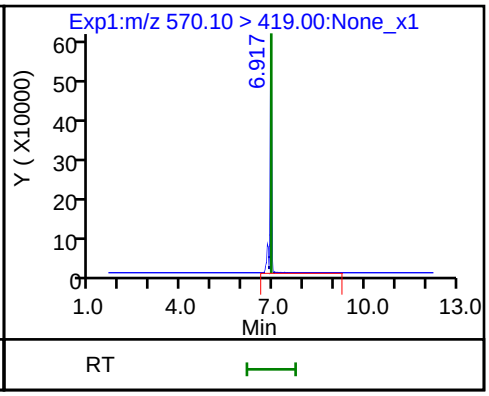
48 PFHpS



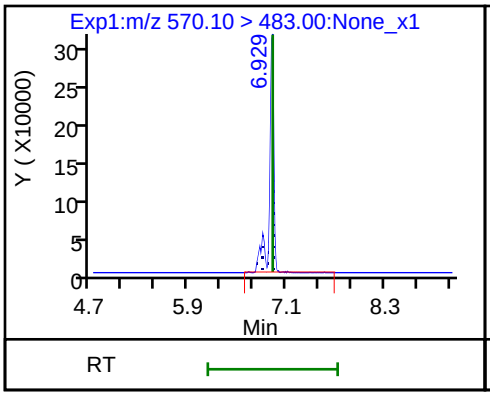
D 49 d3-NMeFOSAA



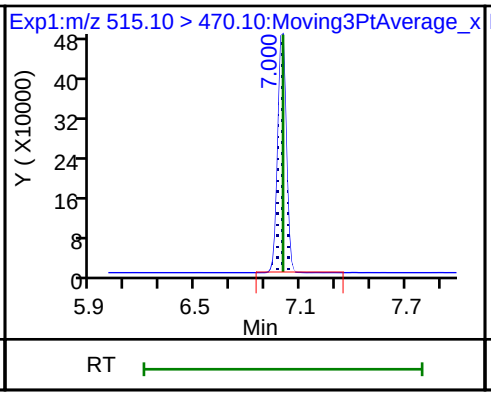
50 NMeFOSAA



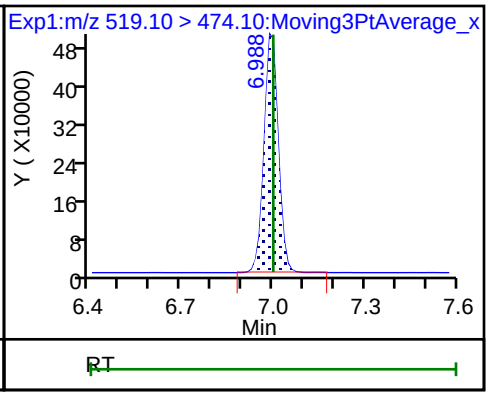
50 NMeFOSAA



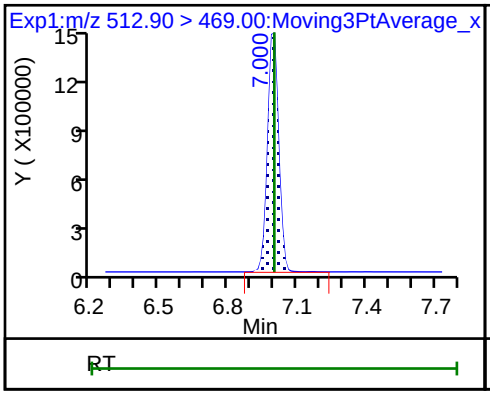
* 51 13C2 PFDA



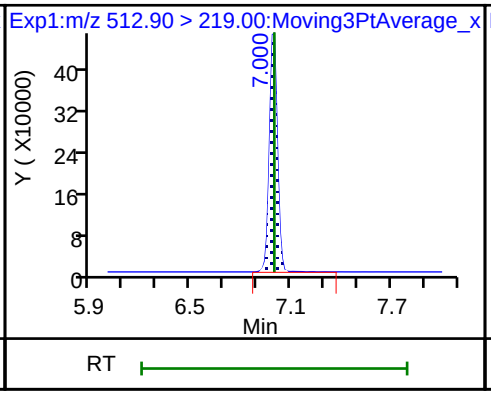
D 52 13C6 PFDA



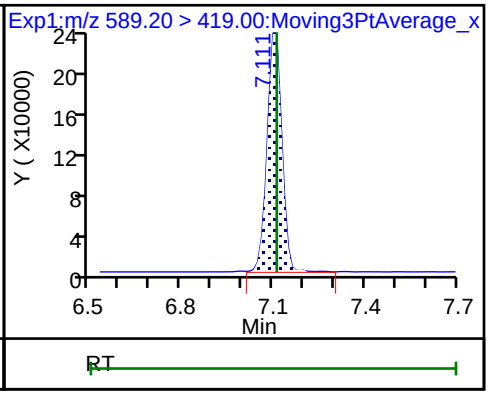
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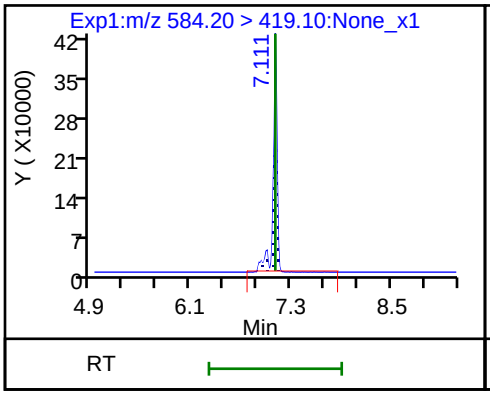
53 PFDA



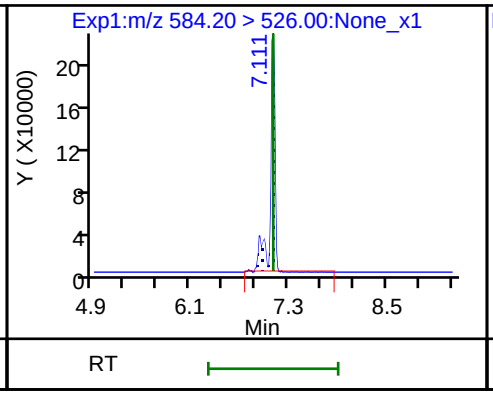
D 54 d5-NEtFOSAA



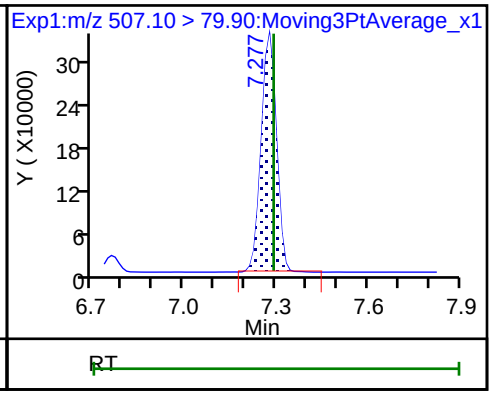
55 NEtFOSAA



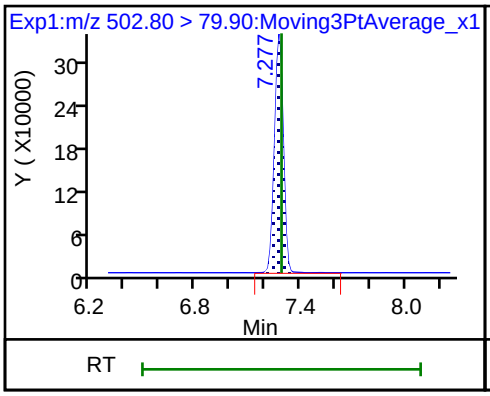
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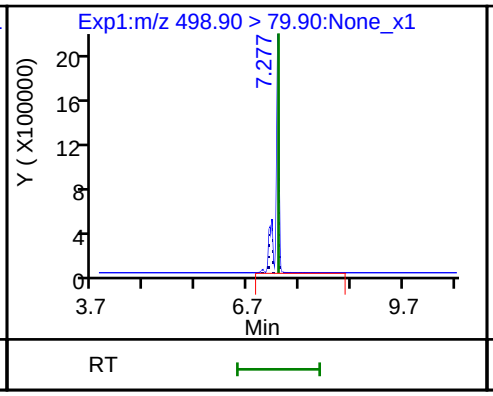
D 56 13C8 PFOS



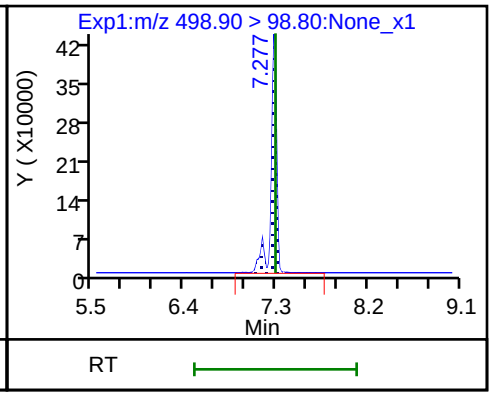
* 57 13C4 PFOS



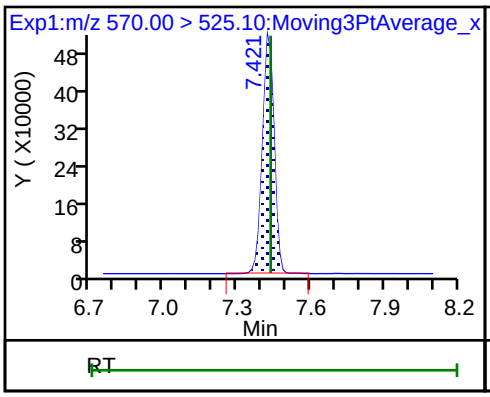
58 PFOS



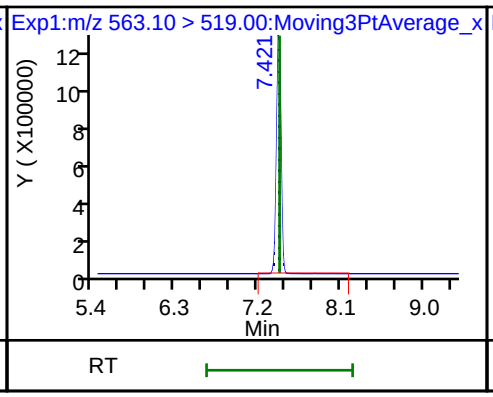
58 PFOS



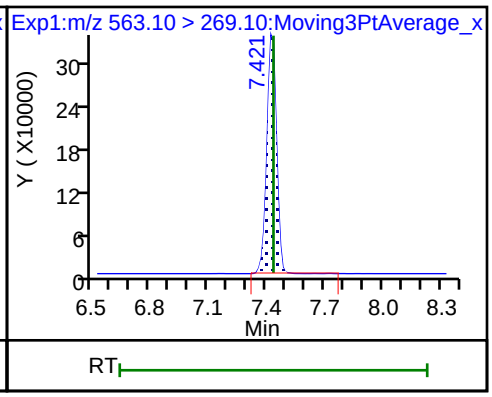
D 59 13C7 PFUnA



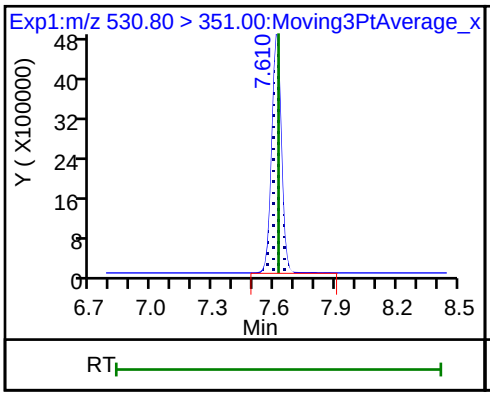
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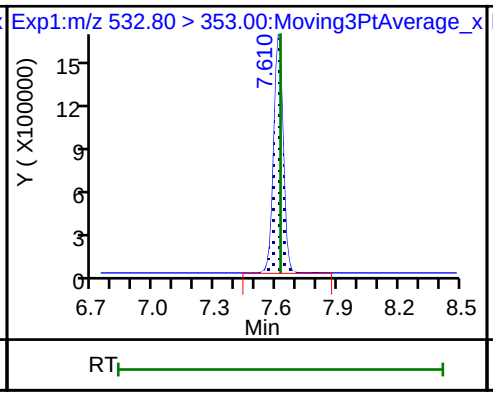
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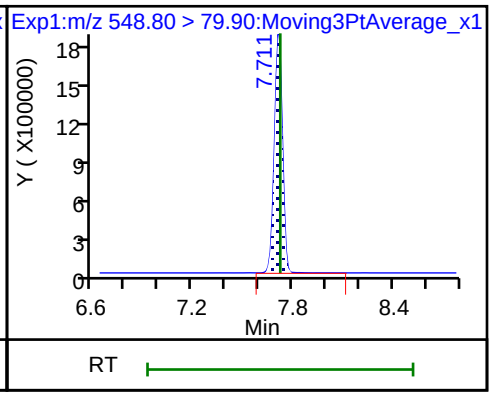
61 9ClFOS



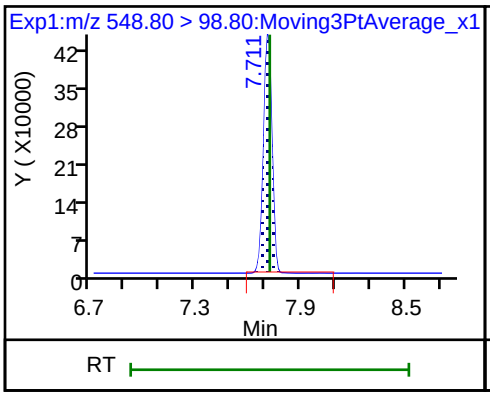
61 9ClFOS



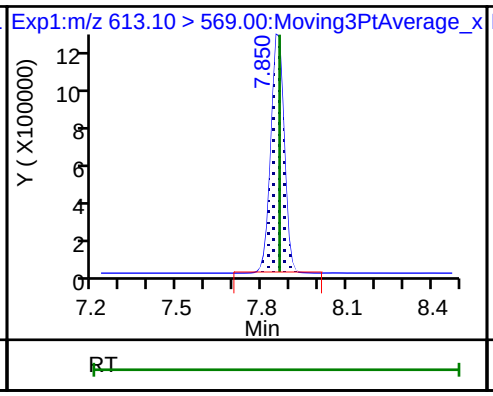
62 PFNS



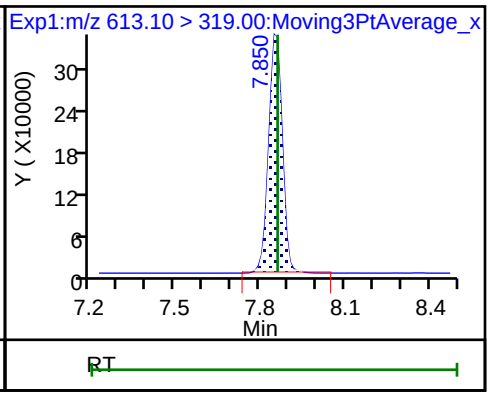
62 PFNS



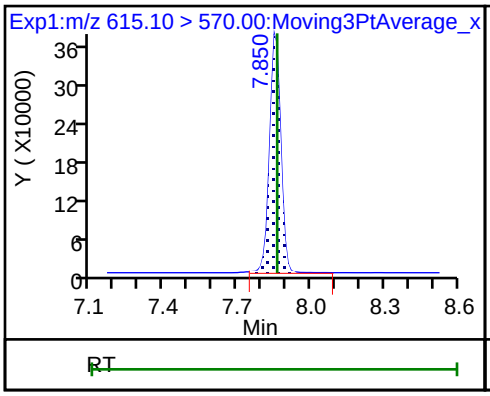
63 PFDoA



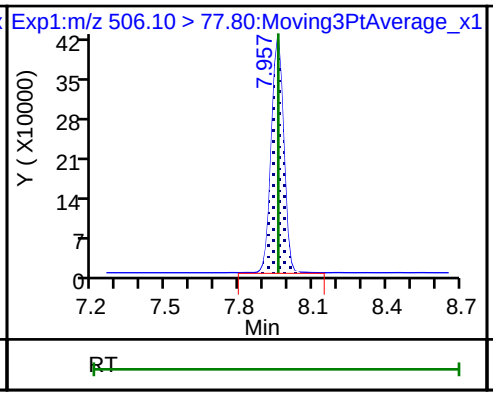
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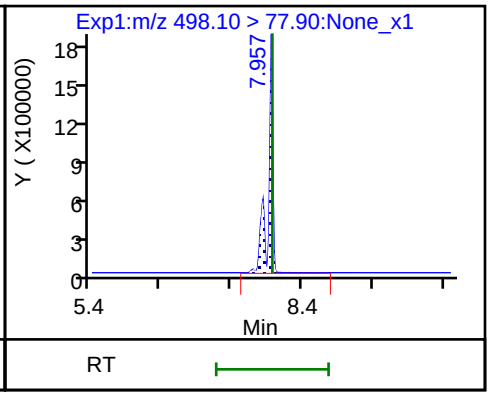
D 64 13C2 PFDoA



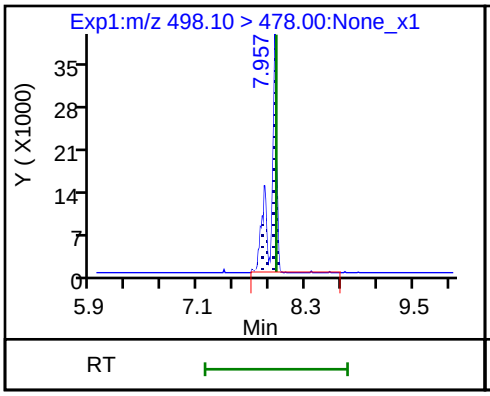
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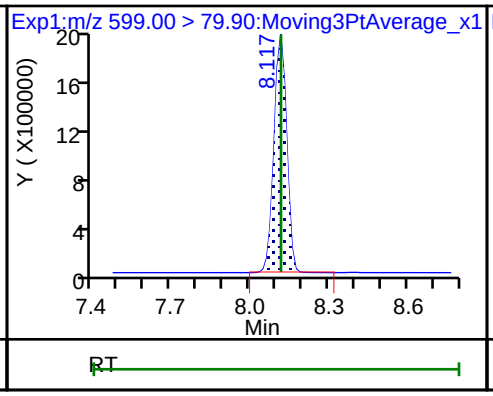
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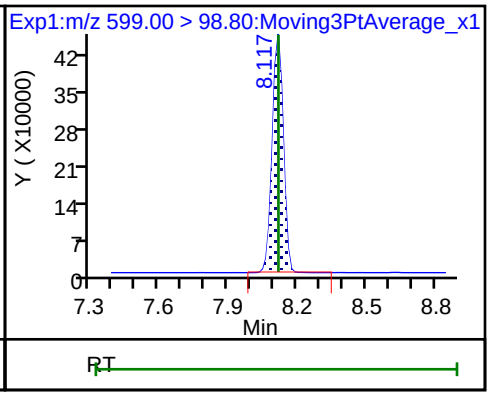
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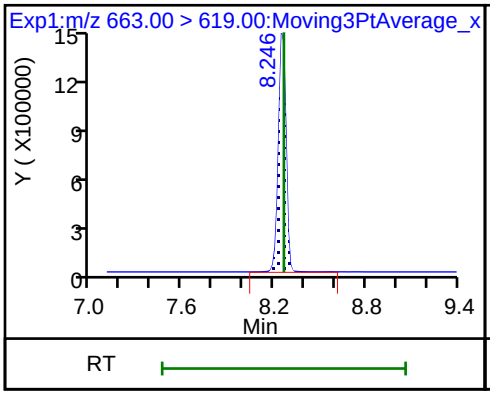
67 PFDS



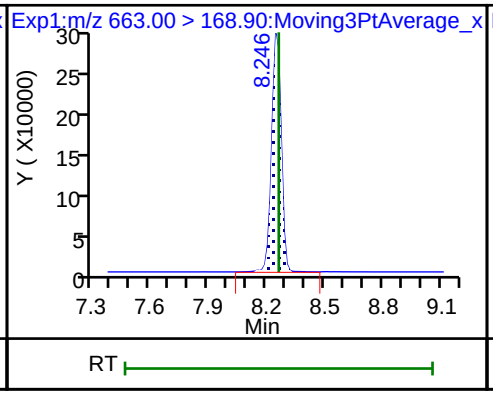
67 PFDS



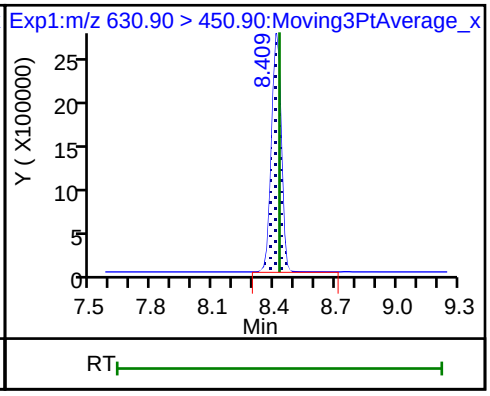
68 PFTrDA



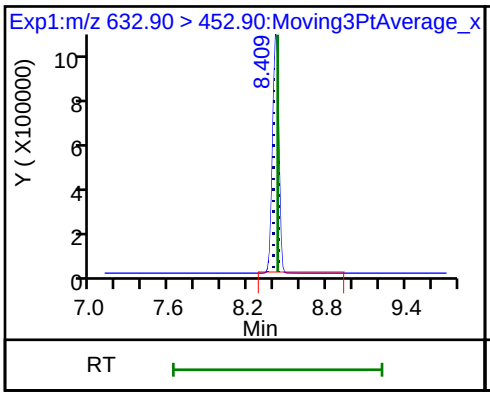
68 PFTrDA



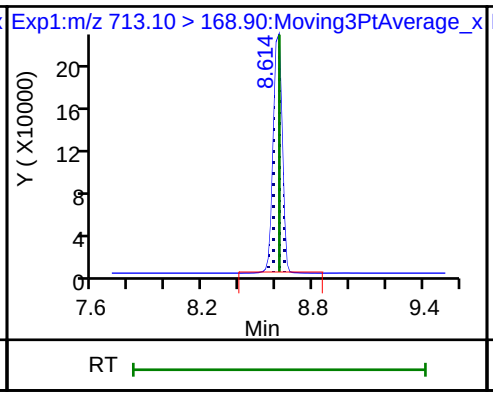
69 11ClFOS



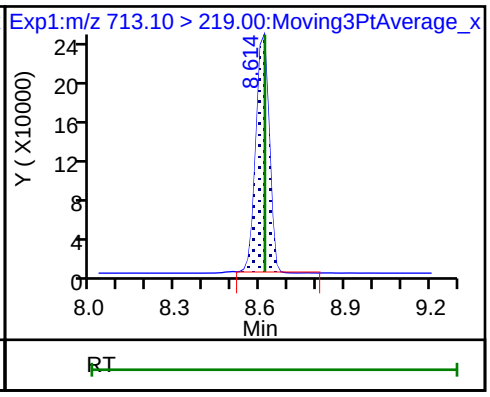
69 11ClFOS



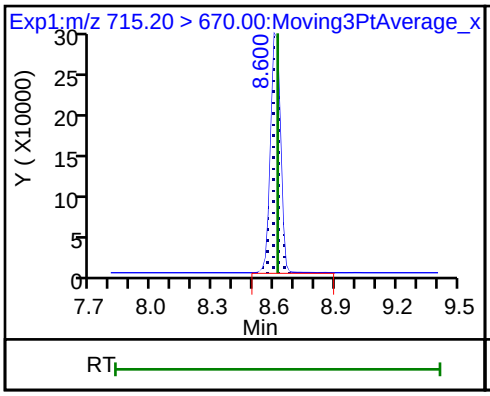
70 PFTeDA



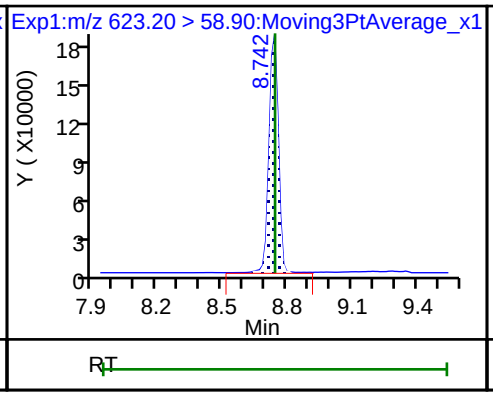
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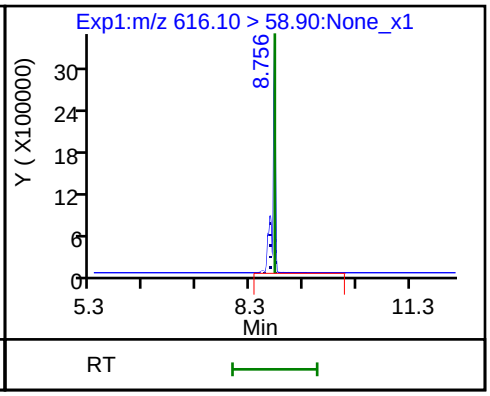
D 71 13C2 PFTeDA



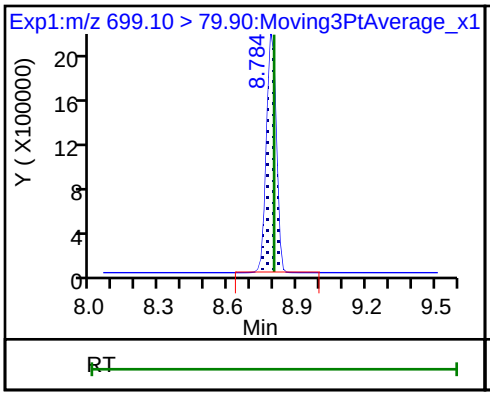
D 72 d7-N-Me-FOSE



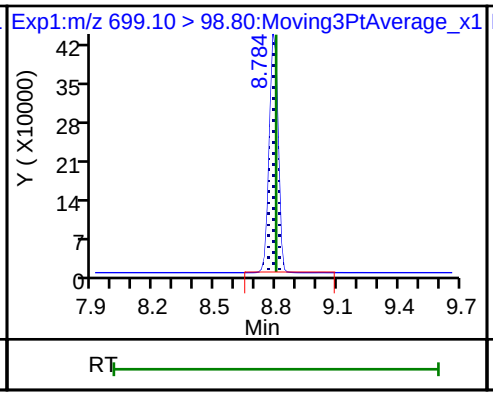
73 N-MeFOSE-M



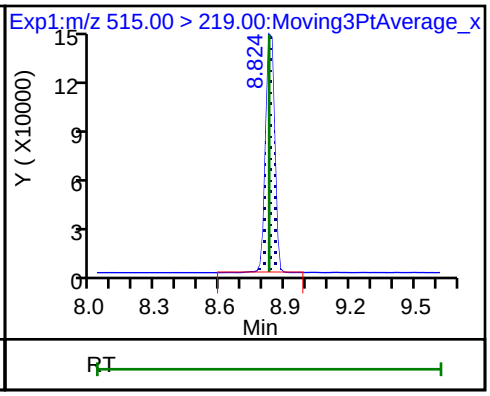
74 PFDoS



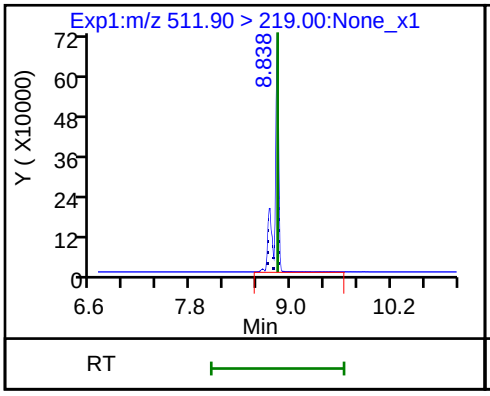
74 PFDoS



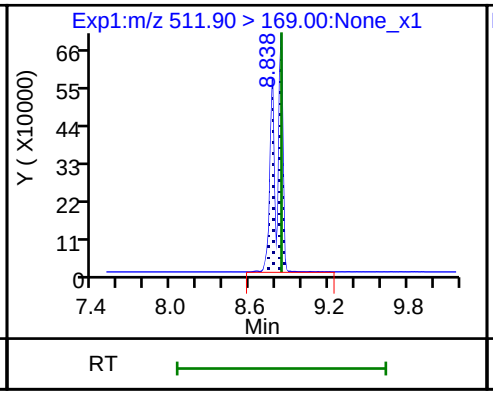
D 75 d3-NMePFOSA



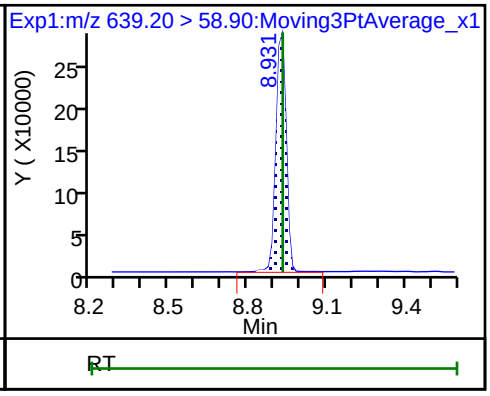
76 NMeFOSA



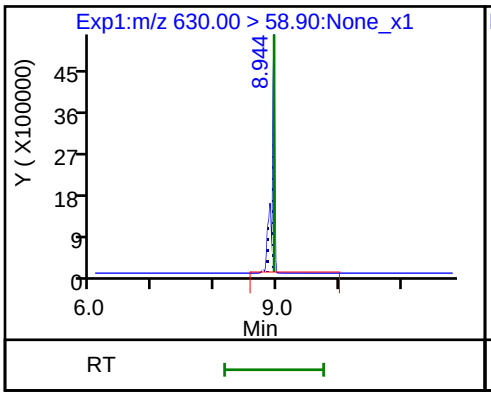
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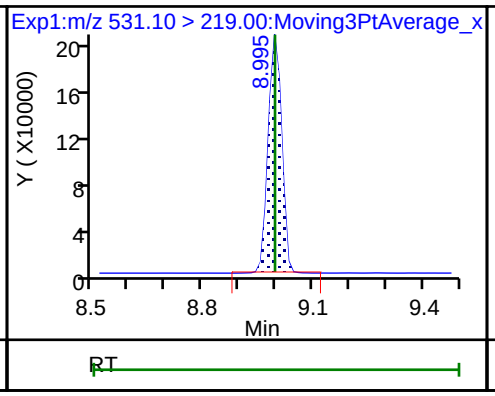
D 77 d9-N-EtFOSE



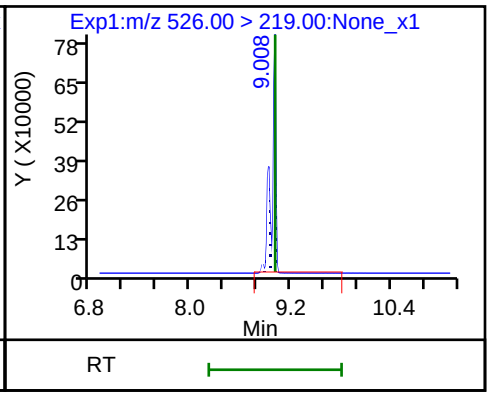
78 N-EtFOSE-M



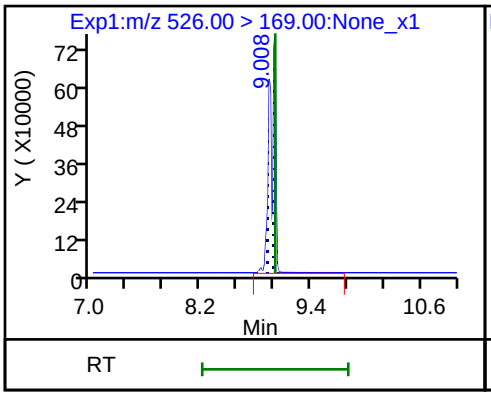
D 79 d5-NEtPFOSA



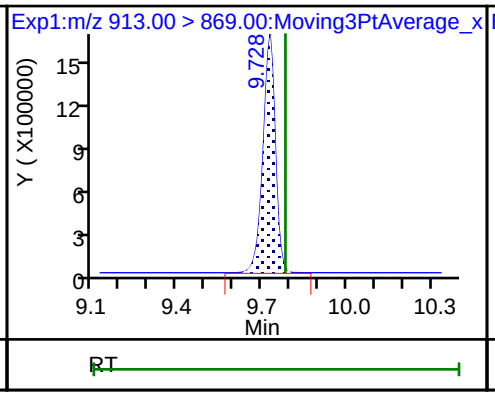
80 N-EtFOSA-M



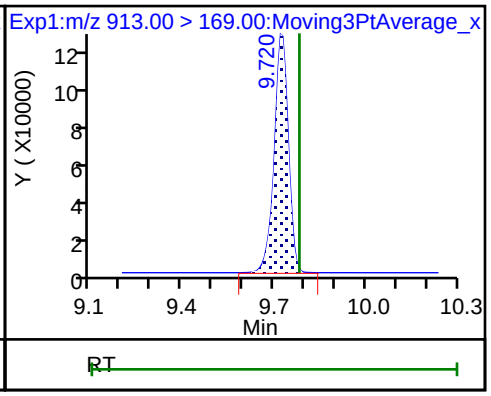
80 N-EtFOSA-M



81 Perfluorooctadecanoic acid



81 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d
Lims ID: IC CAL 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 29-Jan-2026 02:14:05 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL8
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub14

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 12:08:45 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1631

First Level Reviewer: M4QQ Date: 29-Jan-2026 06:47:18
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 13C3PFPrA										
166.00 > 121.00	2.025	2.008	0.017	0.483	1203230	2.85		143	577	
3 PFBA										
212.80 > 168.90	4.177	4.179	-0.002	0.998	45866326	98.7		98.7	162720	
D 4 13C4-PFBA										
216.80 > 171.90	4.185	4.187	-0.002	0.998	1015981	2.00		99.8	4677	
* 5 13C3PFBA										
216.00 > 172.00	4.193	4.187	0.006		973952	2.00			343	
D 8 13C5 PFPeA										
268.30 > 223.00	4.848	4.842	0.006	0.913	715904	1.89		94.5	3589	
9 PFPA										
263.00 > 219.00	4.848	4.850	-0.002	1.000	32396165	48.7		97.4	9622	
D 12 13C2-4:2FTS										
329.10 > 80.90	5.122	5.123	-0.001	0.800	546526	5.89		126	2578	
D 15 13C5 PFHxA										
318.00 > 273.00	5.310	5.312	-0.002	1.000	1476564	1.98		99.2	8001	
* 16 13C2 PFHxA										
315.10 > 270.00	5.310	5.312	-0.002		3256268	5.00			13261	
17 PFHxA										
313.00 > 269.00	5.310	5.312	-0.002	1.000	29322257	46.0	Target=11.34	92.0	7954	
313.00 > 118.90	5.310	5.312	-0.002	1.000	2438060		12.03(5.67-17.02)	92.0	5777	
D 20 13C3 PFBS										
302.10 > 79.90	5.464	5.454	0.010	0.854	1176202	1.72		92.1	4714	
21 PFBS										
298.70 > 79.90	5.464	5.454	0.010	1.000	29114425	43.8	Target=3.25	98.7	32081	
298.70 > 98.80	5.464	5.454	0.010	1.000	8688108		3.35(1.62-4.87)	98.7	20506	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.505	5.495	0.010	1.037	1354887	2.10		105	6014	
23 HFPO-DA										
284.90 > 168.90	5.505	5.495	0.010	1.000	32591573	48.3	Target=2.31	96.6	4733	
284.90 > 184.90	5.505	5.495	0.010	1.000	13536442		2.41(1.15-3.46)	96.6	15161	
27 PFHpA										
363.10 > 319.00	5.750	5.740	0.010	1.000	31064740	52.9	Target=2.31	106	6813	
363.10 > 169.00	5.750	5.740	0.010	1.000	12151149		2.56(1.16-3.47)	106	13517	
D 28 13C4 PFHpA										
367.10 > 322.00	5.750	5.740	0.010	1.083	1396598	1.90		95.1	4942	
29 ADONA										
376.90 > 250.90	5.903	5.892	0.011	1.072	50707966	31.4	Target=1.98	88.6	36693	
376.90 > 84.80	5.903	5.892	0.011	1.072	27383476		1.85(0.99-2.97)	88.6	22115	
D 30 13C2-6:2FTS										
429.10 > 80.90	5.947	5.936	0.011	0.929	315264	4.13		86.7	1383	
32 PFPeS										
349.10 > 79.90	5.947	5.951	-0.004	0.929	29903149	44.1	Target=3.31	93.9	34178	
349.10 > 98.90	5.947	5.951	-0.004	0.929	9013564		3.32(1.65-4.96)	93.9	12512	
34 PFOA										
413.00 > 369.00	6.169	6.160	0.009	1.002	29614661	51.6	Target=1.89	103	26061	
413.00 > 169.00	6.156	6.160	-0.004	1.000	15346771		1.93(0.95-2.84)	103	11003	
D 35 13C8 PFOA										
421.10 > 376.00	6.156	6.160	-0.004	1.000	1802094	1.91		95.4	5848	
* 36 13C4 PFOA										
417.10 > 372.00	6.156	6.160	-0.004		4723169	5.00			9972	
39 PFHxS										
398.70 > 79.90	6.399	6.404	-0.005	1.000	23497972	44.7	Target=3.47	98.0	37313	
398.70 > 98.90	6.399	6.404	-0.005	1.000	6733232		3.49(1.73-5.20)	98.0	11830	
* 40 18O2 PFHxS										
403.00 > 83.90	6.399	6.404	-0.005		1153753	1.90			3741	
D 38 13C3 PFHxS										
402.10 > 79.90	6.399	6.404	-0.005	1.000	1154396	1.85		97.5	4030	
D 41 13C9 PFNA										
472.10 > 427.00	6.577	6.568	0.009	1.000	1437393	2.05		103	3982	
42 PFNA										
463.00 > 419.00	6.577	6.568	0.009	1.000	31906707	45.9	Target=2.73	91.8	9751	
463.00 > 219.00	6.577	6.568	0.009	1.000	12252889		2.60(1.37-4.09)	91.8	18396	
* 43 13C5 PFNA										
468.00 > 423.00	6.577	6.581	-0.004		1494069	2.00			4503	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.767	6.758	0.009	1.057	437817	6.01		125	1732	
48 PFHpS										
449.00 > 79.90	6.853	6.845	0.008	0.941	28230149	47.2	Target=4.28	99.1	8957	
449.00 > 98.80	6.853	6.845	0.008	0.941	6671411		4.23(2.14-6.42)	99.1	22349	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.926	6.929	-0.003	0.951	921580	6.60		132	1409	
* 51 13C2 PFDA										
515.10 > 470.10	7.008	7.000	0.008		1754816	2.00			10212	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 52 13C6 PFDA										
519.10 > 474.10	7.008	7.000	0.008	1.000	1853982	2.09		105	4328	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.119	7.111	0.008	0.977	741029	6.14		123	1269	
D 56 13C8 PFOS										
507.10 > 79.90	7.286	7.291	-0.005	1.000	905070	1.90		99.1	1932	
* 57 13C4 PFOS										
502.80 > 79.90	7.286	7.291	-0.005		899780	1.92			2640	
58 PFOS										
498.90 > 79.90	7.286	7.291	-0.005	1.000	30928049	46.3	Target=4.89	99.5	25489	
498.90 > 98.80	7.286	7.291	-0.005	1.000	6103179		5.07(2.45-7.34)	99.5	14655	
D 59 13C7 PFUnA										
570.00 > 525.10	7.431	7.435	-0.004	1.060	1753794	1.98		99.2	2562	
D 64 13C2 PFDoA										
615.10 > 570.00	7.855	7.861	-0.006	1.121	1229938	1.97		98.7	3138	
D 65 13C8 FOSA										
506.10 > 77.80	7.964	7.958	0.006	1.093	1387705	2.60		130	6473	
D 71 13C2 PFTeDA										
715.20 > 670.00	8.610	8.616	-0.006	1.229	1005633	1.95		97.3	3558	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.738	8.744	-0.006	1.199	573301	6.80		136	270	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.834	8.826	0.008	1.212	408567	2.71		135	2883	
D 77 d9-N-EtFOSE										
639.20 > 58.90	8.926	8.932	-0.006	1.225	768763	6.87		137	734	
D 79 d5-NEtPFOSA										
531.10 > 219.00	9.004	8.996	0.008	1.236	469734	2.56		128	2818	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL8_00034 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 12:08:47 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Injection Date: 29-Jan-2026 02:14:05 Instrument ID: 30576

Lims ID: IC CAL 8

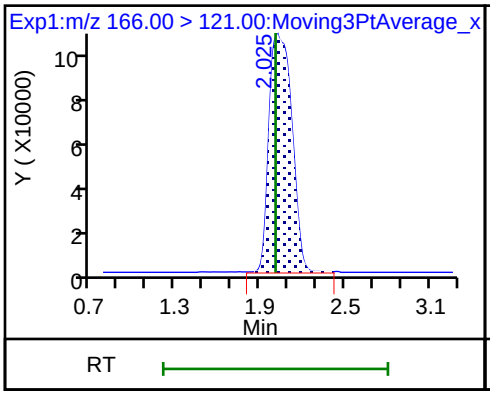
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Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 9 Worklist Smp#: 8

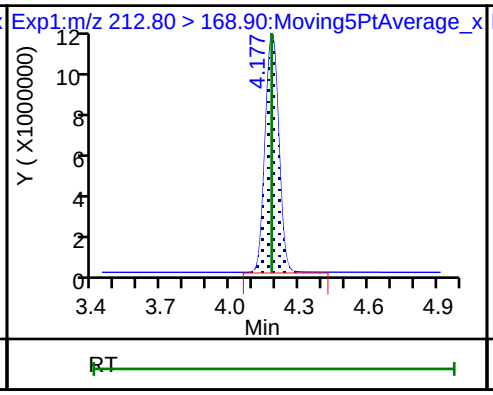
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Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

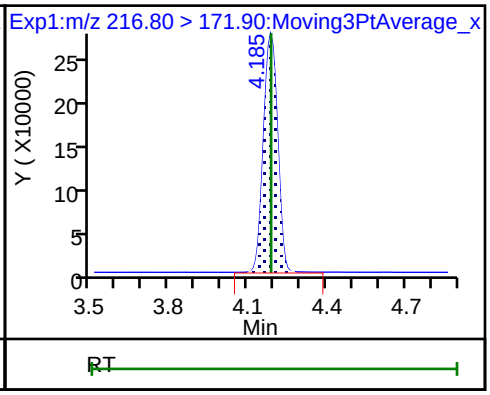
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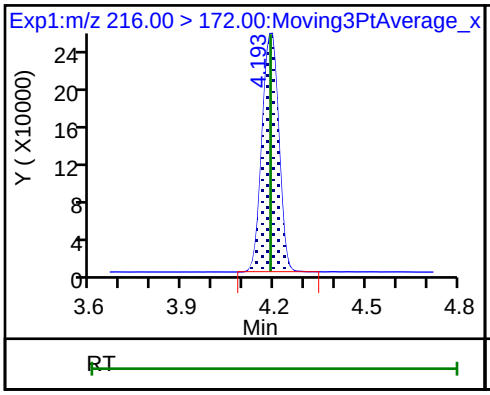
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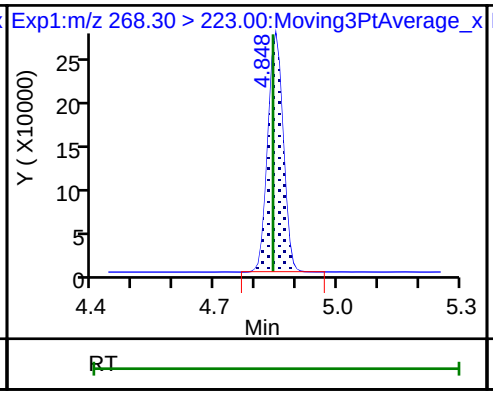
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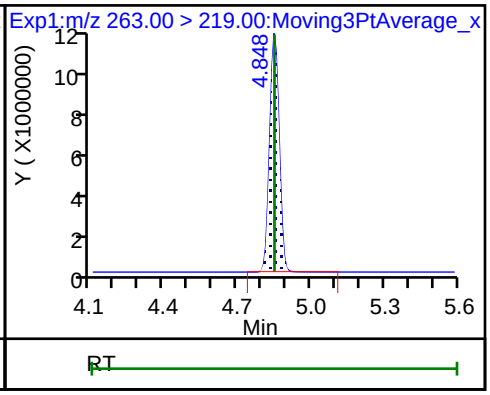
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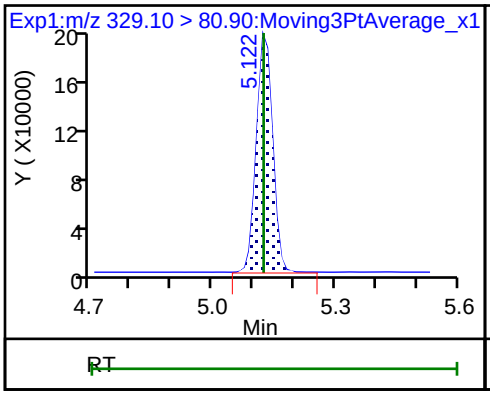
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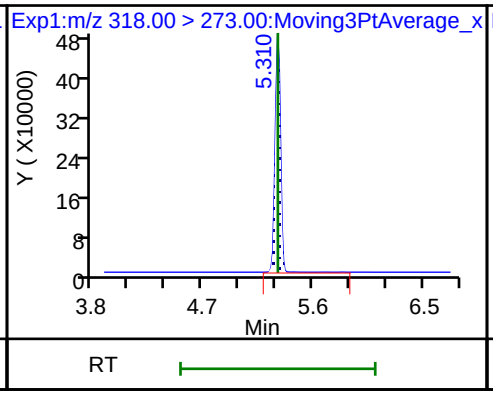
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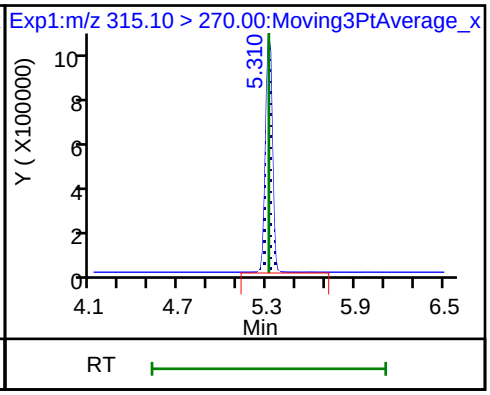
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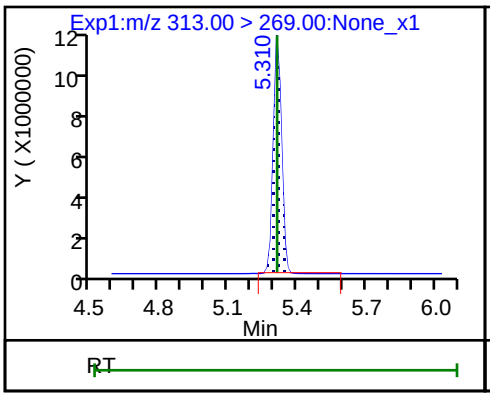
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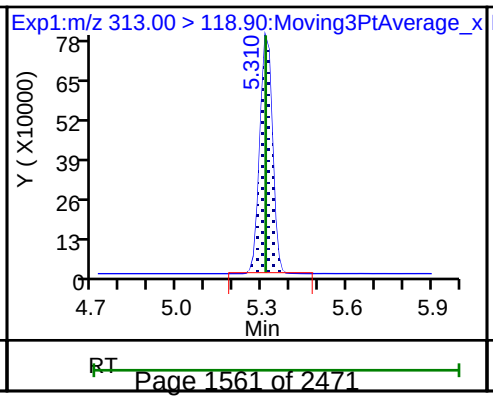
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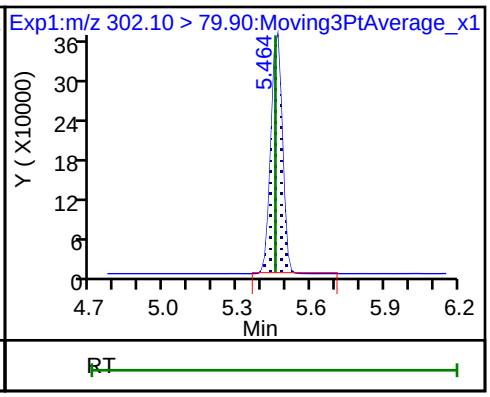
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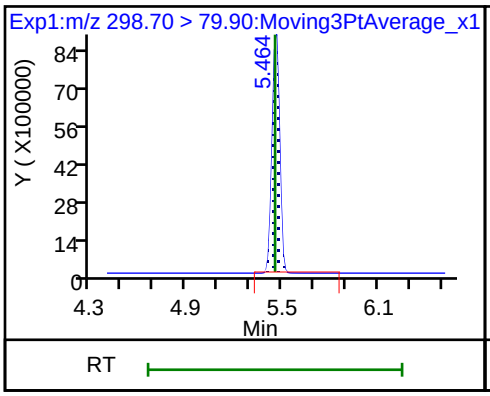
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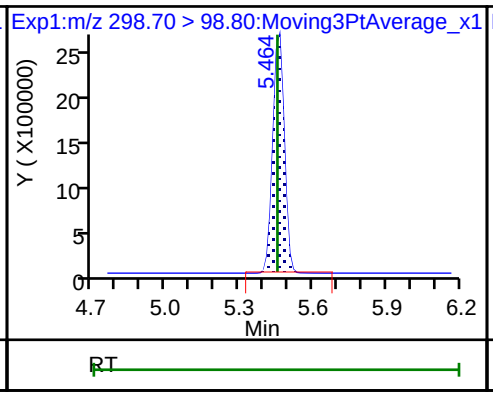
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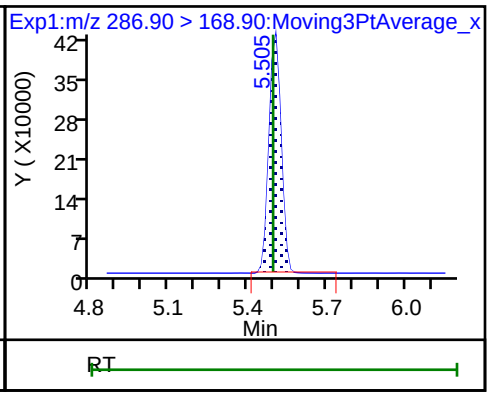
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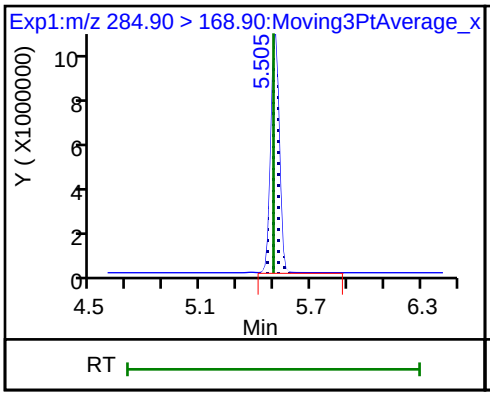
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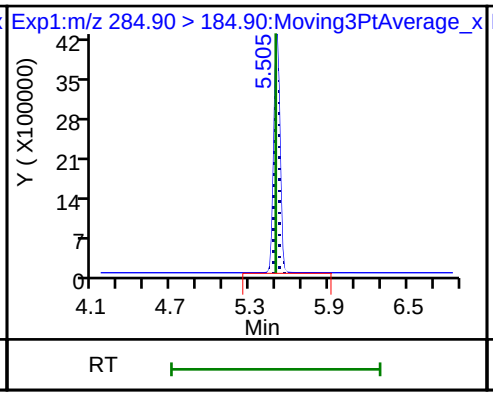
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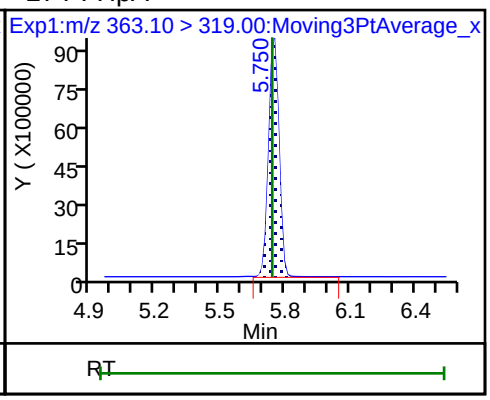
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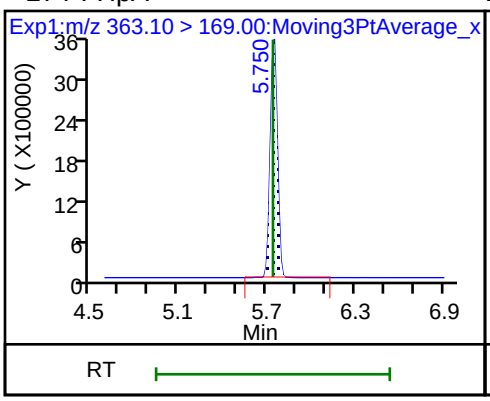
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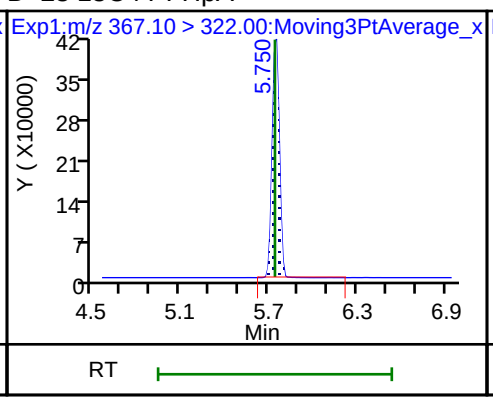
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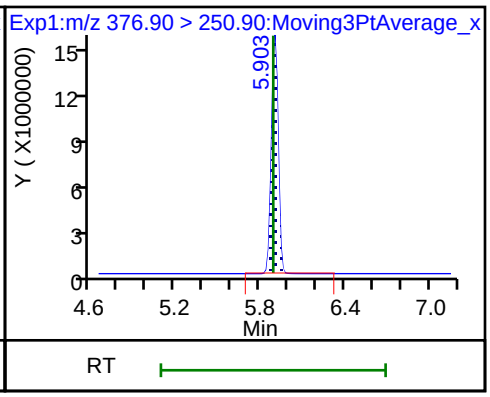
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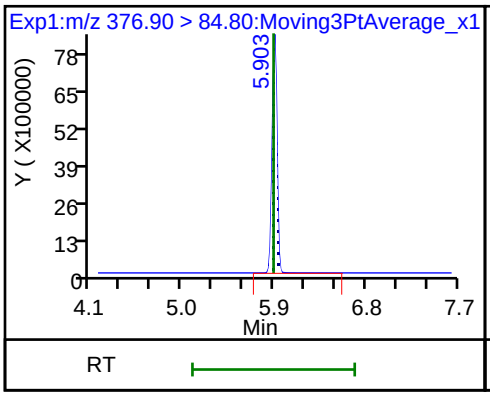
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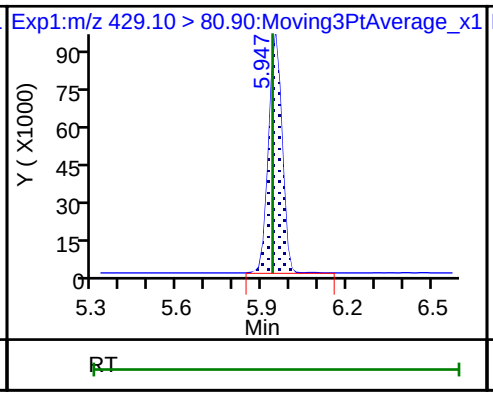
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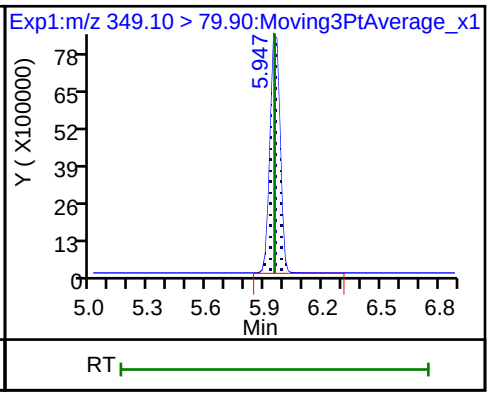
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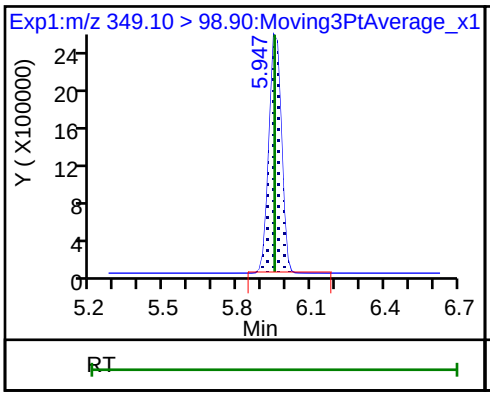
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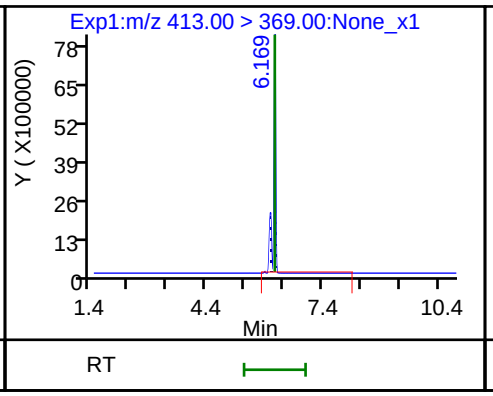
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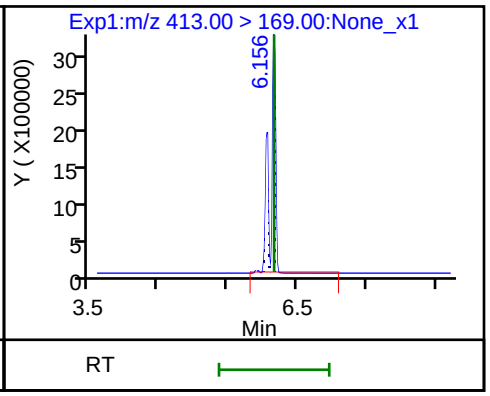
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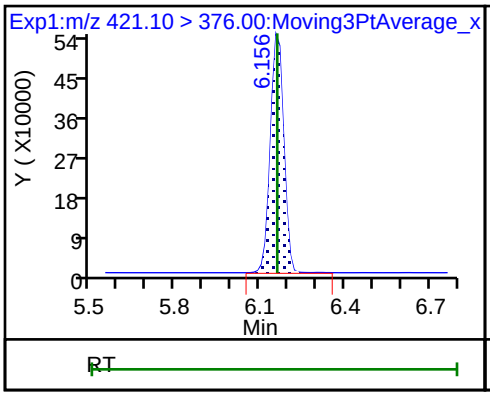
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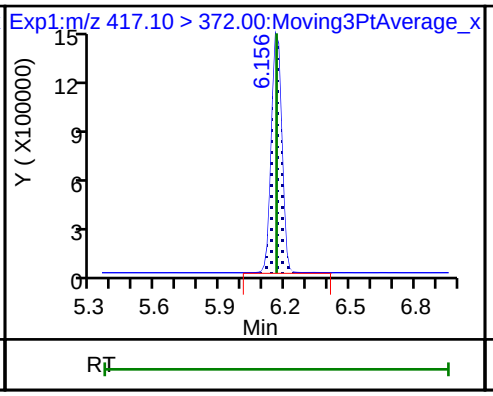
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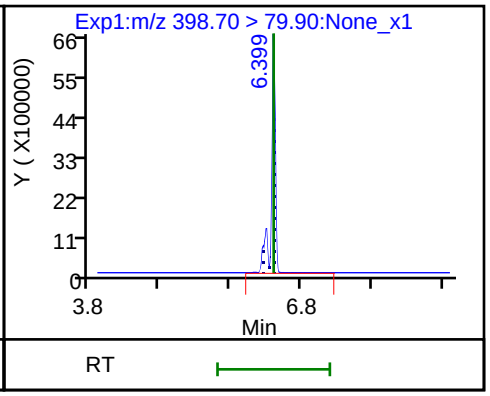
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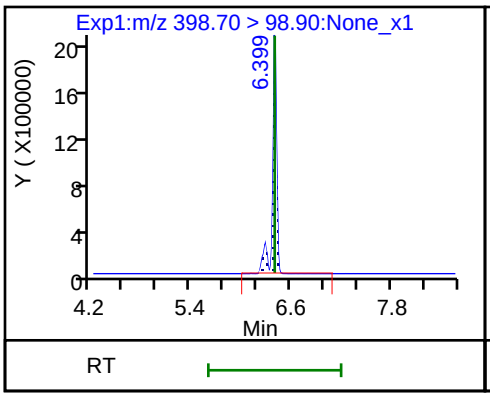
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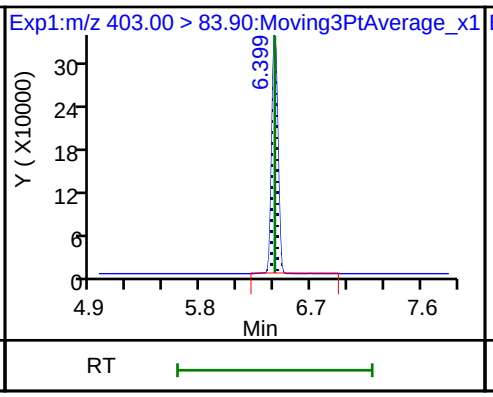
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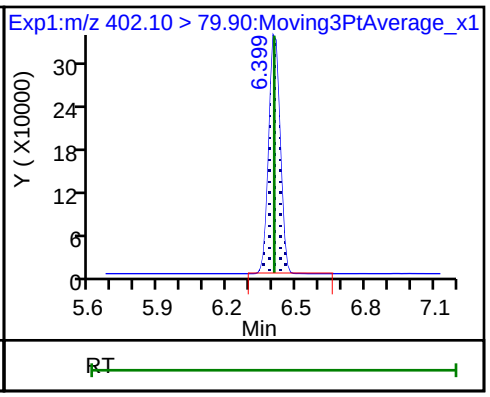
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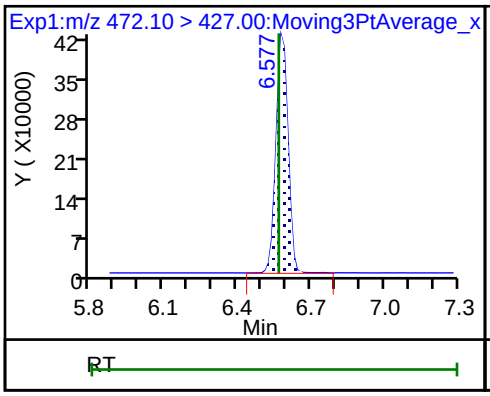
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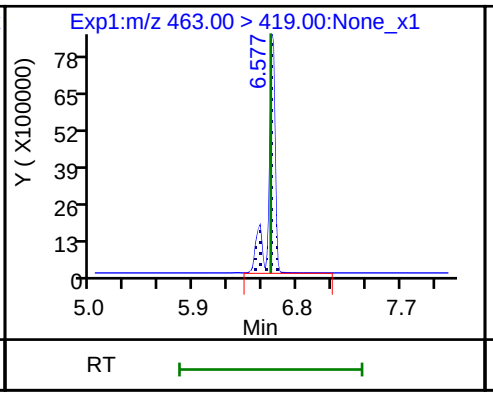
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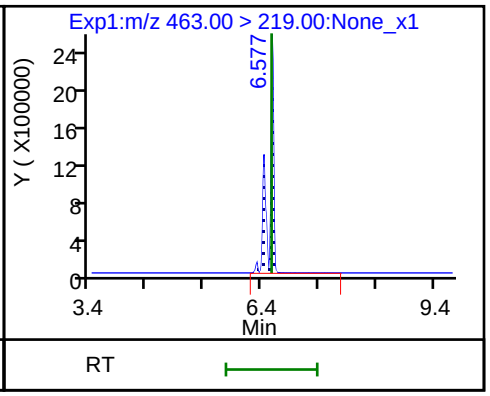
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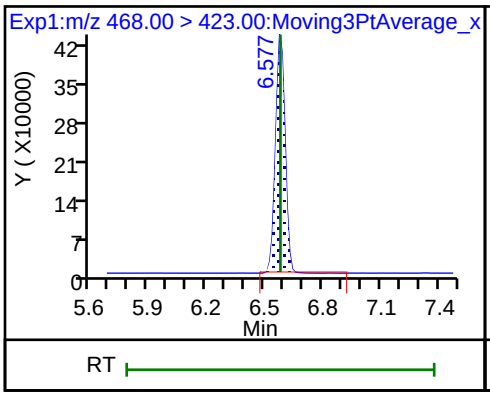
42 PFNA



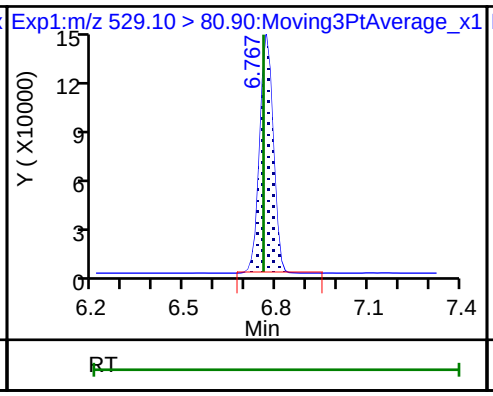
42 PFNA



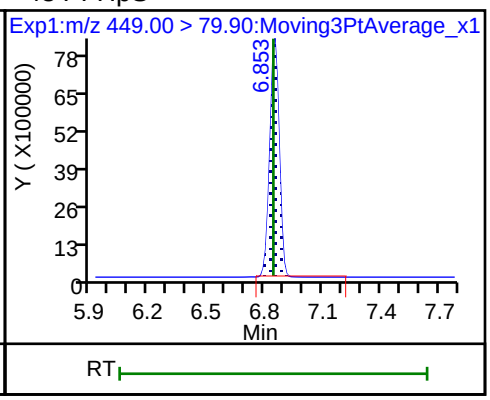
* 43 13C5 PFNA



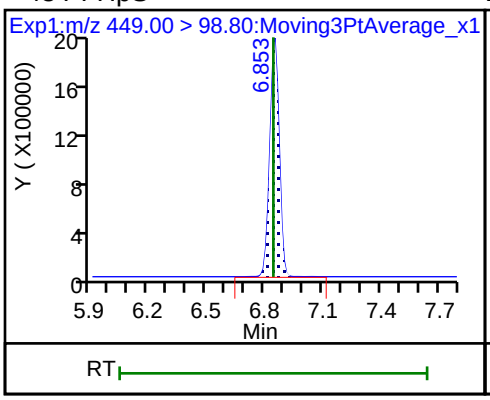
D 44 13C2-8:2FTS



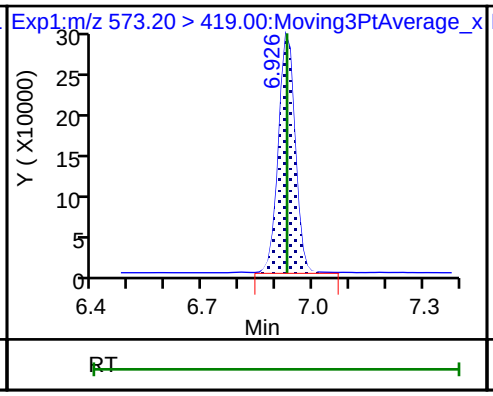
48 PFHpS



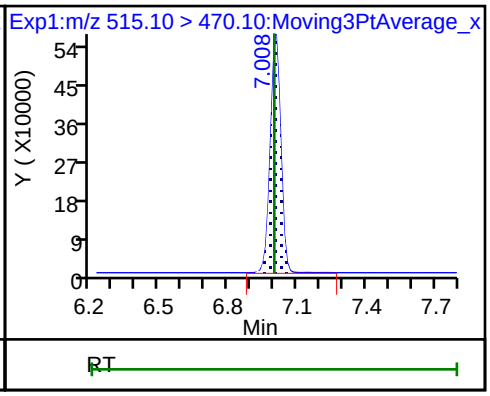
48 PFHpS



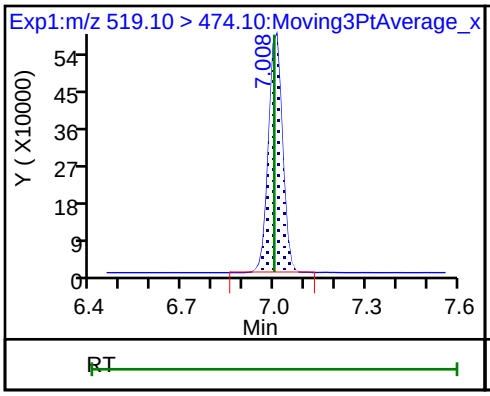
D 49 d3-NMeFOSAA



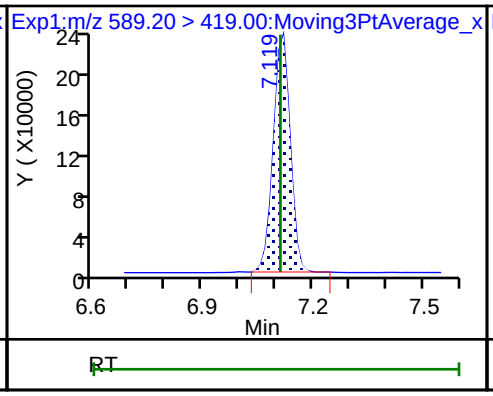
* 51 13C2 PFDA



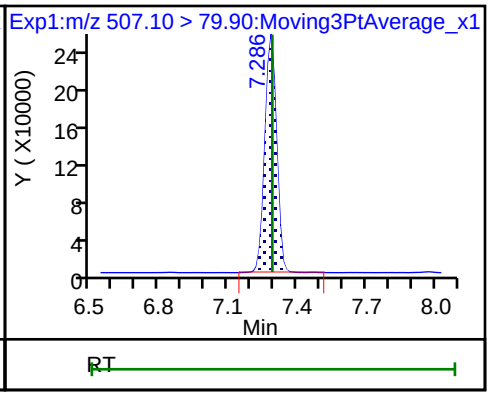
D 52 13C6 PFDA



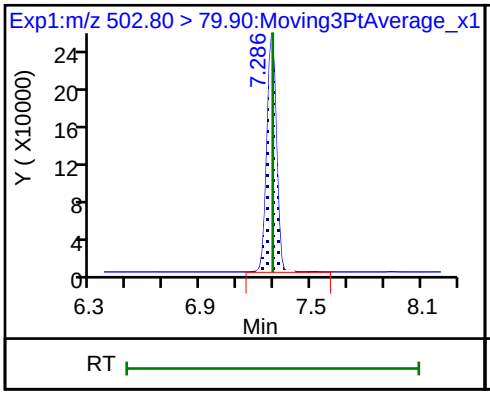
D 54 d5-NEtFOSAA



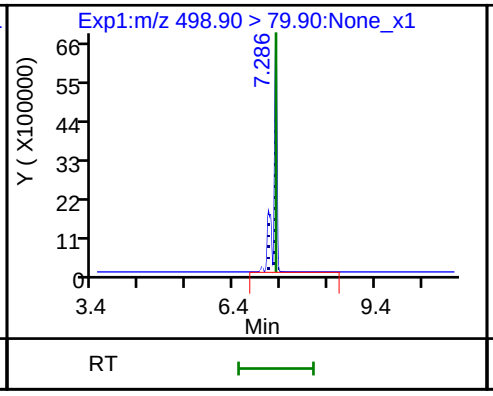
D 56 13C8 PFOS



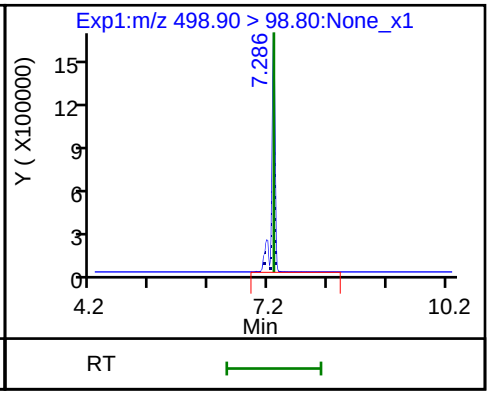
* 57 13C4 PFOS



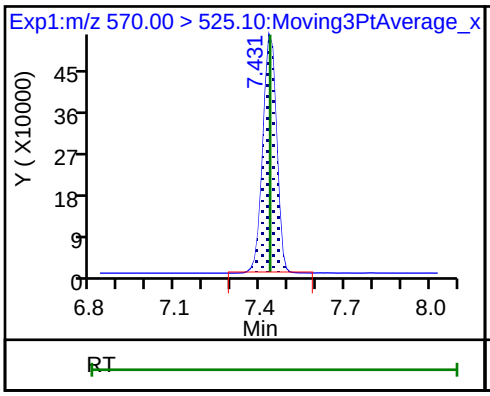
58 PFOS



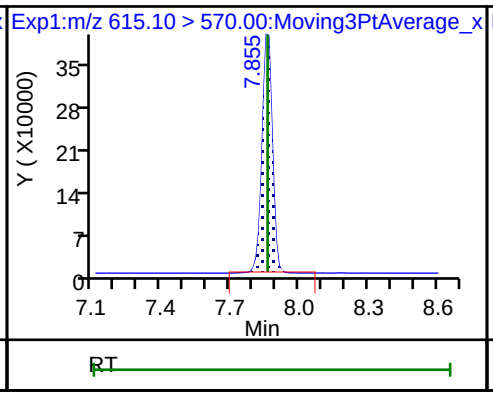
58 PFOS



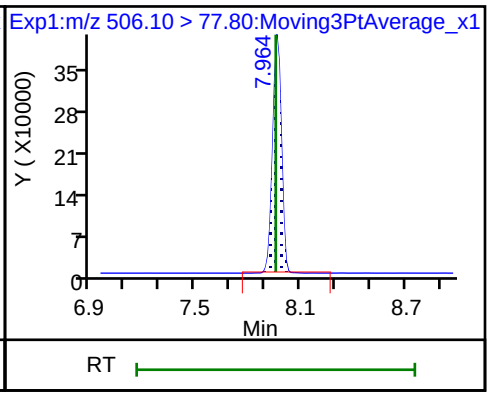
D 59 13C7 PFUnA



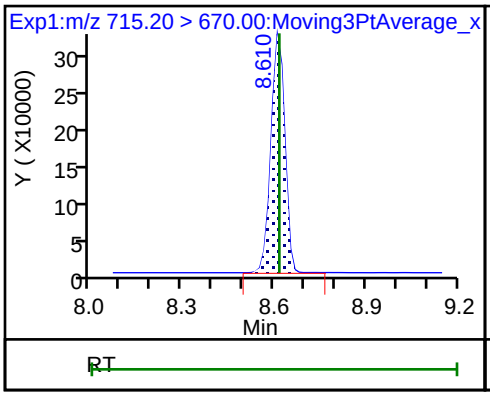
D 64 13C2 PFDoA



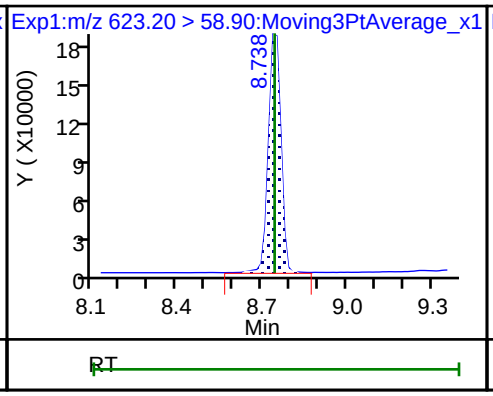
D 65 13C8 FOSA



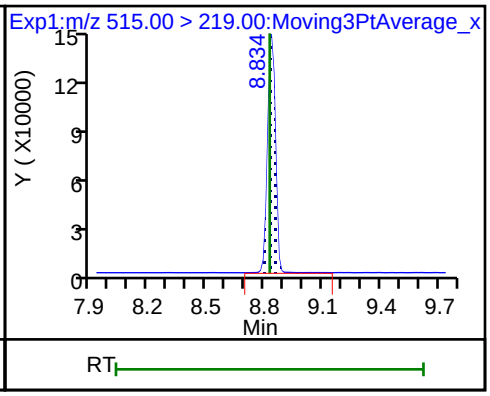
D 71 13C2 PFTeDA



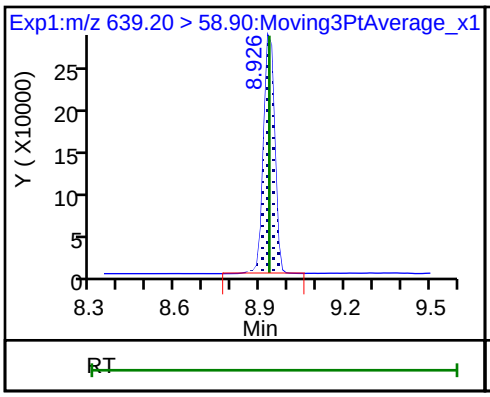
D 72 d7-N-Me-FOSE



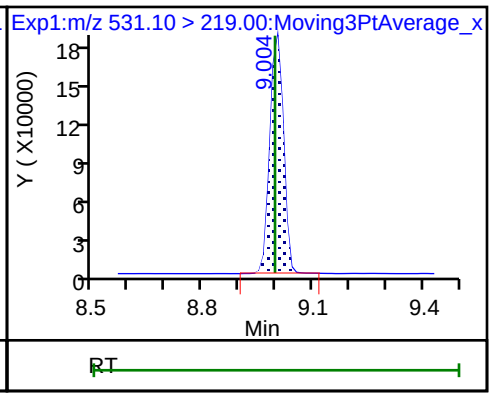
D 75 d3-NMePFOSA



D 77 d9-N-EtFOSE



D 79 d5-NEtPFOSA



Calibration / Perfluoropropionic acid

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

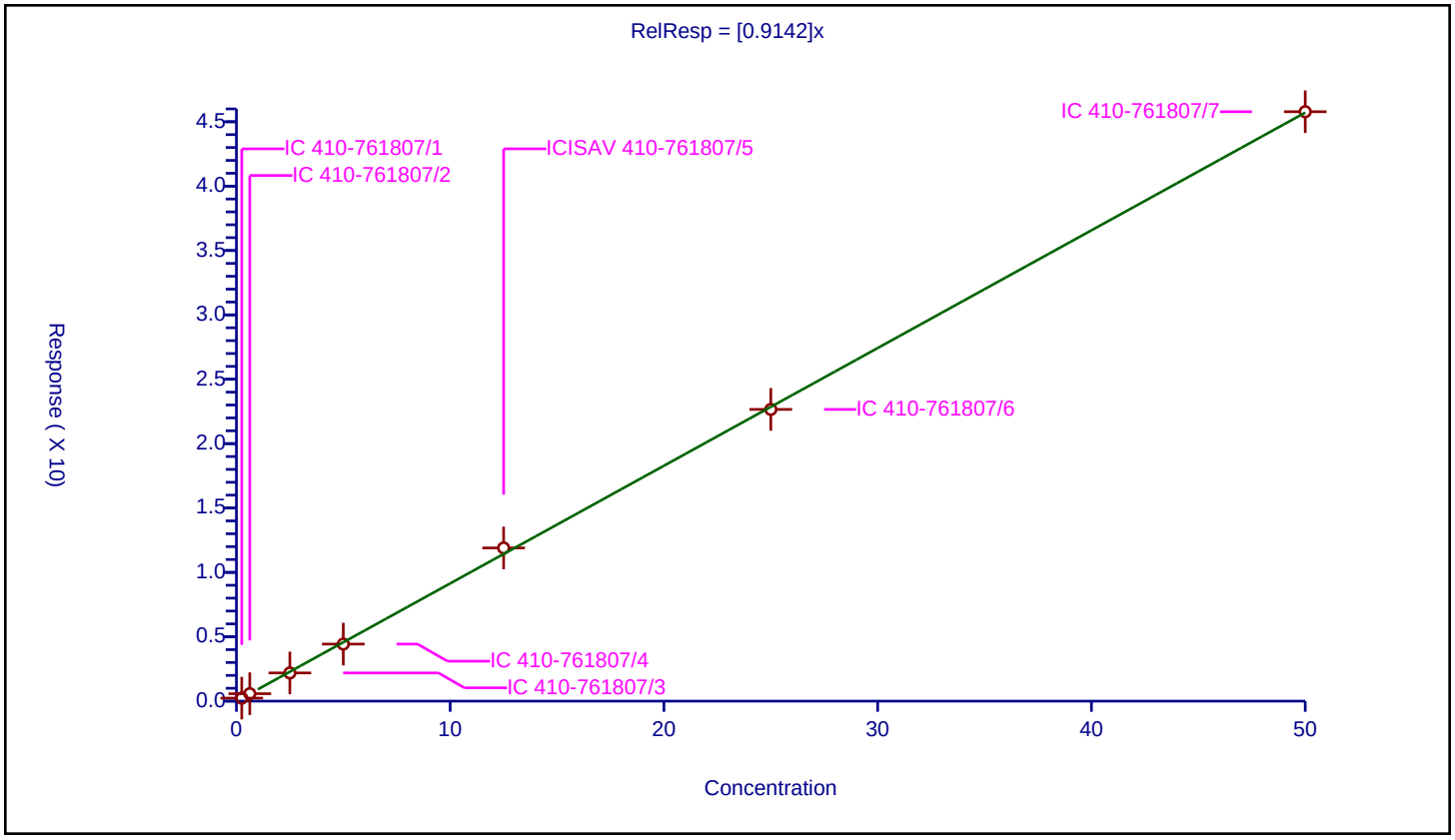
Curve Coefficients

Intercept:	0
Slope:	0.9142

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.25	0.234444	2.0	1198536.0	0.937777	Y
2	IC 410-761807/2	0.625	0.578599	2.0	1212139.0	0.925758	Y
3	IC 410-761807/3	2.5	2.18902	2.0	1152822.0	0.875608	Y
4	IC 410-761807/4	5.0	4.43216	2.0	1233461.0	0.886432	Y
5	ICISAV 410-761807/5	12.5	11.897904	2.0	1132478.0	0.951832	Y
6	IC 410-761807/6	25.0	22.658735	2.0	1134754.0	0.906349	Y
7	IC 410-761807/7	50.0	45.781298	2.0	1116459.0	0.915626	Y



Calibration / Perfluorobutanoic acid

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

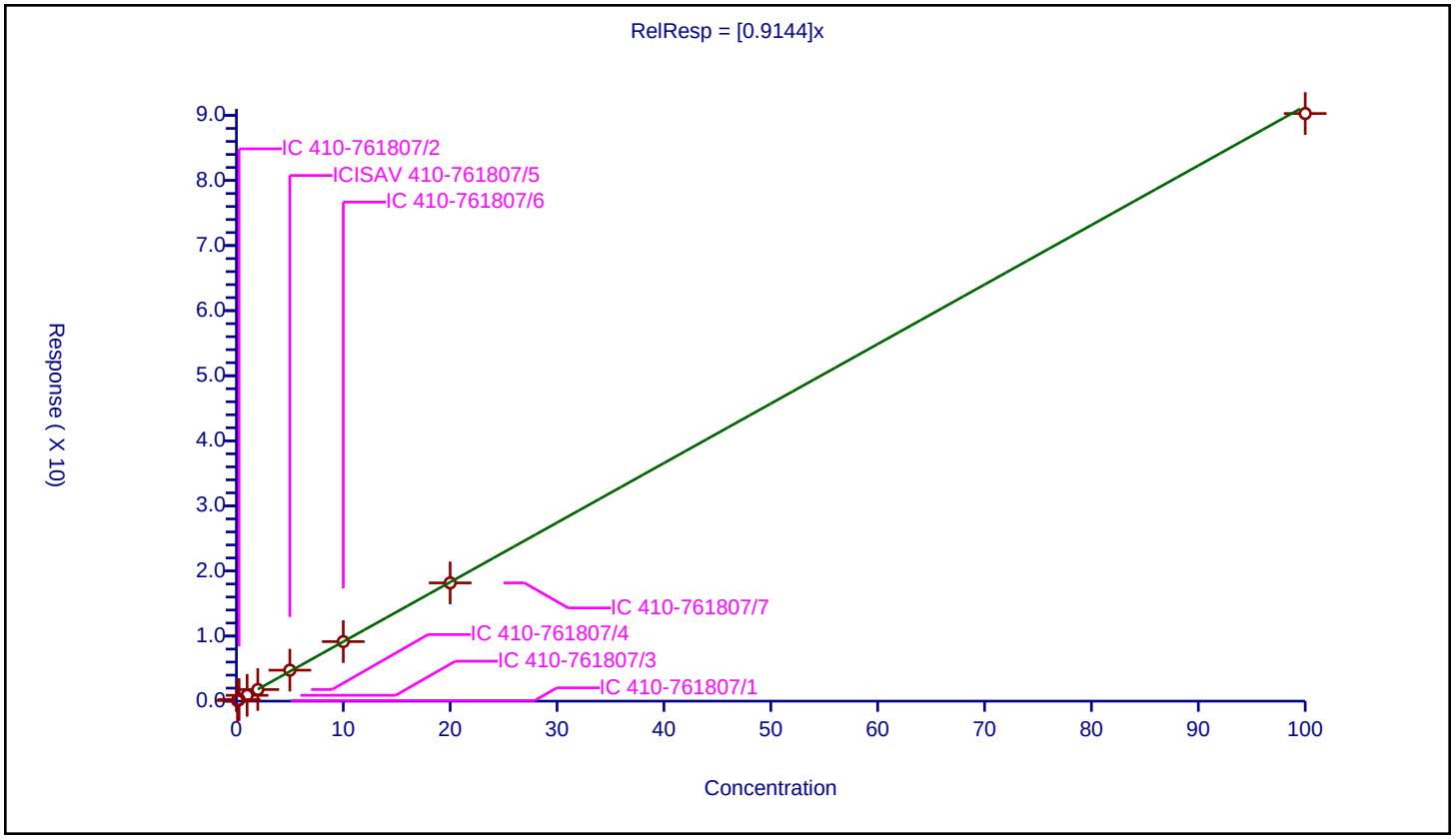
Curve Coefficients

Intercept:	0
Slope:	0.9144

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.1	0.090079	2.0	1447079.0	0.900794	Y
2	IC 410-761807/2	0.25	0.237794	2.0	1441568.0	0.951175	Y
3	IC 410-761807/3	1.0	0.893806	2.0	1395292.0	0.893806	Y
4	IC 410-761807/4	2.0	1.78316	2.0	1487752.0	0.89158	Y
5	ICISAV 410-761807/5	5.0	4.756776	2.0	1378659.0	0.951355	Y
6	IC 410-761807/6	10.0	9.149865	2.0	1363428.0	0.914986	Y
7	IC 410-761807/7	20.0	18.166972	2.0	1364351.0	0.908349	Y
8	IC 410-761807/8	100.0	90.289732	2.0	1015981.0	0.902897	Y



Calibration / 3:3 FTCA

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

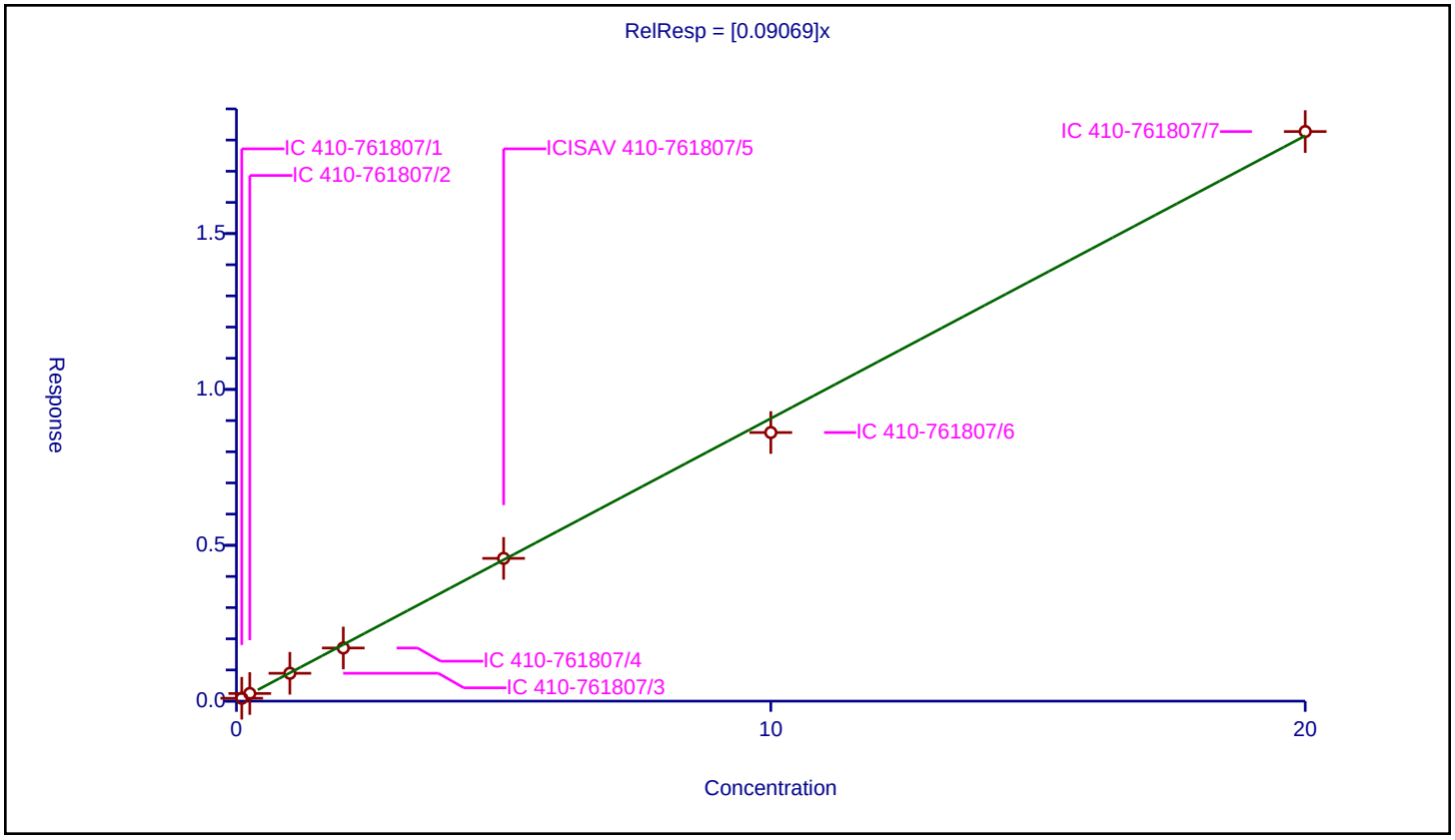
Curve Coefficients

Intercept:	0
Slope:	0.09069

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.1	0.009297	2.0	916200.0	0.092971	Y
2	IC 410-761807/2	0.25	0.024539	2.0	908909.0	0.098157	Y
3	IC 410-761807/3	1.0	0.089302	2.0	878349.0	0.089302	Y
4	IC 410-761807/4	2.0	0.170503	2.0	912018.0	0.085252	Y
5	ICISAV 410-761807/5	5.0	0.457999	2.0	882046.0	0.0916	Y
6	IC 410-761807/6	10.0	0.861743	2.0	862503.0	0.086174	Y
7	IC 410-761807/7	20.0	1.827274	2.0	852772.0	0.091364	Y



Calibration / Perfluoro-3-methoxypropanoic acid

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

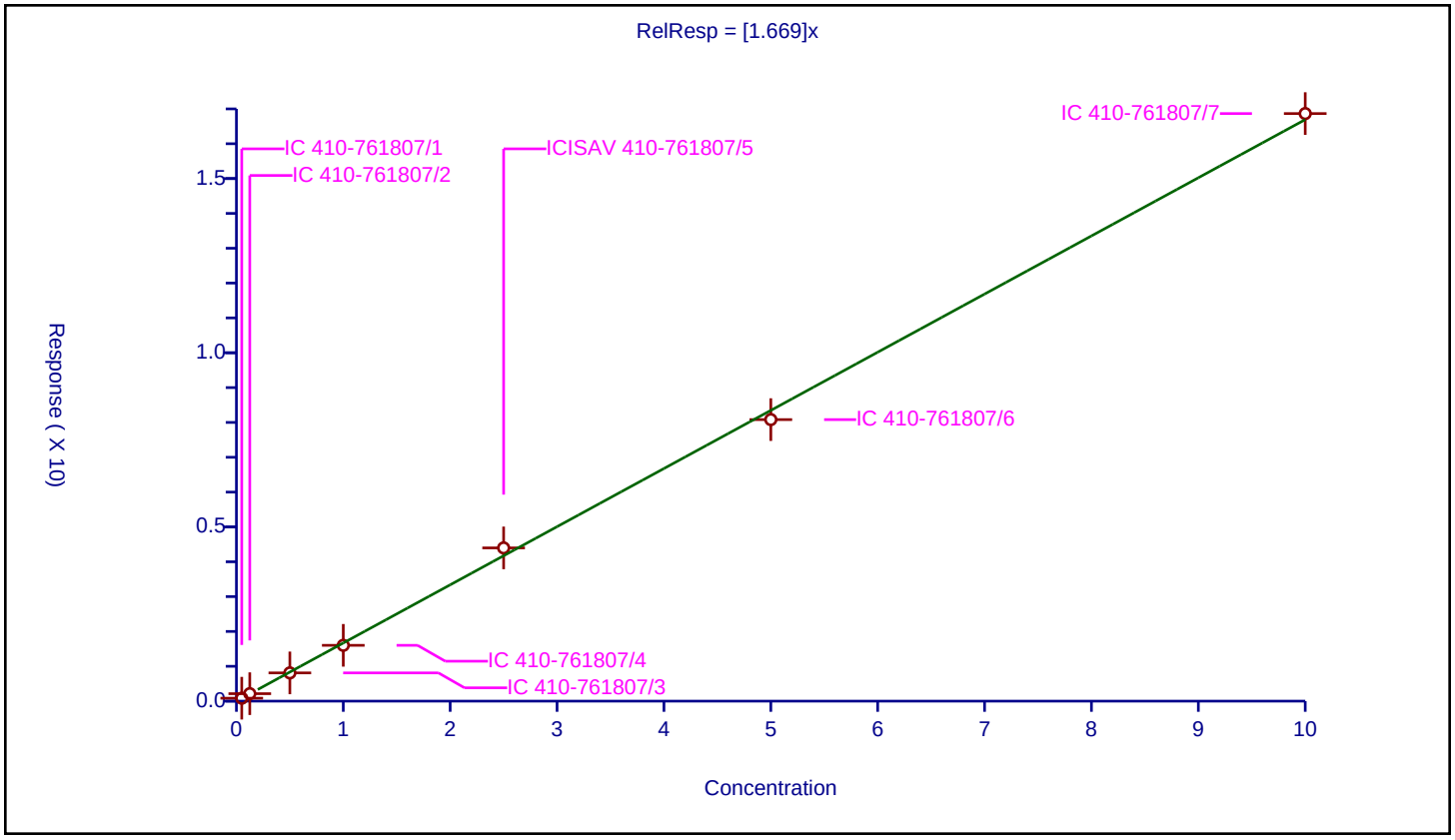
Curve Coefficients

Intercept:	0
Slope:	1.669

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.084226	2.0	916200.0	1.684523	Y
2	IC 410-761807/2	0.125	0.214189	2.0	908909.0	1.713509	Y
3	IC 410-761807/3	0.5	0.811008	2.0	878349.0	1.622016	Y
4	IC 410-761807/4	1.0	1.602317	2.0	912018.0	1.602317	Y
5	ICISAV 410-761807/5	2.5	4.398471	2.0	882046.0	1.759389	Y
6	IC 410-761807/6	5.0	8.081368	2.0	862503.0	1.616274	Y
7	IC 410-761807/7	10.0	16.865174	2.0	852772.0	1.686517	Y



Calibration / Perfluoropentanoic acid

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

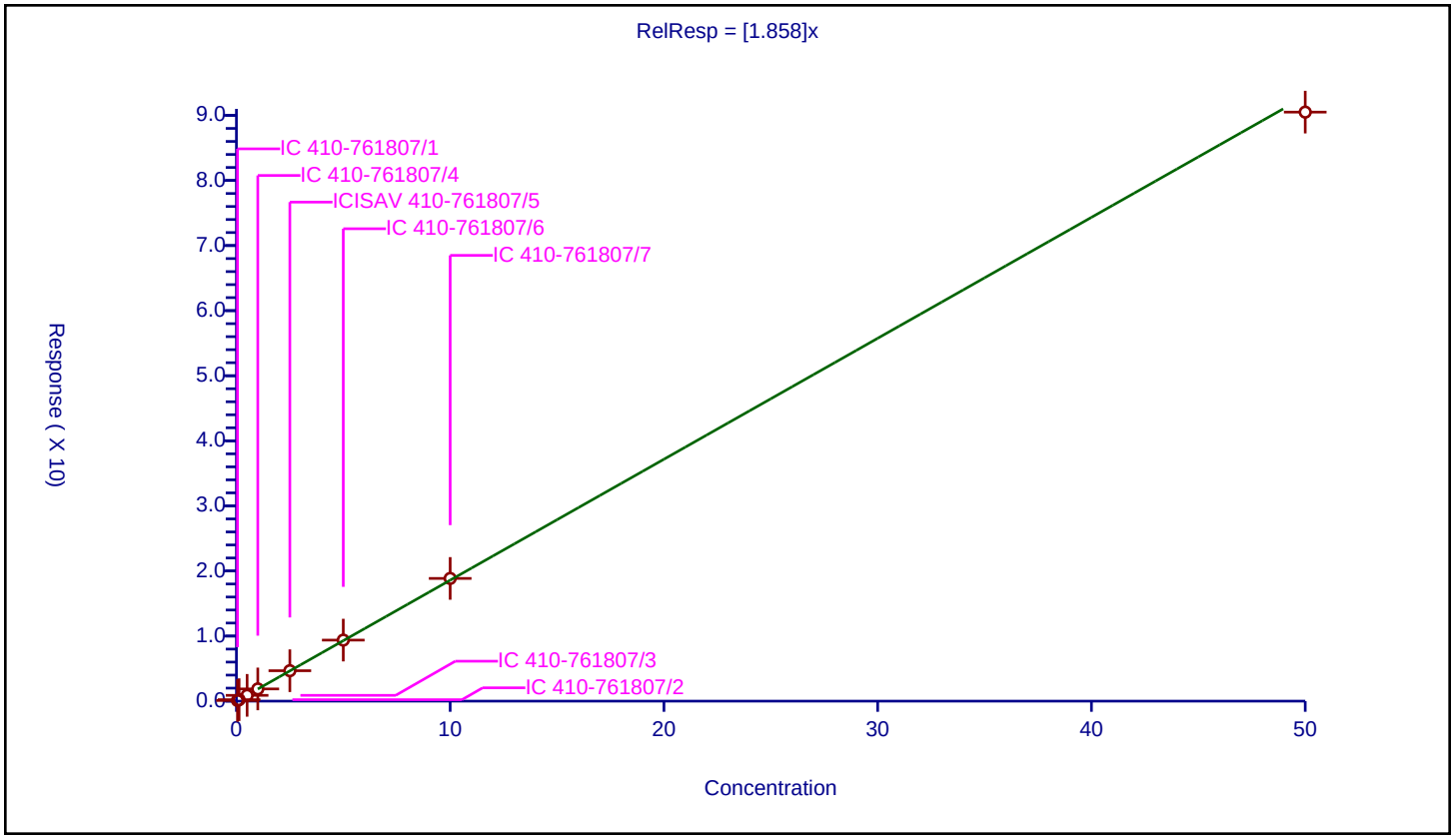
Curve Coefficients

Intercept:	0
Slope:	1.858

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.09907	2.0	916200.0	1.981401	Y
2	IC 410-761807/2	0.125	0.223505	2.0	908909.0	1.788043	Y
3	IC 410-761807/3	0.5	0.888945	2.0	878349.0	1.77789	Y
4	IC 410-761807/4	1.0	1.877538	2.0	912018.0	1.877538	Y
5	ICISAV 410-761807/5	2.5	4.676083	2.0	882046.0	1.870433	Y
6	IC 410-761807/6	5.0	9.378583	2.0	862503.0	1.875717	Y
7	IC 410-761807/7	10.0	18.85686	2.0	852772.0	1.885686	Y
8	IC 410-761807/8	50.0	90.504216	2.0	715904.0	1.810084	Y



Calibration / Perfluoro(4-methoxybutanoic acid)

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

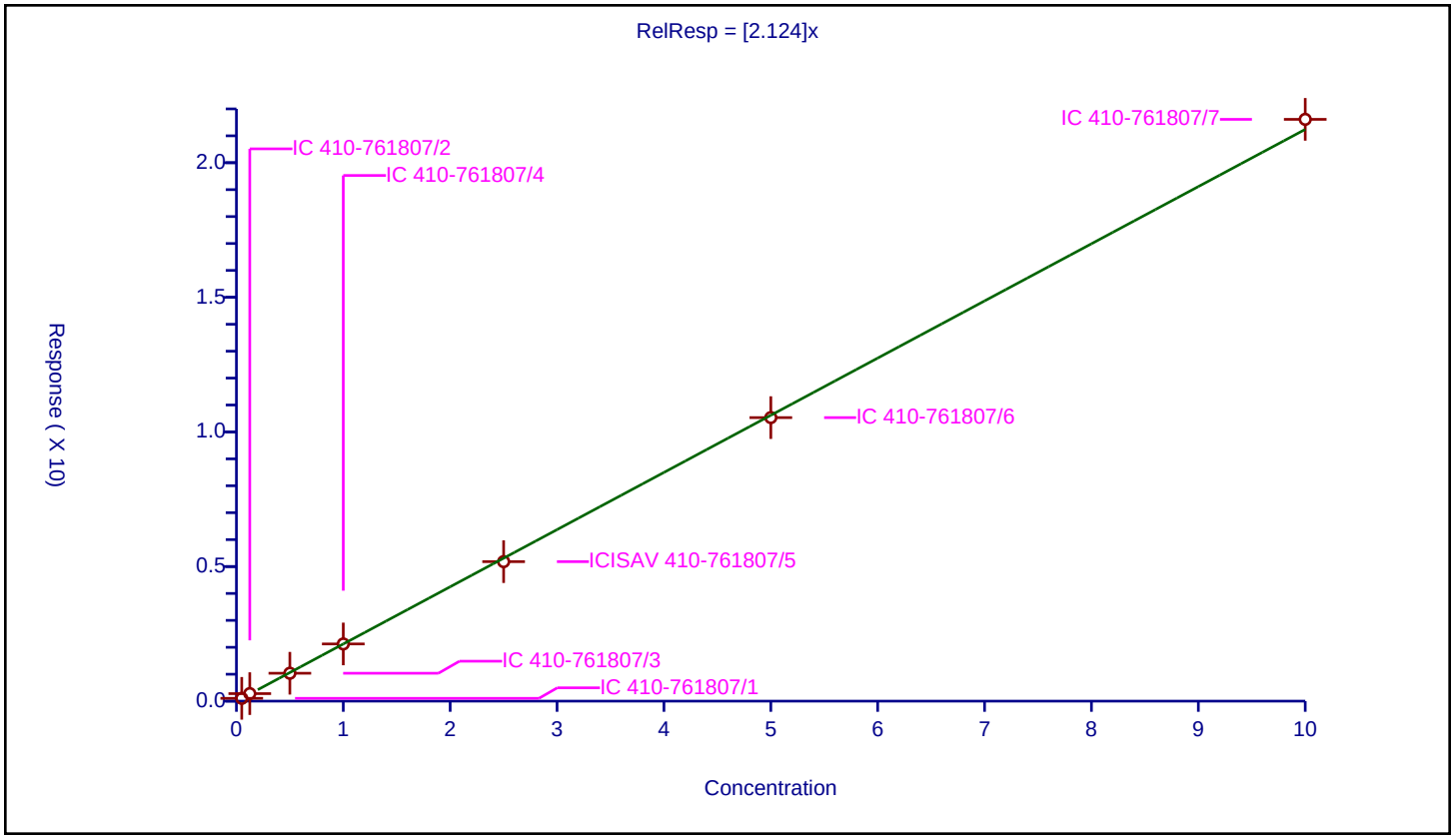
Curve Coefficients

Intercept:	0
Slope:	2.124

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.104556	2.0	916200.0	2.091115	Y
2	IC 410-761807/2	0.125	0.279771	2.0	908909.0	2.238165	Y
3	IC 410-761807/3	0.5	1.036337	2.0	878349.0	2.072675	Y
4	IC 410-761807/4	1.0	2.124263	2.0	912018.0	2.124263	Y
5	ICISAV 410-761807/5	2.5	5.181709	2.0	882046.0	2.072684	Y
6	IC 410-761807/6	5.0	10.532281	2.0	862503.0	2.106456	Y
7	IC 410-761807/7	10.0	21.610928	2.0	852772.0	2.161093	Y



Calibration / 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

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

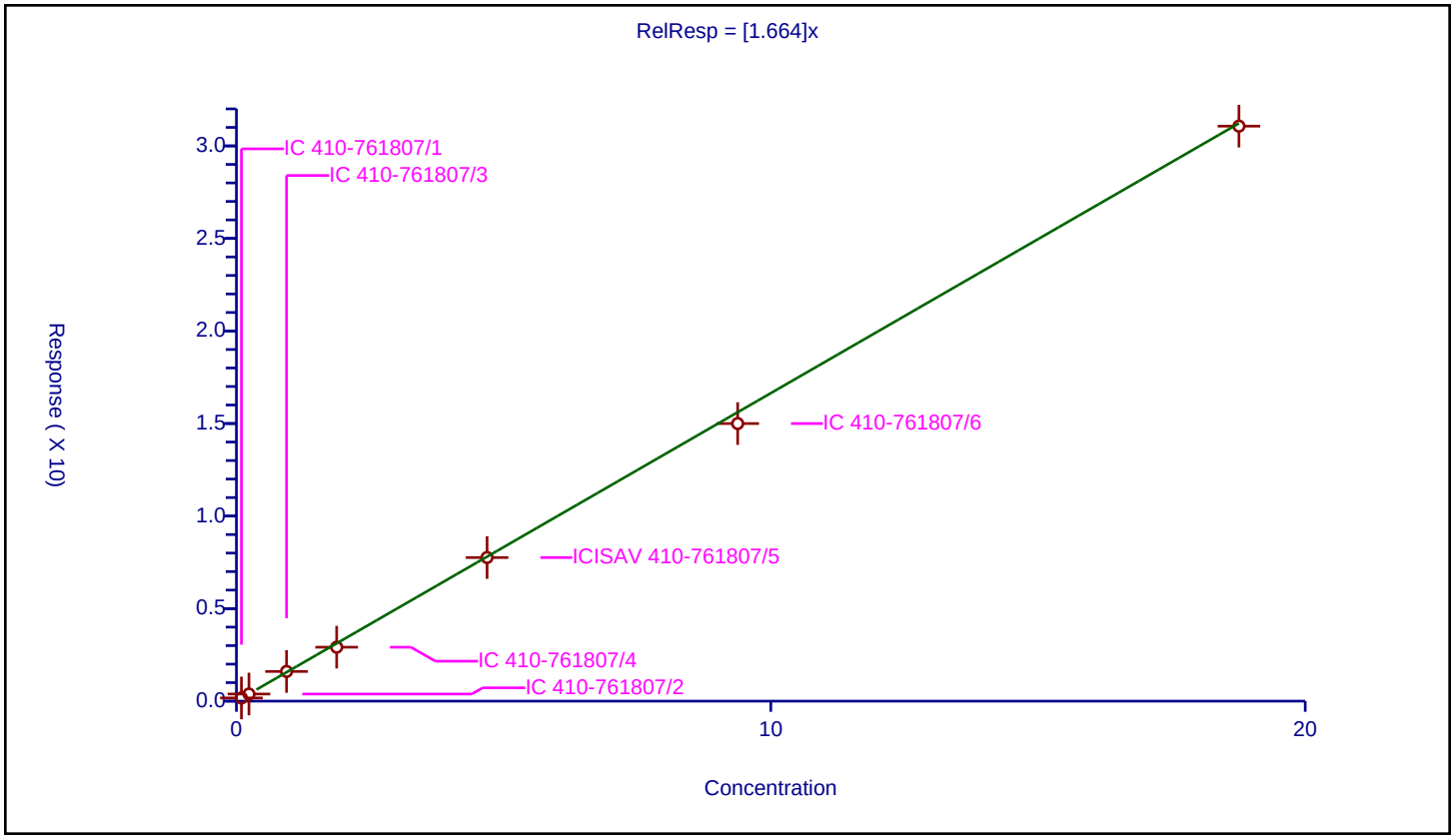
Curve Coefficients

Intercept:	0
Slope:	1.664

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0938	0.172207	4.69	541343.0	1.835897	Y
2	IC 410-761807/2	0.2345	0.384484	4.69	535634.0	1.63959	Y
3	IC 410-761807/3	0.938	1.60433	4.69	540686.0	1.710373	Y
4	IC 410-761807/4	1.876	2.914609	4.69	576875.0	1.553629	Y
5	ICISAV 410-761807/5	4.69	7.7594	4.69	539075.0	1.654456	Y
6	IC 410-761807/6	9.38	14.999363	4.69	552013.0	1.599079	Y
7	IC 410-761807/7	18.76	31.067671	4.69	522393.0	1.656059	Y



Calibration / Perfluoro-3,6-dioxaheptanoic acid

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

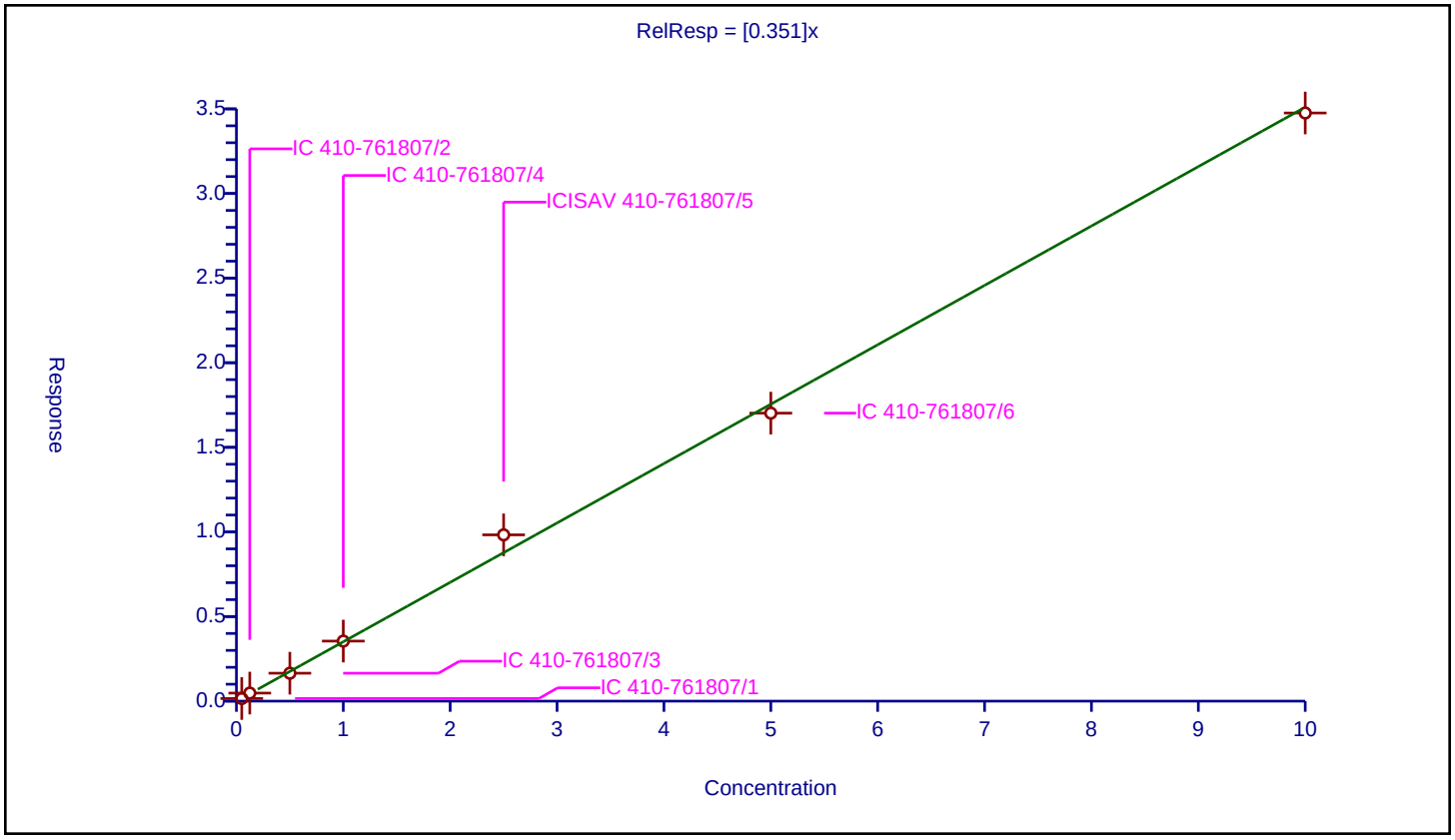
Curve Coefficients

Intercept:	0
Slope:	0.351

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.015482	2.0	1742064.0	0.309633	Y
2	IC 410-761807/2	0.125	0.047669	2.0	1764316.0	0.381356	Y
3	IC 410-761807/3	0.5	0.165023	2.0	1798429.0	0.330046	Y
4	IC 410-761807/4	1.0	0.354812	2.0	1751084.0	0.354812	Y
5	ICISAV 410-761807/5	2.5	0.982668	2.0	1666394.0	0.393067	Y
6	IC 410-761807/6	5.0	1.702035	2.0	1722730.0	0.340407	Y
7	IC 410-761807/7	10.0	3.475736	2.0	1680222.0	0.347574	Y



Calibration / Perfluorohexanoic acid

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

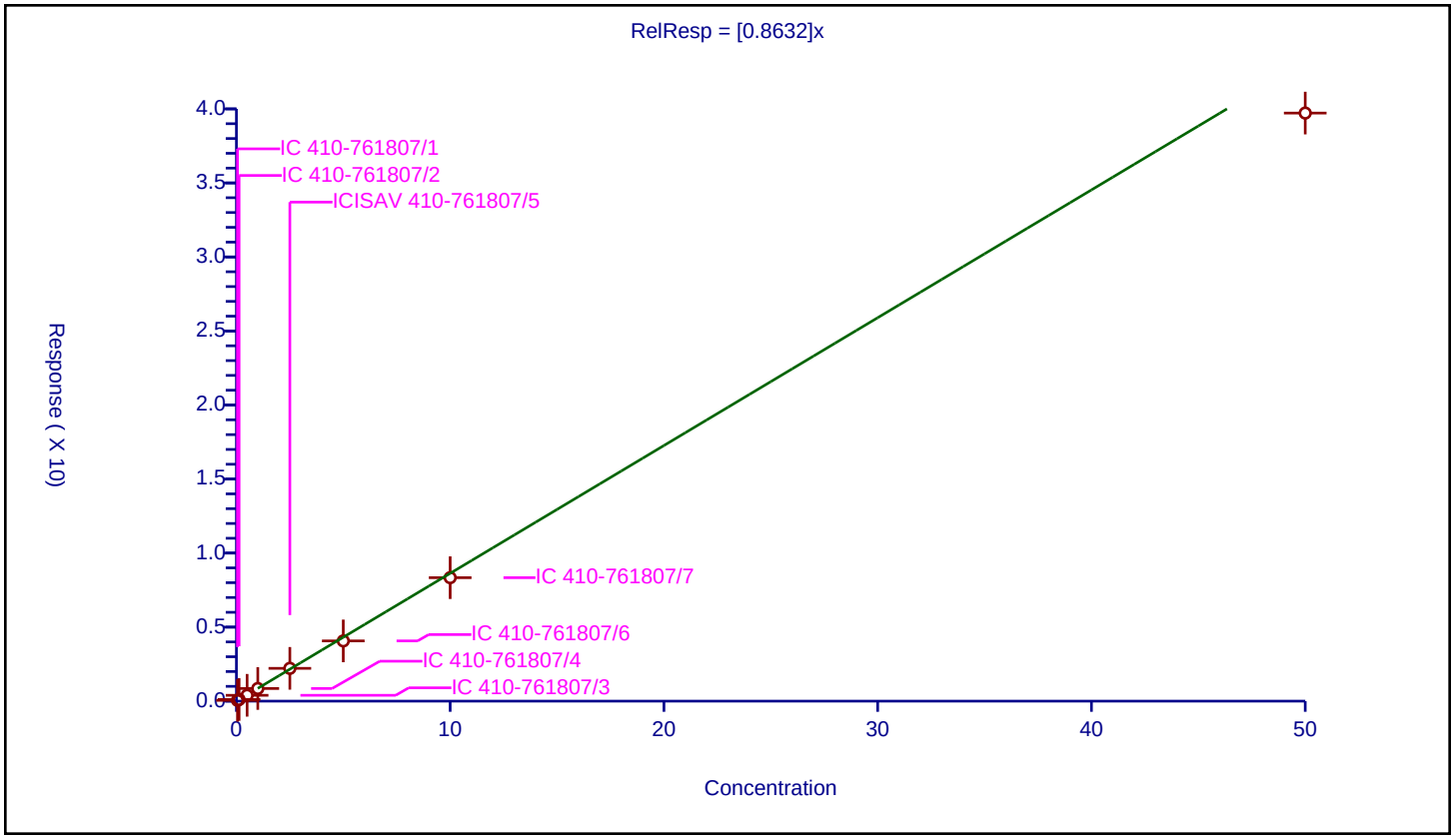
Curve Coefficients

Intercept:	0
Slope:	0.8632

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.052635	2.0	1742064.0	1.052705	Y
2	IC 410-761807/2	0.125	0.110231	2.0	1764316.0	0.881847	Y
3	IC 410-761807/3	0.5	0.395261	2.0	1798429.0	0.790521	Y
4	IC 410-761807/4	1.0	0.852791	2.0	1751084.0	0.852791	Y
5	ICISAV 410-761807/5	2.5	2.214974	2.0	1666394.0	0.88599	Y
6	IC 410-761807/6	5.0	4.067572	2.0	1722730.0	0.813514	Y
7	IC 410-761807/7	10.0	8.339158	2.0	1680222.0	0.833916	Y
8	IC 410-761807/8	50.0	39.716879	2.0	1476564.0	0.794338	Y



Calibration / 5:3 FTCA

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

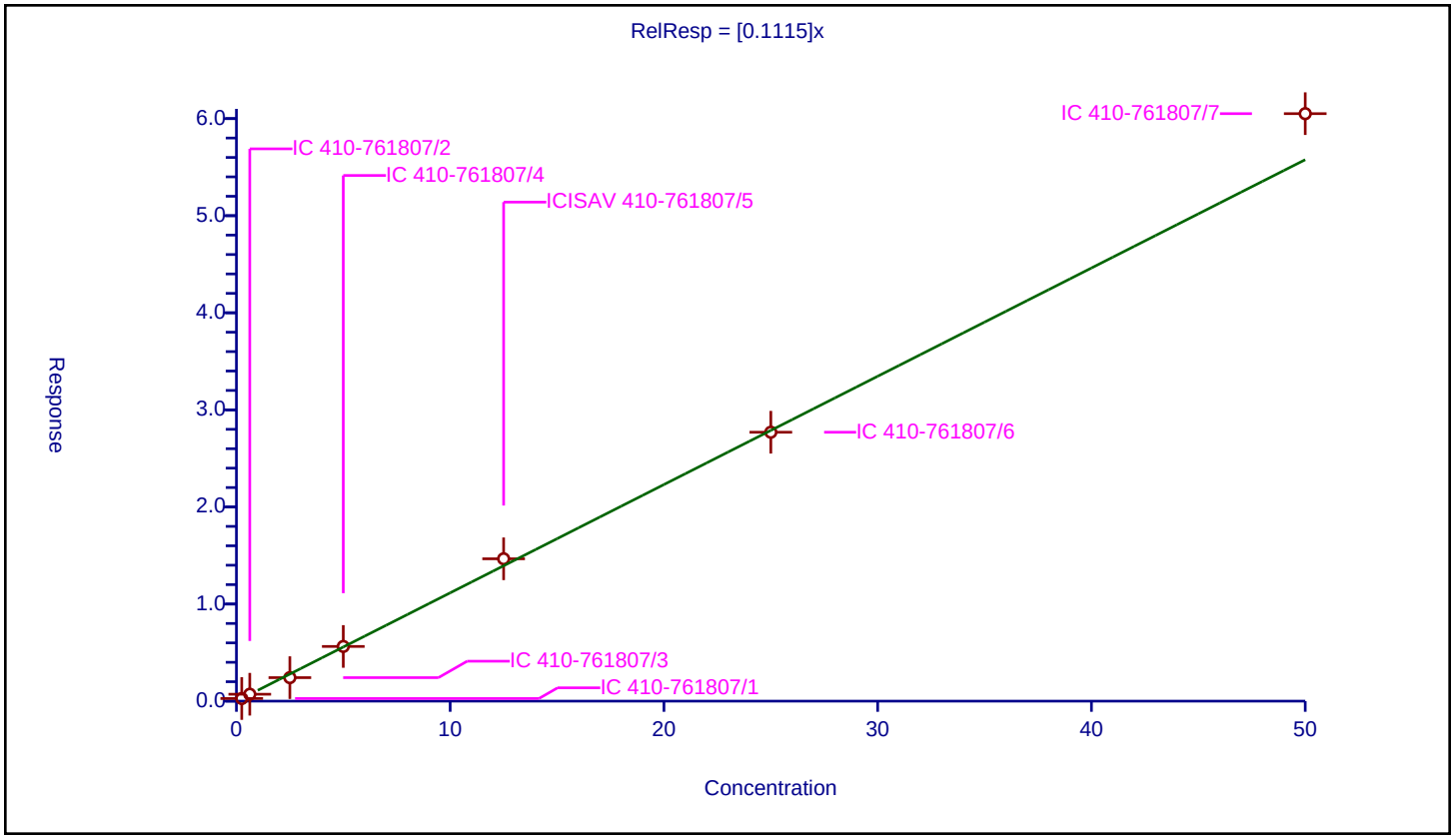
Curve Coefficients

Intercept:	0
Slope:	0.1115

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.25	0.027098	2.0	1742064.0	0.108391	Y
2	IC 410-761807/2	0.625	0.071086	2.0	1764316.0	0.113737	Y
3	IC 410-761807/3	2.5	0.242088	2.0	1798429.0	0.096835	Y
4	IC 410-761807/4	5.0	0.563369	2.0	1751084.0	0.112674	Y
5	ICISAV 410-761807/5	12.5	1.466129	2.0	1666394.0	0.11729	Y
6	IC 410-761807/6	25.0	2.769696	2.0	1722730.0	0.110788	Y
7	IC 410-761807/7	50.0	6.050773	2.0	1680222.0	0.121015	Y



Calibration / FBSA

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

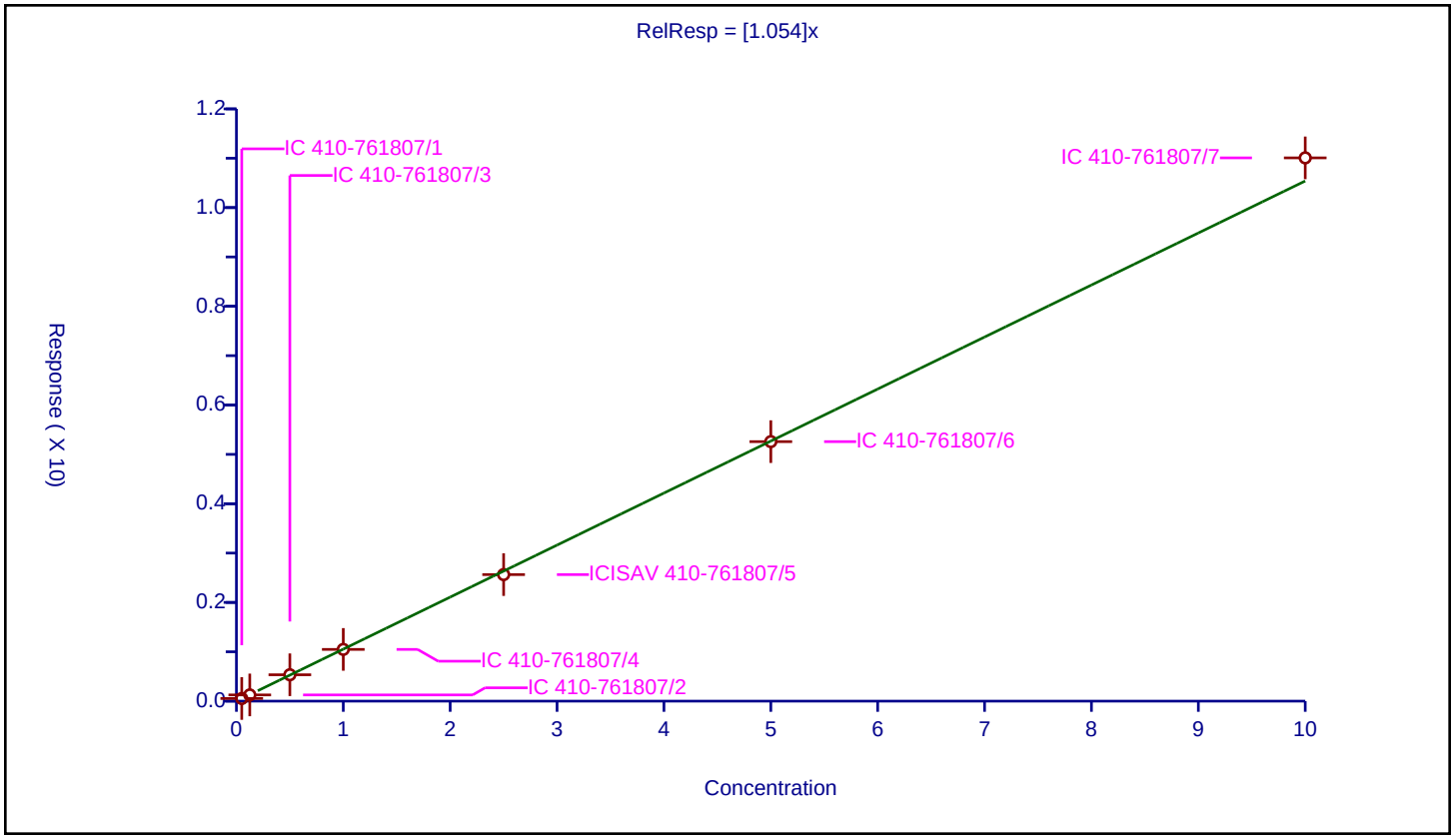
Curve Coefficients

Intercept:	0
Slope:	1.054

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.05367	1.864	1558129.0	1.073398	Y
2	IC 410-761807/2	0.125	0.126104	1.864	1663415.0	1.008832	Y
3	IC 410-761807/3	0.5	0.534341	1.864	1645120.0	1.068682	Y
4	IC 410-761807/4	1.0	1.048512	1.864	1625835.0	1.048512	Y
5	ICISAV 410-761807/5	2.5	2.564244	1.864	1657318.0	1.025697	Y
6	IC 410-761807/6	5.0	5.258081	1.864	1557583.0	1.051616	Y
7	IC 410-761807/7	10.0	11.007509	1.864	1581345.0	1.100751	Y



Calibration / Perfluorobutanesulfonic acid

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

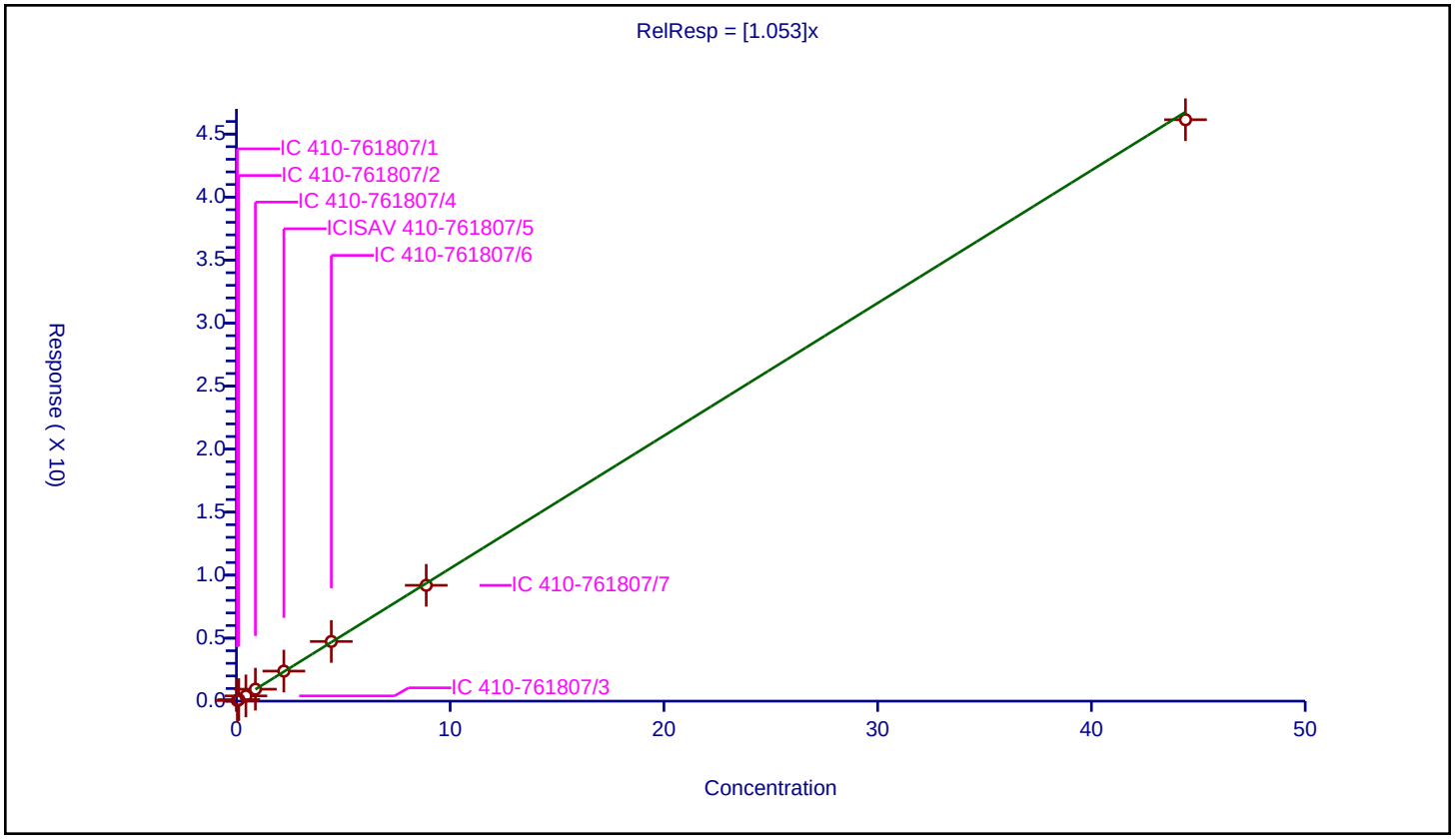
Curve Coefficients

Intercept:	0
Slope:	1.053

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0444	0.049195	1.864	1558129.0	1.107985	Y
2	IC 410-761807/2	0.111	0.121832	1.864	1663415.0	1.097589	Y
3	IC 410-761807/3	0.444	0.415576	1.864	1645120.0	0.935982	Y
4	IC 410-761807/4	0.888	0.948245	1.864	1625835.0	1.067844	Y
5	ICISAV 410-761807/5	2.22	2.385145	1.864	1657318.0	1.07439	Y
6	IC 410-761807/6	4.44	4.735991	1.864	1557583.0	1.066665	Y
7	IC 410-761807/7	8.88	9.190681	1.864	1581345.0	1.034987	Y
8	IC 410-761807/8	44.4	46.139429	1.864	1176202.0	1.039176	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

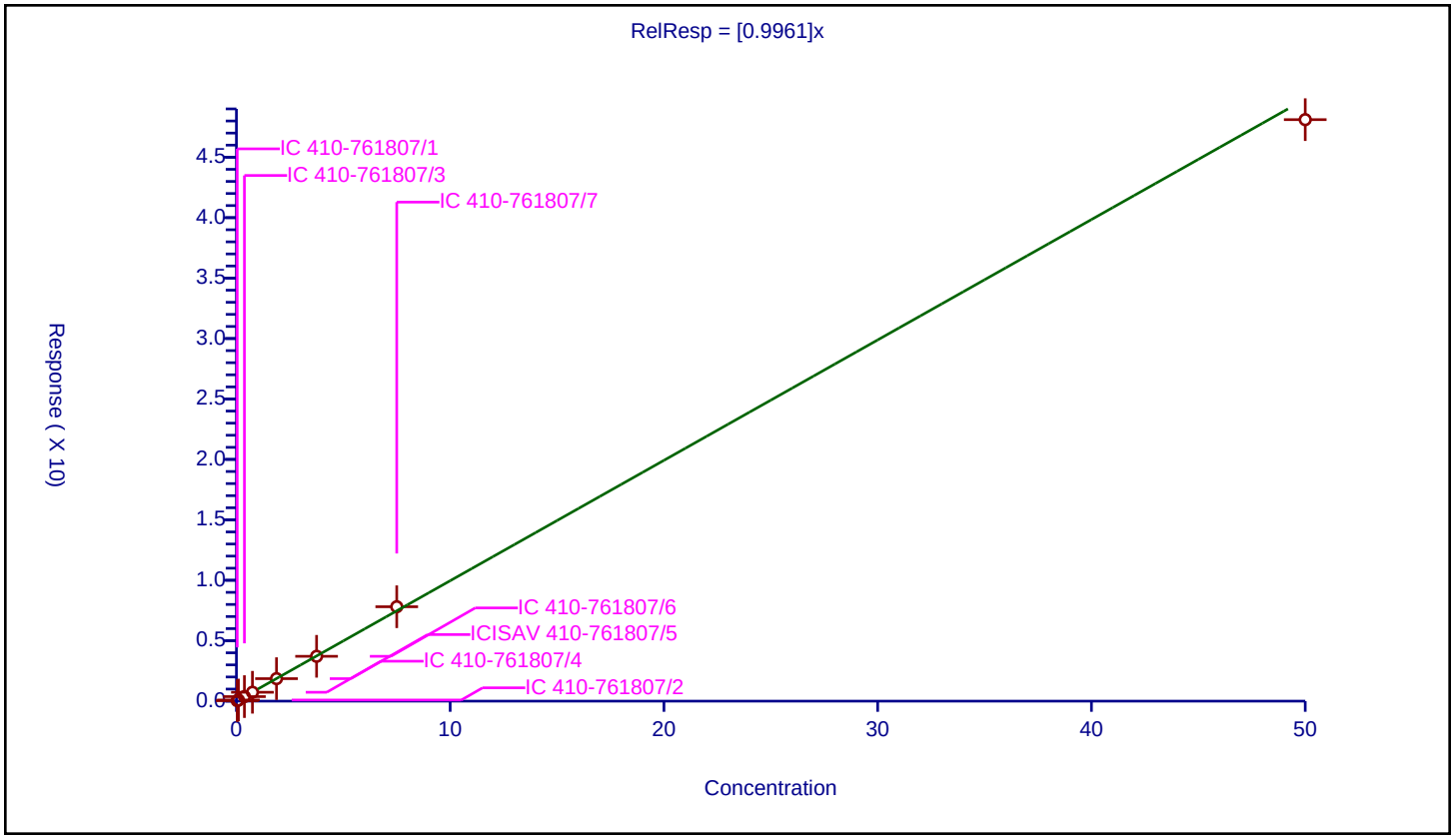
Curve Coefficients

Intercept:	0
Slope:	0.9961

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0375	0.037964	2.0	1453494.0	1.012365	Y
2	IC 410-761807/2	0.09375	0.092643	2.0	1476415.0	0.988196	Y
3	IC 410-761807/3	0.375	0.375834	2.0	1437522.0	1.002225	Y
4	IC 410-761807/4	0.75	0.734997	2.0	1554899.0	0.979996	Y
5	ICISAV 410-761807/5	1.875	1.861618	2.0	1499964.0	0.992863	Y
6	IC 410-761807/6	3.75	3.710792	2.0	1515599.0	0.989544	Y
7	IC 410-761807/7	7.5	7.810538	2.0	1462445.0	1.041405	Y
8	IC 410-761807/8	50.0	48.109655	2.0	1354887.0	0.962193	Y



Calibration / Perfluoro (2-ethoxyethane) sulfonic acid

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

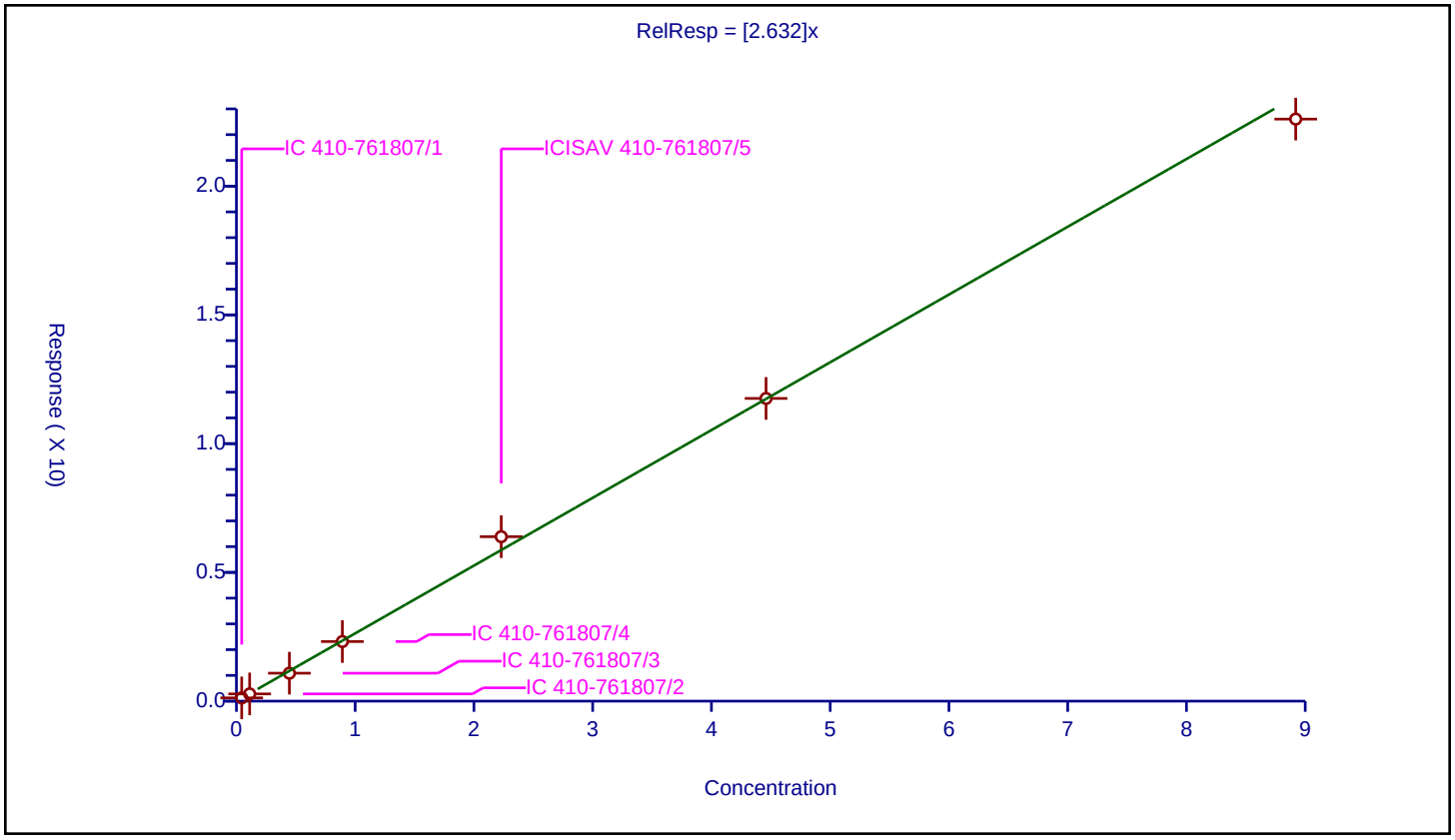
Curve Coefficients

Intercept:	0
Slope:	2.632

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0446	0.126591	2.0	1742064.0	2.838368	Y
2	IC 410-761807/2	0.1115	0.281161	2.0	1764316.0	2.521619	Y
3	IC 410-761807/3	0.446	1.085362	2.0	1798429.0	2.433546	Y
4	IC 410-761807/4	0.892	2.314298	2.0	1751084.0	2.594504	Y
5	ICISAV 410-761807/5	2.23	6.386365	2.0	1666394.0	2.863841	Y
6	IC 410-761807/6	4.46	11.75541	2.0	1722730.0	2.635742	Y
7	IC 410-761807/7	8.92	22.603485	2.0	1680222.0	2.534023	Y



Calibration / Perfluoroheptanoic acid

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

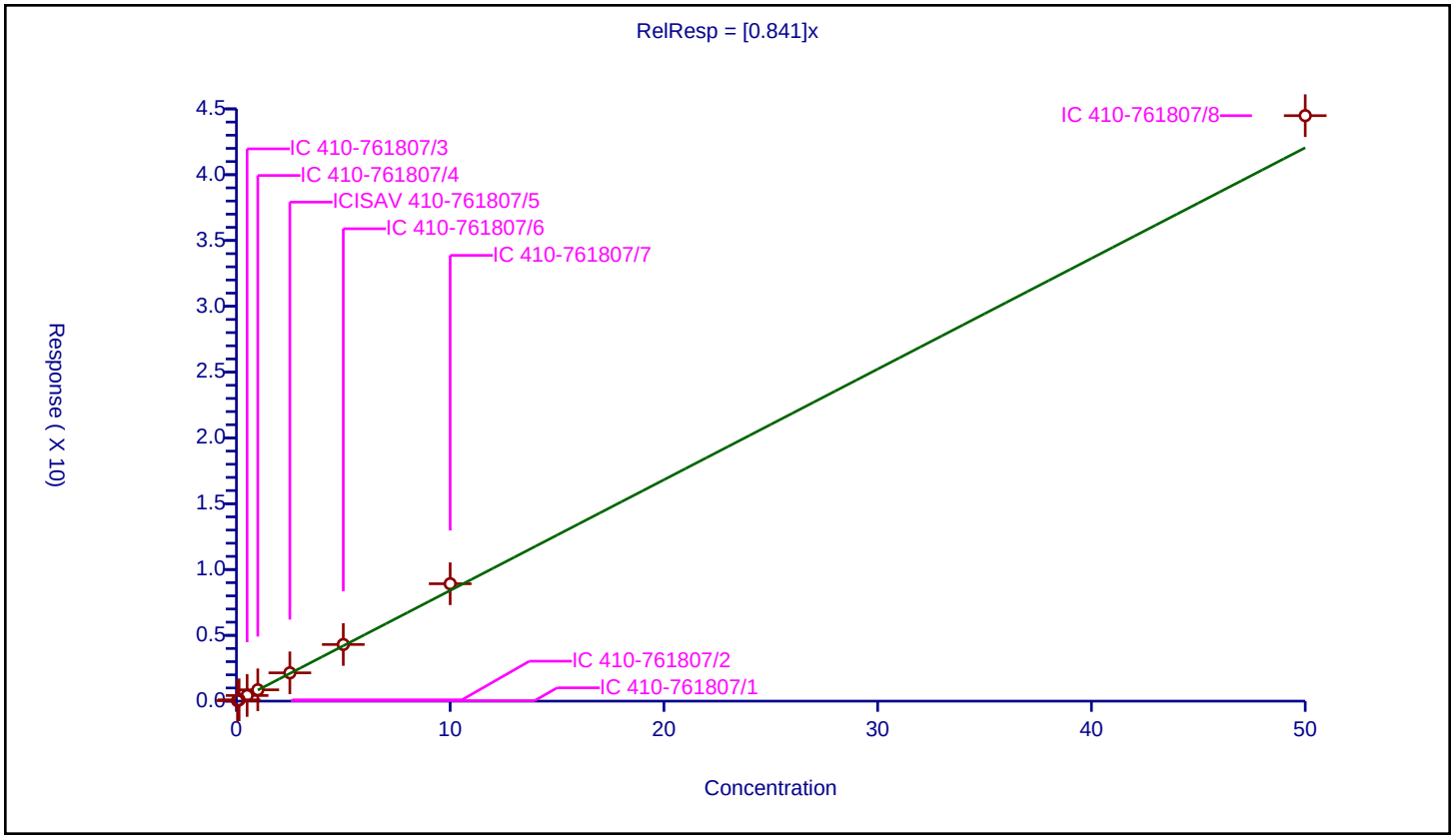
Curve Coefficients

Intercept:	0
Slope:	0.841

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.035133	2.0	1789935.0	0.702662	Y
2	IC 410-761807/2	0.125	0.100717	2.0	1700514.0	0.805733	Y
3	IC 410-761807/3	0.5	0.428168	2.0	1692617.0	0.856335	Y
4	IC 410-761807/4	1.0	0.86016	2.0	1809016.0	0.86016	Y
5	ICISAV 410-761807/5	2.5	2.150192	2.0	1709959.0	0.860077	Y
6	IC 410-761807/6	5.0	4.30631	2.0	1711904.0	0.861262	Y
7	IC 410-761807/7	10.0	8.919847	2.0	1623140.0	0.891985	Y
8	IC 410-761807/8	50.0	44.486302	2.0	1396598.0	0.889726	Y



Calibration / DONA

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

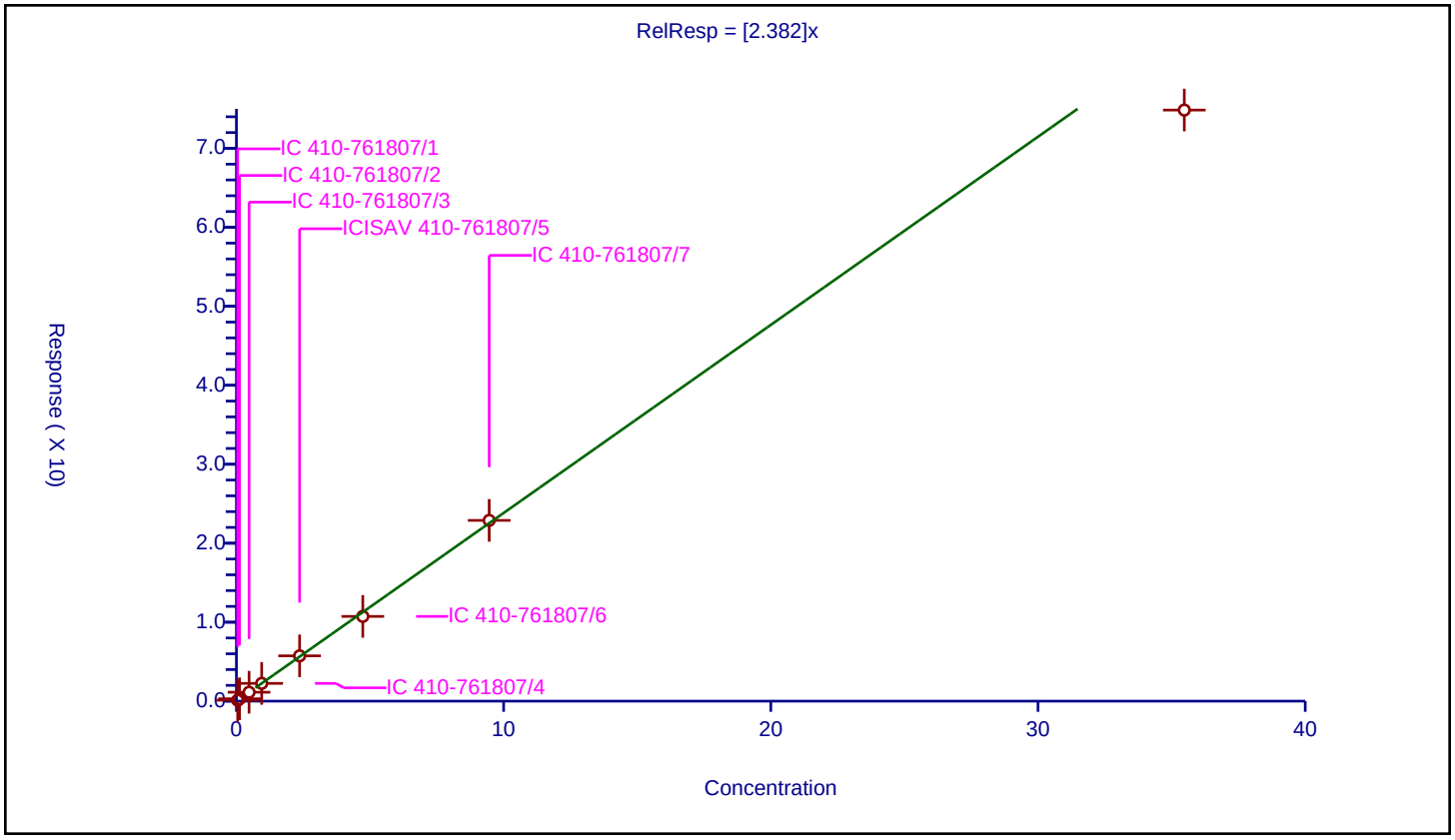
Curve Coefficients

Intercept:	0
Slope:	2.382

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0473	0.119701	2.0	1453494.0	2.530667	Y
2	IC 410-761807/2	0.11825	0.30101	2.0	1476415.0	2.545541	Y
3	IC 410-761807/3	0.473	1.127322	2.0	1437522.0	2.383344	Y
4	IC 410-761807/4	0.946	2.247851	2.0	1554899.0	2.376164	Y
5	ICISAV 410-761807/5	2.365	5.735643	2.0	1499964.0	2.425219	Y
6	IC 410-761807/6	4.73	10.731104	2.0	1515599.0	2.268732	Y
7	IC 410-761807/7	9.46	22.888538	2.0	1462445.0	2.419507	Y
8	IC 410-761807/8	35.475	74.851949	2.0	1354887.0	2.109992	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

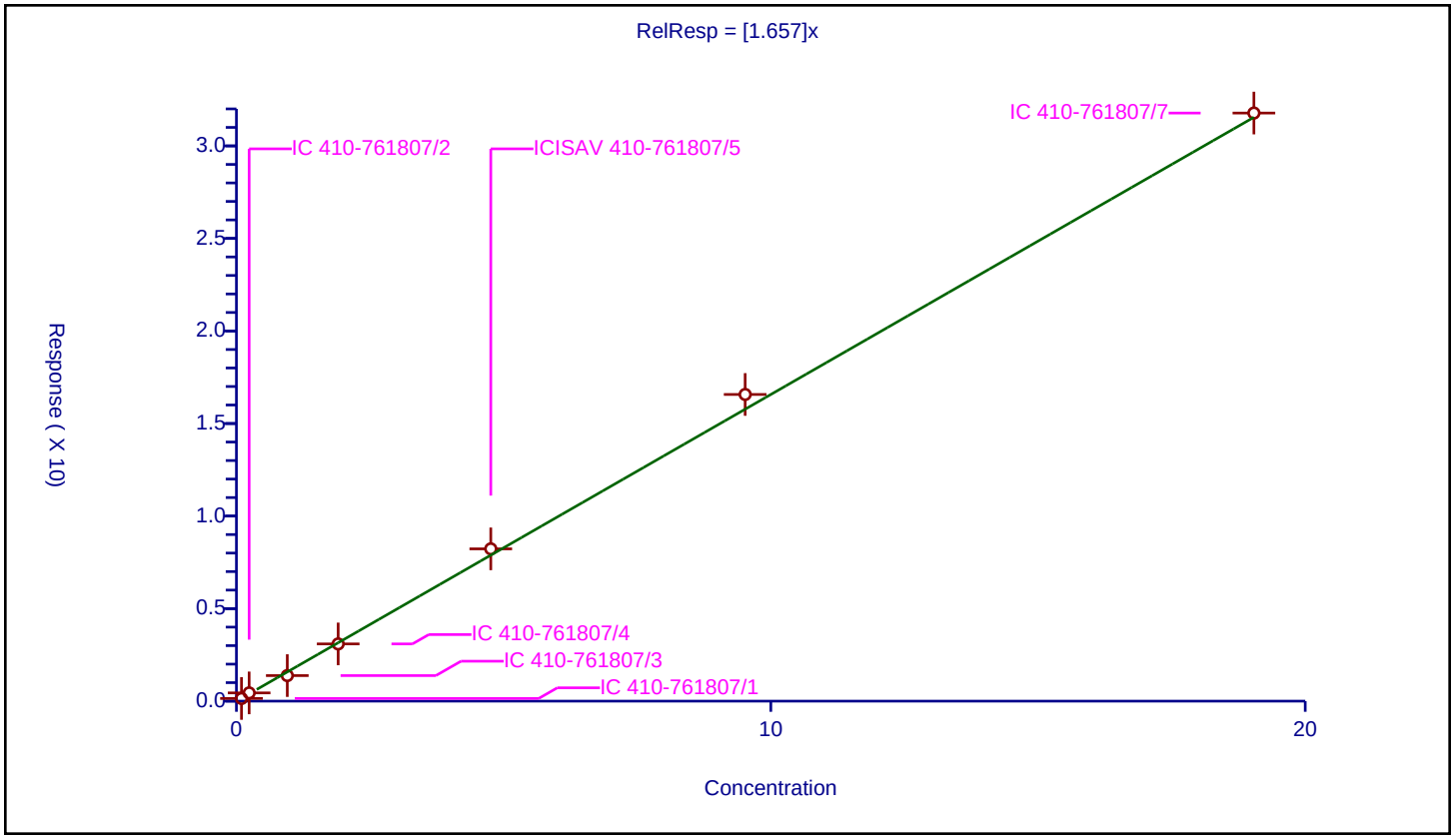
Curve Coefficients

Intercept:	0
Slope:	1.657

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0952	0.144311	4.76	480481.0	1.515877	Y
2	IC 410-761807/2	0.238	0.445253	4.76	480145.0	1.87081	Y
3	IC 410-761807/3	0.952	1.380195	4.76	460827.0	1.449785	Y
4	IC 410-761807/4	1.904	3.091414	4.76	479801.0	1.623642	Y
5	ICISAV 410-761807/5	4.76	8.228386	4.76	455442.0	1.728653	Y
6	IC 410-761807/6	9.52	16.570629	4.76	420122.0	1.740612	Y
7	IC 410-761807/7	19.04	31.775631	4.76	407752.0	1.668888	Y



Calibration / Perfluoropentanesulfonic acid

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

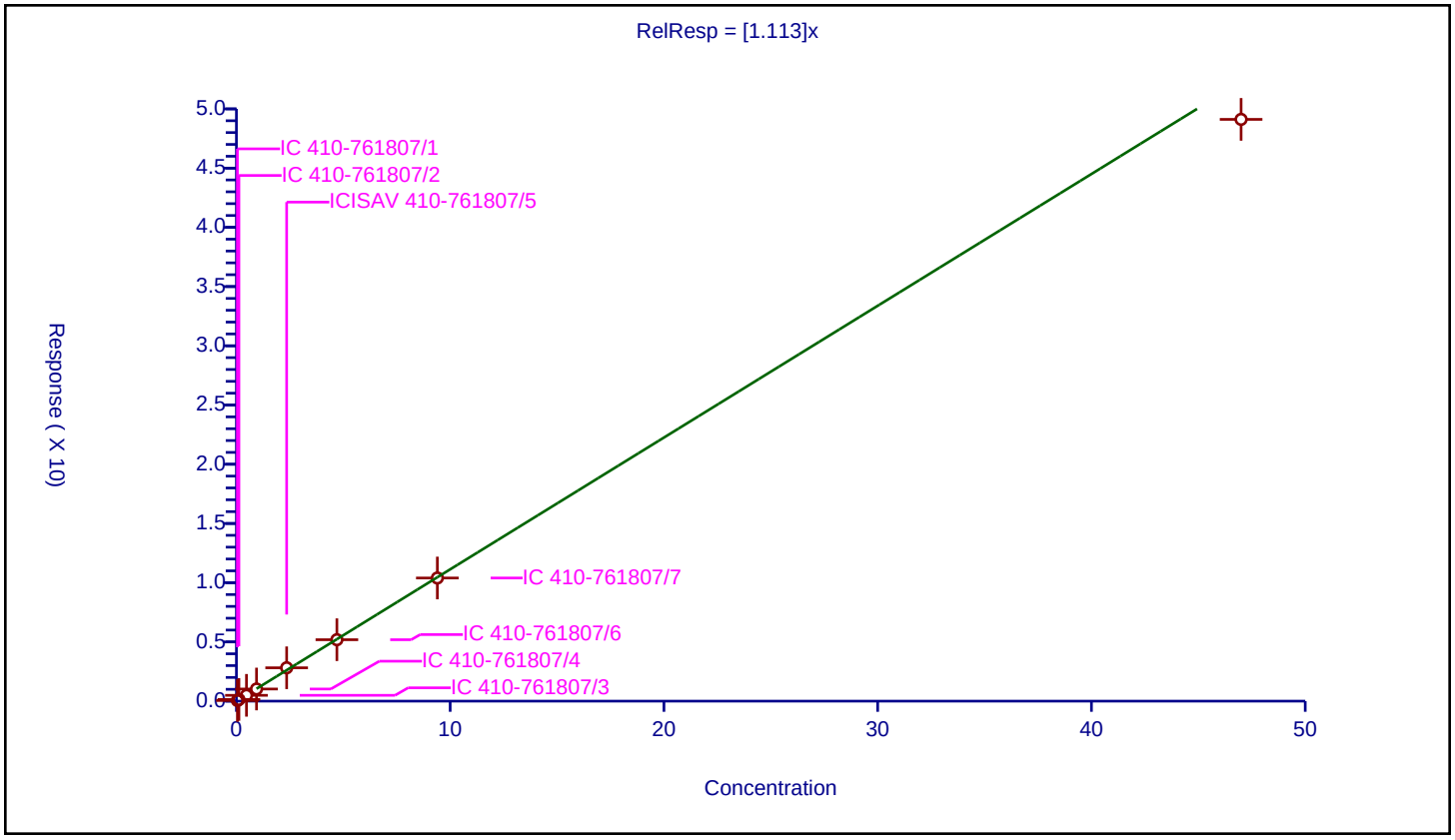
Curve Coefficients

Intercept:	0
Slope:	1.113

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.047	0.052674	1.896	1480335.0	1.12072	Y
2	IC 410-761807/2	0.1175	0.139958	1.896	1536455.0	1.191129	Y
3	IC 410-761807/3	0.47	0.491676	1.896	1485307.0	1.046119	Y
4	IC 410-761807/4	0.94	1.024912	1.896	1546117.0	1.090331	Y
5	ICISAV 410-761807/5	2.35	2.815589	1.896	1434246.0	1.198123	Y
6	IC 410-761807/6	4.7	5.185805	1.896	1475511.0	1.103363	Y
7	IC 410-761807/7	9.4	10.396462	1.896	1442871.0	1.106007	Y
8	IC 410-761807/8	47.0	49.11345	1.896	1154396.0	1.044967	Y



Calibration / bis(trifluoromethane)sulfonimide

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

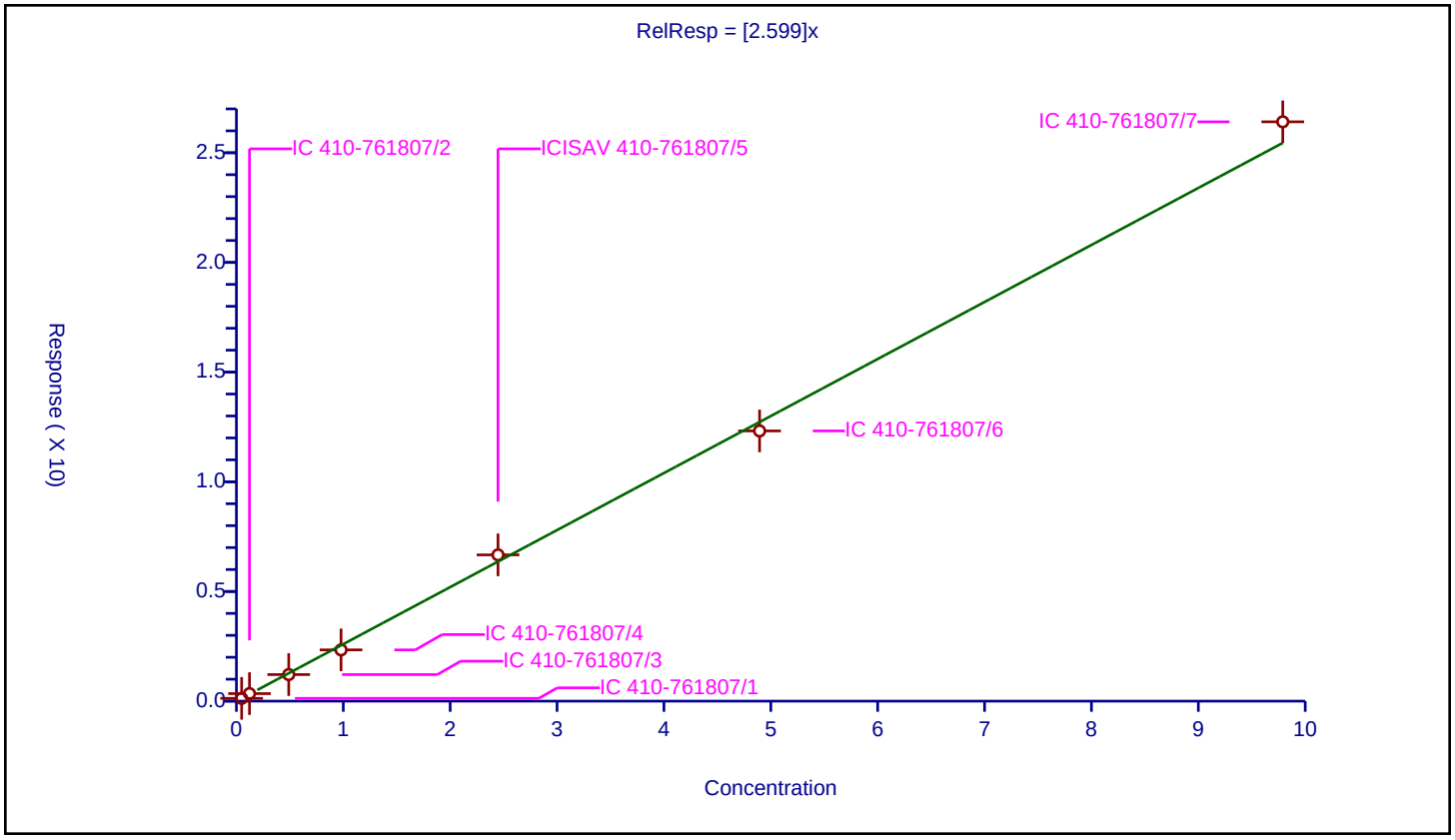
Curve Coefficients

Intercept:	0
Slope:	2.599

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.04895	0.127065	1.896	1480335.0	2.595807	Y
2	IC 410-761807/2	0.122375	0.342795	1.896	1536455.0	2.801189	Y
3	IC 410-761807/3	0.4895	1.211117	1.896	1485307.0	2.474193	Y
4	IC 410-761807/4	0.979	2.33616	1.896	1546117.0	2.386272	Y
5	ICISAV 410-761807/5	2.4475	6.667703	1.896	1434246.0	2.724291	Y
6	IC 410-761807/6	4.895	12.318453	1.896	1475511.0	2.516538	Y
7	IC 410-761807/7	9.79	26.410942	1.896	1442871.0	2.697747	Y



Calibration / Perfluorooctanoic acid

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

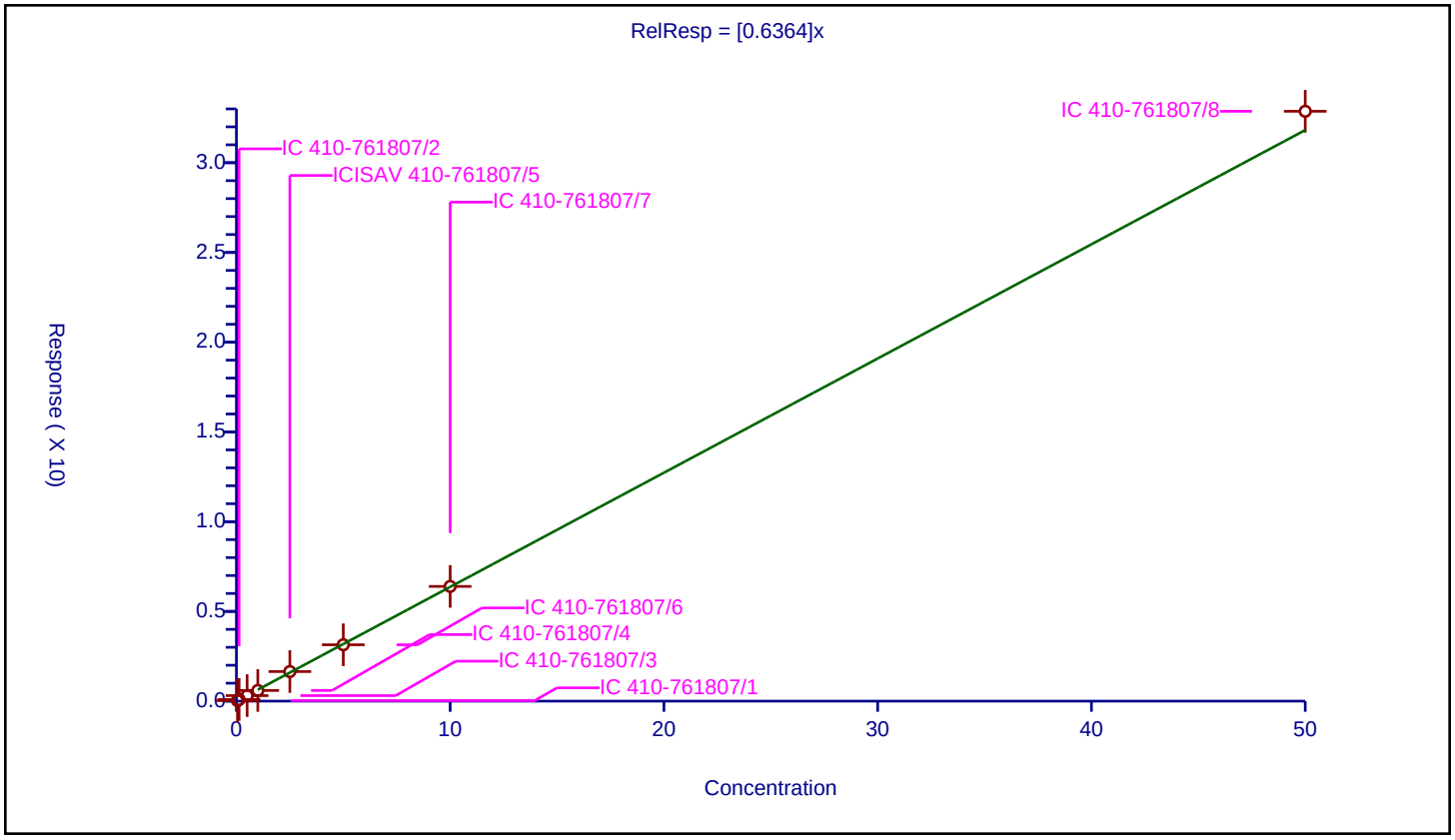
Curve Coefficients

Intercept:	0
Slope:	0.6364

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.028854	2.0	2250574.0	0.577079	Y
2	IC 410-761807/2	0.125	0.089855	2.0	2109358.0	0.718839	Y
3	IC 410-761807/3	0.5	0.308581	2.0	2148001.0	0.617162	Y
4	IC 410-761807/4	1.0	0.594052	2.0	2206981.0	0.594052	Y
5	ICISAV 410-761807/5	2.5	1.648362	2.0	2023138.0	0.659345	Y
6	IC 410-761807/6	5.0	3.14026	2.0	2146334.0	0.628052	Y
7	IC 410-761807/7	10.0	6.391922	2.0	2129887.0	0.639192	Y
8	IC 410-761807/8	50.0	32.866944	2.0	1802094.0	0.657339	Y



Calibration / 7:3 FTCA

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

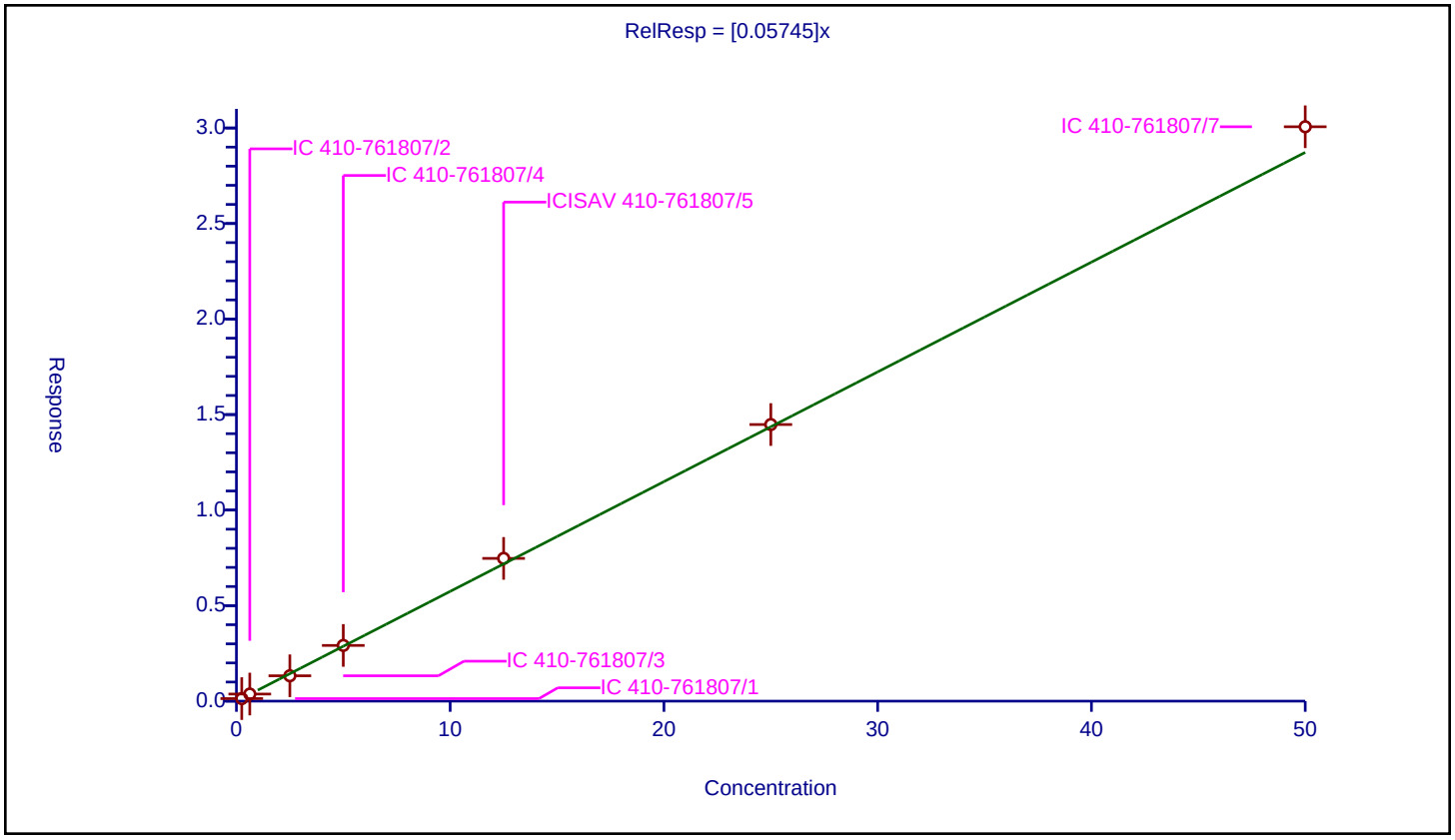
Curve Coefficients

Intercept:	0
Slope:	0.05745

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.25	0.013358	2.0	1742064.0	0.053431	Y
2	IC 410-761807/2	0.625	0.037163	2.0	1764316.0	0.059461	Y
3	IC 410-761807/3	2.5	0.132768	2.0	1798429.0	0.053107	Y
4	IC 410-761807/4	5.0	0.291522	2.0	1751084.0	0.058304	Y
5	ICISAV 410-761807/5	12.5	0.747188	2.0	1666394.0	0.059775	Y
6	IC 410-761807/6	25.0	1.447821	2.0	1722730.0	0.057913	Y
7	IC 410-761807/7	50.0	3.006493	2.0	1680222.0	0.06013	Y



Calibration / Perfluorohexanesulfonic acid

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

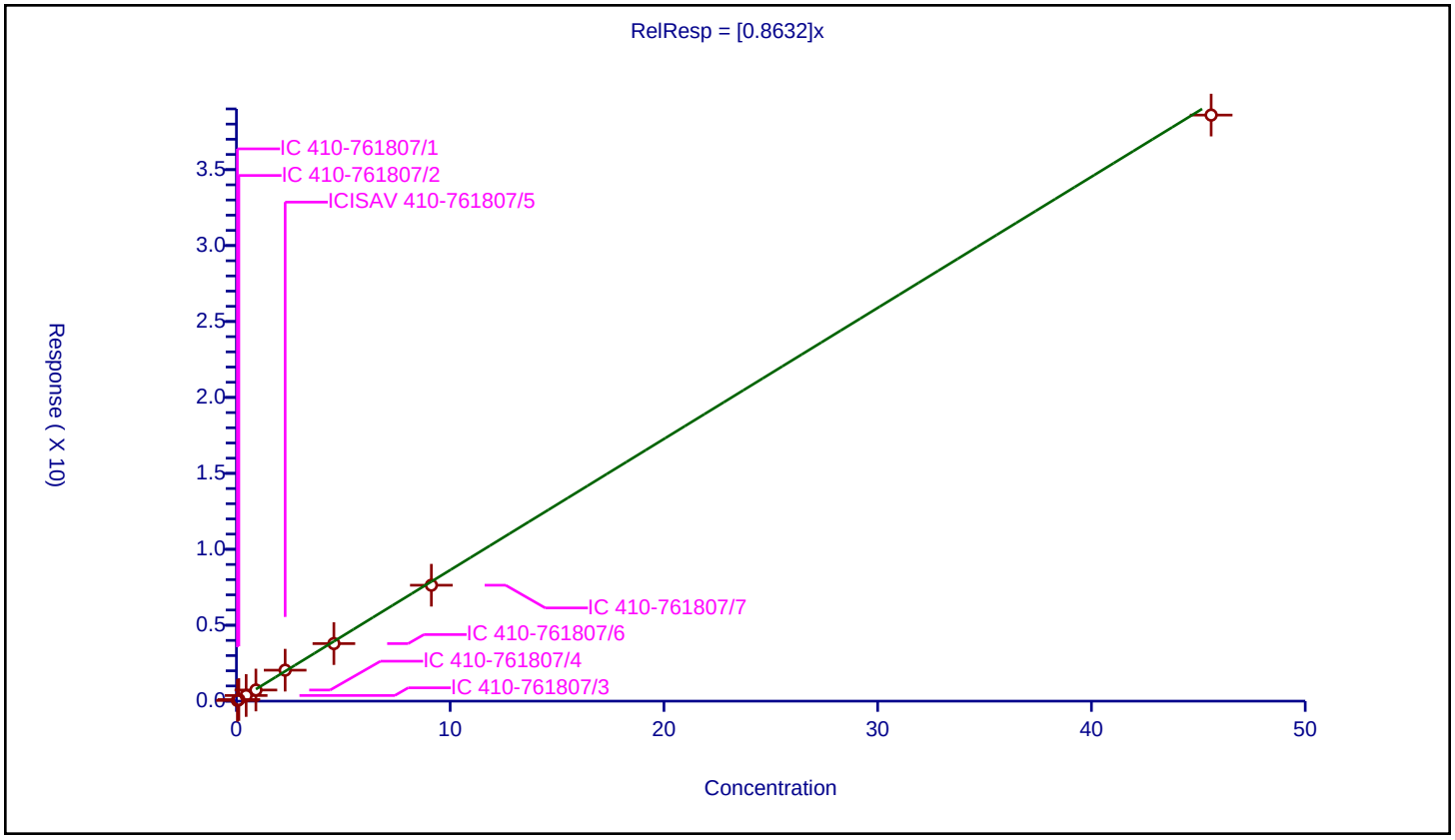
Curve Coefficients

Intercept:	0
Slope:	0.8632

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0456	0.043899	1.896	1480335.0	0.9627	Y
2	IC 410-761807/2	0.114	0.104498	1.896	1536455.0	0.916653	Y
3	IC 410-761807/3	0.456	0.371345	1.896	1485307.0	0.814353	Y
4	IC 410-761807/4	0.912	0.732798	1.896	1546117.0	0.803506	Y
5	ICISAV 410-761807/5	2.28	2.038929	1.896	1434246.0	0.894267	Y
6	IC 410-761807/6	4.56	3.789395	1.896	1475511.0	0.831008	Y
7	IC 410-761807/7	9.12	7.633725	1.896	1442871.0	0.837031	Y
8	IC 410-761807/8	45.6	38.593477	1.896	1154396.0	0.846348	Y



Calibration / Perfluorononanoic acid

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

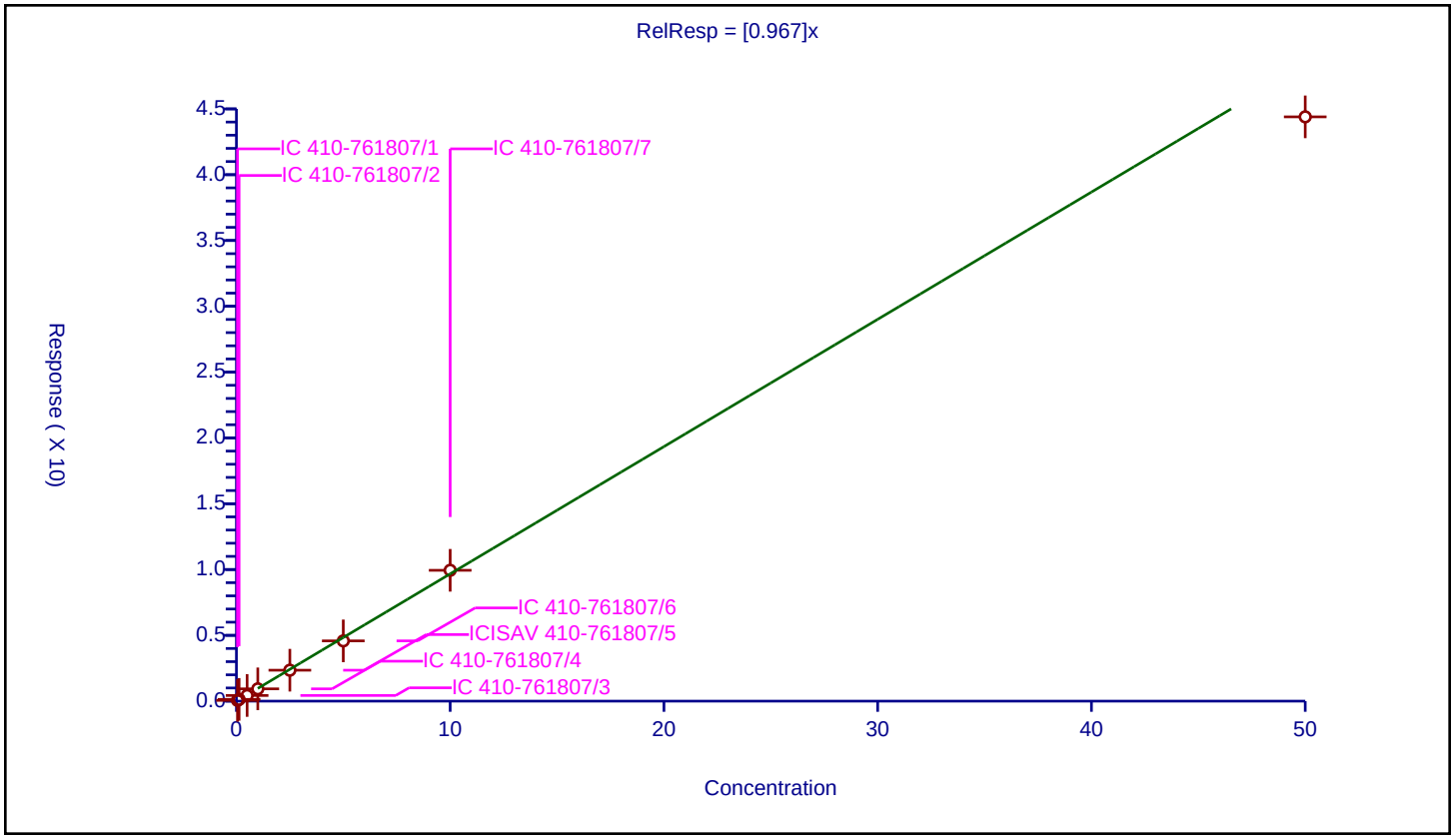
Curve Coefficients

Intercept:	0
Slope:	0.967

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.057322	2.0	1688402.0	1.146433	Y
2	IC 410-761807/2	0.125	0.131909	2.0	1802169.0	1.055271	Y
3	IC 410-761807/3	0.5	0.430651	2.0	1811827.0	0.861303	Y
4	IC 410-761807/4	1.0	0.93478	2.0	1803138.0	0.93478	Y
5	ICISAV 410-761807/5	2.5	2.35129	2.0	1694413.0	0.940516	Y
6	IC 410-761807/6	5.0	4.578424	2.0	1702638.0	0.915685	Y
7	IC 410-761807/7	10.0	9.940477	2.0	1599236.0	0.994048	Y
8	IC 410-761807/8	50.0	44.395245	2.0	1437393.0	0.887905	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

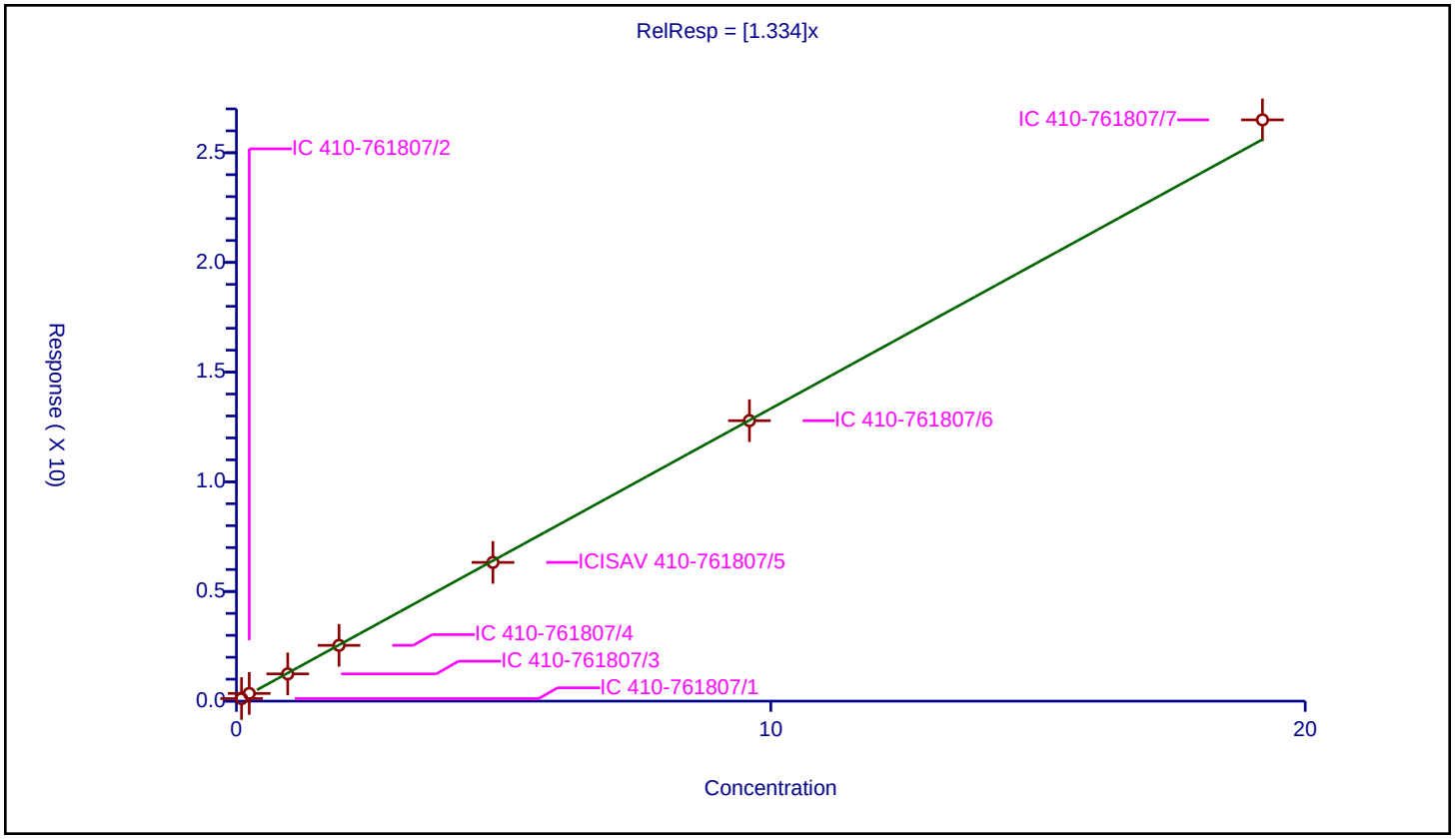
Curve Coefficients

Intercept:	0
Slope:	1.334

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.096	0.117268	4.8	430399.0	1.221541	Y
2	IC 410-761807/2	0.24	0.351712	4.8	447544.0	1.465465	Y
3	IC 410-761807/3	0.96	1.242758	4.8	445077.0	1.29454	Y
4	IC 410-761807/4	1.92	2.542587	4.8	450150.0	1.324264	Y
5	ICISAV 410-761807/5	4.8	6.324774	4.8	453461.0	1.317661	Y
6	IC 410-761807/6	9.6	12.786787	4.8	430372.0	1.331957	Y
7	IC 410-761807/7	19.2	26.50004	4.8	403856.0	1.38021	Y



Calibration / PFECHS

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

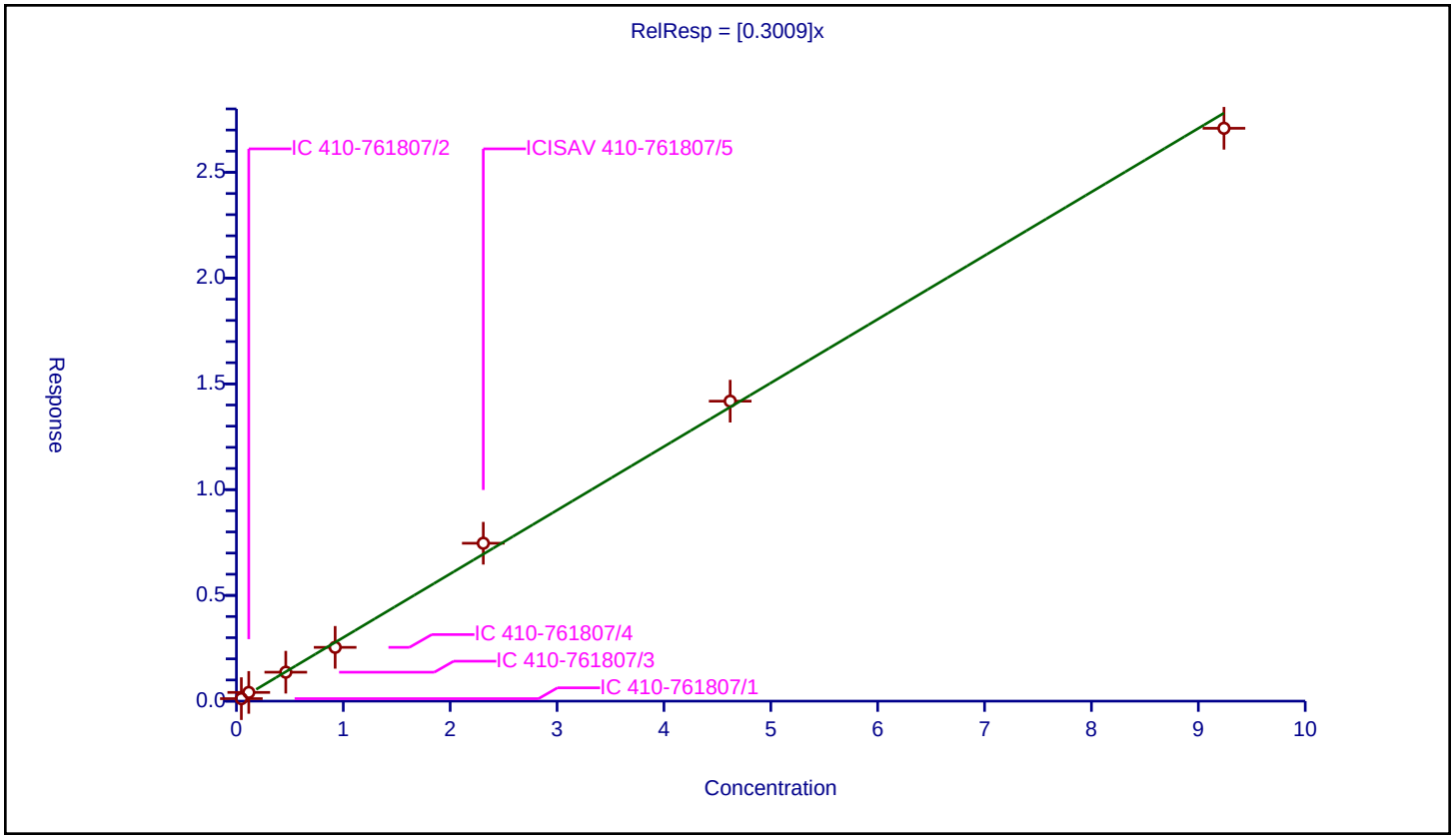
Curve Coefficients

Intercept:	0
Slope:	0.3009

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0462	0.011794	1.896	1480335.0	0.255271	Y
2	IC 410-761807/2	0.1155	0.041179	1.896	1536455.0	0.356527	Y
3	IC 410-761807/3	0.462	0.136756	1.896	1485307.0	0.296008	Y
4	IC 410-761807/4	0.924	0.254288	1.896	1546117.0	0.275203	Y
5	ICISAV 410-761807/5	2.31	0.746465	1.896	1434246.0	0.323145	Y
6	IC 410-761807/6	4.62	1.41817	1.896	1475511.0	0.306963	Y
7	IC 410-761807/7	9.24	2.708356	1.896	1442871.0	0.293112	Y



Calibration / FHxSA

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

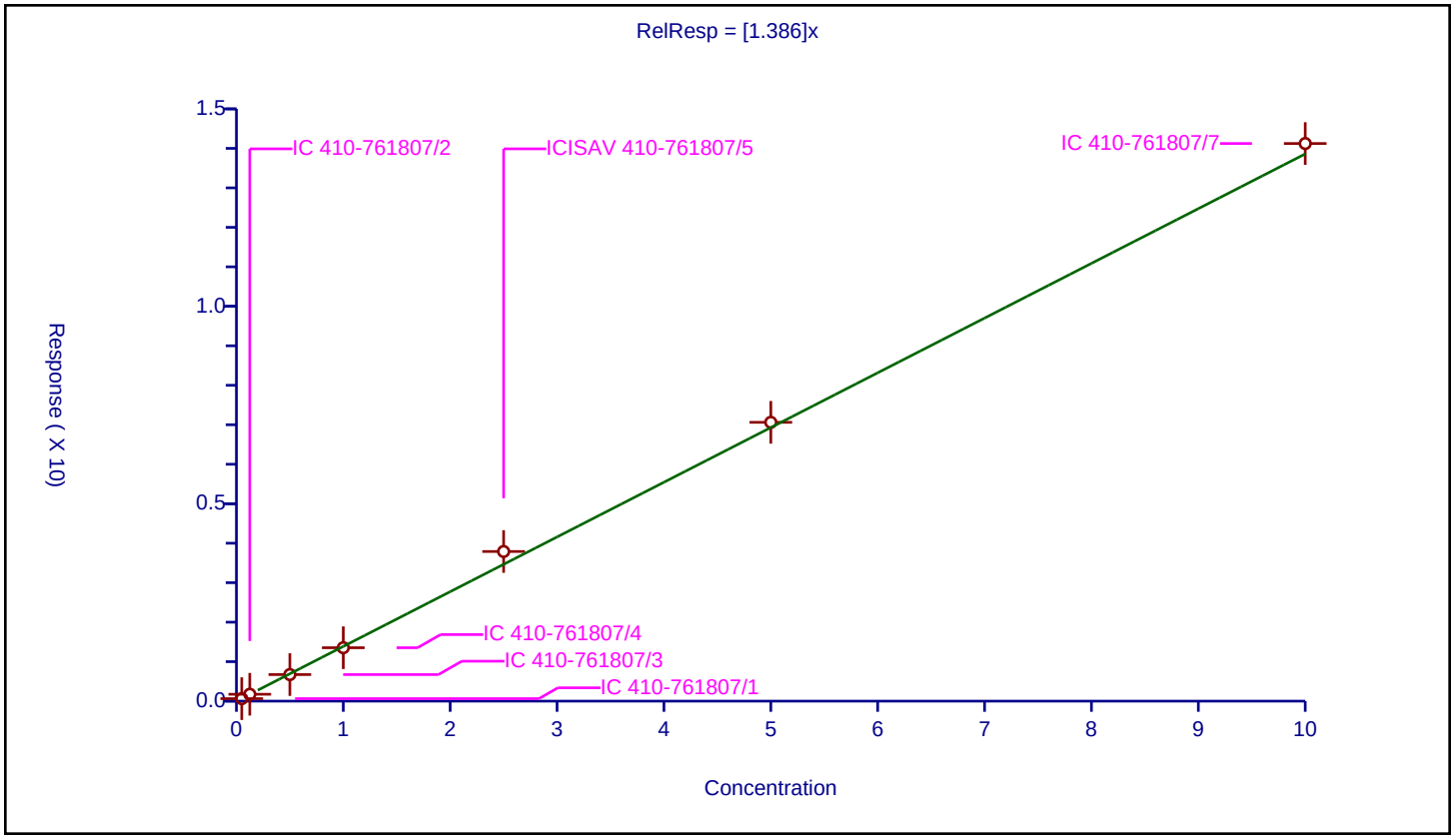
Curve Coefficients

Intercept:	0
Slope:	1.386

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.063288	1.896	1480335.0	1.265755	Y
2	IC 410-761807/2	0.125	0.17457	1.896	1536455.0	1.396563	Y
3	IC 410-761807/3	0.5	0.672942	1.896	1485307.0	1.345884	Y
4	IC 410-761807/4	1.0	1.352641	1.896	1546117.0	1.352641	Y
5	ICISAV 410-761807/5	2.5	3.789765	1.896	1434246.0	1.515906	Y
6	IC 410-761807/6	5.0	7.061923	1.896	1475511.0	1.412385	Y
7	IC 410-761807/7	10.0	14.122776	1.896	1442871.0	1.412278	Y



Calibration / Perfluoroheptanesulfonic acid

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

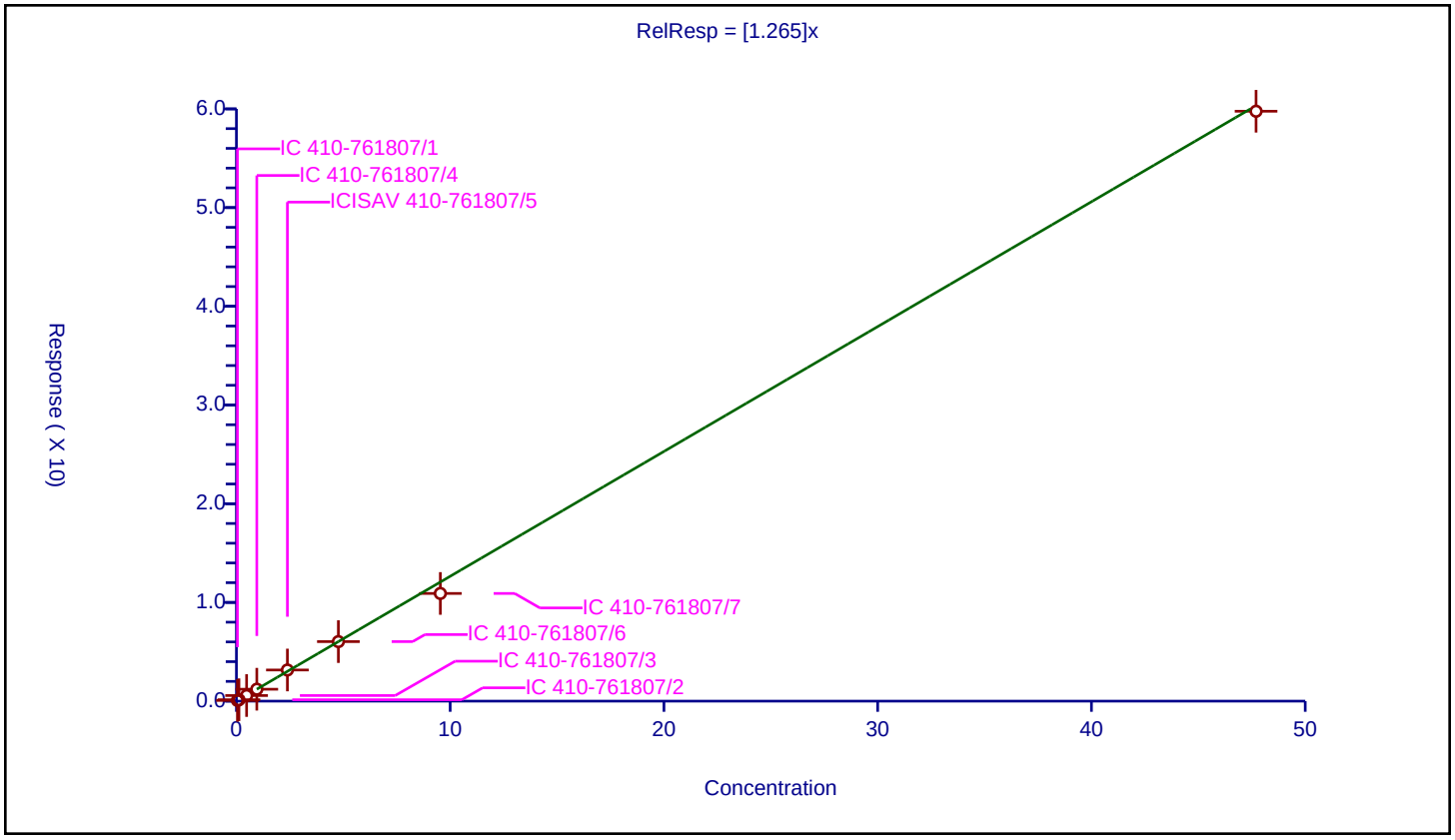
Curve Coefficients

Intercept:	0
Slope:	1.265

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0477	0.071293	1.916	1210631.0	1.494621	Y
2	IC 410-761807/2	0.11925	0.141128	1.916	1302866.0	1.183463	Y
3	IC 410-761807/3	0.477	0.56757	1.916	1254756.0	1.189874	Y
4	IC 410-761807/4	0.954	1.208493	1.916	1236583.0	1.266764	Y
5	ICISAV 410-761807/5	2.385	3.155375	1.916	1207568.0	1.323008	Y
6	IC 410-761807/6	4.77	6.030623	1.916	1245347.0	1.264282	Y
7	IC 410-761807/7	9.54	10.909766	1.916	1164075.0	1.143581	Y
8	IC 410-761807/8	47.7	59.76219	1.916	905070.0	1.252876	Y



Calibration / N-methylperfluorooctanesulfonamidoacetic acid

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

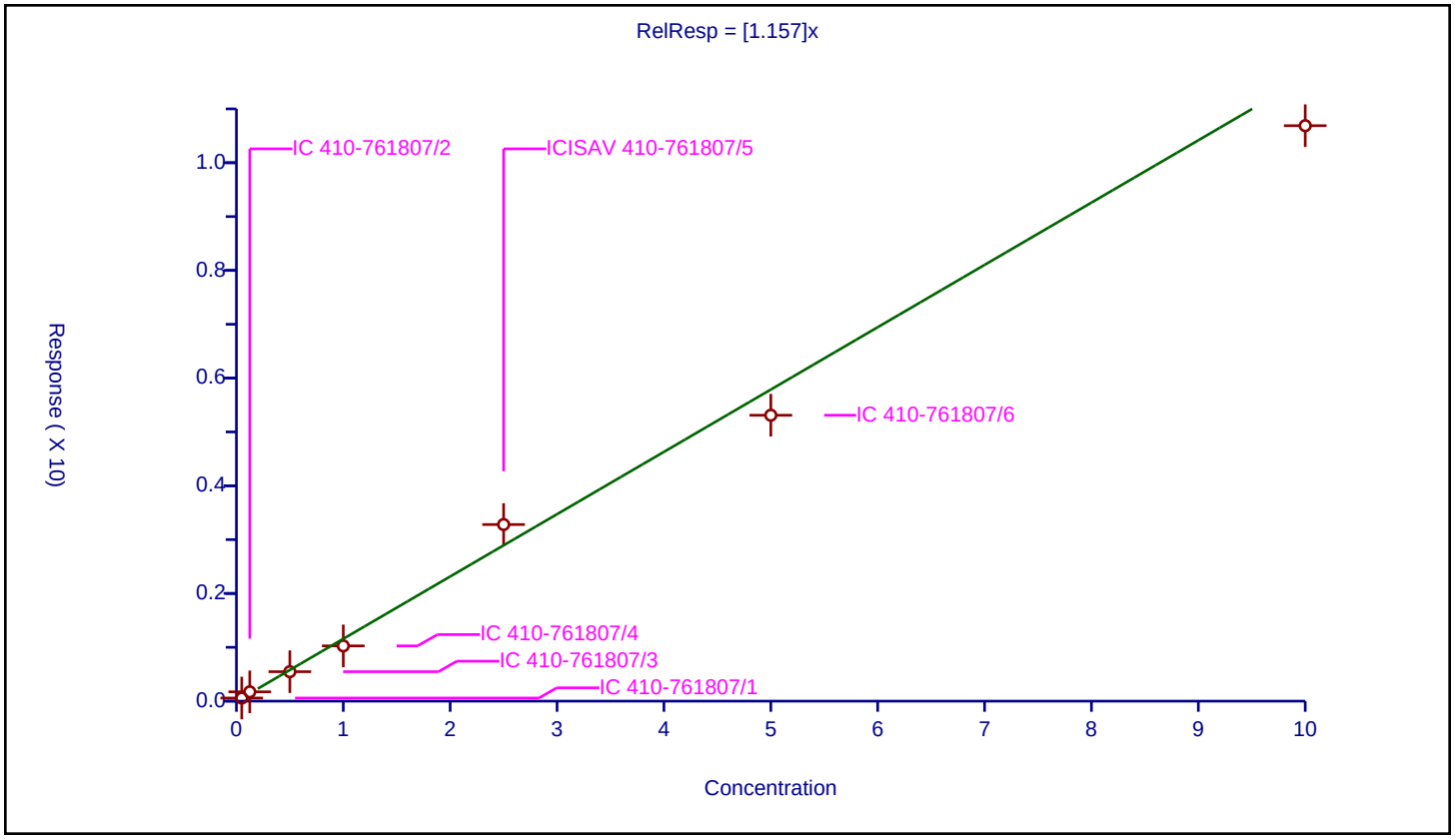
Curve Coefficients

Intercept:	0
Slope:	1.157

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.057727	5.0	1019893.0	1.154533	Y
2	IC 410-761807/2	0.125	0.173043	5.0	956237.0	1.384343	Y
3	IC 410-761807/3	0.5	0.547103	5.0	907727.0	1.094206	Y
4	IC 410-761807/4	1.0	1.026126	5.0	948738.0	1.026126	Y
5	ICISAV 410-761807/5	2.5	3.279975	5.0	877124.0	1.31199	Y
6	IC 410-761807/6	5.0	5.31024	5.0	953632.0	1.062048	Y
7	IC 410-761807/7	10.0	10.68771	5.0	919414.0	1.068771	Y



Calibration / Perfluorodecanoic acid

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

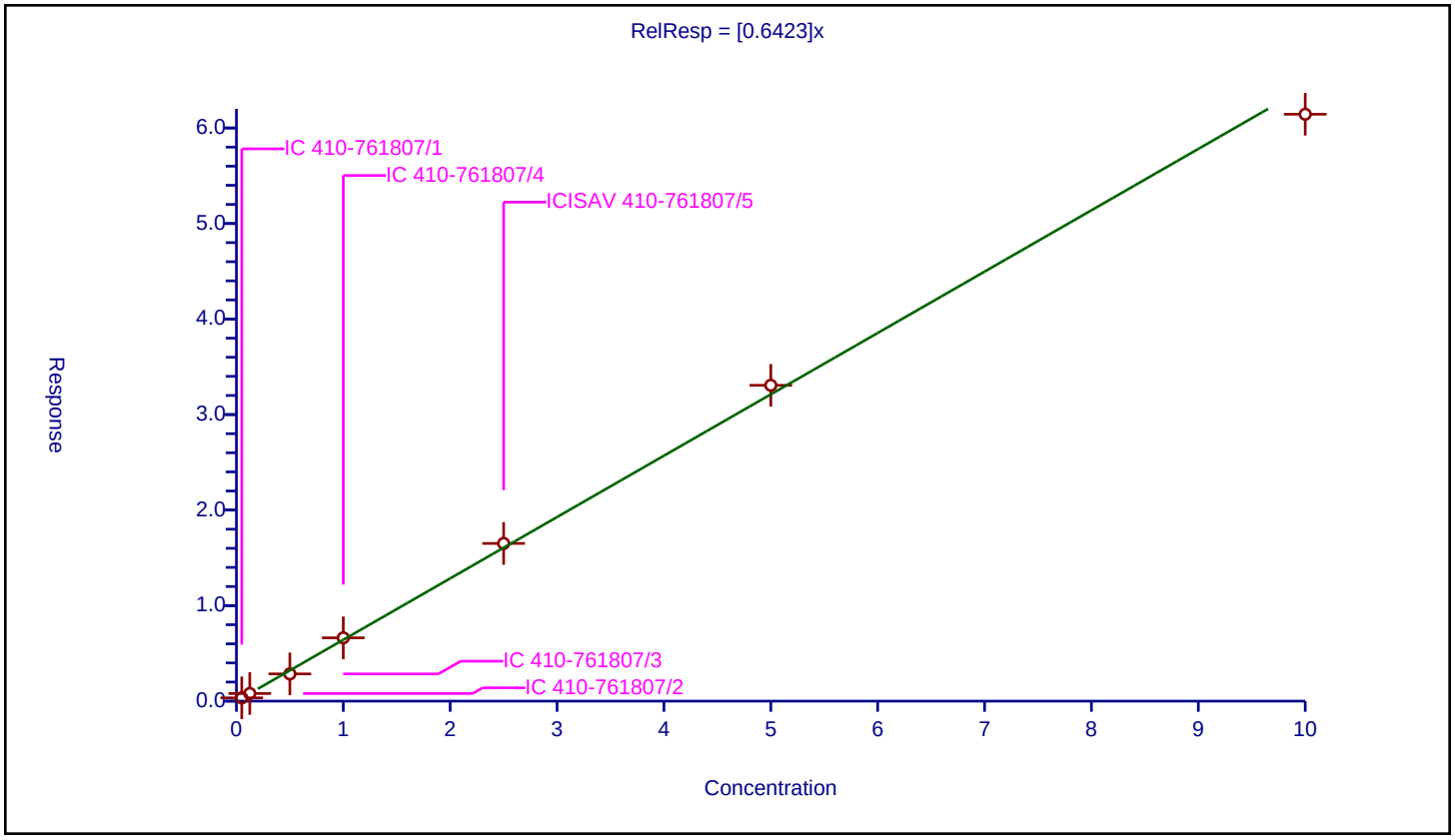
Curve Coefficients

Intercept:	0
Slope:	0.6423

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.034409	2.0	1815880.0	0.688173	Y
2	IC 410-761807/2	0.125	0.079955	2.0	1726411.0	0.639644	Y
3	IC 410-761807/3	0.5	0.284971	2.0	1795787.0	0.569943	Y
4	IC 410-761807/4	1.0	0.662493	2.0	1710515.0	0.662493	Y
5	ICISAV 410-761807/5	2.5	1.65099	2.0	1703670.0	0.660396	Y
6	IC 410-761807/6	5.0	3.306452	2.0	1539793.0	0.66129	Y
7	IC 410-761807/7	10.0	6.143962	2.0	1617979.0	0.614396	Y



Calibration / N-ethylperfluorooctanesulfonamidoacetic acid

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

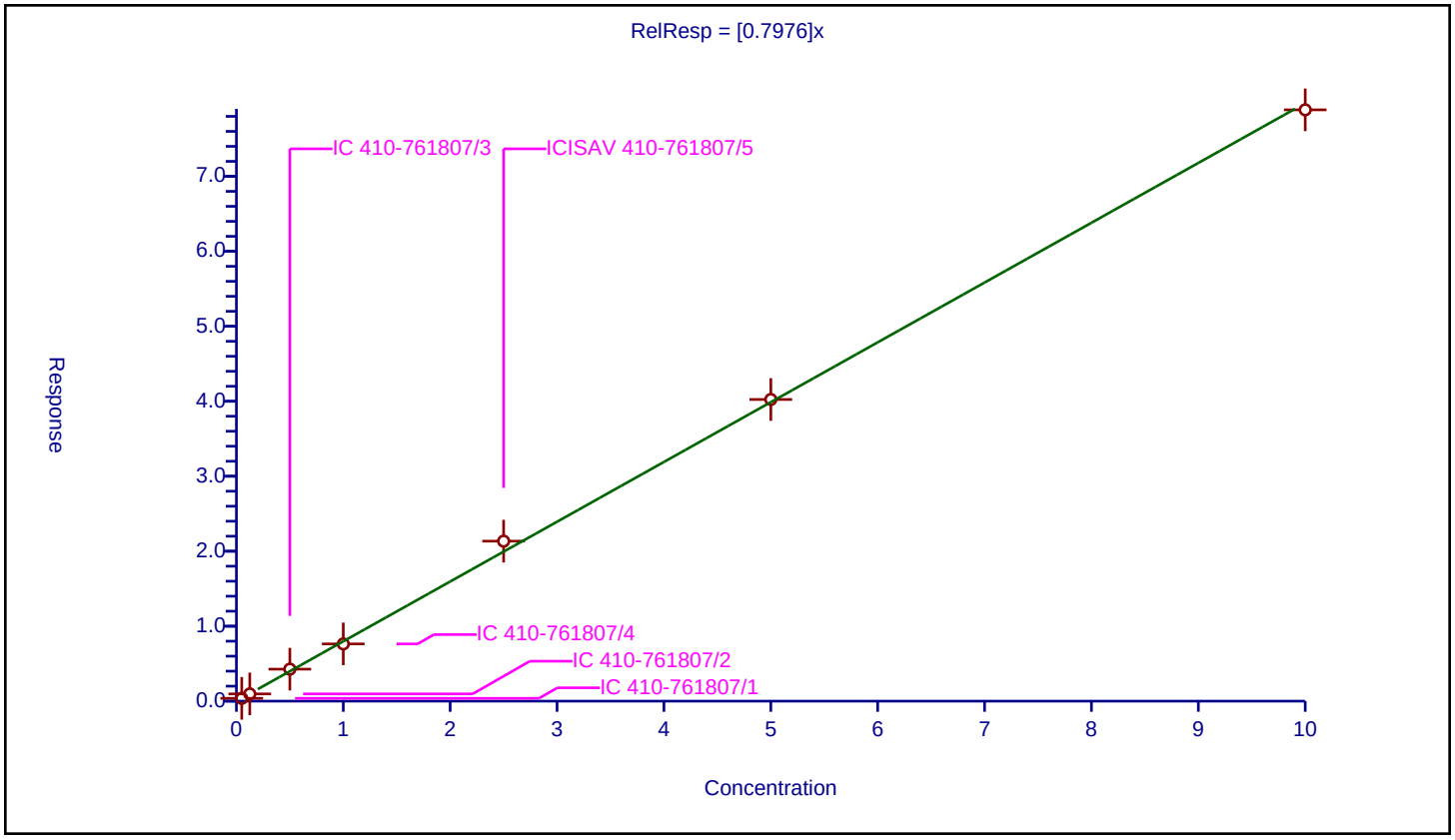
Curve Coefficients

Intercept:	0
Slope:	0.7976

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.037397	5.0	815697.0	0.747949	Y
2	IC 410-761807/2	0.125	0.096363	5.0	816598.0	0.770906	Y
3	IC 410-761807/3	0.5	0.427004	5.0	794699.0	0.854009	Y
4	IC 410-761807/4	1.0	0.763346	5.0	842737.0	0.763346	Y
5	ICISAV 410-761807/5	2.5	2.134212	5.0	786124.0	0.853685	Y
6	IC 410-761807/6	5.0	4.023909	5.0	824452.0	0.804782	Y
7	IC 410-761807/7	10.0	7.887242	5.0	807454.0	0.788724	Y



Calibration / Perfluorooctanesulfonic acid

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

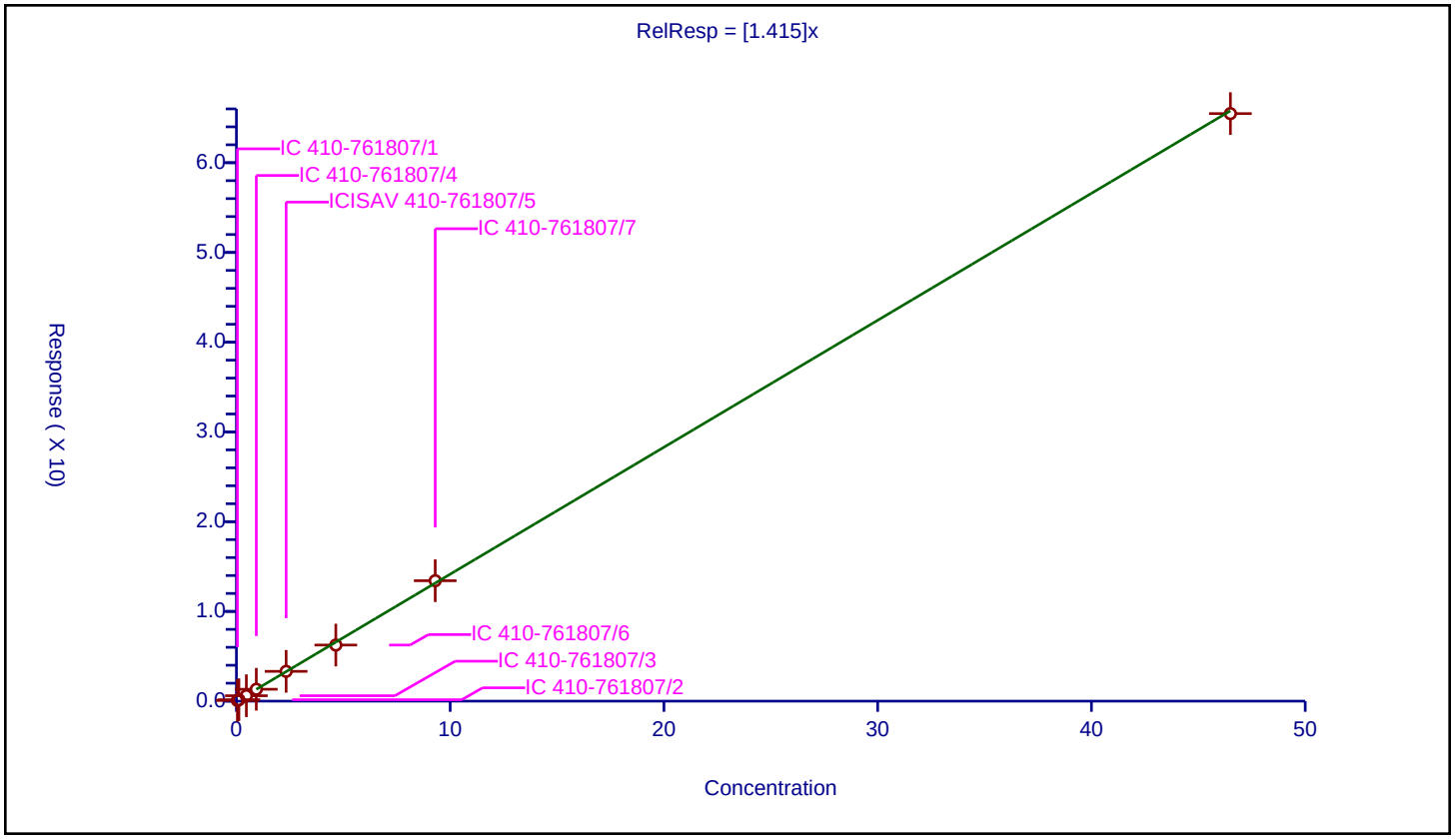
Curve Coefficients

Intercept:	0
Slope:	1.415

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0465	0.074291	1.916	1210631.0	1.597655	Y
2	IC 410-761807/2	0.11625	0.159296	1.916	1302866.0	1.370287	Y
3	IC 410-761807/3	0.465	0.605227	1.916	1254756.0	1.301564	Y
4	IC 410-761807/4	0.93	1.325617	1.916	1236583.0	1.425395	Y
5	ICISAV 410-761807/5	2.325	3.319591	1.916	1207568.0	1.427781	Y
6	IC 410-761807/6	4.65	6.250786	1.916	1245347.0	1.344255	Y
7	IC 410-761807/7	9.3	13.42137	1.916	1164075.0	1.443158	Y
8	IC 410-761807/8	46.5	65.473546	1.916	905070.0	1.408033	Y



Calibration / Perfluoroundecanoic acid

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

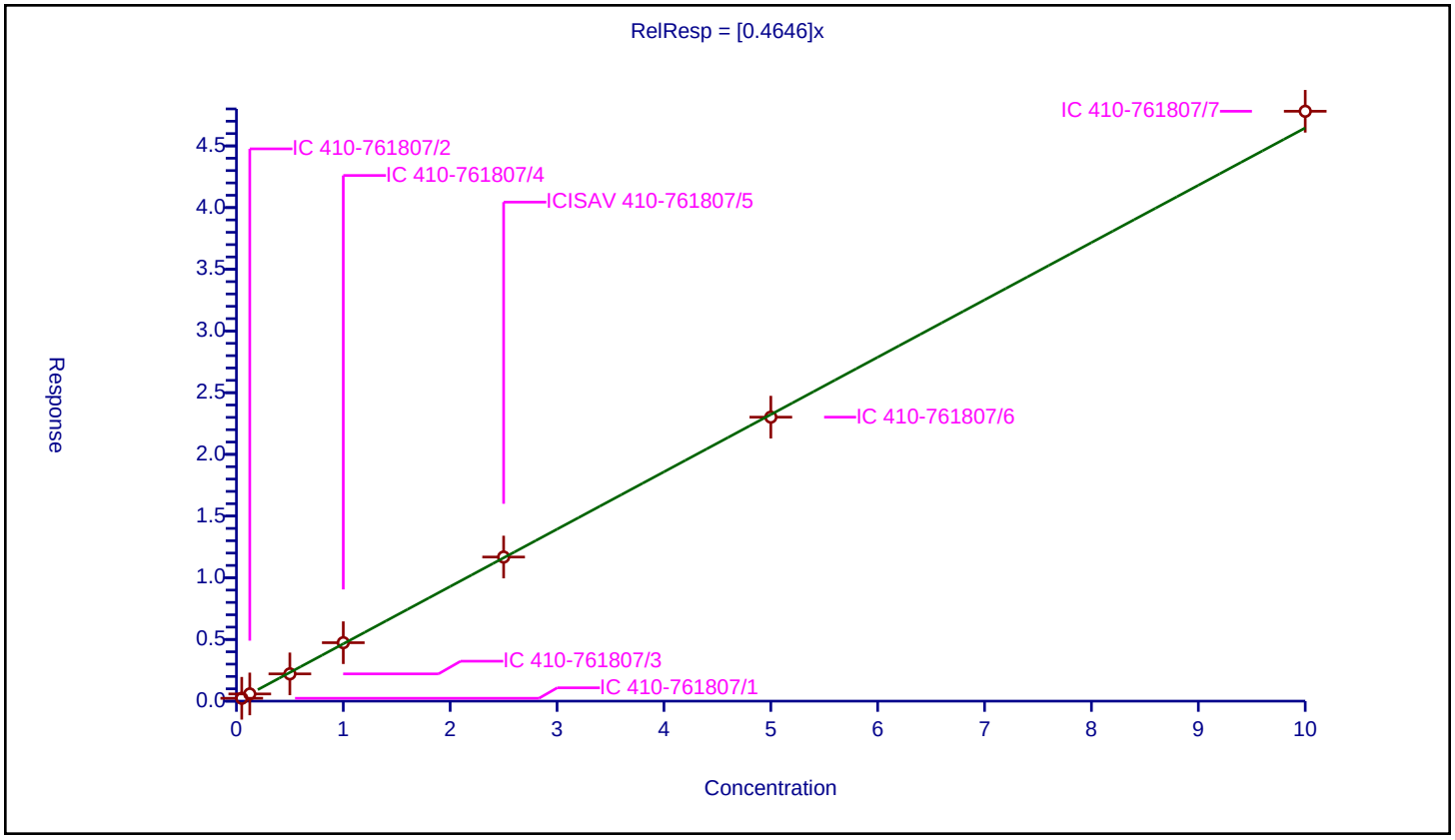
Curve Coefficients

Intercept:	0
Slope:	0.4646

Error Coefficients

Relative Standard Deviation:	2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.02316	2.0	1693454.0	0.463195	Y
2	IC 410-761807/2	0.125	0.058452	2.0	1722039.0	0.467613	Y
3	IC 410-761807/3	0.5	0.220925	2.0	1790839.0	0.441851	Y
4	IC 410-761807/4	1.0	0.473774	2.0	1716382.0	0.473774	Y
5	ICISAV 410-761807/5	2.5	1.16784	2.0	1610810.0	0.467136	Y
6	IC 410-761807/6	5.0	2.301636	2.0	1728873.0	0.460327	Y
7	IC 410-761807/7	10.0	4.780679	2.0	1708354.0	0.478068	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

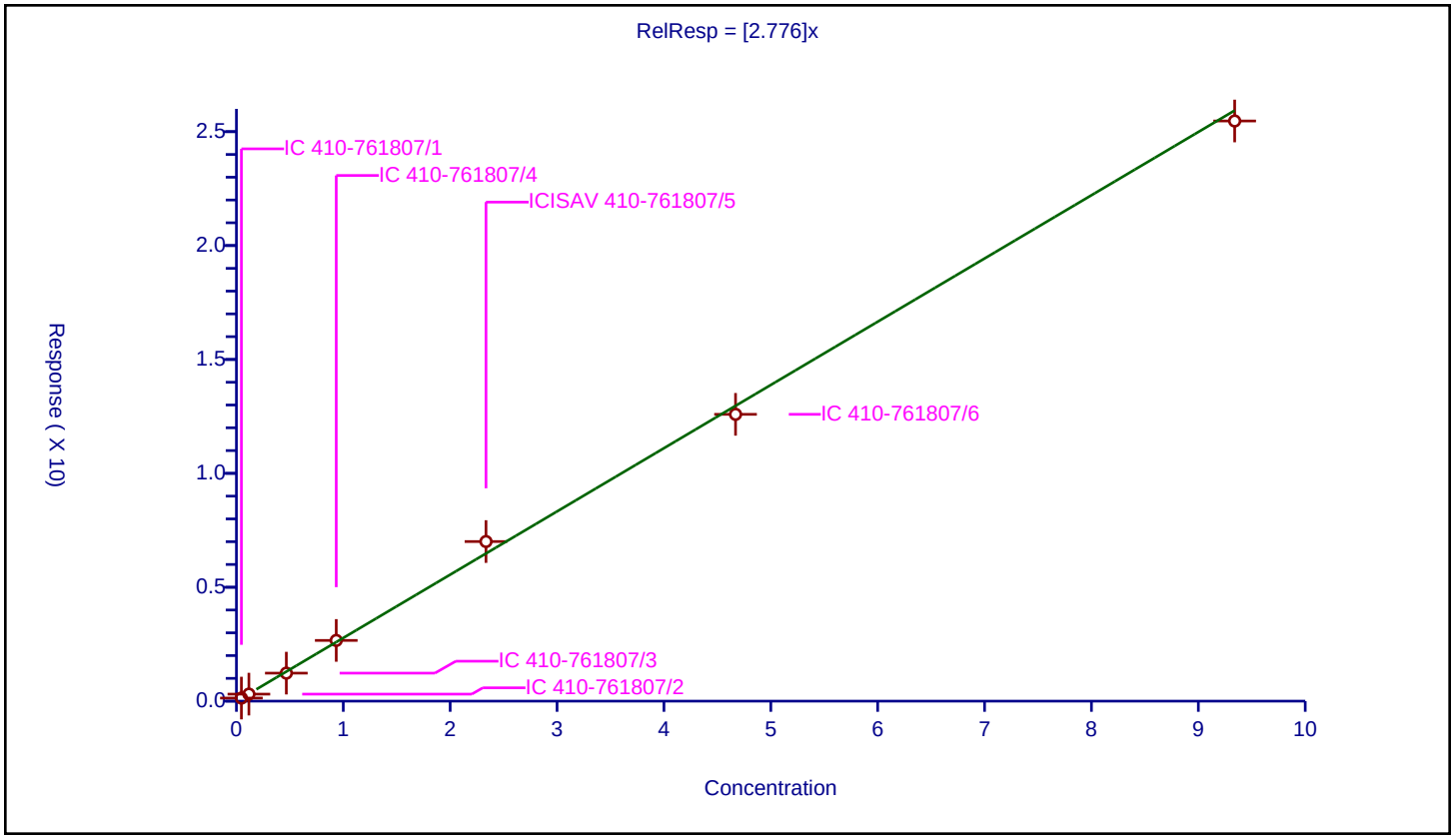
Curve Coefficients

Intercept:	0
Slope:	2.776

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0467	0.13487	1.916	1210631.0	2.888007	Y
2	IC 410-761807/2	0.11675	0.307712	1.916	1302866.0	2.63565	Y
3	IC 410-761807/3	0.467	1.229048	1.916	1254756.0	2.631795	Y
4	IC 410-761807/4	0.934	2.665388	1.916	1236583.0	2.853735	Y
5	ICISAV 410-761807/5	2.335	7.007089	1.916	1207568.0	3.000895	Y
6	IC 410-761807/6	4.67	12.591085	1.916	1245347.0	2.696164	Y
7	IC 410-761807/7	9.34	25.468843	1.916	1164075.0	2.726857	Y



Calibration / Perfluorononanesulfonic acid

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

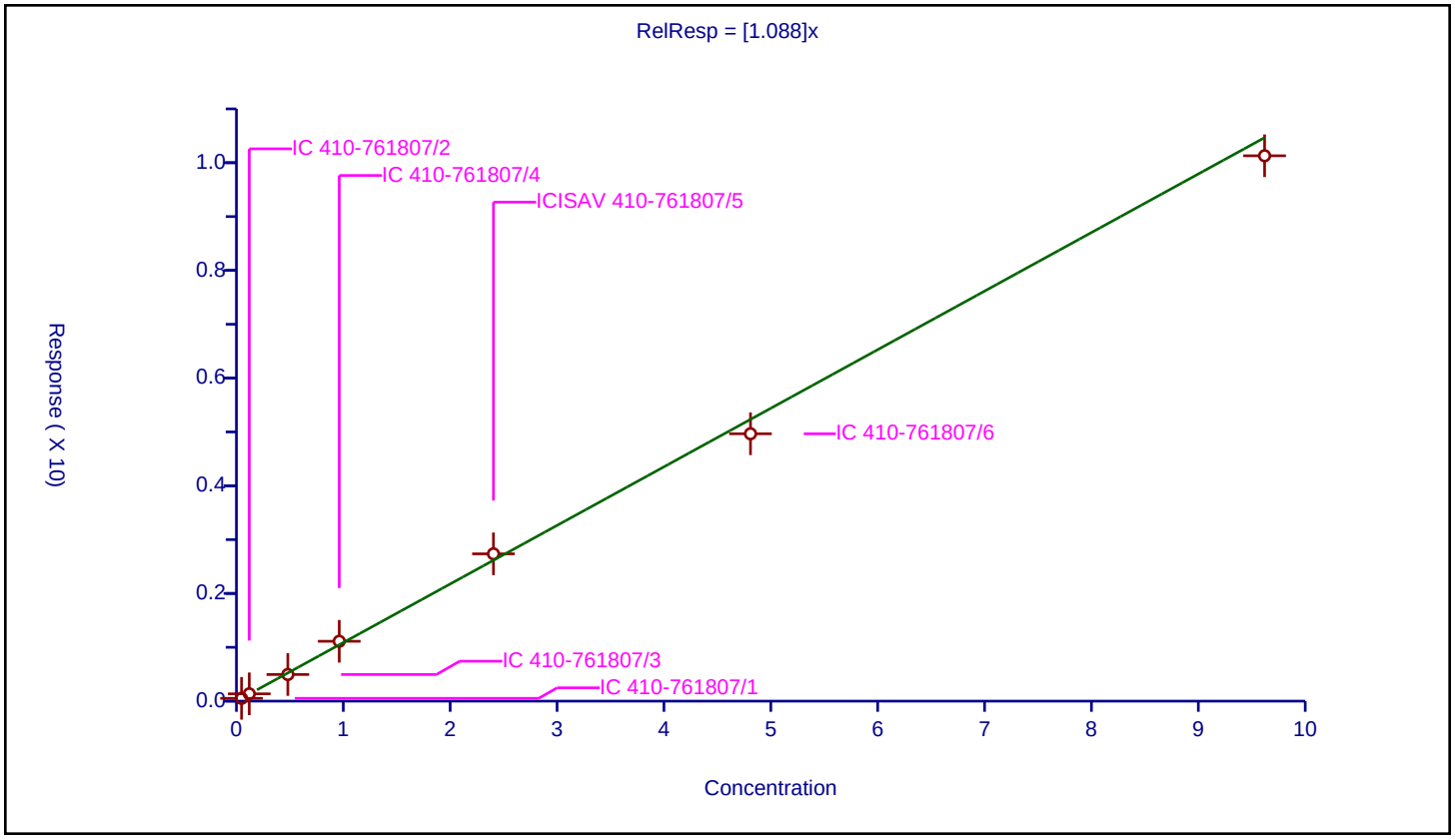
Curve Coefficients

Intercept:	0
Slope:	1.088

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0481	0.052045	1.916	1210631.0	1.082023	Y
2	IC 410-761807/2	0.12025	0.135557	1.916	1302866.0	1.127296	Y
3	IC 410-761807/3	0.481	0.494264	1.916	1254756.0	1.027575	Y
4	IC 410-761807/4	0.962	1.111763	1.916	1236583.0	1.155679	Y
5	ICISAV 410-761807/5	2.405	2.736002	1.916	1207568.0	1.137631	Y
6	IC 410-761807/6	4.81	4.965717	1.916	1245347.0	1.032374	Y
7	IC 410-761807/7	9.62	10.129478	1.916	1164075.0	1.05296	Y



Calibration / Perfluorododecanoic acid

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

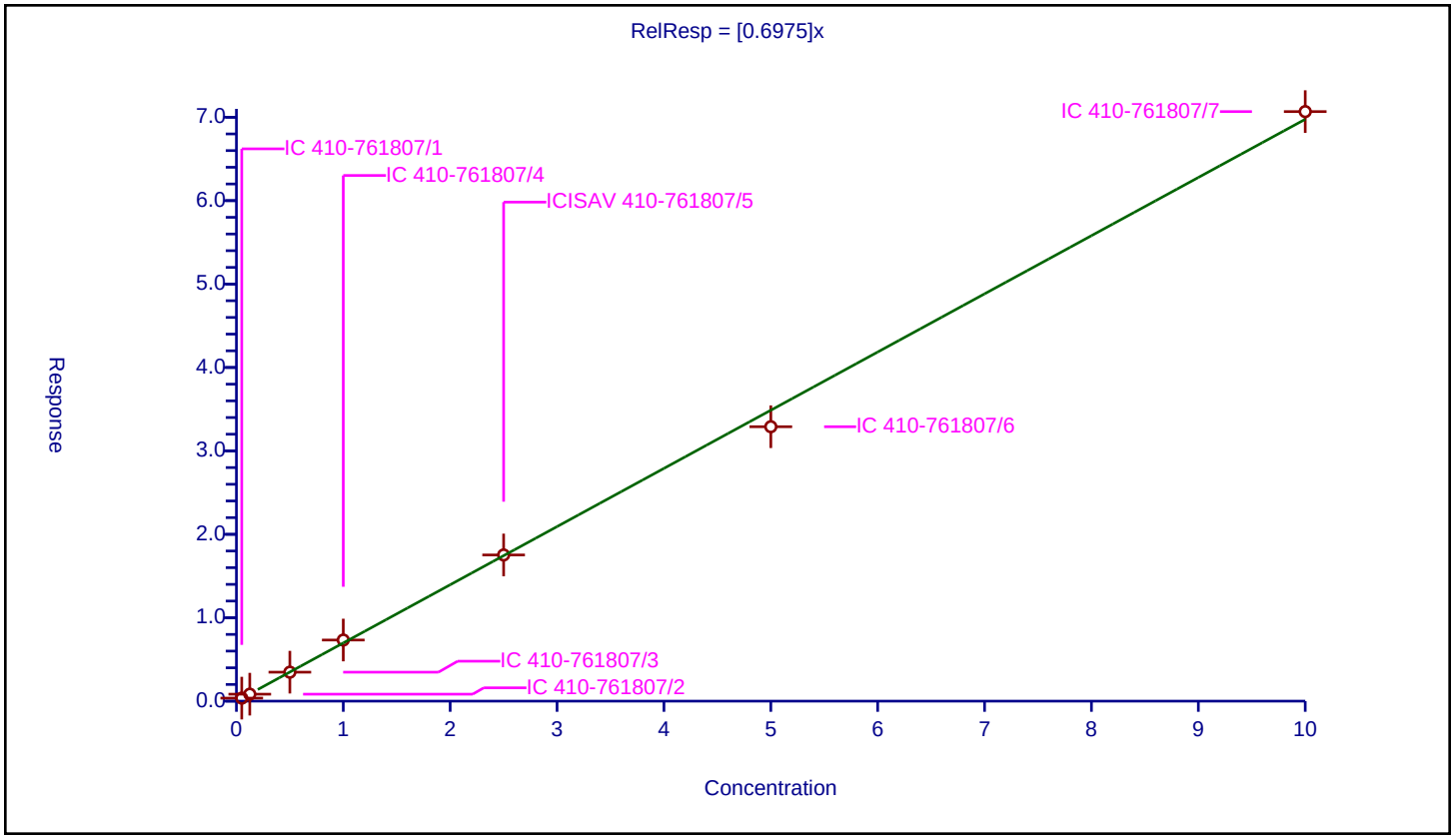
Curve Coefficients

Intercept:	0
Slope:	0.6975

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.036164	2.0	1219595.0	0.723289	Y
2	IC 410-761807/2	0.125	0.083336	2.0	1283792.0	0.666687	Y
3	IC 410-761807/3	0.5	0.347192	2.0	1168899.0	0.694383	Y
4	IC 410-761807/4	1.0	0.732623	2.0	1195355.0	0.732623	Y
5	ICISAV 410-761807/5	2.5	1.752584	2.0	1209220.0	0.701034	Y
6	IC 410-761807/6	5.0	3.289812	2.0	1171375.0	0.657962	Y
7	IC 410-761807/7	10.0	7.067294	2.0	1189597.0	0.706729	Y



Calibration / Perfluorooctanesulfonamide

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

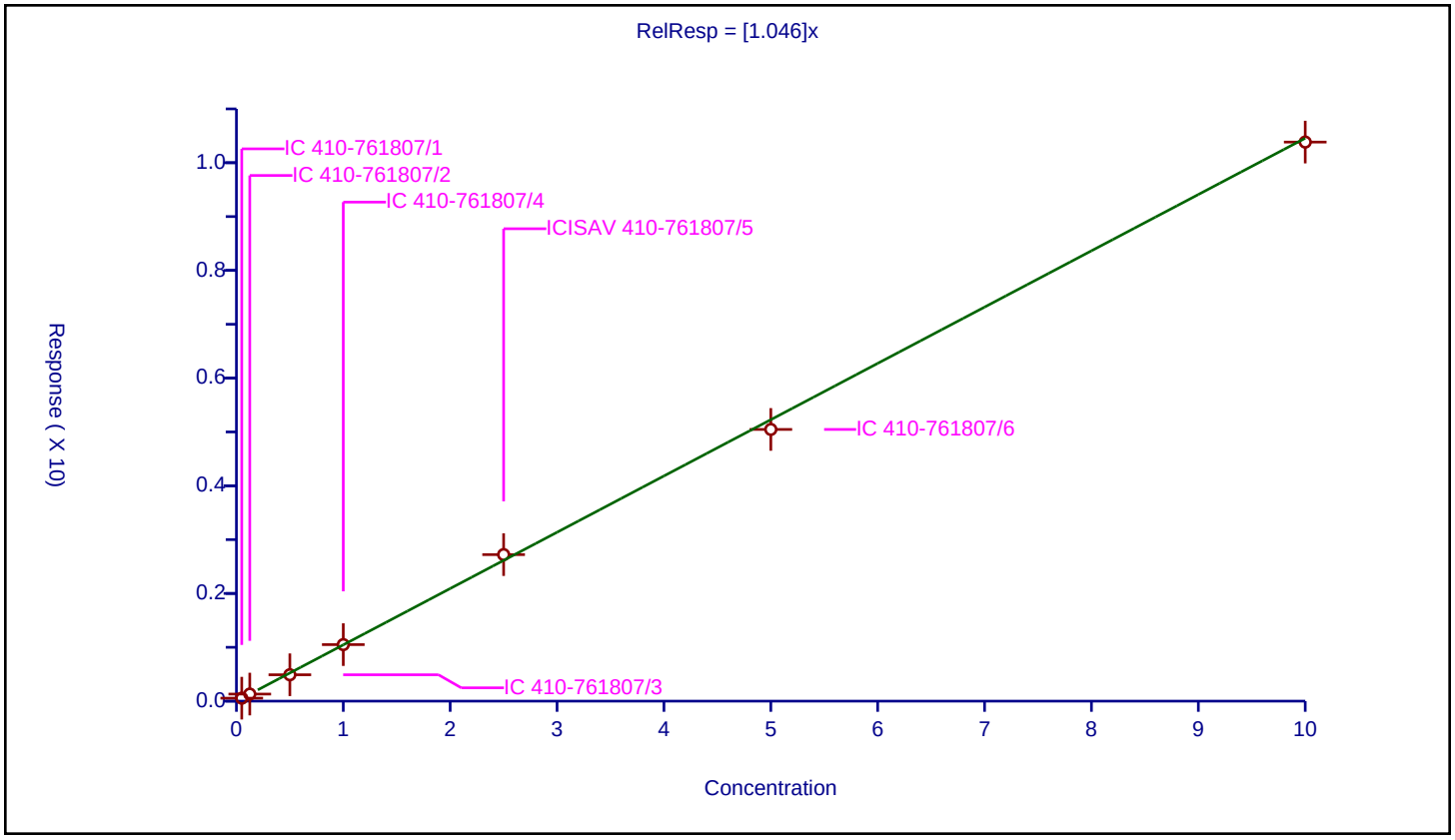
Curve Coefficients

Intercept:	0
Slope:	1.046

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.055024	2.0	1423644.0	1.100472	Y
2	IC 410-761807/2	0.125	0.131502	2.0	1470333.0	1.052017	Y
3	IC 410-761807/3	0.5	0.490044	2.0	1455065.0	0.980088	Y
4	IC 410-761807/4	1.0	1.049846	2.0	1431617.0	1.049846	Y
5	ICISAV 410-761807/5	2.5	2.721489	2.0	1402020.0	1.088596	Y
6	IC 410-761807/6	5.0	5.046272	2.0	1441266.0	1.009254	Y
7	IC 410-761807/7	10.0	10.383435	2.0	1444867.0	1.038343	Y



Calibration / Perfluorodecanesulfonic acid

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

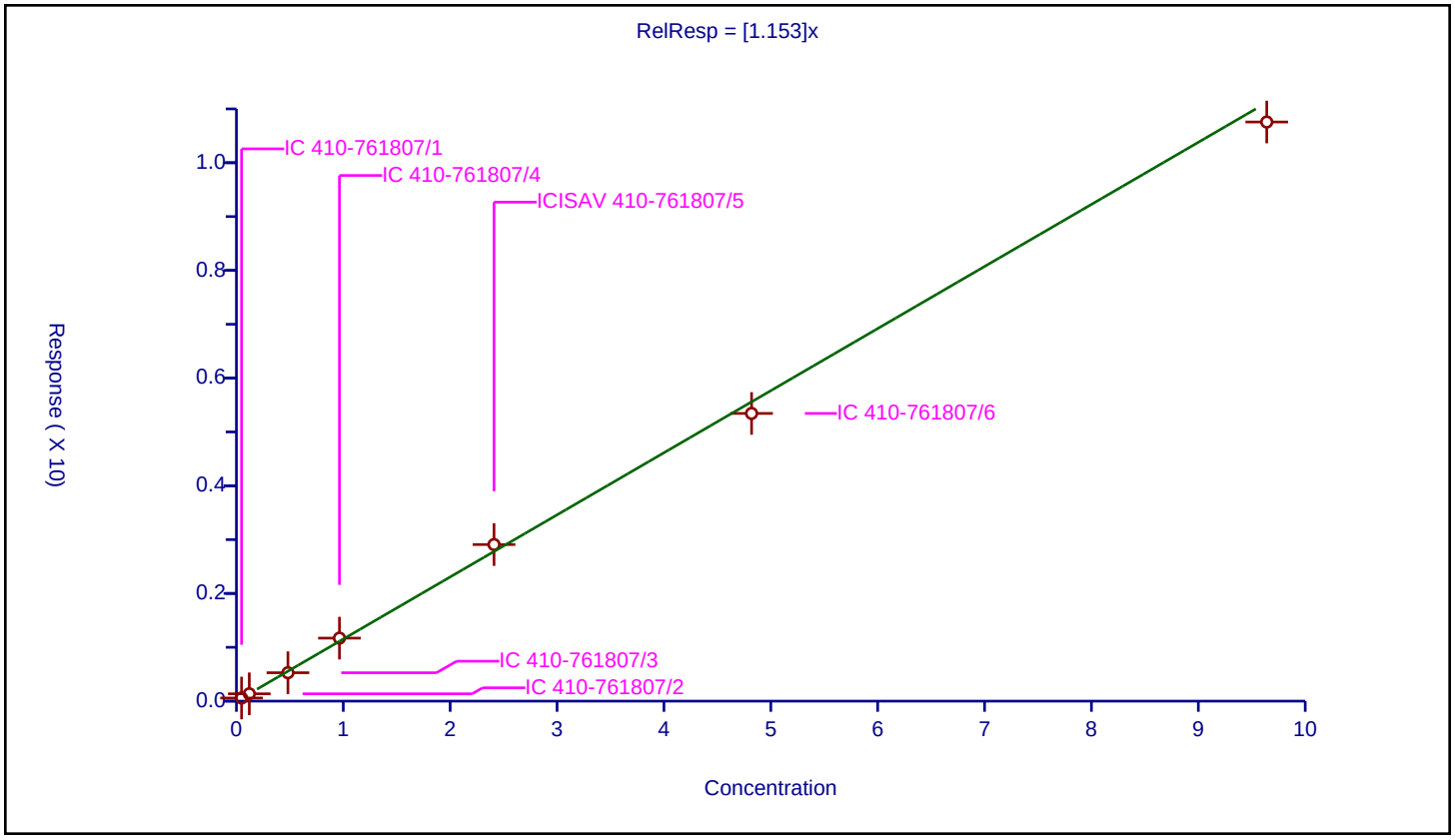
Curve Coefficients

Intercept:	0
Slope:	1.153

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0482	0.058037	1.916	1210631.0	1.204091	Y
2	IC 410-761807/2	0.1205	0.136047	1.916	1302866.0	1.129021	Y
3	IC 410-761807/3	0.482	0.527784	1.916	1254756.0	1.094988	Y
4	IC 410-761807/4	0.964	1.17004	1.916	1236583.0	1.213735	Y
5	ICISAV 410-761807/5	2.41	2.908242	1.916	1207568.0	1.206739	Y
6	IC 410-761807/6	4.82	5.343852	1.916	1245347.0	1.108683	Y
7	IC 410-761807/7	9.64	10.756857	1.916	1164075.0	1.115857	Y



Calibration / Perfluorotridecanoic acid

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

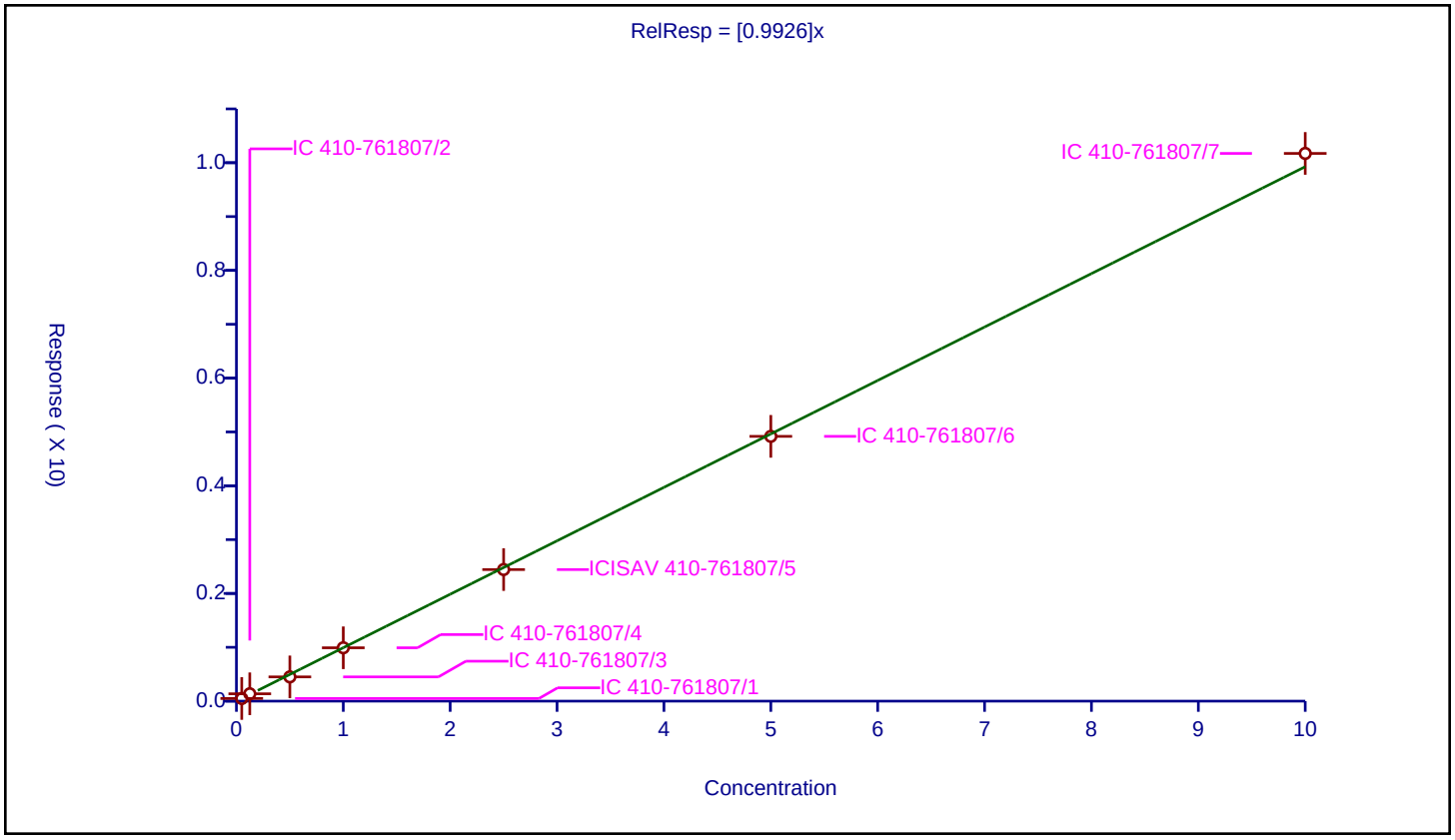
Curve Coefficients

Intercept:	0
Slope:	0.9926

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.049194	2.0	1029763.0	0.983877	Y
2	IC 410-761807/2	0.125	0.136732	2.0	1036053.0	1.093859	Y
3	IC 410-761807/3	0.5	0.45057	2.0	1036757.0	0.901141	Y
4	IC 410-761807/4	1.0	0.991006	2.0	1051673.0	0.991006	Y
5	ICISAV 410-761807/5	2.5	2.443816	2.0	922940.0	0.977527	Y
6	IC 410-761807/6	5.0	4.918087	2.0	965693.0	0.983617	Y
7	IC 410-761807/7	10.0	10.172804	2.0	974641.0	1.01728	Y



Calibration / 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

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

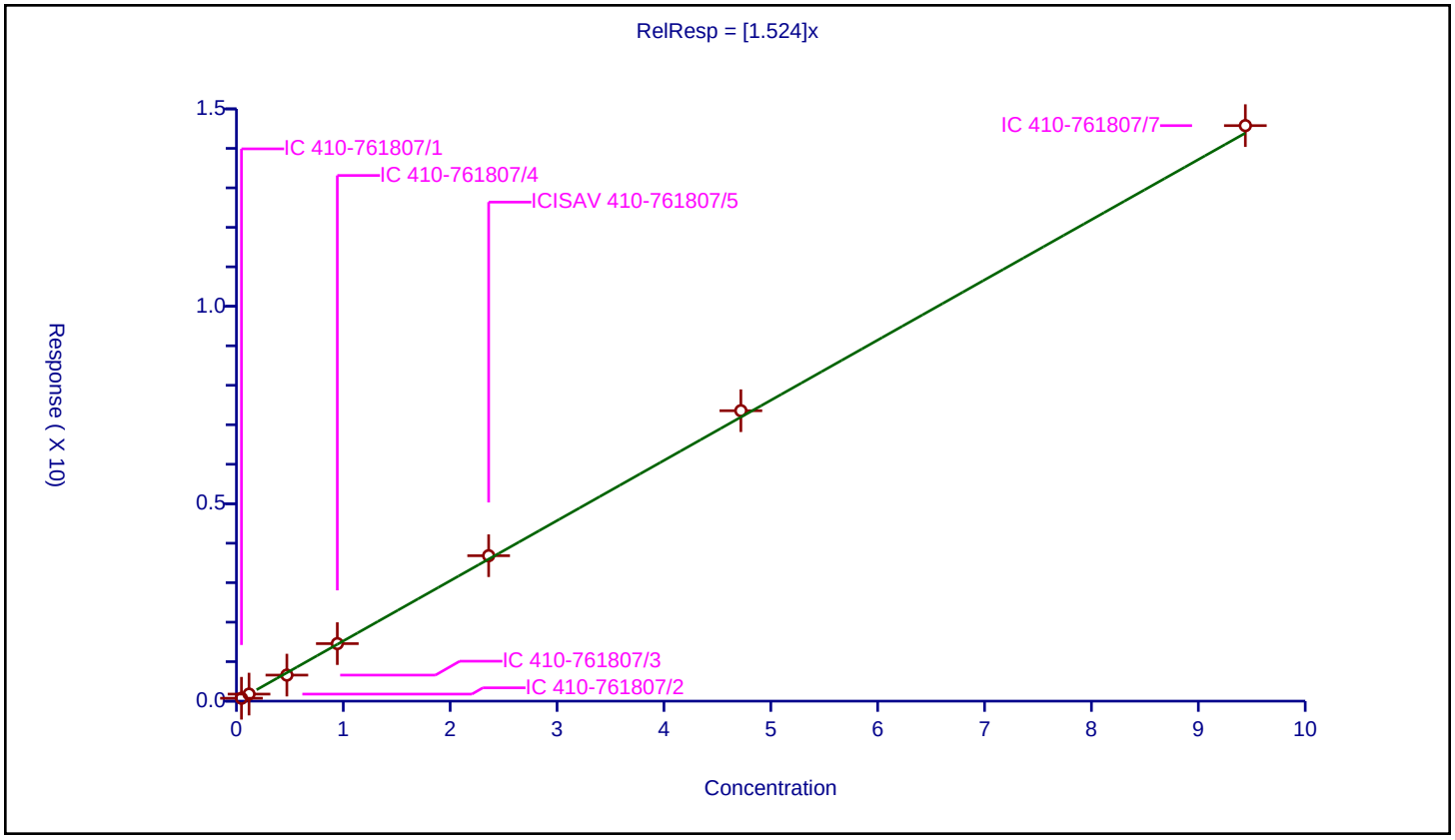
Curve Coefficients

Intercept:	0
Slope:	1.524

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0472	0.073251	1.916	1210631.0	1.551932	Y
2	IC 410-761807/2	0.118	0.178533	1.916	1302866.0	1.51299	Y
3	IC 410-761807/3	0.472	0.659632	1.916	1254756.0	1.397526	Y
4	IC 410-761807/4	0.944	1.456416	1.916	1236583.0	1.542813	Y
5	ICISAV 410-761807/5	2.36	3.683649	1.916	1207568.0	1.560868	Y
6	IC 410-761807/6	4.72	7.356055	1.916	1245347.0	1.558486	Y
7	IC 410-761807/7	9.44	14.576297	1.916	1164075.0	1.544099	Y



Calibration / Perfluorotetradecanoic acid

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

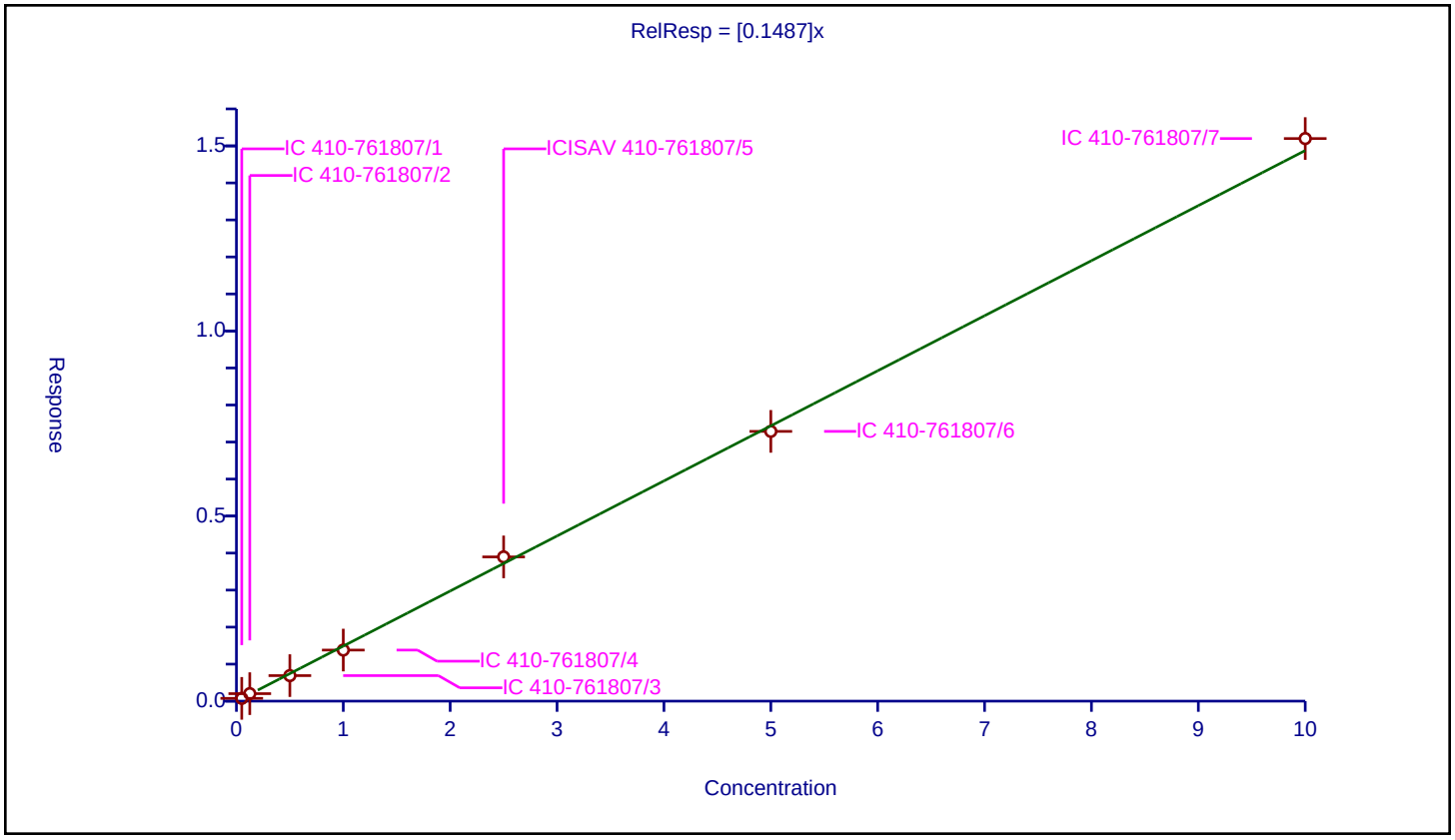
Curve Coefficients

Intercept:	0
Slope:	0.1487

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.007491	2.0	1029763.0	0.149821	Y
2	IC 410-761807/2	0.125	0.02024	2.0	1036053.0	0.161922	Y
3	IC 410-761807/3	0.5	0.068938	2.0	1036757.0	0.137876	Y
4	IC 410-761807/4	1.0	0.137986	2.0	1051673.0	0.137986	Y
5	ICISAV 410-761807/5	2.5	0.389687	2.0	922940.0	0.155875	Y
6	IC 410-761807/6	5.0	0.728784	2.0	965693.0	0.145757	Y
7	IC 410-761807/7	10.0	1.51986	2.0	974641.0	0.151986	Y



Calibration / 2-(N-methylperfluoro-1-octanesulfonamido) ethanol

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

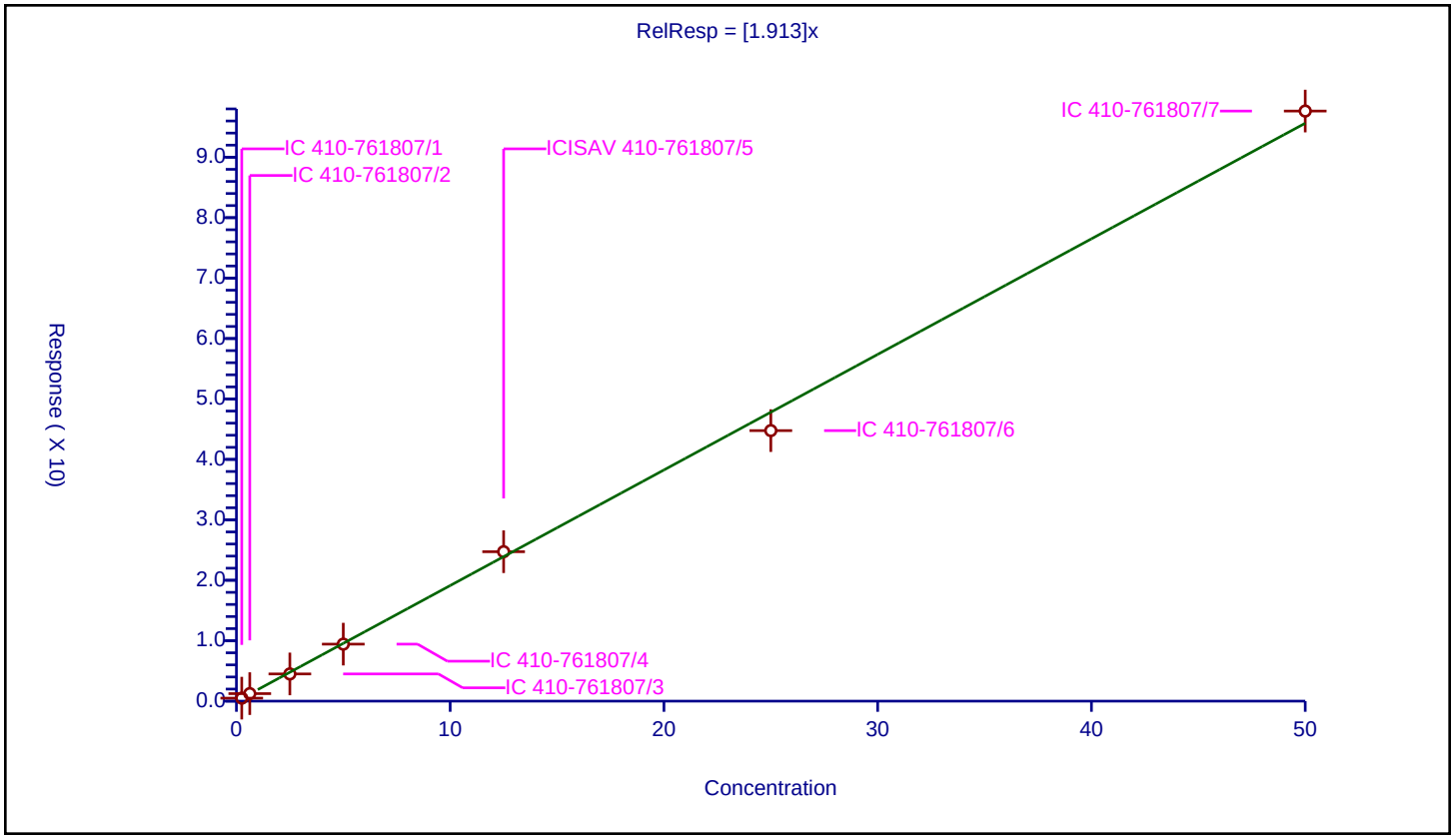
Curve Coefficients

Intercept:	0
Slope:	1.913

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.25	0.497033	5.0	563343.0	1.988132	Y
2	IC 410-761807/2	0.625	1.244422	5.0	573005.0	1.991075	Y
3	IC 410-761807/3	2.5	4.500901	5.0	572942.0	1.80036	Y
4	IC 410-761807/4	5.0	9.433336	5.0	583026.0	1.886667	Y
5	ICISAV 410-761807/5	12.5	24.725259	5.0	531246.0	1.978021	Y
6	IC 410-761807/6	25.0	44.76582	5.0	587156.0	1.790633	Y
7	IC 410-761807/7	50.0	97.642053	5.0	559192.0	1.952841	Y



Calibration / Perfluorododecanesulfonic acid (PFDoS)

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

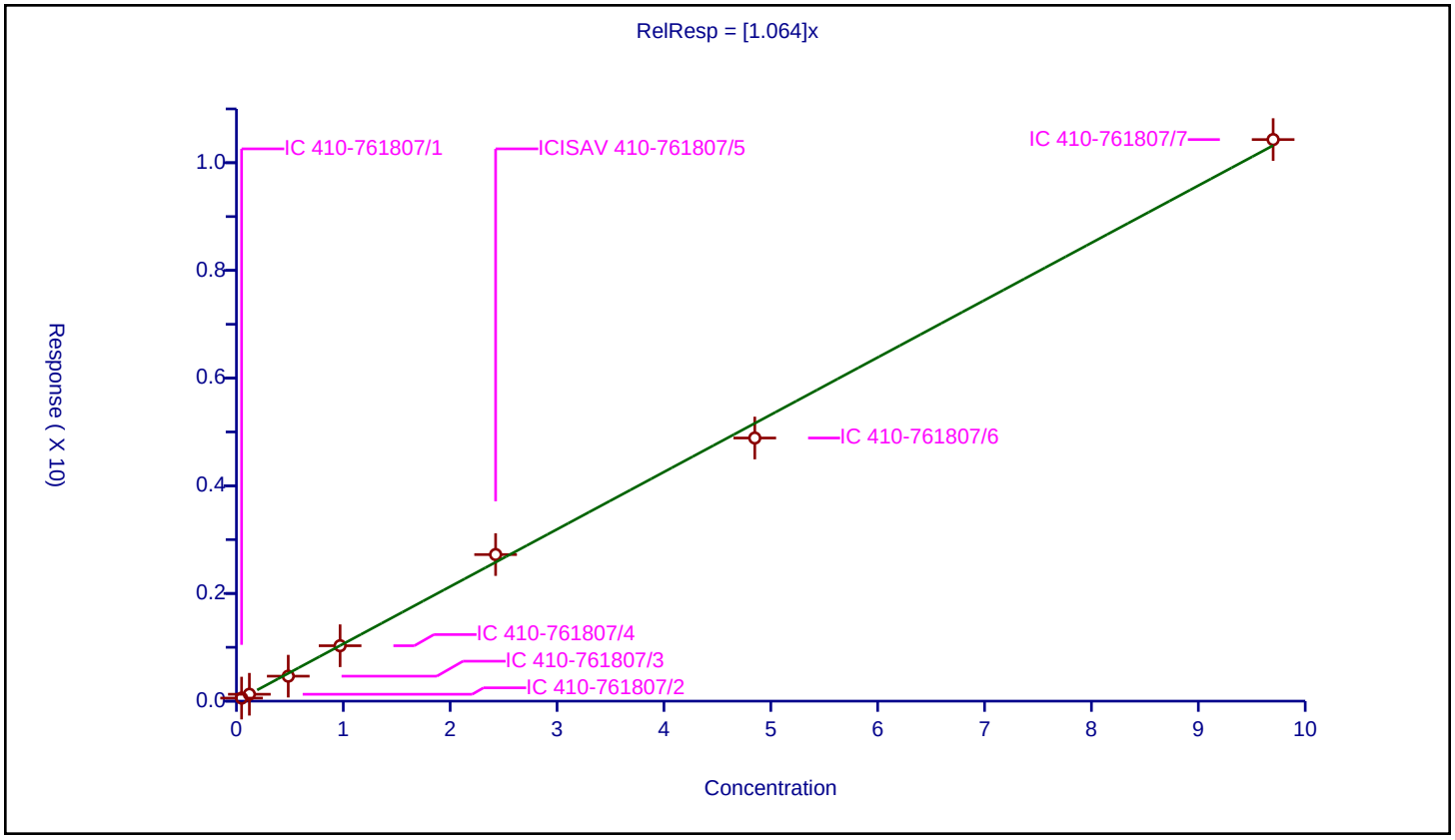
Curve Coefficients

Intercept:	0
Slope:	1.064

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.0485	0.056727	1.916	1210631.0	1.169624	Y
2	IC 410-761807/2	0.12125	0.127906	1.916	1302866.0	1.054893	Y
3	IC 410-761807/3	0.485	0.463938	1.916	1254756.0	0.956573	Y
4	IC 410-761807/4	0.97	1.029039	1.916	1236583.0	1.060865	Y
5	ICISAV 410-761807/5	2.425	2.722366	1.916	1207568.0	1.122625	Y
6	IC 410-761807/6	4.85	4.887056	1.916	1245347.0	1.00764	Y
7	IC 410-761807/7	9.7	10.430106	1.916	1164075.0	1.075269	Y



Calibration / NMeFOSA

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

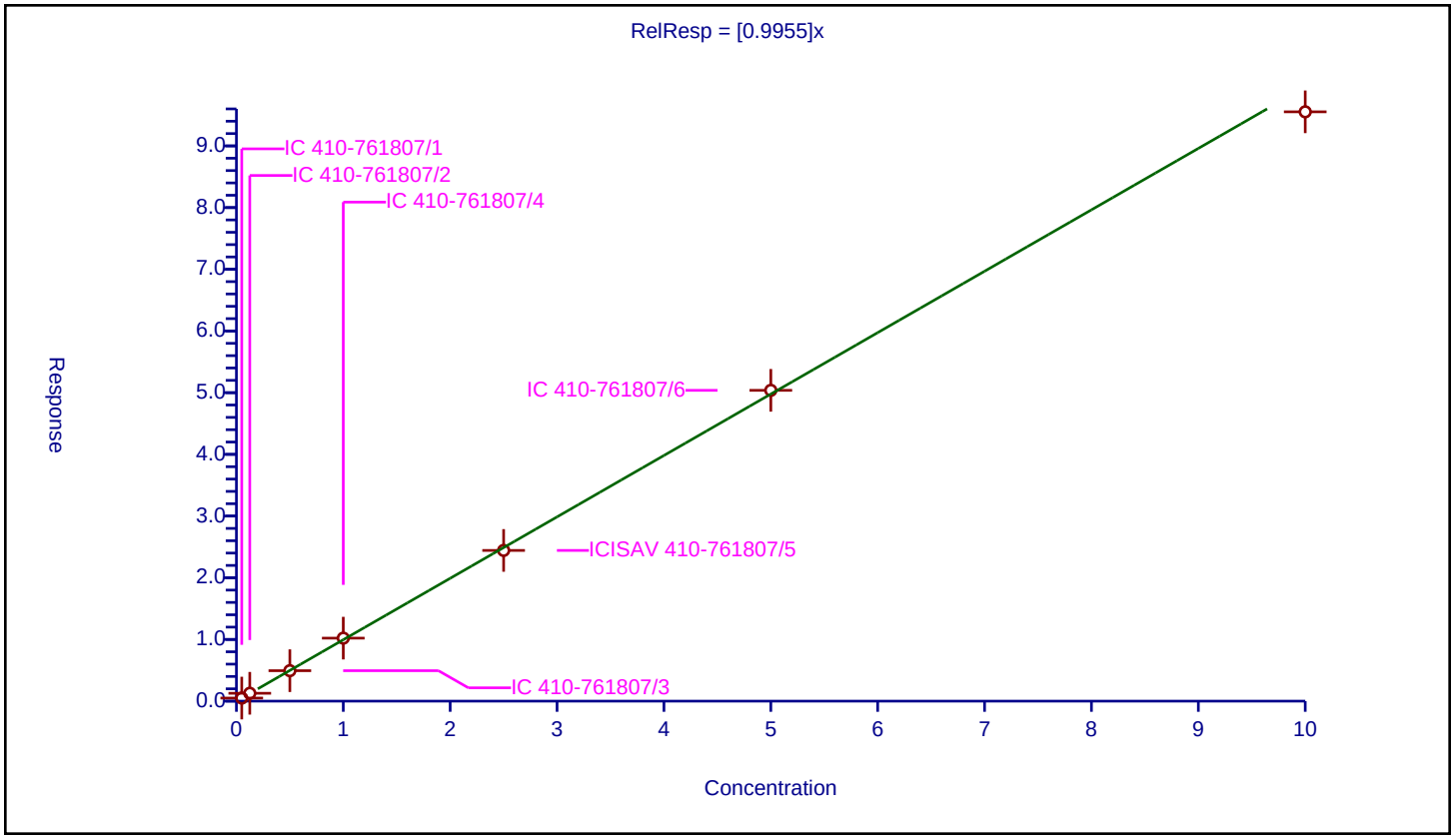
Curve Coefficients

Intercept:	0
Slope:	0.9955

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.049977	2.0	408787.0	0.999543	Y
2	IC 410-761807/2	0.125	0.127533	2.0	398753.0	1.020261	Y
3	IC 410-761807/3	0.5	0.49372	2.0	399032.0	0.98744	Y
4	IC 410-761807/4	1.0	1.021125	2.0	400903.0	1.021125	Y
5	ICISAV 410-761807/5	2.5	2.442983	2.0	414847.0	0.977193	Y
6	IC 410-761807/6	5.0	5.038	2.0	392397.0	1.0076	Y
7	IC 410-761807/7	10.0	9.552474	2.0	427568.0	0.955247	Y



Calibration / 2-(N-ethylperfluoro-1-octanesulfonamido) ethanol

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

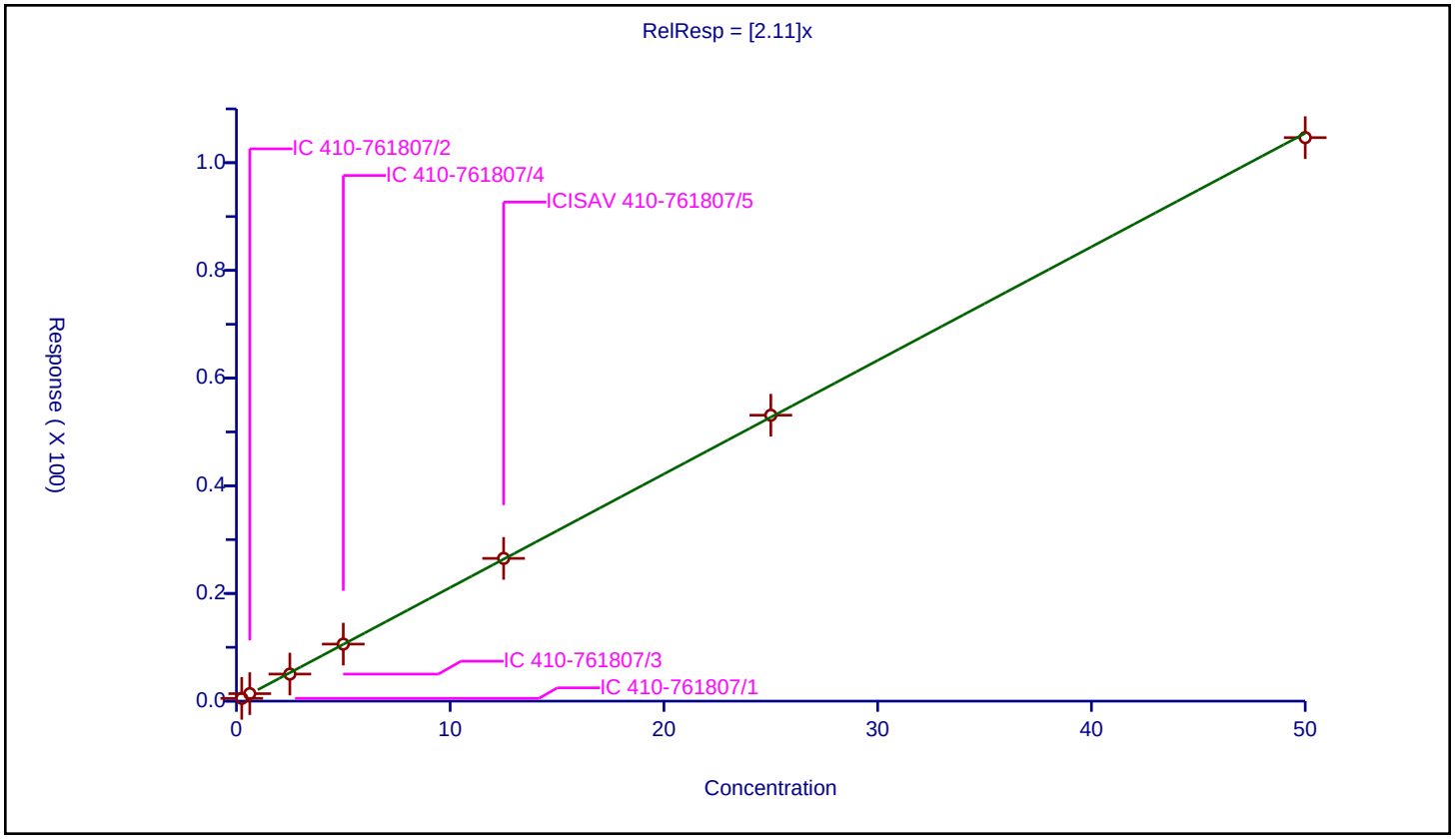
Curve Coefficients

Intercept:	0
Slope:	2.11

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.25	0.518313	5.0	786089.0	2.073251	Y
2	IC 410-761807/2	0.625	1.390674	5.0	733666.0	2.225078	Y
3	IC 410-761807/3	2.5	5.027822	5.0	754616.0	2.011129	Y
4	IC 410-761807/4	5.0	10.594381	5.0	749645.0	2.118876	Y
5	ICISAV 410-761807/5	12.5	26.513464	5.0	748062.0	2.121077	Y
6	IC 410-761807/6	25.0	53.104184	5.0	734193.0	2.124167	Y
7	IC 410-761807/7	50.0	104.661701	5.0	764915.0	2.093234	Y



Calibration / N-ethylperfluoro-1-octanesulfonamide

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

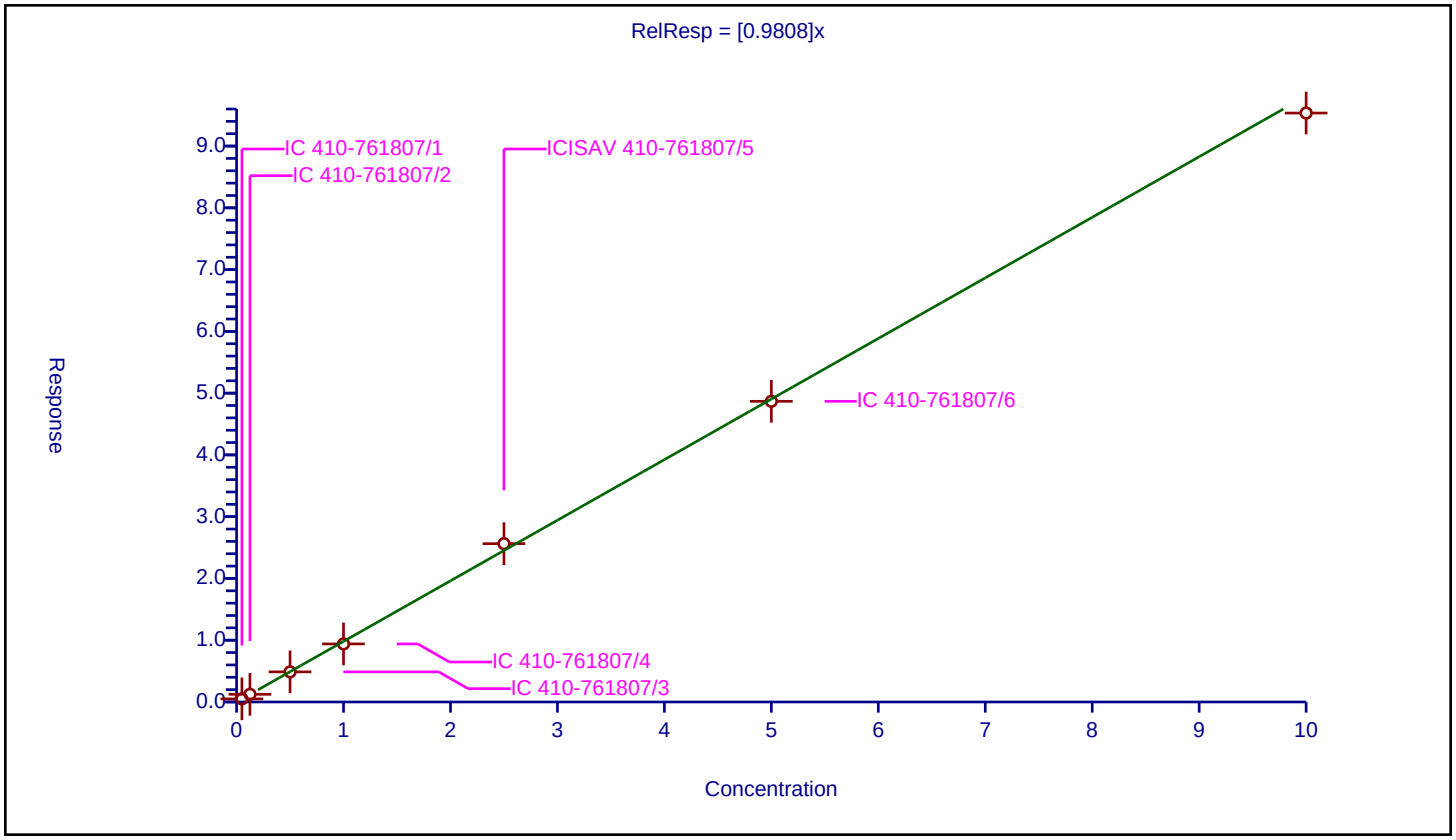
Curve Coefficients

Intercept:	0
Slope:	0.9808

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.050328	2.0	480842.0	1.006568	Y
2	IC 410-761807/2	0.125	0.123927	2.0	485883.0	0.991416	Y
3	IC 410-761807/3	0.5	0.487688	2.0	485491.0	0.975375	Y
4	IC 410-761807/4	1.0	0.940031	2.0	504445.0	0.940031	Y
5	ICISAV 410-761807/5	2.5	2.563375	2.0	483500.0	1.02535	Y
6	IC 410-761807/6	5.0	4.868061	2.0	493583.0	0.973612	Y
7	IC 410-761807/7	10.0	9.534668	2.0	524266.0	0.953467	Y



Calibration / Perfluorooctadecanoic acid

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

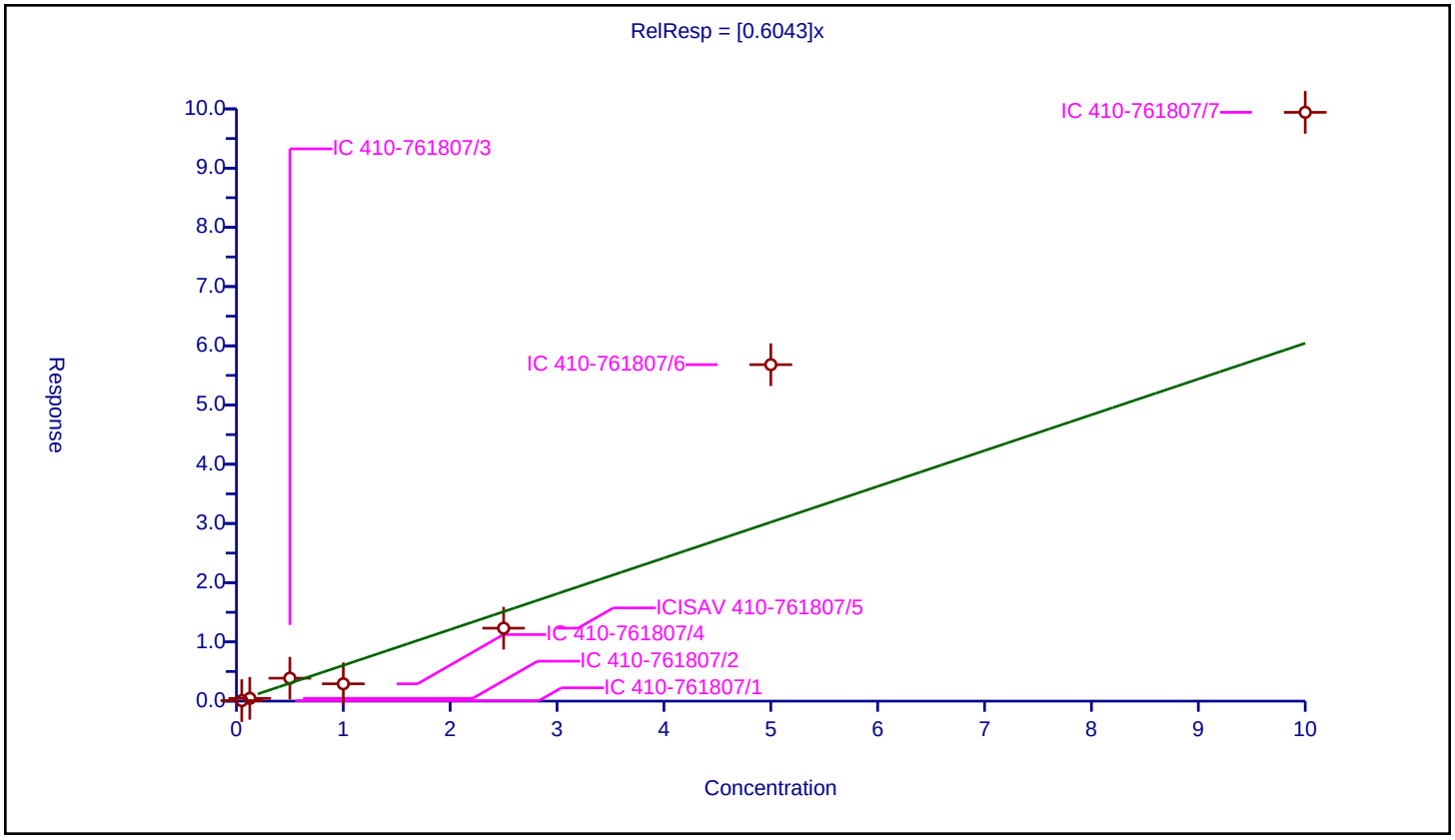
Curve Coefficients

Intercept:	0
Slope:	0.6043

Error Coefficients

Relative Standard Deviation:	61.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-761807/1	0.05	0.008124	2.0	1029763.0	0.162484	Y
2	IC 410-761807/2	0.125	0.047135	2.0	1036053.0	0.377077	Y
3	IC 410-761807/3	0.5	0.387422	2.0	1036757.0	0.774843	Y
4	IC 410-761807/4	1.0	0.292659	2.0	1051673.0	0.292659	Y
5	ICISAV 410-761807/5	2.5	1.231785	2.0	922940.0	0.492714	Y
6	IC 410-761807/6	5.0	5.681621	2.0	965693.0	1.136324	Y
7	IC 410-761807/7	10.0	9.942106	2.0	974641.0	0.994211	Y



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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-764442/1	26FEB04CAL-01.d
Level 2	IC 410-764442/2	26FEB04CAL-02.d
Level 3	IC 410-764442/3	26FEB04CAL-03.d
Level 4	IC 410-764442/4	26FEB04CAL-04.d
Level 5	ICISAV 410-764442/5	26FEB04CAL-05.d
Level 6	IC 410-764442/6	26FEB04CAL-06.d
Level 7	IC 410-764442/7	26FEB04CAL-07.d
Level 8	IC 410-764442/8	26FEB04CAL-08.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluoropropionic acid (PFPrA)	0.9322 0.9064	0.9393 0.9055	0.8823	0.9037	0.9610	AveID		0.9186				2.9		20.0			
Perfluorobutanoic acid (PFBA)	0.9563 0.9170	0.9375 0.9288	0.8842 0.8424	0.9165	0.9667	AveID		0.9187				4.4		20.0			
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.9865 0.9733	1.1009 1.0045	0.9991	1.0027	1.0983	AveID		1.0236				5.2		20.0			
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.0462 0.0479	0.0543 0.0483	0.0482	0.0477	0.0521	AveID		0.0493				5.8		20.0			
Perfluoropentanoic acid (PFPeA)	1.2106 1.1893	1.2426 1.1540	1.2203 1.1212	1.1806	1.2304	AveID		1.1936				3.4		20.0			
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.3061 1.2997	1.3848 1.3071	1.4578	1.3279	1.4017	AveID		1.3550				4.5		20.0			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.8875 1.8467	2.0309 1.7944	1.6658	1.7091	2.0145	AveID		1.8498				7.6		20.0			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.2120 0.2801	0.2931 0.2354	0.2450	0.2224	0.2587	AveID		0.2495				11.9		20.0			
Perfluorohexanoic acid (PFHxA)	0.9884 0.8342	0.8947 0.8427	0.8516 0.7611	0.8511	0.8876	AveID		0.8639				7.5		20.0			
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.1135 0.1212	0.1209 0.1272	0.1307	0.1077	0.1238	AveID		0.1207				6.5		20.0			
Perfluorobutanesulfonic acid (PFBS)	0.8912 0.9314	0.9636 0.8709	0.8709 0.8430	0.8922	0.9030	AveID		0.8958				4.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.1511 1.0495	1.0411 1.1001	1.0498 0.9764	1.0375	1.1647	AveID		1.0713				5.9		20.0			
Perfluorobutanesulfonamide (FBSA)	0.7982 0.8314	0.7828 0.8088	0.7606	0.7780	0.8036	AveID		0.7948				2.9		20.0			
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.2256 2.5237	2.4437 2.2898	2.5370	2.1932	2.5143	AveID		2.3896				6.2		20.0			
Perfluoroheptanoic acid (PFHpA)	0.8310 0.8265	0.9333 0.8372	0.7935 0.7874	0.8583	0.8512	AveID		0.8398				5.4		20.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.6099 3.7558	3.2457 3.5452	3.7980 2.9836	3.4316	3.5445	AveID		3.4893				7.7		20.0			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.9271 1.9161	1.7784 1.7996	1.8932	1.8737	1.9215	AveID		1.8728				3.2		20.0			
Perfluoropentanesulfonic acid (PFPeS)	1.2167 1.1417	1.1805 1.1346	1.1535 1.0220	1.2119	1.1946	AveID		1.1569				5.4		20.0			
Bis(trifluoromethane)sulfonamide (TFSI)	1.9315 2.2819	2.2465 2.2187	2.2125	2.0960	2.2456	AveID		2.1761				5.6		20.0			
Perfluorooctanoic acid (PFOA)	0.7420 0.5931	0.6442 0.6385	0.5706 0.5692	0.5950	0.6072	AveID		0.6200				9.1		20.0			
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.0531 0.0558	0.0536 0.0652	0.0614	0.0540	0.0616	AveID		0.0578				8.4		20.0			
Perfluorohexanesulfonic acid (PFHxS)	0.8535 0.7480	0.8574 0.7557	0.7196 0.7104	0.7582	0.7788	AveID		0.7727				7.2		20.0			
Perfluorononanoic acid (PFNA)	0.8569 0.8546	0.9512 0.8406	0.8437 0.7996	0.8938	0.9083	AveID		0.8686				5.4		20.0			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.7470 1.6579	1.7252 1.7585	1.7646	1.7306	1.7824	AveID		1.7380				2.3		20.0			
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.2340 0.2098	0.2395 0.2283	0.2055	0.2196	0.2366	AveID		0.2248				6.0		20.0			
Perfluoroheptanesulfonic acid (PFHpS)	1.2957 1.1532	1.2721 1.2518	1.2978 1.1578	1.2403	1.3530	AveID		1.2527				5.5		20.0			
N-methylperfluorooctanesulfonamido acetic acid (NMeFOSAA)	1.0046 0.9066	1.0357 0.9996	0.9389	0.9544	0.9759	AveID		0.9737				4.5		20.0			
Perfluorohexanesulfonamide (FHxSA)	1.3022 1.2843	1.3853 1.3197	1.2571	1.2290	1.3491	AveID		1.3038				4.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluorodecanoic acid (PFDA)	0.7330 0.6871	0.7854 0.8010	0.6958	0.7147	0.7277	AveID		0.7350				5.9		20.0			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.7756 0.8778	0.9617 0.8662	0.8175	0.8970	0.9465	AveID		0.8775				7.6		20.0			
Perfluorooctanesulfonic acid (PFOS)	1.4020 1.3125	1.3756 1.3457	1.3396 1.3025	1.3424	1.4142	AveID		1.3543				2.9		20.0			
Perfluoroundecanoic acid (PFUnA)	0.6365 0.7347	0.7569 0.6836	0.6664	0.6426	0.7911	AveID		0.7017				8.5		20.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.7646 2.6150	2.7123 2.8769	2.7068	2.6364	2.9579	AveID		2.7528				4.5		20.0			
Perfluorononanesulfonic acid (PFNS)	0.8476 0.8363	0.8780 0.8645	0.8231	0.8629	0.8762	AveID		0.8555				2.4		20.0			
Perfluorododecanoic acid (PFDoA)	0.9875 0.8884	0.9460 0.8498	0.9086	0.9315	1.0239	AveID		0.9337				6.3		20.0			
Perfluorooctanesulfonamide (PFOSA)	1.1012 1.1079	1.1180 1.1117	1.0662	1.0979	1.1319	AveID		1.1050				1.9		20.0			
Perfluorodecanesulfonic acid (PFDS)	1.1791 1.0672	1.1735 1.1166	1.1180	1.2032	1.1212	AveID		1.1398				4.1		20.0			
Perfluorotridecanoic acid (PFTrDA)	0.9073 0.9506	1.0135 0.9197	0.8066	0.9475	0.8775	AveID		0.9175				7.1		20.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.8795 1.8889	1.7874 2.0300	1.8678	1.9333	1.8907	AveID		1.8968				3.9		20.0			
Perfluorotetradecanoic acid (PFTeDA)	0.1308 0.1123	0.1010 0.1144	0.0940	0.1126	0.1198	AveID		0.1121				10.7		20.0			
Perfluorododecanesulfonic acid (PFDoS)	1.0915 1.0603	1.1483 1.1204	1.1392	1.1479	1.1368	AveID		1.1206				3.0		20.0			
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.3468 2.5416	2.7483 2.4000	2.3338	2.9007	2.6552	AveID		2.5609				8.5		20.0			
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.9727 0.9346	0.9287 0.9208	0.9249	0.9958	0.9645	AveID		0.9489				3.0		20.0			
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	3.4648 3.3403	3.0987 3.3440	3.1965	3.4162	3.2560	AveID		3.3023				3.9		20.0			
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.9428 0.8639	0.8740 0.8399	0.8126	0.8381	0.9151	AveID		0.8695				5.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluoro-n-octadecanoic acid (PFODA)	0.9371 0.9830	0.9233 1.0154	0.7859	0.8653	0.9421	AveId		0.9217				8.3		20.0			
13C3-PFPrA	0.7566 0.7256	0.7698 0.7637	0.7817 +++++	0.7737	0.7378	Ave		0.7584				2.7		20.0			
13C4 PFBA	1.0176 1.0143	1.0576 1.0289	1.0531 1.0167	1.0381	0.9831	Ave		1.0262				2.3		20.0			
13C5 PFPeA	0.9217 0.8731	0.8576 0.9241	0.9075 0.7863	0.8748	0.8275	Ave		0.8716				5.5		20.0			
13C2 4:2 FTS	0.2303 0.2326	0.2429 0.2344	0.2571 +++++	0.2418	0.2217	Ave		0.2372				4.8		20.0			
13C5 PFHxA	1.0778 1.0196	1.0572 1.0710	1.1109 1.0469	1.0826	1.0112	Ave		1.0597				3.1		20.0			
13C3 PFBS	1.2223 1.2894	1.2471 1.3662	1.3083 1.1965	1.2736	1.2796	Ave		1.2729				4.1		20.0			
13C3 HFPO-DA	0.7348 0.6665	0.7384 0.7360	0.7541 0.7041	0.7513	0.6867	Ave		0.7215				4.4		20.0			
13C4 PFHpA	1.0349 1.0623	0.9983 1.0698	1.1304 1.0072	0.9807	0.9915	Ave		1.0344				4.9		20.0			
13C2 6:2 FTS	0.2115 0.1858	0.2109 0.1798	0.2235 +++++	0.2108	0.1815	Ave		0.2005				8.8		20.0			
13C8 PFOA	1.0162 1.0269	1.0242 0.9985	1.0117 1.0117	1.0253	1.0352	Ave		1.0187				1.1		20.0			
13C3 PFHxS	1.0565 1.0955	1.0361 1.1295	1.0985 1.0856	1.0798	1.0325	Ave		1.0767				3.1		20.0			
13C9 PFNA	1.0704 1.0530	1.0469 1.0522	0.9844 1.0668	1.0377	0.9676	Ave		1.0349				3.7		20.0			
13C2 8:2 FTS	0.2127 0.2090	0.2120 0.1999	0.2152 +++++	0.2045	0.1965	Ave		0.2071				3.4		20.0			
d3-NMeFOSAA	0.5148 0.5319	0.5168 0.5169	0.5243 +++++	0.5122	0.4925	Ave		0.5156				2.4		20.0			
13C6 PFDA	0.9896 1.0239	1.0321 0.9835	1.0030 0.9684	1.0038	0.8812	Ave		0.9857				4.8		20.0			
d5-NEtFOSAA	0.4709 0.4426	0.4519 0.4615	0.4494 +++++	0.4411	0.3999	Ave		0.4453				5.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
13C8 PFOS	1.1652 1.1412	1.1579 1.0729	1.0947 1.0997	1.1040	1.0673	Ave		1.1129				3.4		20.0			
13C7 PFUnA	1.0223 0.9569	0.9735 0.9750	1.0471 1.0582	1.0047	0.8216	Ave		0.9824				7.6		20.0			
13C2 PFDoA	0.9178 0.9662	0.9585 1.0129	0.9983 0.9402	0.9487	0.8122	Ave		0.9443				6.5		20.0			
13C8 FOSA	1.1991 1.1808	1.1640 1.1689	1.1323 +++++	1.1290	1.0622	Ave		1.1480				4.0		20.0			
13C2 PFTeDA	0.8381 0.8662	0.9244 0.8380	0.9579 0.7964	0.8109	0.7643	Ave		0.8495				7.6		20.0			
d7-N-MeFOSE-M	0.0970 0.0928	0.0909 0.0988	0.1001 +++++	0.0795	0.0863	Ave		0.0922				8.0		20.0			
d3-NMePFOSA	0.3694 0.3754	0.3641 0.3913	0.3457 +++++	0.3477	0.3546	Ave		0.3640				4.5		20.0			
d9-N-EtFOSE-M	0.0962 0.0976	0.1077 0.1044	0.0998 +++++	0.0922	0.0976	Ave		0.0994				5.2		20.0			
d5-NEtPFOSA	0.4543 0.4834	0.4755 0.5031	0.4580 +++++	0.4661	0.4348	Ave		0.4679				4.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-764442/1	26FEB04CAL-01.d
Level 2	IC 410-764442/2	26FEB04CAL-02.d
Level 3	IC 410-764442/3	26FEB04CAL-03.d
Level 4	IC 410-764442/4	26FEB04CAL-04.d
Level 5	ICISAV 410-764442/5	26FEB04CAL-05.d
Level 6	IC 410-764442/6	26FEB04CAL-06.d
Level 7	IC 410-764442/7	26FEB04CAL-07.d
Level 8	IC 410-764442/8	26FEB04CAL-08.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Perfluoropropionic acid (PFPrA)		AveID	157836 13845109	392965 27872967	1509784	3136793	7886805	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorobutanoic acid (PFBA)		AveID	87105 7831357	215550 15406616	815308 51360982	1707265	4228774	0.100 10.0	0.250 20.0	1.00 100	2.00	5.00
Perfluoro-3-methoxypropanoic acid (PFMPA)		AveID	44818 4103090	120254 8635205	418325	902341	2303994	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
3-Perfluoropropylpropanoic acid (3:3 FTCA)		AveID	4199 404071	11873 830901	40391	85833	218460	0.100 10.0	0.250 20.0	1.00	2.00	5.00
Perfluoropentanoic acid (PFPeA)		AveID	55000 5013834	135739 9920768	510931 37054471	1062392	2581136	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
Perfluoro-4-methoxybutanoic acid (PFMBA)		AveID	59338 5479285	151272 11236924	610396	1194906	2940523	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)		AveID	38801 3423902	108038 6407144	349853	718128	1924756	0.0938 9.38	0.235 18.8	0.938	1.88	4.69
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		AveID	11261 1378991	39466 2345127	125583	247675	663089	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorohexanoic acid (PFHxA)		AveID	52510 4106803	120478 8395805	436466 33489856	947870	2275267	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
3-Perfluoropentylpropanoic acid (5:3 FTCA)		AveID	30151 2982765	81384 6334014	334930	599474	1586122	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorobutanesulfonic acid (PFBS)		AveID	46025 4531925	124589 8578936	440635 30197543	934726	2356827	0.0444 4.44	0.111 8.88	0.444 44.4	0.888	2.22
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		AveID	31269	73435	273922	601379	1520605	0.0375	0.0938	0.375	0.750	1.88

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 460-344047-1 | Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 | GC Column: Gemini C18 ID: 3(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 | Calibration End Date: 02/04/2026 11:14 | Calibration ID: 81502

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			2532906	5648678	28896701			3.75	7.50	50.0		
Perfluorobutanesulfonamide (FBSA)		AveID	46423 4555554	113972 8972059	433393	917901	2361942	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)		AveID	105465 11082651	293530 20349028	1159863	2178710	5748943	0.0446 4.46	0.112 8.92	0.446	0.892	2.23
Perfluoroheptanoic acid (PFHpA)		AveID	42394 4238987	118669 8331533	413798 33334805	865826	2139606	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveID	123687 11433368	288764 22960089	1250028 62648413	2508930	5837054	0.0473 4.73	0.118 9.46	0.473 35.5	0.946	2.37
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)		AveID	36914 2881092	83380 5002833	350887	696688	1525073	0.0952 9.52	0.238 19.0	0.952	1.90	4.76
Perfluoropentanesulfonic acid (PFPeS)		AveID	57488 4995967	134229 9780459	518714 35158639	1139546	2663288	0.0470 4.70	0.118 9.40	0.470 47.0	0.940	2.35
Bis(trifluoromethane)sulfonamide (TFSI)		AveID	95051 10399965	266042 19919634	1036209	2052598	5213996	0.0490 4.90	0.122 9.79	0.490	0.979	2.45
Perfluorooctanoic acid (PFOA)		AveID	49797 3974546	115052 8238143	407811 33818886	869841	2140874	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
3-Perfluoroheptylpropanoic acid (7:3 FTCA)		AveID	14105 1373195	36096 3246409	157323	300710	789621	0.250 25.0	0.625 50.0	2.50	5.00	12.5
Perfluorohexanesulfonic acid (PFHxS)		AveID	39126 3175845	94583 6320687	313981 23712112	691726	1684474	0.0456 4.56	0.114 9.12	0.456 45.6	0.912	2.28
Perfluorononanoic acid (PFNA)		AveID	48242 4317125	128369 8284001	427704 34174548	970897	2241289	0.0500 5.00	0.125 10.0	0.500 50.0	1.00	2.50
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)		AveID	33940 2826794	81998 5479669	317546	629591	1544377	0.0960 9.60	0.240 19.2	0.960	1.92	4.80
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)		AveID	10870 902562	26766 1934194	90834	203007	518545	0.0462 4.62	0.116 9.24	0.462	0.924	2.31
Perfluoroheptanesulfonic acid (PFHpS)		AveID	53599 4614751	130356 9162028	505845 33123622	1005543	2694401	0.0477 4.77	0.119 9.54	0.477 47.7	0.954	2.39
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveID	19244 1772669	49651 3695119	183731	376294	940031	0.0500 5.00	0.125 10.0	0.500	1.00	2.50

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Perfluorohexanesulfonamide (FHxSA)		AveID	65457 5978613	167567 12102997	601373	1229371	3199563	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorodecanoic acid (PFDA)		AveID	42913 3711051	113069 7822174	385003	854858	1976697	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveID	13590 1427937	40314 2858975	137129	304584	740306	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveID	56539 5120338	137417 9601591	509026 36327050	1060916	2745457	0.0465 4.65	0.116 9.30	0.465 46.5	0.930	2.33
Perfluoroundecanoic acid (PFUnA)		AveID	38497 3708050	102782 6617875	384947	769323	2003387	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O		AveID	111970 10245047	272109 20614782	1032917	2092512	5767097	0.0467 4.67	0.117 9.34	0.467	0.934	2.34
Perfluorononanesulfonic acid (PFNS)		AveID	35358 3374767	90723 6379933	323500	705403	1759491	0.0481 4.81	0.120 9.62	0.481	0.962	2.41
Perfluorododecanoic acid (PFDoA)		AveID	53617 4527514	126485 8545388	500394	1052892	2563500	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorooctanesulfonamide (PFOSA)		AveID	49143 4808521	120717 9292564	450601	954045	2351705	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	49287 4315508	121513 8258193	440335	985647	2256246	0.0482 4.82	0.121 9.64	0.482	0.964	2.41
Perfluorotridecanoic acid (PFTrDA)		AveID	47124 4593974	133098 8450329	435207	993213	2132206	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF		AveID	76936 7479699	181237 14701723	720402	1550936	3725787	0.0472 4.72	0.118 9.44	0.472	0.944	2.36
Perfluorotetradecanoic acid (PFTeDA)		AveID	6485 513019	13025 951858	49683	108815	282140	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluorododecanesulfonic acid (PFDoS)		AveID	45909 4314298	119640 8337721	451477	946219	2301931	0.0485 4.85	0.121 9.70	0.485	0.970	2.43
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)		AveID	42338 4334561	115827 8475999	436165	887068	2241983	0.250 25.0	0.625 50.0	2.50	5.00	12.5
N-methylperfluorooctane sulfonamide (NMeFOSA)		AveID	13371 1289569	31363 2576670	119333	266541	669041	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)		AveID	62034	154857	595220	1212398	3109395	0.250	0.625	2.50	5.00	12.5

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			5992722	12479674				25.0	50.0			
N-ethylperfluorooctane sulfonamide (NEtFOSA)		AveID	15937 1535082	38557 3021215	138886	300676	778316	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	46463 4491327	119051 8448879	415264	836050	2219554	0.0500 5.00	0.125 10.0	0.500	1.00	2.50
13C3-PFPrA	13C3PFBA	Ave	1354473 1221950	1338726 1231335	1368914 +++++	1388419	1313151	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
13C4 PFBA	13C3PFBA	Ave	1821694 1708120	1839284 1658805	1844138 1219352	1862879	1749814	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C5 PFPeA	PFHxA	Ave	1817250 1686294	1747761 1719302	1674813 1322005	1799757	1678287	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C2 4:2 FTS	PFHxS	Ave	1027842 927027	1063964 892662	1050107 +++++	1050444	955447	4.69 4.69	4.69 4.69	4.69 +++++	4.69	4.69
13C5 PFHxA	PFHxA	Ave	2125006 1969261	2154530 1992540	2050169 1760060	2227308	2050674	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C3 PFBS	PFHxS	Ave	2168069 2042659	2171131 2067716	2124156 1503894	2199170	2191444	1.86 1.86	1.86 1.86	1.86 1.86	1.86	1.86
13C3 HFPO-DA	PFHxA	Ave	1448764 1287185	1504764 1369222	1391661 1183788	1545729	1392637	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C4 PFHpA	PFHxA	Ave	2040507 2051571	2034433 1990334	2086011 1693366	2017593	2010853	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C2 6:2 FTS	PFHxS	Ave	957766 751792	937720 694978	926687 +++++	929550	793696	4.76 4.76	4.76 4.76	4.76 +++++	4.76	4.76
13C8 PFOA	PFOA	Ave	2684320 2680380	2857409 2580488	2858973 2376639	2924058	2820480	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C3 PFHxS	PFHxS	Ave	1906099 1765298	1834765 1738785	1814092 1387840	1896586	1798668	1.90 1.90	1.90 1.90	1.90 1.90	1.90	1.90
13C9 PFNA	PFNA	Ave	2251923 2020573	2159229 1971079	2027864 1709573	2172609	1974145	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C2 8:2 FTS	PFHxS	Ave	971376 852524	950610 779019	899791 +++++	909477	866472	4.80 4.80	4.80 4.80	4.80 +++++	4.80	4.80
d3-NMeFOSAA	PFOS	Ave	1915605 1955238	1917674 1848250	1956894 +++++	1971309	1926542	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
13C6 PFDA	PFDA	Ave	2341872 2160338	2303371 1953046	2213198 2259986	2392090	2173026	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
d5-NEtFOSAA	PFOS	Ave	1752247 1626768	1676820 1650215	1677455 +++++	1697755	1564224	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
13C8 PFOS	PFOS	Ave	1661672 1607412	1646445 1469928	1565652 1149156	1628209	1599873	1.92 1.92	1.92 1.92	1.92 1.92	1.92	1.92
13C7 PFUnA	PFDA	Ave	2419195 2018855	2172557 1936102	2310642 2469591	2394229	2025991	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C2 PFDoA	PFDA	Ave	2171847 2038532	2139215 2011267	2202802 2194248	2260704	2002866	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
13C8 FOSA	PFOS	Ave	1784995 1736098	1727560 1671709	1690468 +++++	1737945	1662121	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
13C2 PFTeDA	PFDA	Ave	1983357 1827510	2063104 1664135	2113678 1858543	1932305	1884769	2.00 2.00	2.00 2.00	2.00 2.00	2.00	2.00
d7-N-MeFOSE-M	PFOS	Ave	360811 341093	337161 353168	373773 +++++	305810	337744	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
d3-NMePFOSA	PFOS	Ave	549842 551897	540338 559689	516063 +++++	535307	554921	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00
d9-N-EtFOSE-M	PFOS	Ave	358082 358813	399805 373195	372416 +++++	354899	381993	5.00 5.00	5.00 5.00	5.00 +++++	5.00	5.00
d5-NEtPFOSA	PFOS	Ave	676189 710787	705817 719454	683694 +++++	717507	680436	2.00 2.00	2.00 2.00	2.00 +++++	2.00	2.00

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-764442/1	26FEB04CAL-01.d
Level 2	IC 410-764442/2	26FEB04CAL-02.d
Level 3	IC 410-764442/3	26FEB04CAL-03.d
Level 4	IC 410-764442/4	26FEB04CAL-04.d
Level 5	ICISAV 410-764442/5	26FEB04CAL-05.d
Level 6	IC 410-764442/6	26FEB04CAL-06.d
Level 7	IC 410-764442/7	26FEB04CAL-07.d
Level 8	IC 410-764442/8	26FEB04CAL-08.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Perfluoropropionic acid (PFPrA)	1.5 -1.4	2.3	-4.0	-1.6	4.6	-1.3	30 30	30	30	30	30	30
Perfluorobutanoic acid (PFBA)	4.1 1.1	2.1 -8.3	-3.8	-0.2	5.2	-0.2	30 30	30 30	30	30	30	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	-3.6 -1.9	7.5	-2.4	-2.0	7.3	-4.9	30 30	30	30	30	30	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	-6.2 -1.9	10.3	-2.1	-3.2	5.7	-2.7	30 30	30	30	30	30	30
Perfluoropentanoic acid (PFPeA)	1.4 -3.3	4.1 -6.1	2.2	-1.1	3.1	-0.4	30 30	30 30	30	30	30	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	-3.6 -3.5	2.2	7.6	-2.0	3.4	-4.1	30 30	30	30	30	30	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.0 -3.0	9.8	-9.9	-7.6	8.9	-0.2	30 30	30	30	30	30	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	-15.0 -5.7	17.5	-1.8	-10.9	3.7	12.3	30 30	30	30	30	30	30
Perfluorohexanoic acid (PFHxA)	14.4 -2.5	3.6 -11.9	-1.4	-1.5	2.7	-3.4	30 30	30 30	30	30	30	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	-5.9 5.4	0.2	8.3	-10.8	2.5	0.4	30 30	30	30	30	30	30
Perfluorobutanesulfonic acid (PFBS)	-0.5 -2.8	7.6 -5.9	-2.8	-0.4	0.8	4.0	30 30	30 30	30	30	30	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	7.5 2.7	-2.8 -8.9	-2.0	-3.2	8.7	-2.0	30 30	30 30	30	30	30	30
Perfluorobutanesulfonamide (FBSA)	0.4 1.8	-1.5	-4.3	-2.1	1.1	4.6	30 30	30	30	30	30	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	-6.9 -4.2	2.3	6.2	-8.2	5.2	5.6	30 30	30	30	30	30	30

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Perfluoroheptanoic acid (PFHpA)	-1.0 -0.3	11.1 -6.2	-5.5	2.2	1.4	-1.6	30 30	30 30	30	30	30	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.5 1.6	-7.0 -14.5	8.8	-1.7	1.6	7.6	30 30	30 30	30	30	30	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.9 -3.9	-5.0	1.1	0.0	2.6	2.3	30 30	30	30	30	30	30
Perfluoropentanesulfonic acid (PFPeS)	5.2 -1.9	2.0 -11.7	-0.3	4.8	3.3	-1.3	30 30	30 30	30	30	30	30
Bis(trifluoromethane)sulfonamide (TFSI)	-11.2 2.0	3.2	1.7	-3.7	3.2	4.9	30 30	30	30	30	30	30
Perfluorooctanoic acid (PFOA)	19.7 3.0	3.9 -8.2	-8.0	-4.0	-2.1	-4.3	30 30	30 30	30	30	30	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	-8.1 12.7	-7.3	6.2	-6.6	6.6	-3.5	30 30	30	30	30	30	30
Perfluorohexanesulfonic acid (PFHxS)	10.5 -2.2	11.0 -8.1	-6.9	-1.9	0.8	-3.2	30 30	30 30	30	30	30	30
Perfluorononanoic acid (PFNA)	-1.3 -3.2	9.5 -7.9	-2.9	2.9	4.6	-1.6	30 30	30 30	30	30	30	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.5 1.2	-0.7	1.5	-0.4	2.6	-4.6	30 30	30	30	30	30	30
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.1 1.6	6.5	-8.6	-2.3	5.3	-6.6	30 30	30	30	30	30	30
Perfluoroheptanesulfonic acid (PFHpS)	3.4 -0.1	1.5 -7.6	3.6	-1.0	8.0	-7.9	30 30	30 30	30	30	30	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.2 2.7	6.4	-3.6	-2.0	0.2	-6.9	30 30	30	30	30	30	30
Perfluorohexanesulfonamide (FHxSA)	-0.1 1.2	6.2	-3.6	-5.7	3.5	-1.5	30 30	30	30	30	30	30
Perfluorodecanoic acid (PFDA)	-0.3 9.0	6.9	-5.3	-2.8	-1.0	-6.5	30 30	30	30	30	30	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-11.6 -1.3	9.6	-6.8	2.2	7.9	0.0	30 30	30	30	30	30	30
Perfluorooctanesulfonic acid (PFOS)	3.5 -0.6	1.6 -3.8	-1.1	-0.9	4.4	-3.1	30 30	30 30	30	30	30	30
Perfluoroundecanoic acid (PFUnA)	-9.3 -2.6	7.9	-5.0	-8.4	12.7	4.7	30 30	30	30	30	30	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.4 4.5	-1.5	-1.7	-4.2	7.4	-5.0	30 30	30	30	30	30	30
Perfluorononanesulfonic acid (PFNS)	-0.9 1.0	2.6	-3.8	0.9	2.4	-2.2	30 30	30	30	30	30	30

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1 Analy Batch No.: 764442

SDG No.:

Instrument ID: 30577 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/04/2026 09:39 Calibration End Date: 02/04/2026 11:14 Calibration ID: 81502

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Perfluorododecanoic acid (PFDoA)	5.8 -9.0	1.3	-2.7	-0.2	9.7	-4.9	30 30	30	30	30	30	30
Perfluorooctanesulfonamide (PFOSA)	-0.3 0.6	1.2	-3.5	-0.6	2.4	0.3	30 30	30	30	30	30	30
Perfluorodecanesulfonic acid (PFDS)	3.4 -2.0	3.0	-1.9	5.6	-1.6	-6.4	30 30	30	30	30	30	30
Perfluorotridecanoic acid (PFTrDA)	-1.1 0.2	10.5	-12.1	3.3	-4.4	3.6	30 30	30	30	30	30	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-0.9 7.0	-5.8	-1.5	1.9	-0.3	-0.4	30 30	30	30	30	30	30
Perfluorotetradecanoic acid (PFTeDA)	16.6 2.0	-9.9	-16.1	0.4	6.8	0.1	30 30	30	30	30	30	30
Perfluorododecanesulfonic acid (PFDoS)	-2.6 0.0	2.5	1.7	2.4	1.4	-5.4	30 30	30	30	30	30	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	-8.4 -6.3	7.3	-8.9	13.3	3.7	-0.8	30 30	30	30	30	30	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.5 -3.0	-2.1	-2.5	5.0	1.6	-1.5	30 30	30	30	30	30	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	4.9 1.3	-6.2	-3.2	3.4	-1.4	1.1	30 30	30	30	30	30	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	8.4 -3.4	0.5	-6.5	-3.6	5.2	-0.6	30 30	30	30	30	30	30
Perfluoro-n-octadecanoic acid (PFODA)	1.7 10.2	0.2	-14.7	-6.1	2.2	6.7	30 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-01.d
Lims ID: IC CAL 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 04-Feb-2026 09:39:21 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 1
Misc. Info.: Plate: 1 Rack: 1 410-0174606-001
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub12

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 12:59:24 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:28:41
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 13C3PFPrA										
166.00 > 121.00	2.035	2.035	0.0	0.487	1354473	2.00		99.8	3108	
2 Perfluoropropionic acid										
163.00 > 119.00	2.027	2.027	0.0	0.996	157836	0.2537		101	473	
3 PFBA										
212.80 > 168.90	4.174	4.174	0.0	0.998	87105	0.1041		104	644	
D 4 13C4-PFBA										
216.80 > 171.90	4.180	4.180	0.0	1.000	1821694	1.98		99.2	3505	
* 5 13C3PFBA										
216.00 > 172.00	4.180	4.180	0.0		1790165	2.00			4028	
6 PFMPA										
229.00 > 84.90	4.504	4.504	0.0	0.932	44818	0.0482		96.4	459	
7 3:3 FTCA										Ma
241.00 > 177.00	4.513	4.513	0.0	0.934	4199	0.0938	Target=1.17	93.8	162	a
241.00 > 117.00	4.513	4.513	0.0	0.934	3738		1.12(0.58-1.75)	93.8	71.1	M
D 8 13C5 PFPeA										
268.30 > 223.00	4.830	4.830	0.0	0.913	1817250	2.11		106	5748	
9 PFPA										
263.00 > 219.00	4.830	4.830	0.0	1.000	55000	0.0507		101	193	
10 PFMBA										
279.00 > 85.10	4.986	4.986	0.0	1.032	59338	0.0482		96.4	443	
12 4:2FTS										
327.10 > 307.00	5.101	5.101	0.0	1.000	38801	0.0957	Target=1.69	102	262	
327.10 > 80.90	5.101	5.101	0.0	1.000	23202		1.67(0.85-2.54)	102	25.6	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.101	5.101	0.0	0.801	1027842	4.55		97.1	3876	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.249	5.249	0.0	0.992	11261	0.0425	Target=1.47	85.0	103	
295.00 > 84.90	5.249	5.249	0.0	0.992	12231		0.92(0.74-2.21)	85.0	90.6	
D 15 13C5 PFHxA										
318.00 > 273.00	5.292	5.292	0.0	1.000	2125006	2.03		102	3931	
* 16 13C2 PFHxA										
315.10 > 270.00	5.292	5.292	0.0		4929008	5.00			5443	
17 PFHxA										
313.00 > 269.00	5.292	5.292	0.0	1.000	52510	0.0572	Target=10.33	114	210	
313.00 > 118.90	5.292	5.292	0.0	1.000	6329		8.30(5.17-15.50)	114	52.7	
18 5:3 FTCA										
341.00 > 237.10	5.367	5.367	0.0	1.014	30151	0.2351	Target=0.77	94.1	134	
341.00 > 217.00	5.367	5.367	0.0	1.014	46897		0.64(0.38-1.15)	94.1	90.1	
20 PFBS										
298.70 > 79.90	5.437	5.437	0.0	1.000	46025	0.0442	Target=3.28	99.5	457	
298.70 > 98.80	5.437	5.437	0.0	1.000	12155		3.79(1.64-4.92)	99.5	96.2	
D 19 13C3 PFBS										
302.10 > 79.90	5.437	5.437	0.0	0.854	2168069	1.79		96.0	3948	
23 HFPO-DA										
284.90 > 168.90	5.476	5.476	0.0	1.000	31269	0.0403	Target=2.47	107	168	
284.90 > 184.90	5.487	5.476	0.011	1.002	11460		2.73(1.23-3.70)	107	67.3	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.476	5.476	0.0	1.035	1448764	2.04		102	4600	
21 FBSA										
297.90 > 78.00	5.519	5.519	0.0	1.015	46423	0.0502		100	111	
26 PFEESA										
314.80 > 134.90	5.679	5.679	0.0	1.073	105465	0.0415	Target=12.38	93.1	874	
314.80 > 82.90	5.679	5.679	0.0	1.073	7883		13.38(6.19-18.57)	93.1	63.0	
27 PFHpA										
363.10 > 319.00	5.722	5.722	0.0	1.000	42394	0.0495	Target=1.90	99.0	173	
363.10 > 169.00	5.722	5.722	0.0	1.000	24831		1.71(0.95-2.85)	99.0	117	
D 28 13C4 PFHpA										
367.10 > 322.00	5.722	5.722	0.0	1.081	2040507	2.00		100	4572	
29 ADONA										
376.90 > 250.90	5.877	5.877	0.0	1.073	123687	0.0489	Target=2.21	103	479	
376.90 > 84.80	5.877	5.877	0.0	1.073	57058		2.17(1.10-3.31)	103	323	
30 PFPeS										
349.10 > 79.90	5.920	5.920	0.0	0.929	57488	0.0494	Target=3.14	105	411	
349.10 > 98.90	5.920	5.920	0.0	0.929	17977		3.20(1.57-4.71)	105	128	
31 6:2FTS										
427.10 > 407.00	5.920	5.920	0.0	1.000	36914	0.0980	Target=1.66	103	143	
427.10 > 80.90	5.920	5.920	0.0	1.000	20935		1.76(0.83-2.48)	103	45.3	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.920	5.920	0.0	0.929	957766	5.02		105	3019	
33 BTS										
280.00 > 147.00	6.093	6.093	0.0	0.957	95051	0.0434		88.8	569	
* 34 13C4 PFOA										
417.10 > 372.00	6.133	6.133	0.0		6603971	5.00			4113	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.133	6.133	0.0	1.000	2684320	2.00		99.8	5826	
36 PFOA										
413.00 > 369.00	6.133	6.133	0.0	1.000	49797	0.0598	Target=1.85	120	77.4	
413.00 > 169.00	6.133	6.133	0.0	1.000	24567		2.03(0.93-2.78)	120	38.3	
37 7:3 FTCA										
441.00 > 316.90	6.224	6.224	0.0	1.176	14105	0.2296	Target=0.30	91.9	4450	
441.00 > 336.90	6.224	6.224	0.0	1.176	49914		0.28(0.15-0.45)	91.9	274	
40 PFHxS										
398.70 > 79.90	6.369	6.369	0.0	1.000	39126	0.0504	Target=3.16	110	84.2	
398.70 > 98.90	6.369	6.369	0.0	1.000	11667		3.35(1.58-4.75)	110	30.9	
D 38 13C3 PFHxS										
402.10 > 79.90	6.369	6.369	0.0	1.000	1906099	1.86		98.1	5165	
* 39 18O2 PFHxS										
403.00 > 83.90	6.369	6.369	0.0		1804145	1.90			7042	
* 42 13C5 PFNA										
468.00 > 423.00	6.549	6.549	0.0		2103852	2.00			4678	
D 41 13C9 PFNA										
472.10 > 427.00	6.549	6.549	0.0	1.000	2251923	2.07		103	4706	
43 PFNA										
463.00 > 419.00	6.549	6.549	0.0	1.000	48242	0.0493	Target=2.07	98.7	98.8	
463.00 > 219.00	6.549	6.549	0.0	1.000	24400		1.98(1.03-3.11)	98.7	43.5	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.737	6.737	0.0	1.058	971376	4.93		103	4950	
45 8:2FTS										
527.10 > 507.00	6.737	6.737	0.0	1.000	33940	0.0965	Target=1.94	101	234	
527.10 > 80.80	6.737	6.737	0.0	1.000	16994		2.00(0.97-2.91)	101	35.5	
46 PFECHS										
461.00 > 381.00	6.775	6.775	0.0	1.064	10870	0.0481	Target=0.18	104	59.0	
461.00 > 99.00	6.784	6.775	0.009	1.065	58473		0.19(0.09-0.26)	104	213	
47 PFHpS										
449.00 > 79.90	6.811	6.811	0.0	0.941	53599	0.0493	Target=3.74	103	340	
449.00 > 98.80	6.820	6.811	0.009	0.942	13089		4.09(1.87-5.60)	103	101	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.900	6.900	0.0	0.953	1915605	4.99		99.8	2832	
50 NMeFOSAA										
570.10 > 419.00	6.900	6.900	0.0	1.000	19244	0.0516	Target=1.81	103	5.3	
570.10 > 483.00	6.909	6.900	0.009	1.001	8397		2.29(0.91-2.72)	103	20.1	
48 FHxSA										
397.90 > 78.00	6.939	6.939	0.0	1.090	65457	0.0499		99.9	437	
53 PFDA										
512.90 > 469.00	6.970	6.970	0.0	1.000	42913	0.0499	Target=3.70	99.7	250	
512.90 > 219.00	6.970	6.970	0.0	1.000	10181		4.22(1.85-5.54)	99.7	48.0	
D 52 13C6 PFDA										
519.10 > 474.10	6.970	6.970	0.0	1.000	2341872	2.01		100	6327	
* 51 13C2 PFDA										
515.10 > 470.10	6.970	6.970	0.0		2366449	2.00			5545	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.081	7.081	0.0	0.978	1752247	5.29		106	2408	
55 NEtFOSAA										
584.20 > 419.10	7.090	7.090	0.0	1.001	13590	0.0442	Target=1.29	88.4	33.7	
584.20 > 526.00	7.081	7.090	-0.010	1.000	11778		1.15(0.65-1.94)	88.4	28.8	
D 56 13C8 PFOS										
507.10 > 79.90	7.241	7.241	0.0	1.000	1661672	2.01		105	5647	
* 57 13C4 PFOS										
502.80 > 79.90	7.241	7.241	0.0		1426034	1.92			7491	
58 PFOS										
498.90 > 79.90	7.251	7.251	0.0	1.001	56539	0.0481	Target=4.49	104	91.2	
498.90 > 98.80	7.223	7.251	-0.028	0.997	13899		4.07(2.24-6.73)	104	56.0	
D 59 13C7 PFUnA										
570.00 > 525.10	7.387	7.387	0.0	1.060	2419195	2.08		104	6011	
60 PFUnA										
563.10 > 519.00	7.387	7.387	0.0	1.000	38497	0.0454	Target=5.00	90.7	216	
563.10 > 269.10	7.397	7.387	0.010	1.001	7384		5.21(2.50-7.49)	90.7	66.4	
61 9ClFOS										
530.80 > 351.00	7.571	7.571	0.0	1.046	111970	0.0469	Target=3.04	100	559	
532.80 > 353.00	7.571	7.571	0.0	1.046	36005		3.11(1.52-4.56)	100	467	
62 PFNS										
548.80 > 79.90	7.665	7.665	0.0	1.059	35358	0.0477	Target=3.71	99.1	305	
548.80 > 98.80	7.656	7.665	-0.009	1.057	9268		3.82(1.85-5.56)	99.1	2897	
D 81 PFDoA										
615.10 > 570.00	7.806	7.806	0.0	1.120	2171847	1.94		97.2	4165	
63 PFDoA										
613.10 > 569.00	7.806	7.806	0.0		53617	0.0529	Target=5.74	106	253	
613.10 > 319.00	7.806	7.806	0.0		8952		5.99(2.87-8.61)	106	107	
64 PFOSA										M
498.10 > 77.90	8.011	8.011	0.0	0.999	49143	0.0498	Target=41.30	99.7	140	
498.10 > 478.00	8.036	8.011	0.025	1.002	1229		39.99(20.65-61.94)	99.7	6.0	M
D 65 13C8 FOSA										
506.10 > 77.80	8.019	8.019	0.0	1.107	1784995	2.09		104	4634	
66 PFDS										
599.00 > 79.90	8.077	8.077	0.0	1.115	49287	0.0499	Target=3.87	103	258	
599.00 > 98.80	8.069	8.077	-0.008	1.114	11791		4.18(1.93-5.80)	103	173	
67 PFTrDA										
663.00 > 619.00	8.222	8.222	0.0	0.954	47124	0.0494	Target=6.63	98.9	198	
663.00 > 168.90	8.222	8.222	0.0	0.954	7374		6.39(3.32-9.95)	98.9	108	
68 11ClFOS										
630.90 > 450.90	8.400	8.400	0.0	1.160	76936	0.0468	Target=3.04	99.1	624	
632.90 > 452.90	8.400	8.400	0.0	1.160	26246		2.93(1.52-4.56)	99.1	231	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.623	8.623	0.0	1.237	1983357	1.97		98.7	4413	
69 PFTeDA										
713.10 > 168.90	8.623	8.623	0.0	1.000	6485	0.0583	Target=1.02	117	59.0	
713.10 > 219.00	8.623	8.623	0.0	1.000	5349		1.21(0.51-1.53)	117	62.8	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.831	8.831	0.0	1.220	45909	0.0472	Target=4.07	97.4	305	
699.10 > 98.80	8.831	8.831	0.0	1.220	11240		4.08(2.04-6.11)	97.4	108	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.890	8.890	0.0	1.228	360811	5.26		105	1070	
73 N-MeFOSE-M										M
616.10 > 58.90	8.905	8.905	0.0	1.002	42338	0.2291		91.6	65.8	M
D 75 d3-NMePFOSA										
515.00 > 219.00	9.003	9.003	0.0	1.243	549842	2.03		101	3854	
74 NMeFOSA										
511.90 > 219.00	9.003	9.003	0.0	1.000	13371	0.0513	Target=0.72	103	53.1	
511.90 > 169.00	9.003	9.003	0.0	1.000	18756		0.71(0.36-1.07)	103	64.6	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.125	9.125	0.0	1.260	358082	4.84		96.8	619	
77 N-EtFOSE-M										M
630.00 > 58.90	9.139	9.139	0.0	1.001	62034	0.2623		105	141	M
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.216	9.216	0.0	1.273	676189	1.94		97.1	2213	
79 N-EtFOSA-M										
526.00 > 219.00	9.228	9.228	0.0	1.001	15937	0.0542	Target=0.87	108	93.0	
526.00 > 169.00	9.216	9.228	-0.012	1.000	18161		0.88(0.43-1.30)	108	81.1	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.596	9.596	0.0	1.113	46463	0.0508	Target=17.07	102	1363	
913.00 > 169.00	9.596	9.596	0.0	1.113	2476		18.77(8.53-25.60)	102	189	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

1633_125_CAL1_00080 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 12:59:27 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-01.d

Injection Date: 04-Feb-2026 09:39:21 Instrument ID: 30577

Lims ID: IC CAL 1

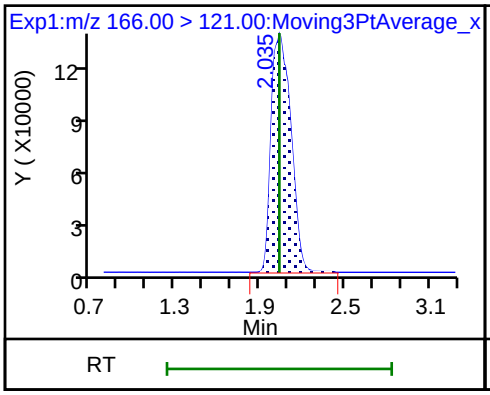
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Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 2 Worklist Smp#: 1

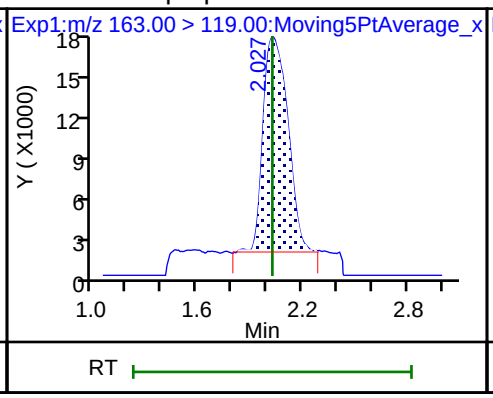
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

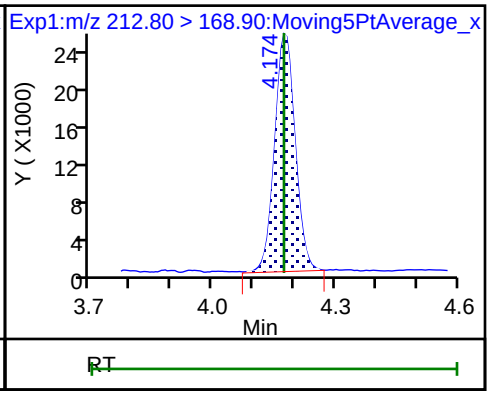
D 1 13C3PFPrA



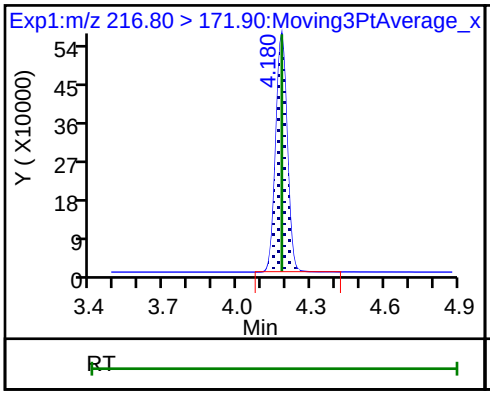
2 Perfluoropropionic acid



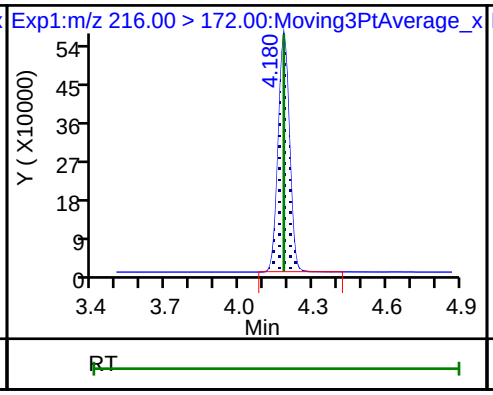
3 PFBA



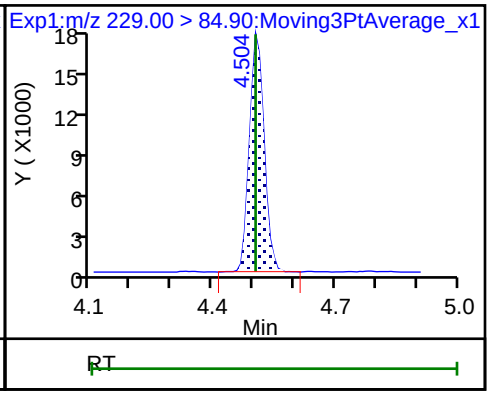
D 4 13C4-PFBA



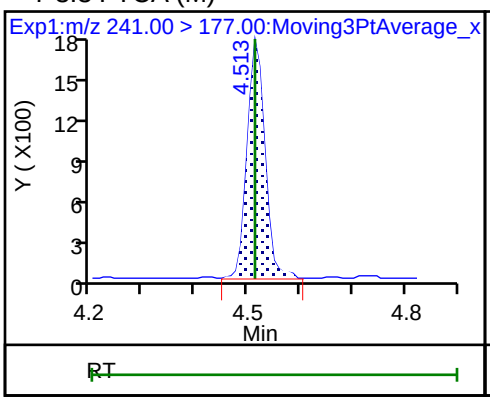
* 5 13C3PFBA



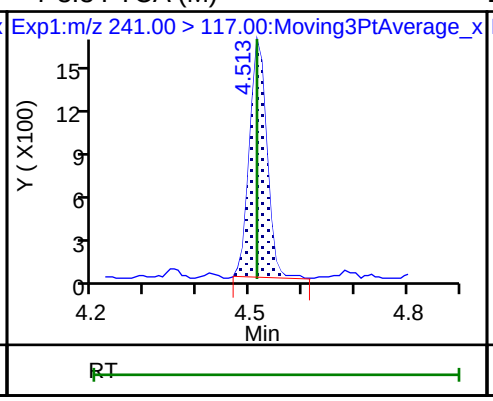
6 PFMPA



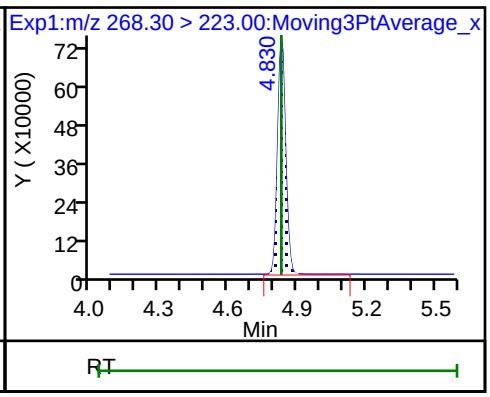
7 3:3 FTCA (M)



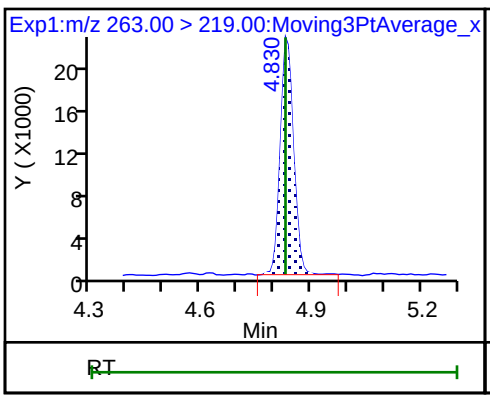
7 3:3 FTCA (M)



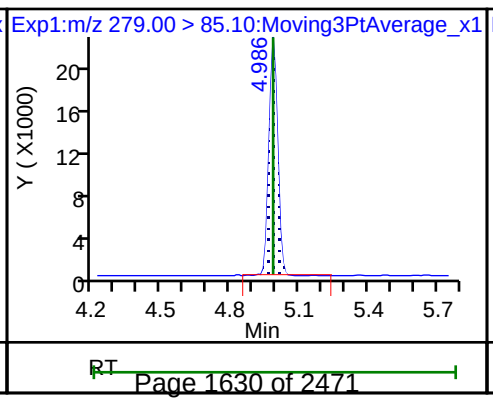
D 8 13C5 PFPeA



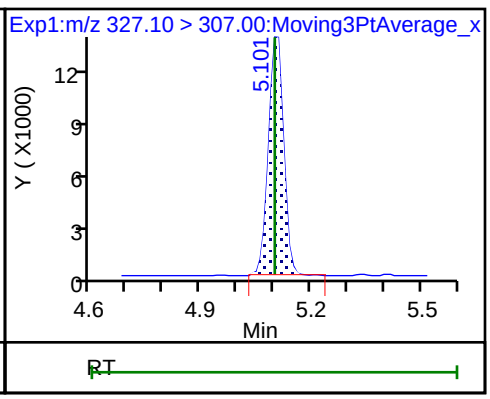
9 PFPA



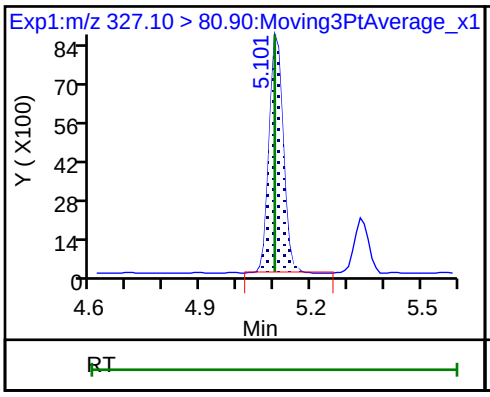
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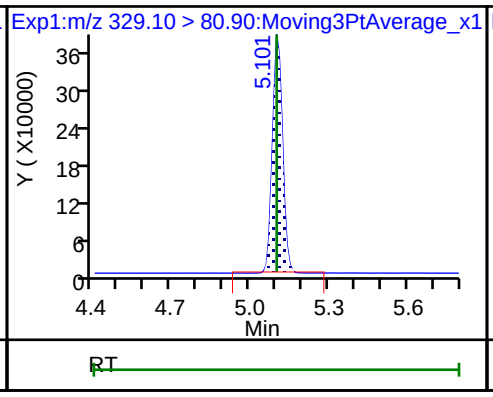
12 4:2FTS



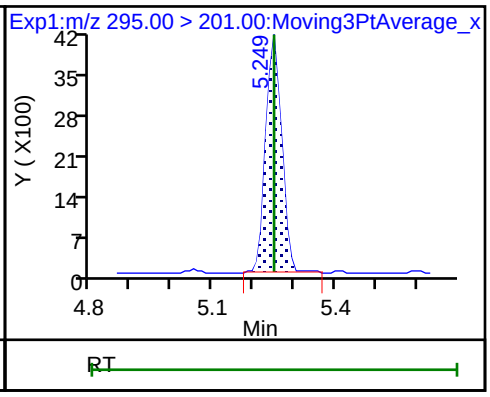
12 4:2FTS



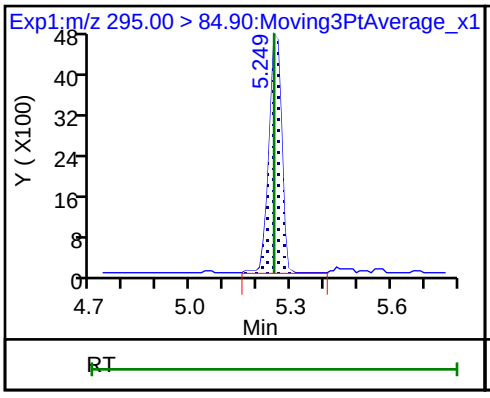
D 11 13C2-4:2FTS



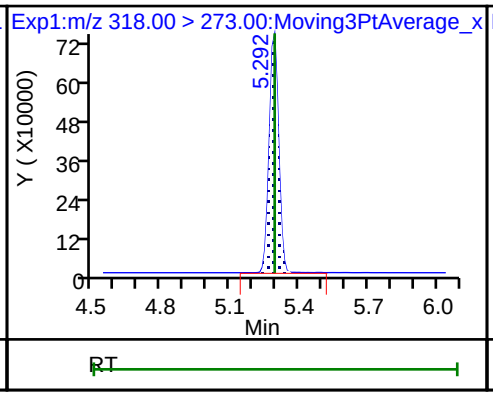
14 NFDHA



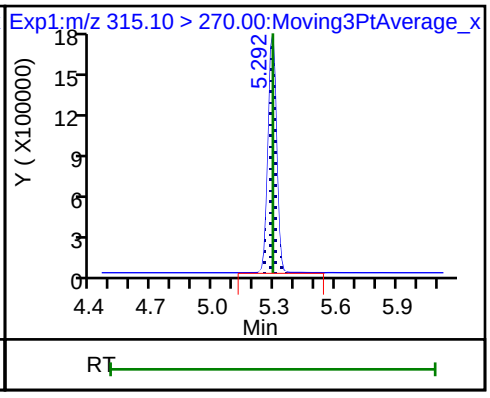
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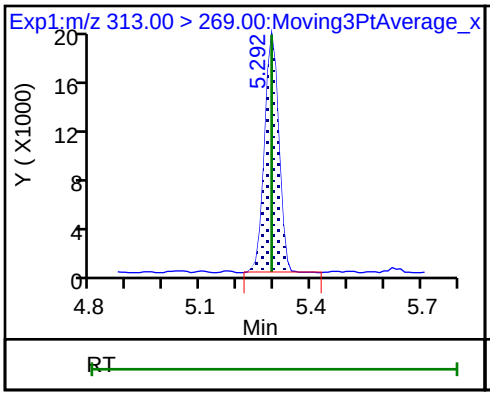
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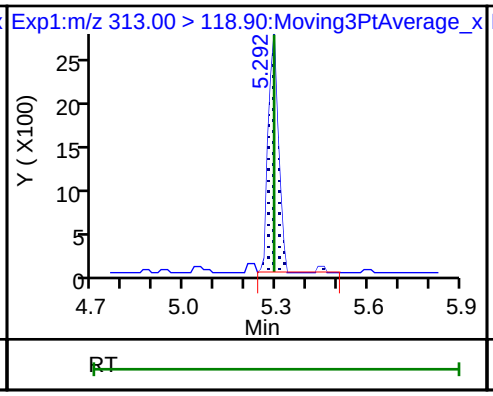
* 16 13C2 PFHxA



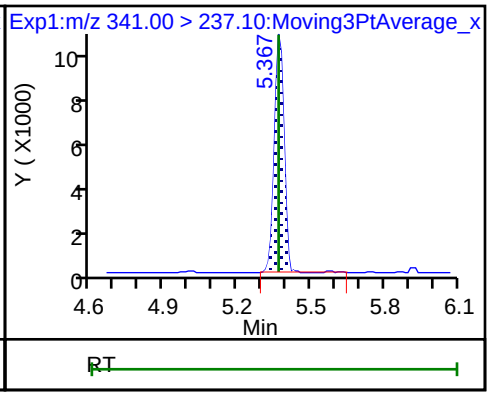
17 PFHxA



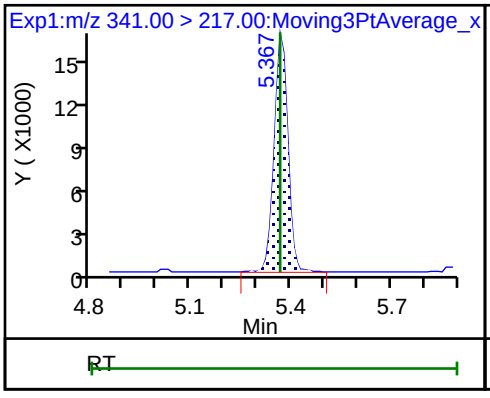
17 PFHxA



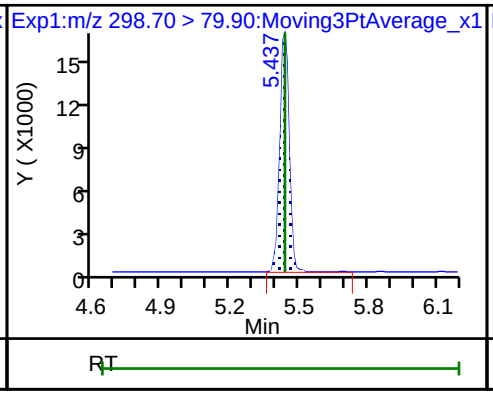
18 5:3 FTCA



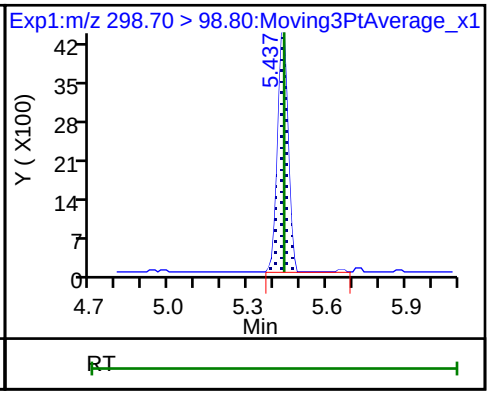
18 5:3 FTCA



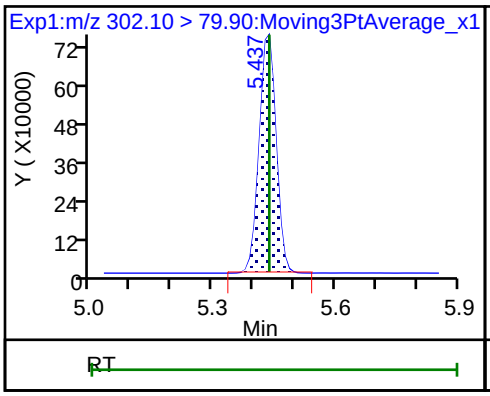
20 PFBS



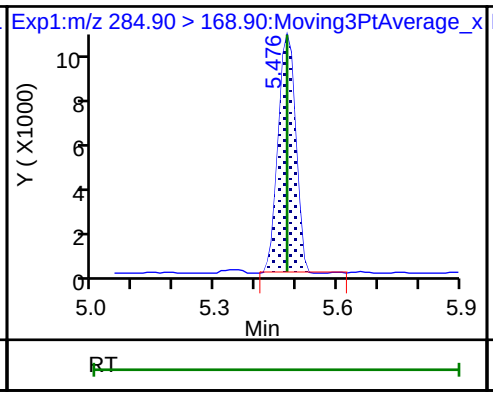
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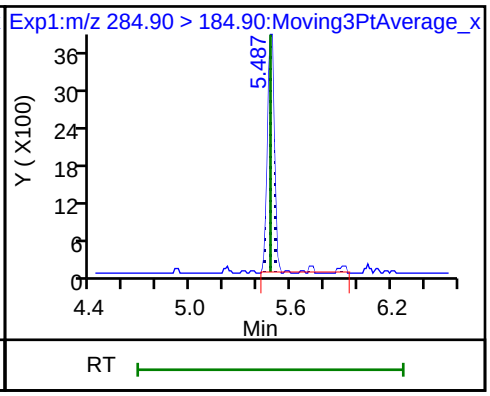
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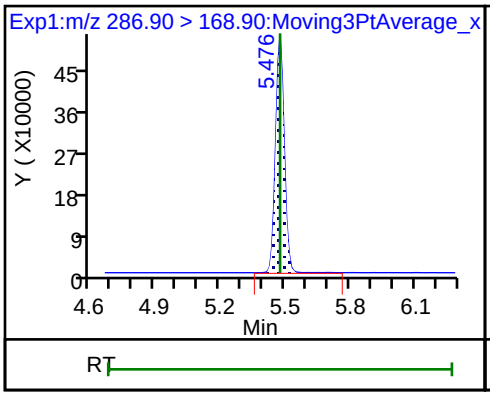
23 HFPO-DA



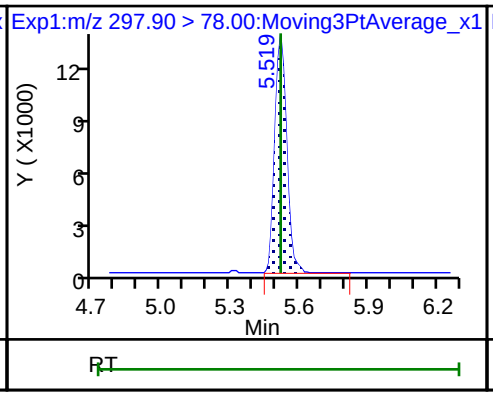
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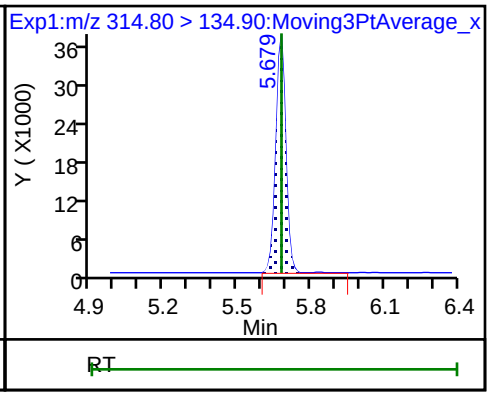
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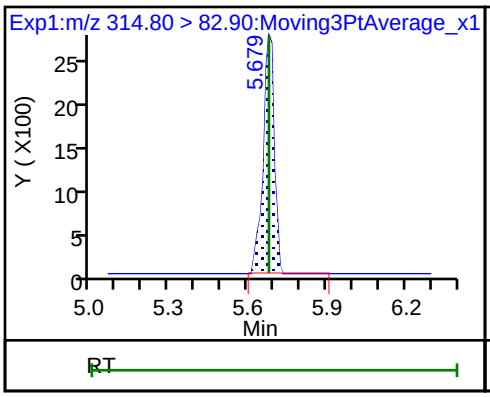
21 FBSA



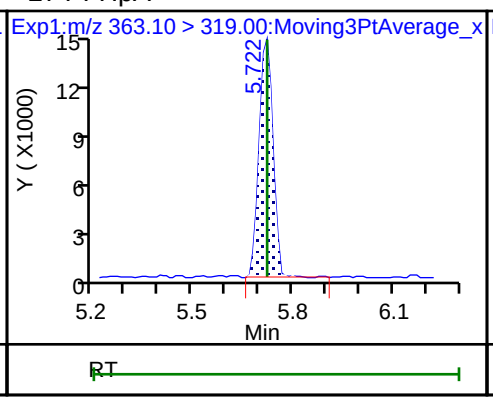
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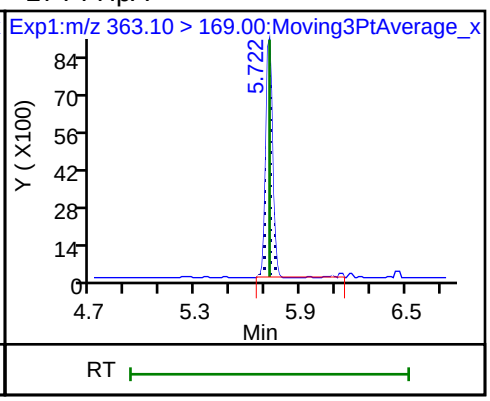
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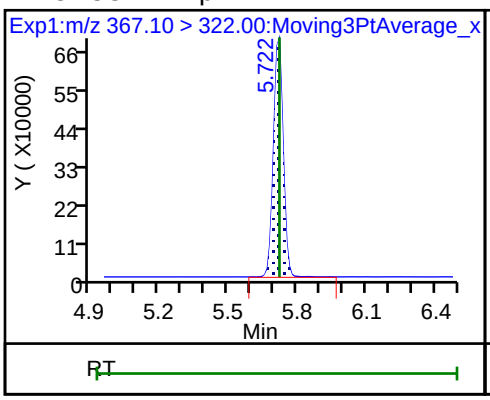
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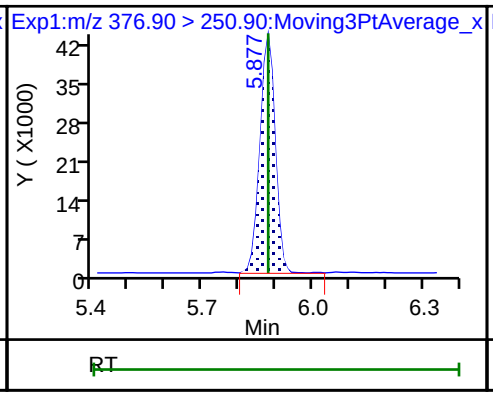
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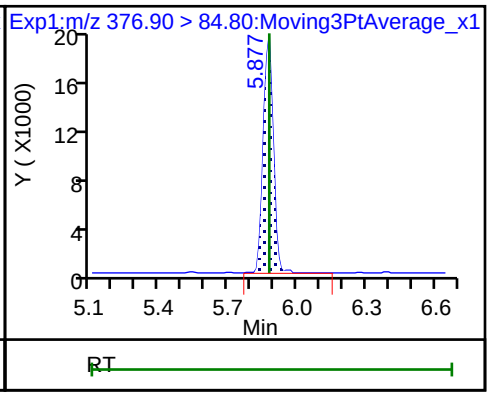
D 28 13C4 PFHpA



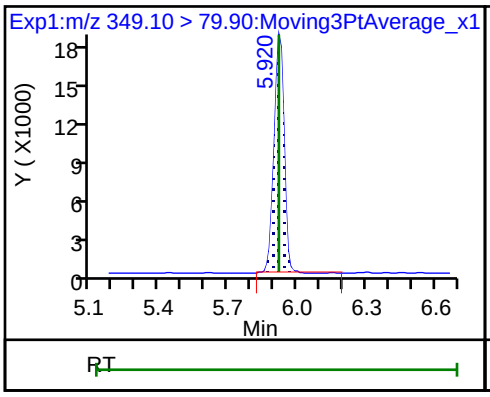
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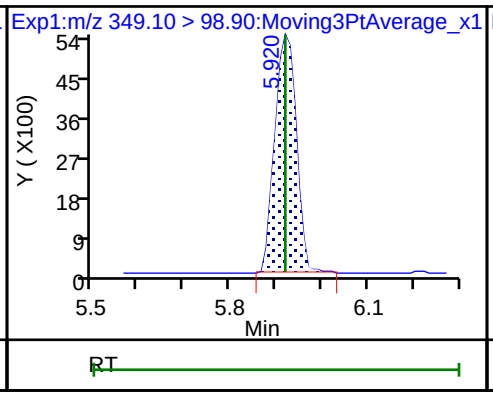
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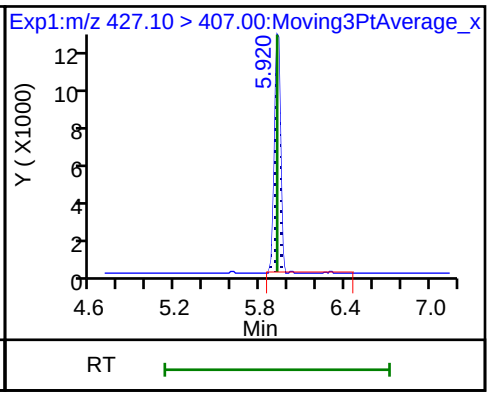
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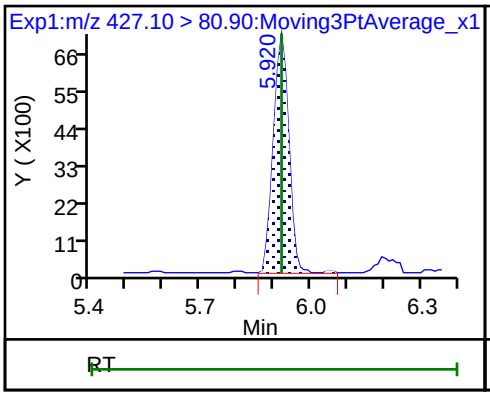
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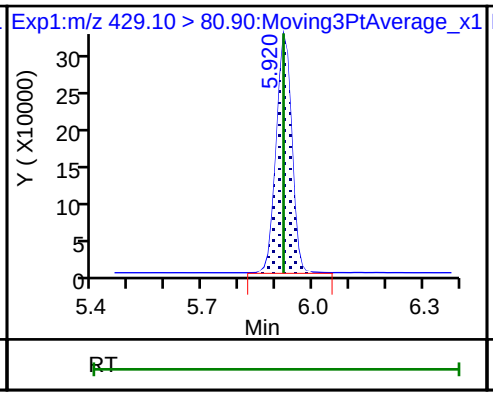
31 6:2FTS



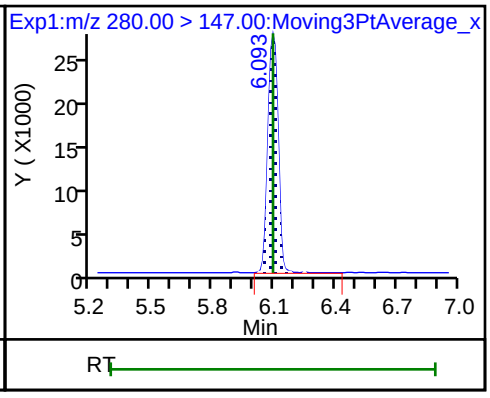
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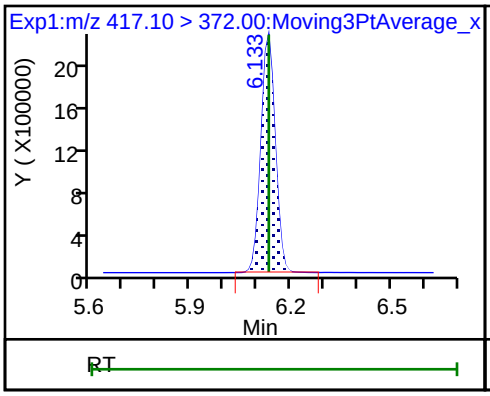
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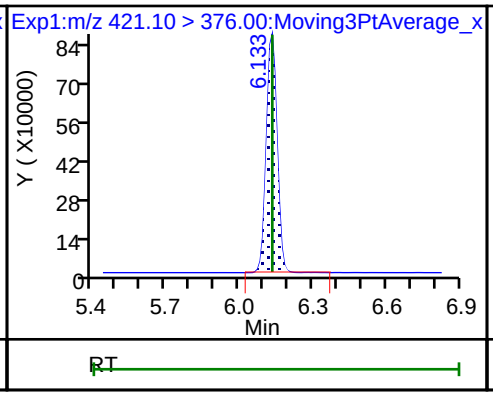
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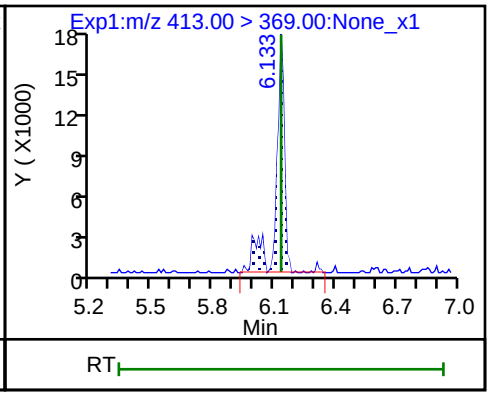
* 34 13C4 PFOA



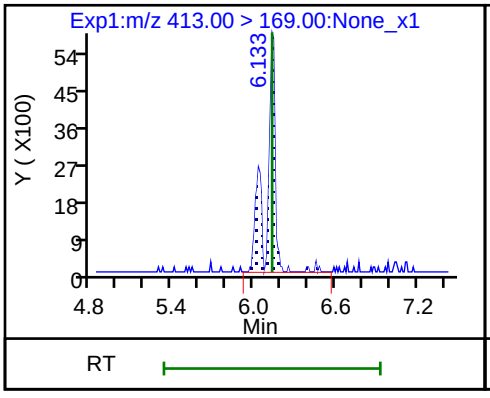
D 35 13C8 PFOA



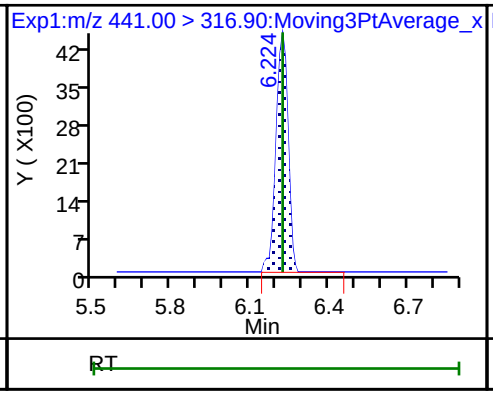
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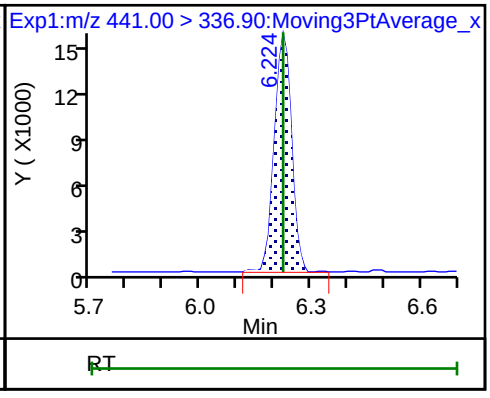
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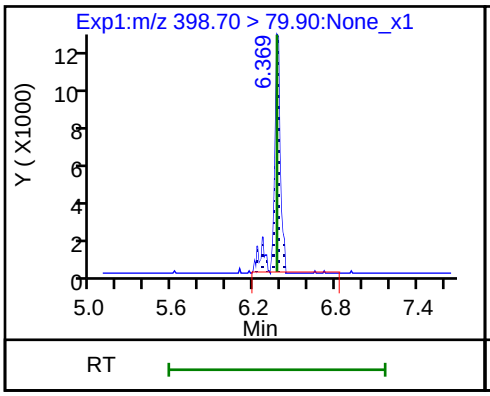
37 7:3 FTCA



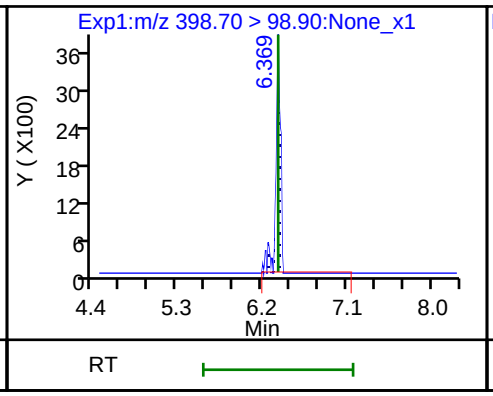
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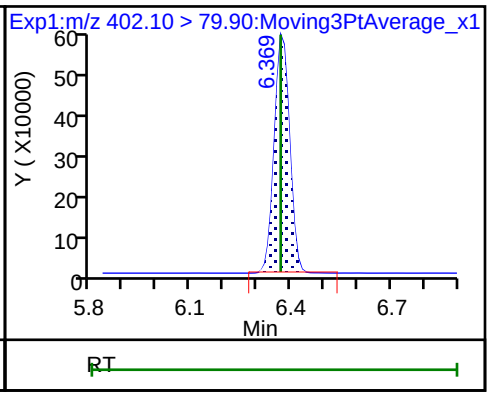
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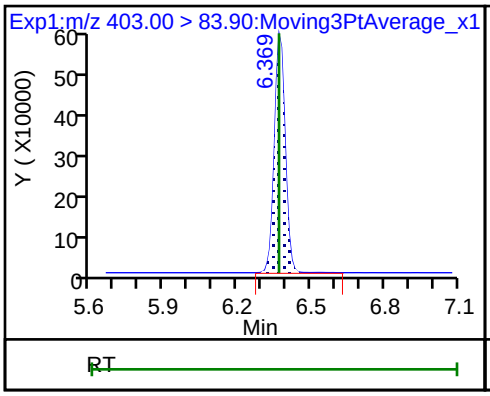
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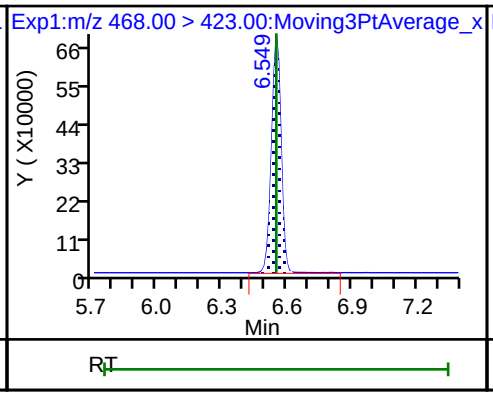
D 38 13C3 PFHxS



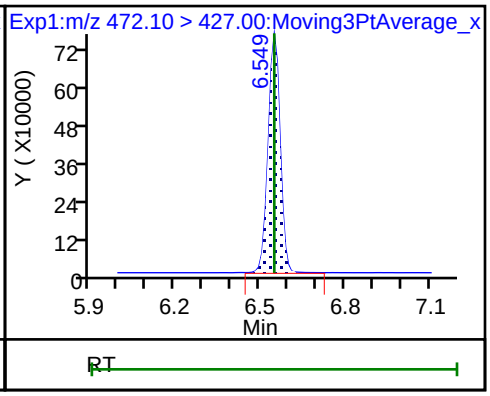
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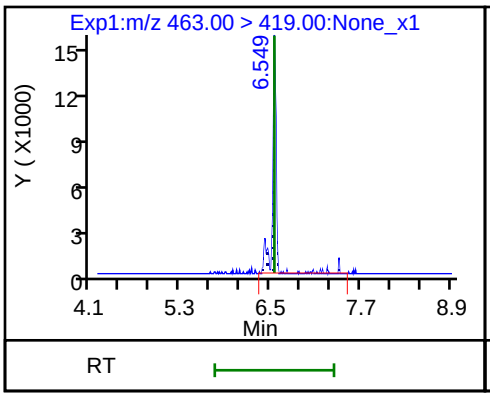
* 42 13C5 PFNA



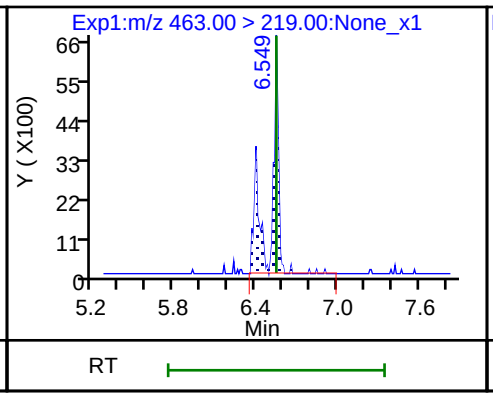
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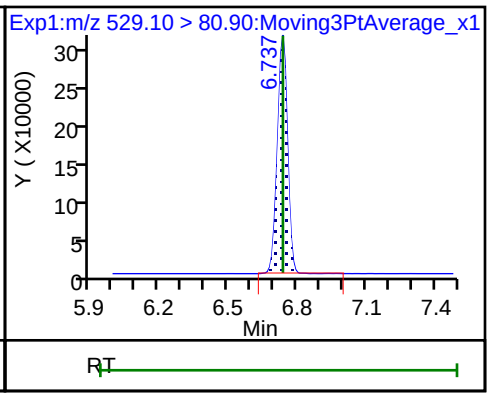
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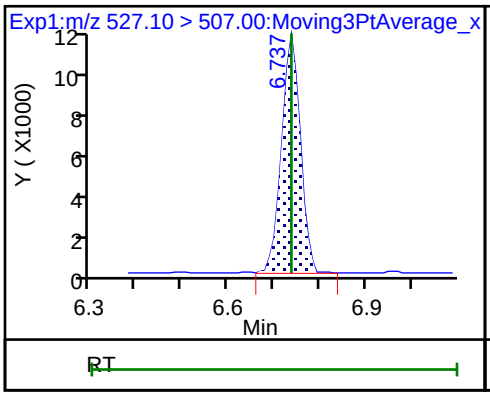
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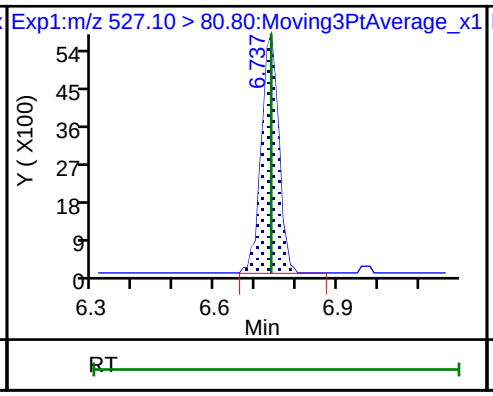
D 44 13C2-8:2FTS



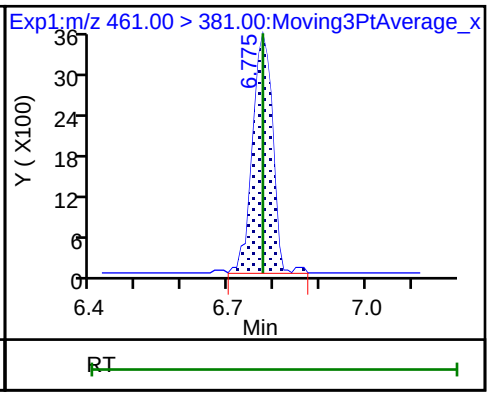
45 8:2FTS



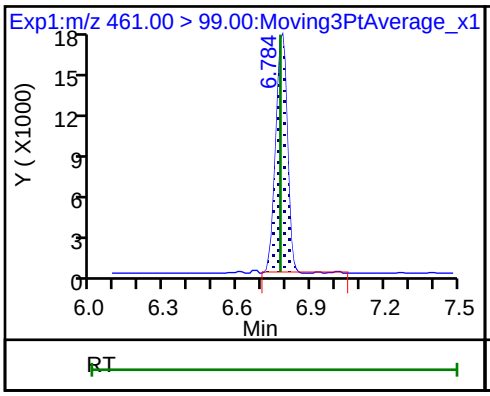
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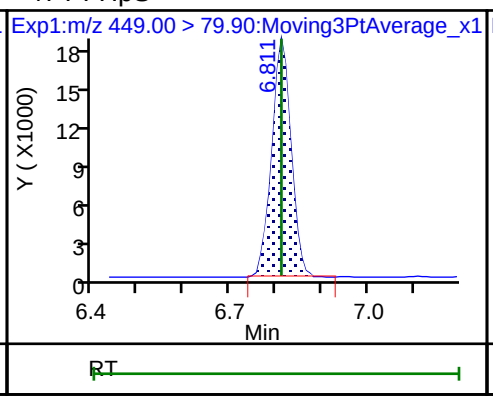
46 PFECHS



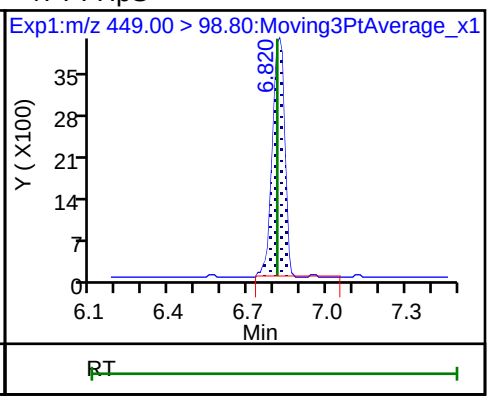
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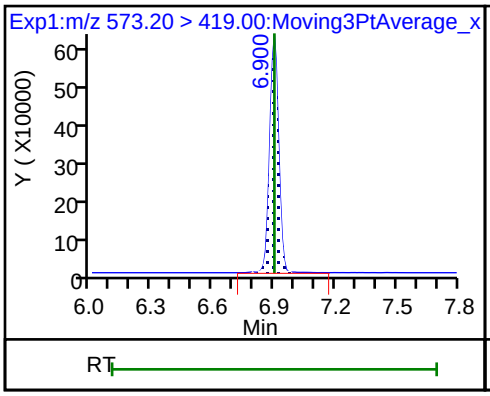
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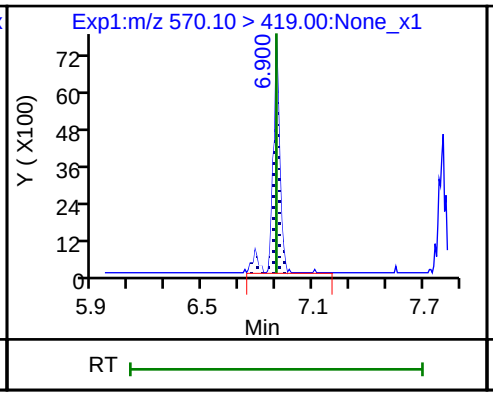
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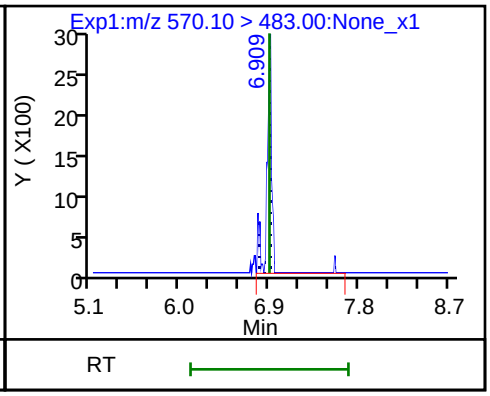
D 49 d3-NMeFOSAA



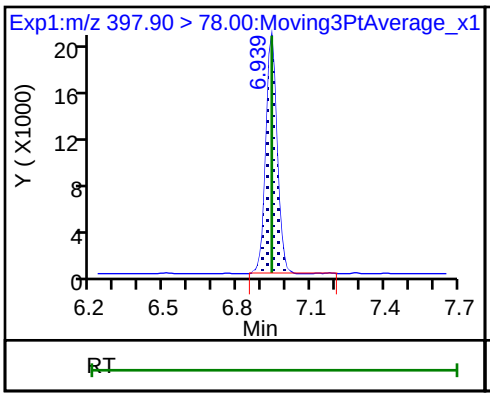
50 NMeFOSAA



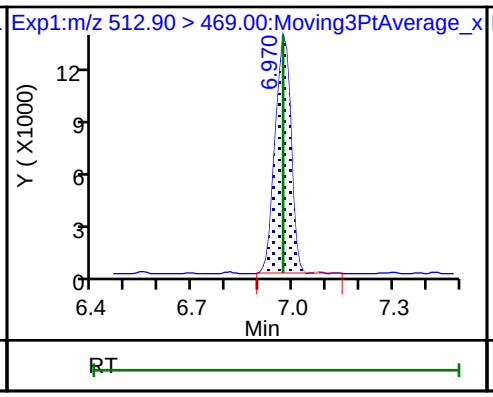
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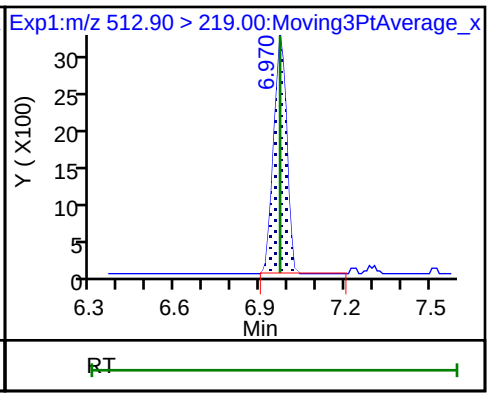
48 FHxSA



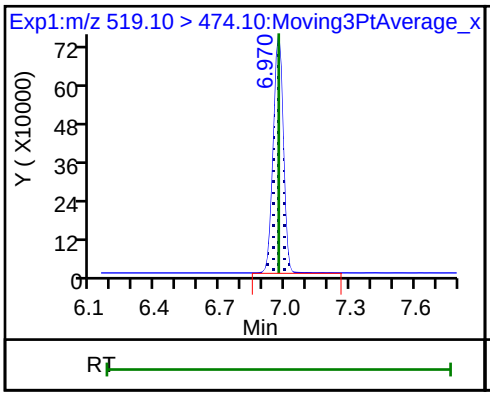
53 PFDA



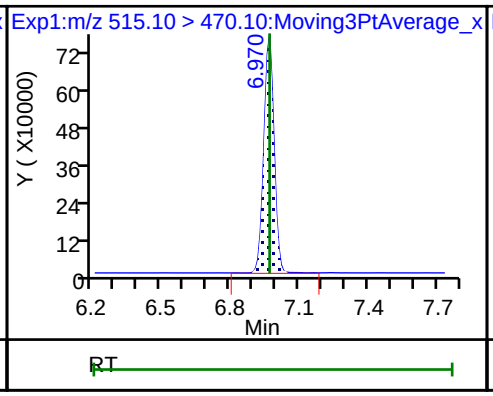
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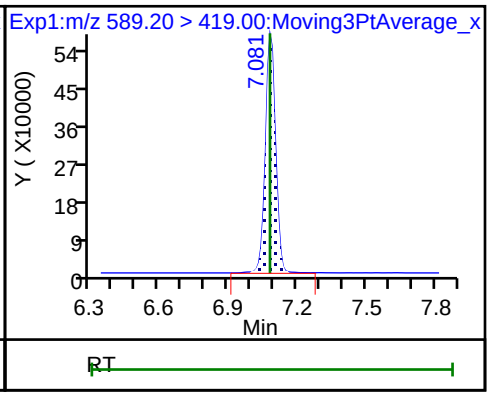
D 52 13C6 PFDA



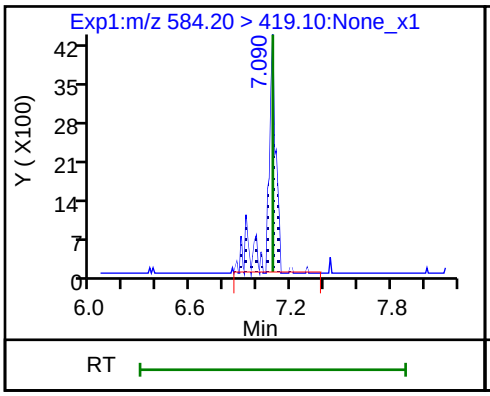
* 51 13C2 PFDA



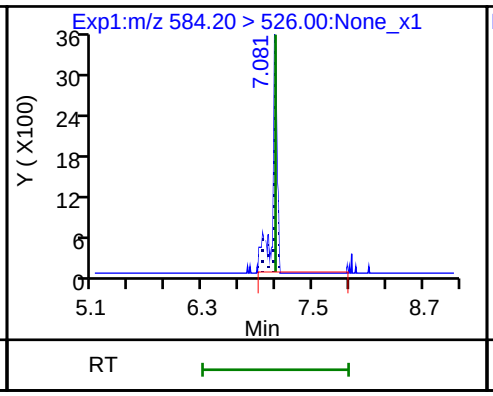
D 54 d5-NEtFOSAA



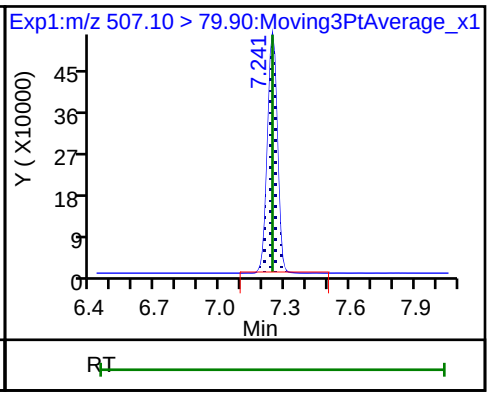
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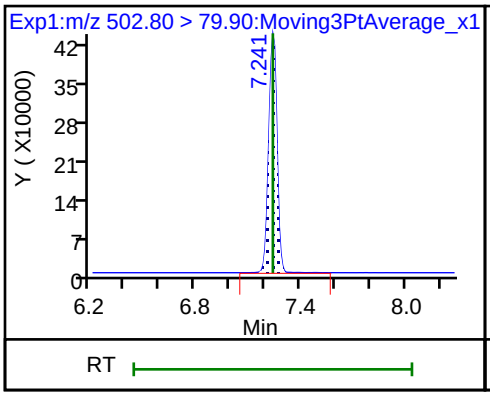
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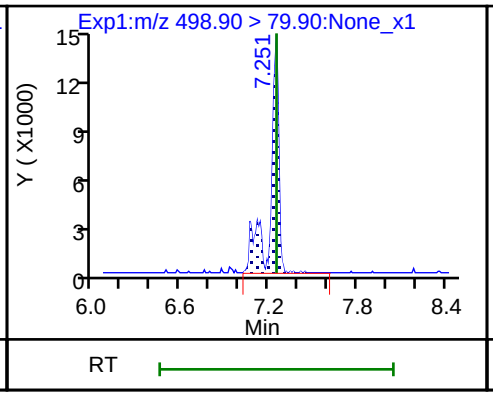
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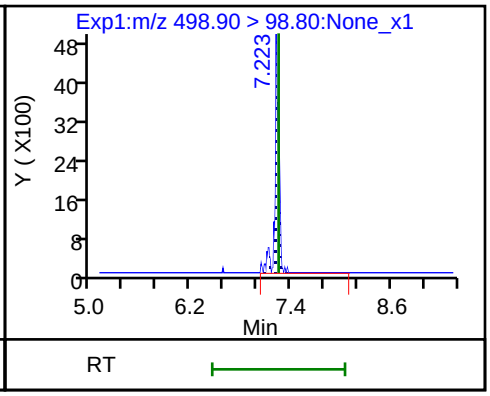
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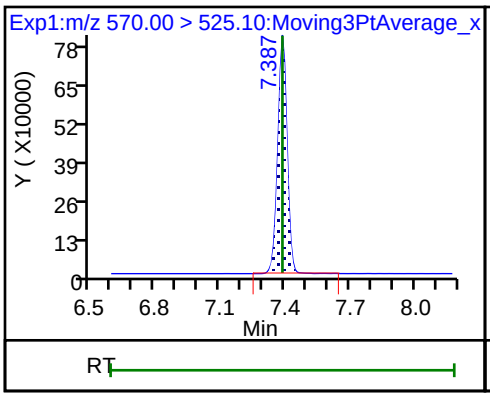
58 PFOS



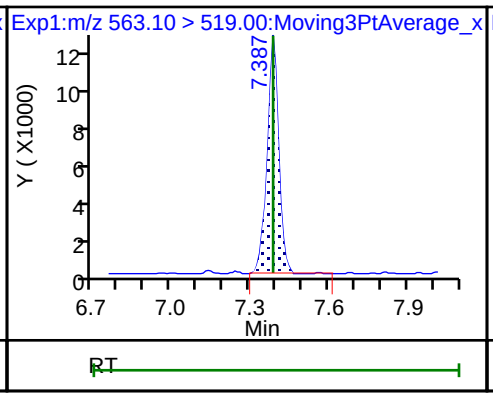
58 PFOS



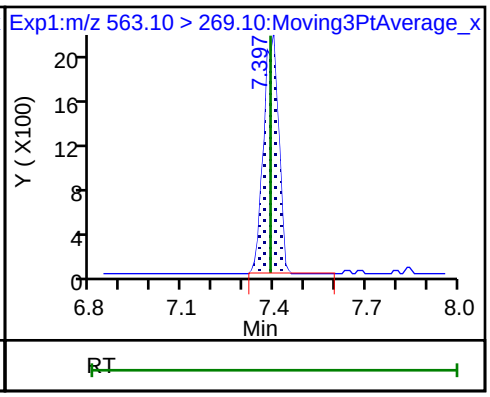
D 59 13C7 PFUnA



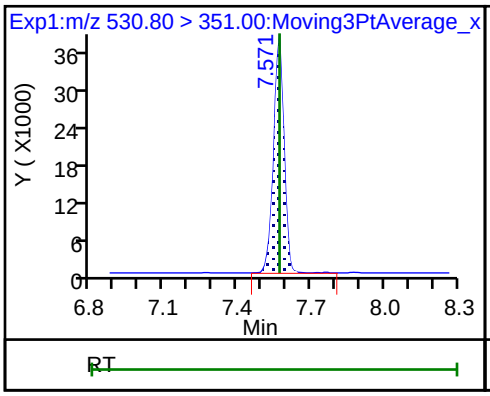
60 PFUnA



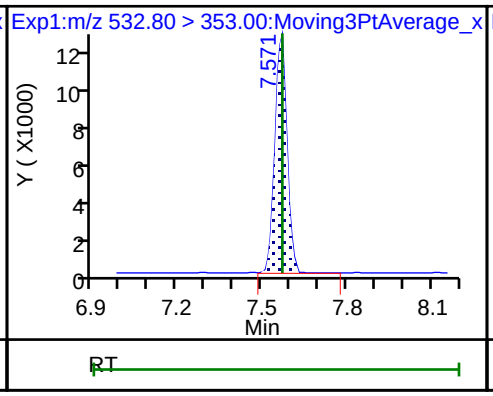
60 PFUnA



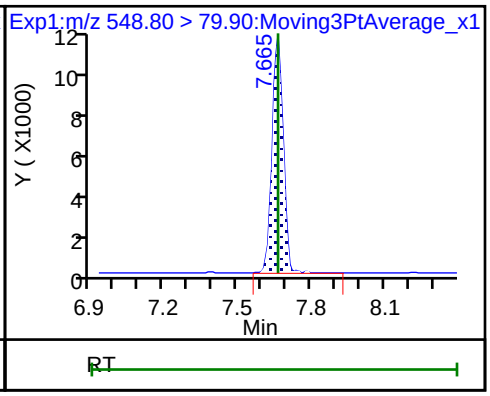
61 9ClFOS



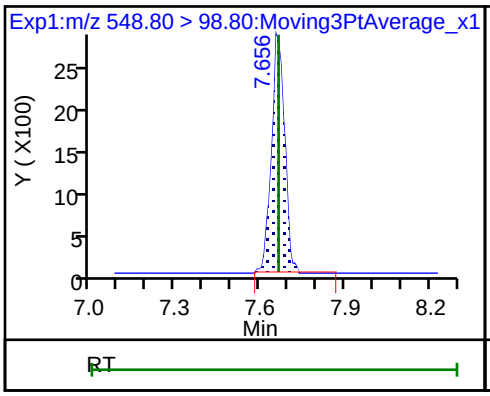
61 9ClFOS



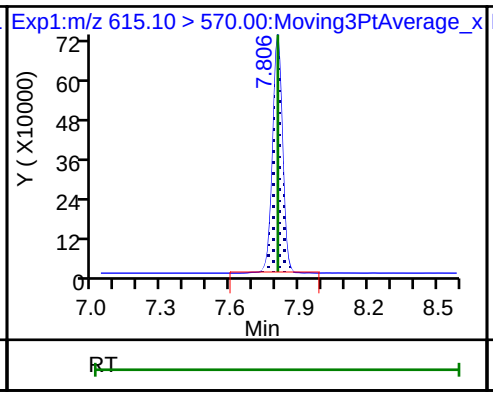
62 PFNS



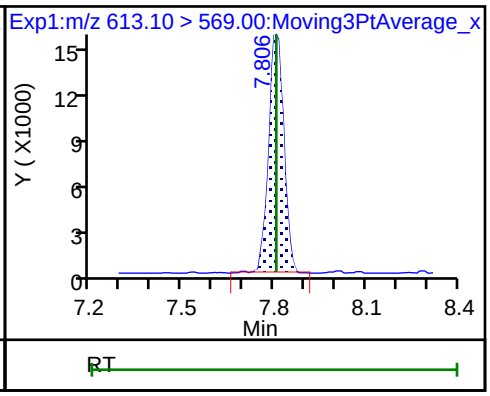
62 PFNS



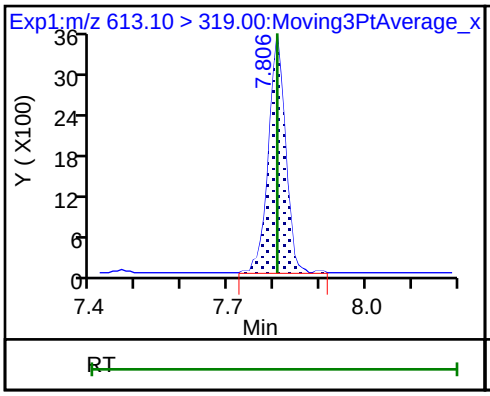
D 81 PFDoA



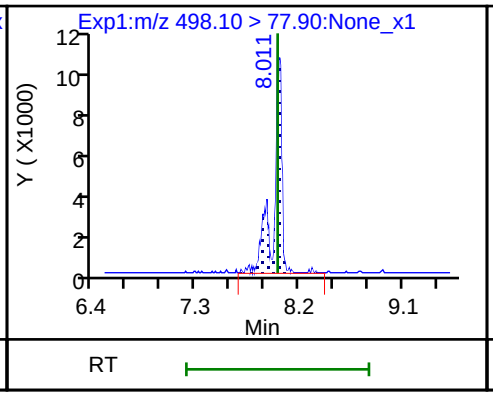
63 PFDoA



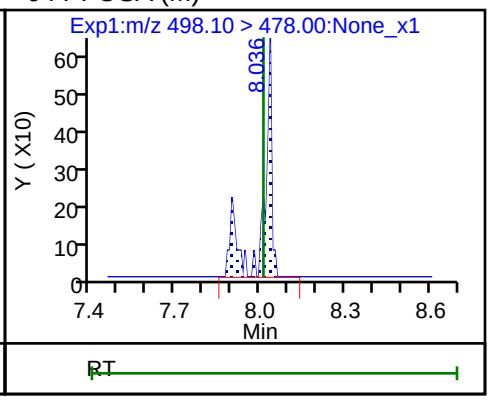
63 PFDoA



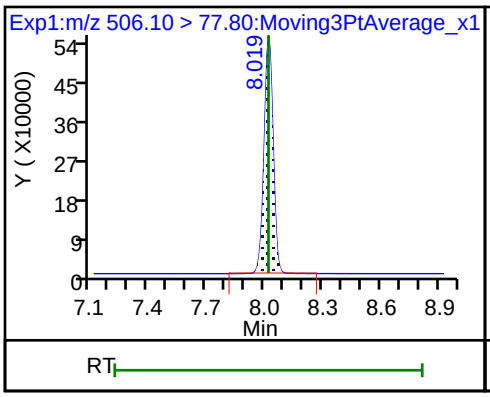
64 PFOSA



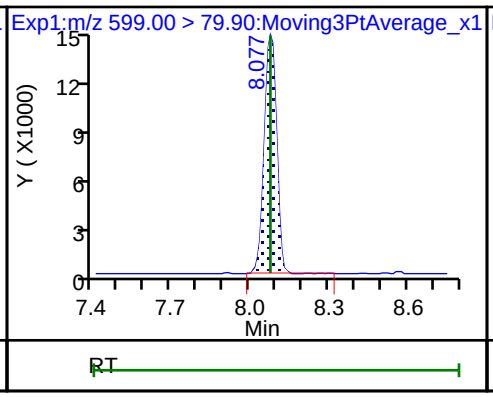
64 PFOSA (M)



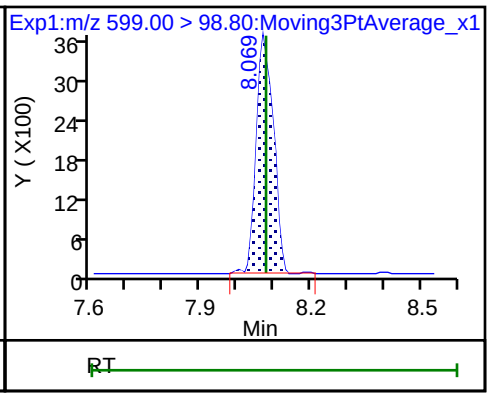
D 65 13C8 FOSA



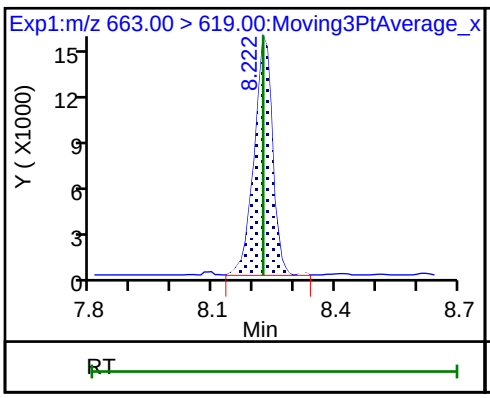
66 PFDS



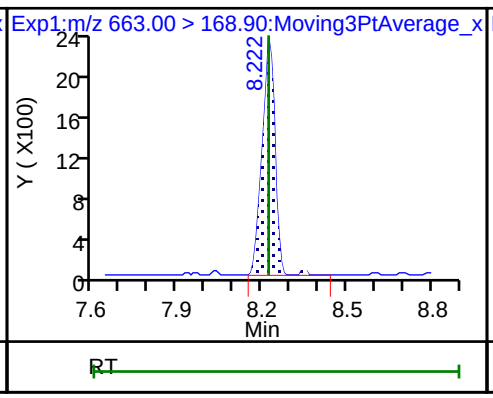
66 PFDS



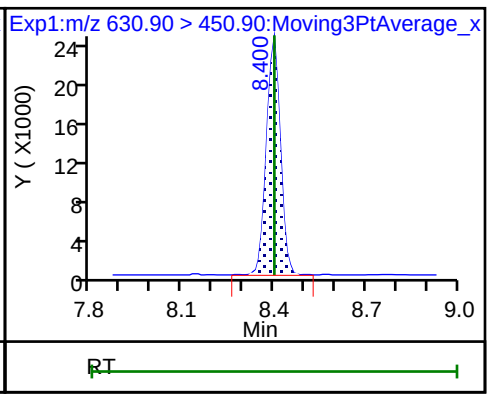
67 PFTrDA



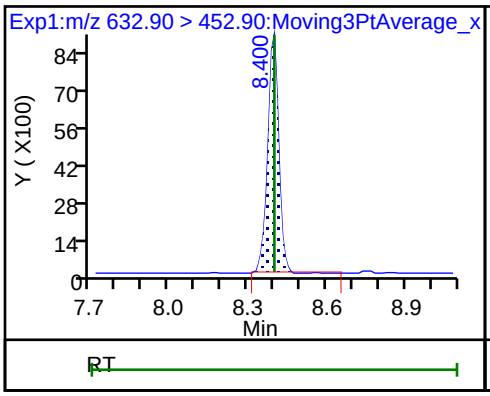
67 PFTrDA



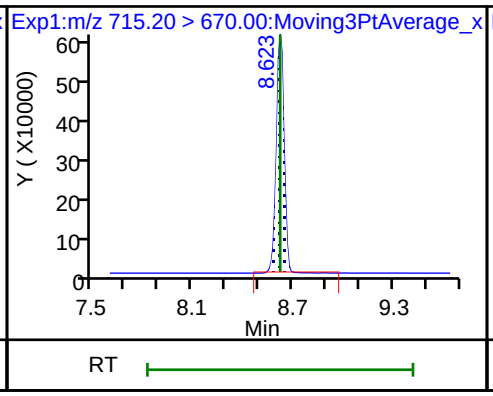
68 11ClFOS



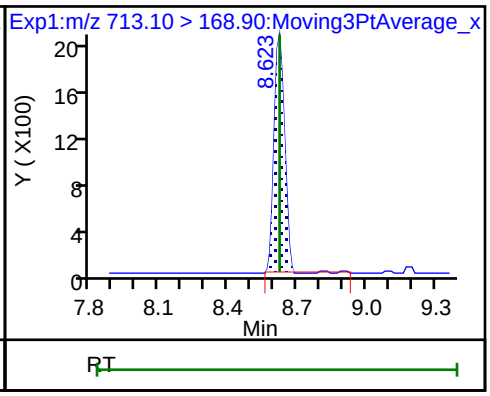
68 11ClFOS



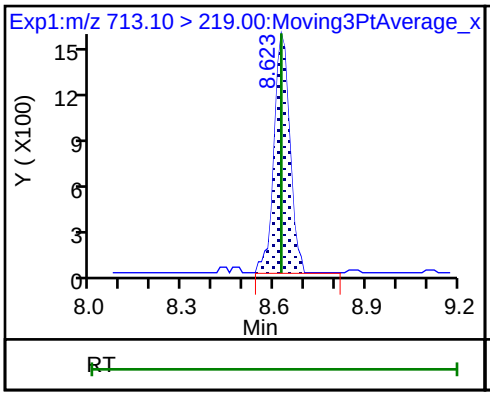
D 70 13C2 PFTeDA



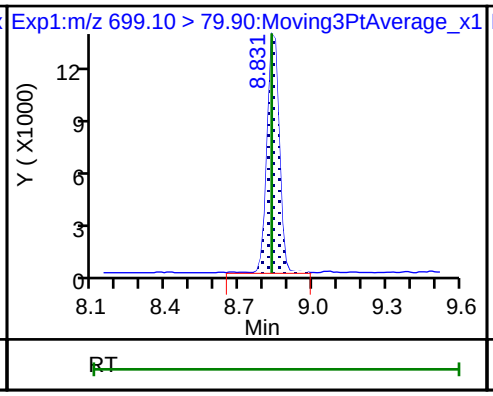
69 PFTeDA



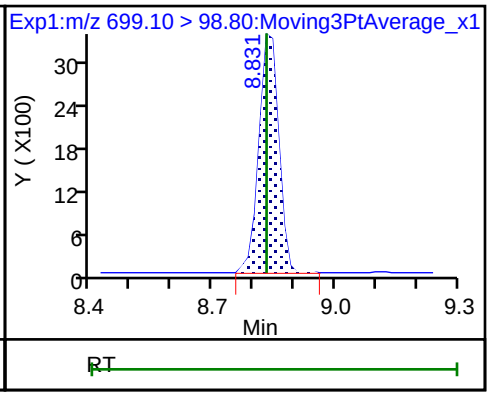
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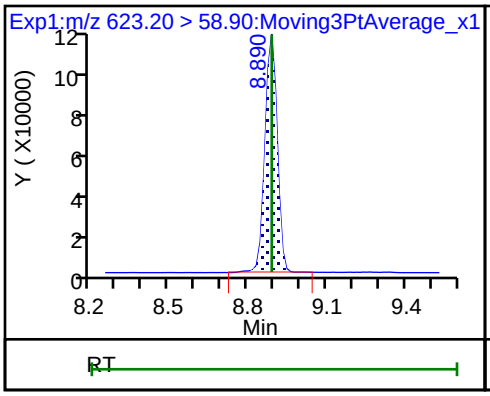
71 PFDoS



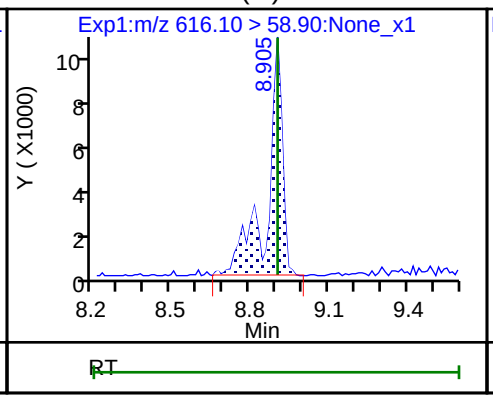
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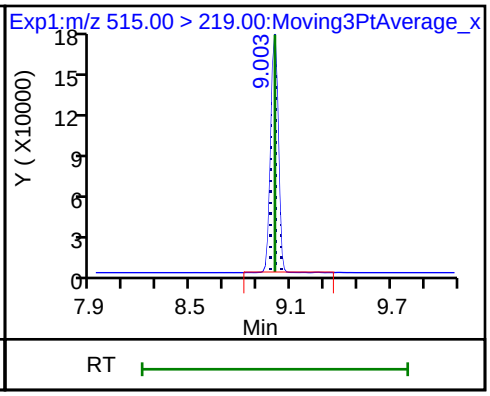
D 72 d7-N-Me-FOSE



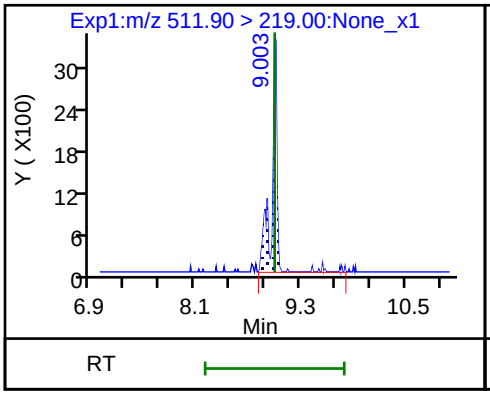
73 N-MeFOSE-M (M)



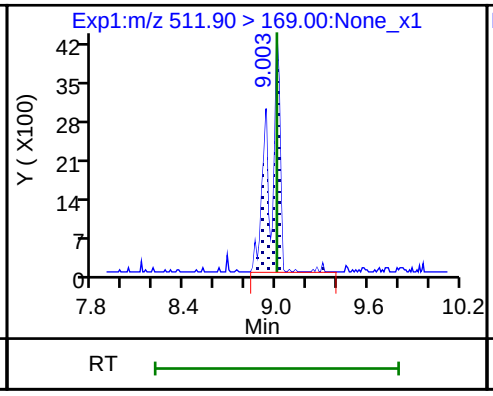
D 75 d3-NMePFOSA



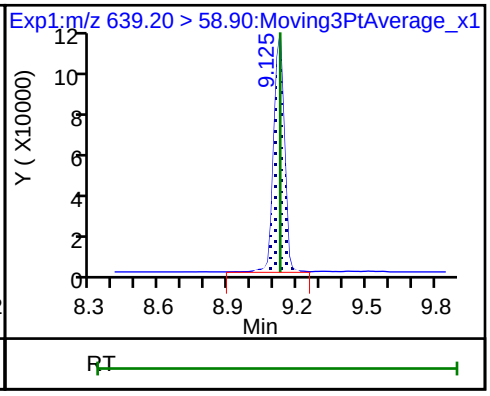
74 NMeFOSA



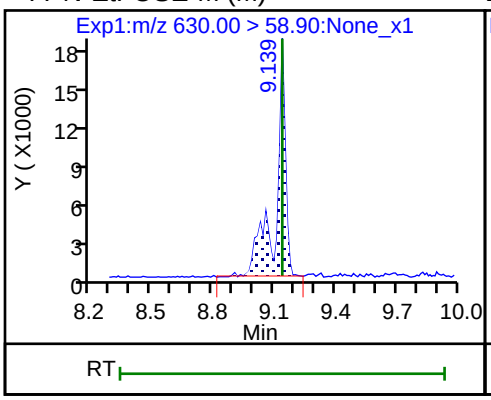
74 NMeFOSA



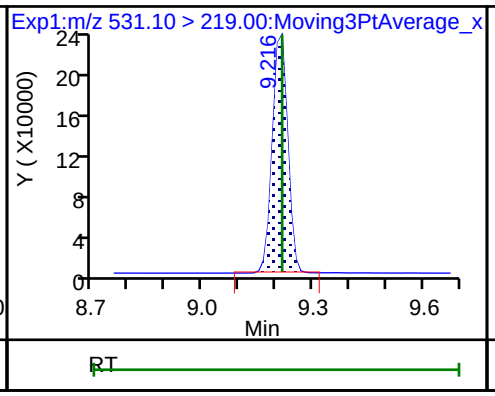
D 76 d9-N-EtFOSE



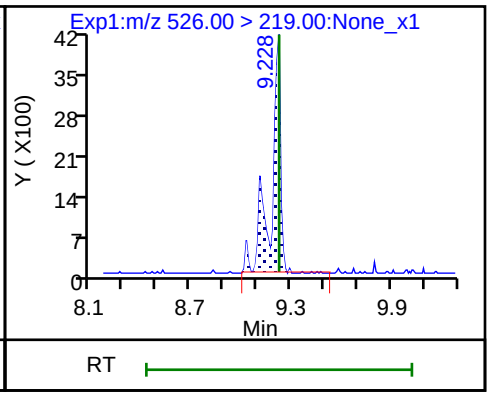
77 N-EtFOSE-M (M)



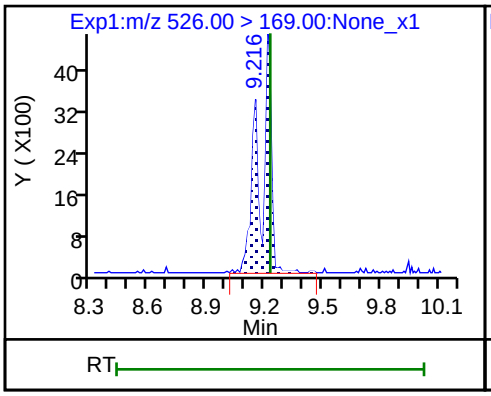
D 78 d5-NEtPFOSA



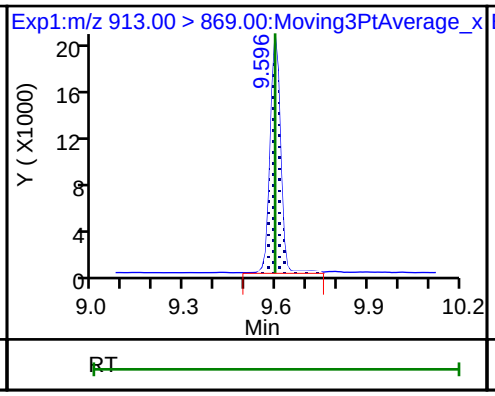
79 N-EtFOSA-M



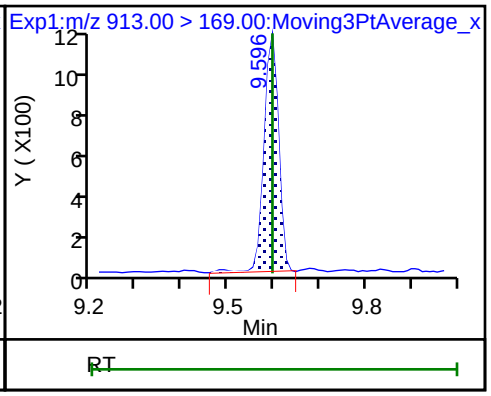
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

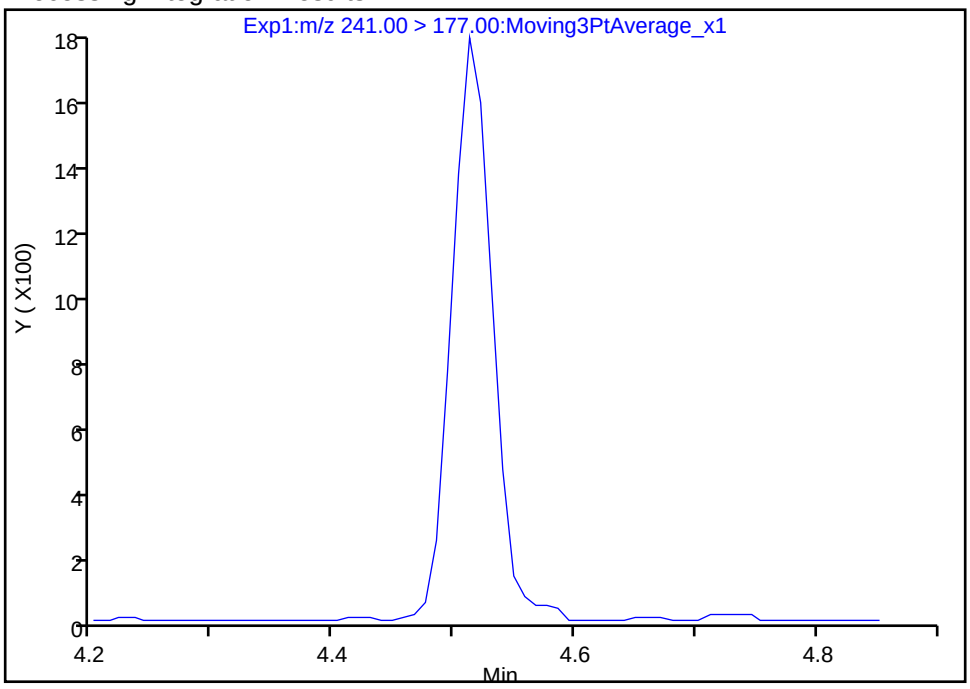
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Injection Date: 04-Feb-2026 09:39:21 Instrument ID: 30577
Lims ID: IC CAL 1
Client ID:
Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL
Column: Detector EXP1

7 3:3 FTCA, CAS: 356-02-5

Signal: 1

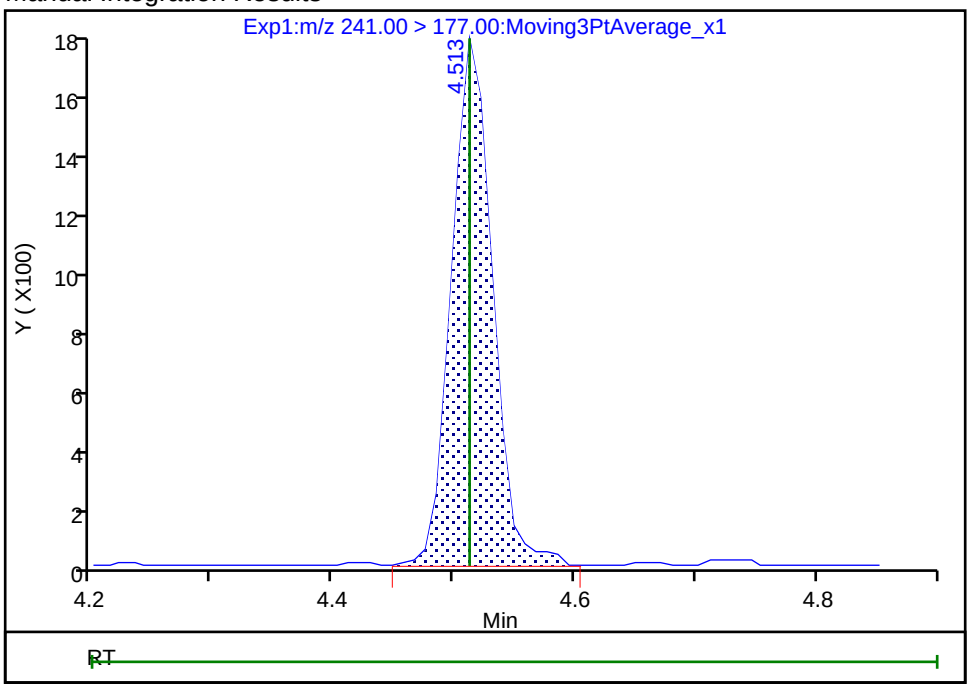
Not Detected
Expected RT: 4.51

Processing Integration Results



Manual Integration Results

RT: 4.51
Area: 4199
Amount: 0.093818
Amount Units: ng/ml



Reviewer: QY4X, 04-Feb-2026 12:28:02 -05:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

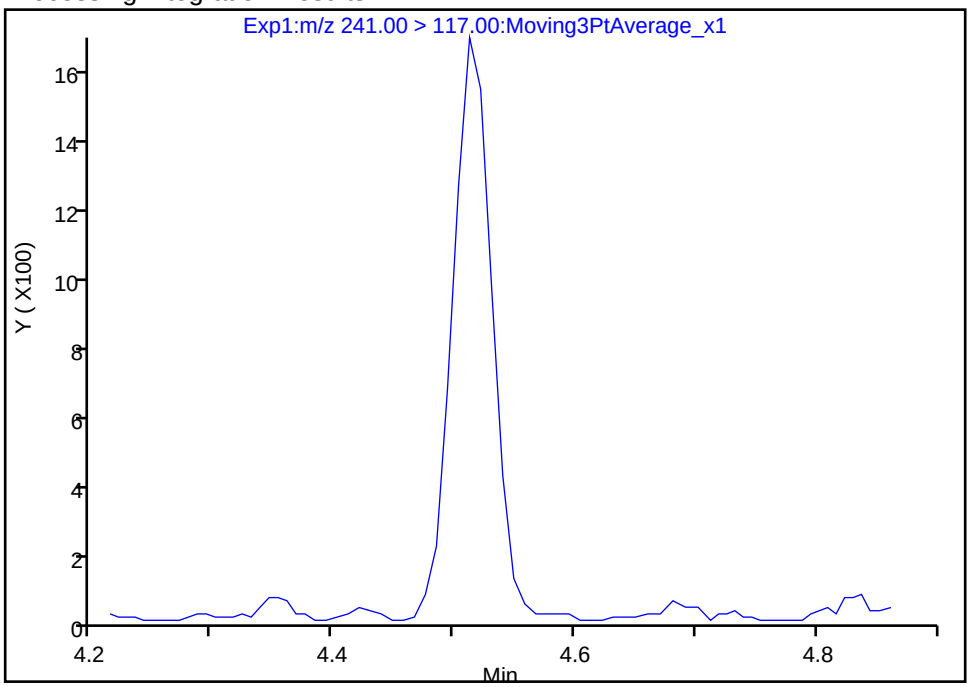
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Injection Date: 04-Feb-2026 09:39:21 Instrument ID: 30577
Lims ID: IC CAL 1
Client ID:
Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL
Column: Detector EXP1

7 3:3 FTCA, CAS: 356-02-5

Signal: 2

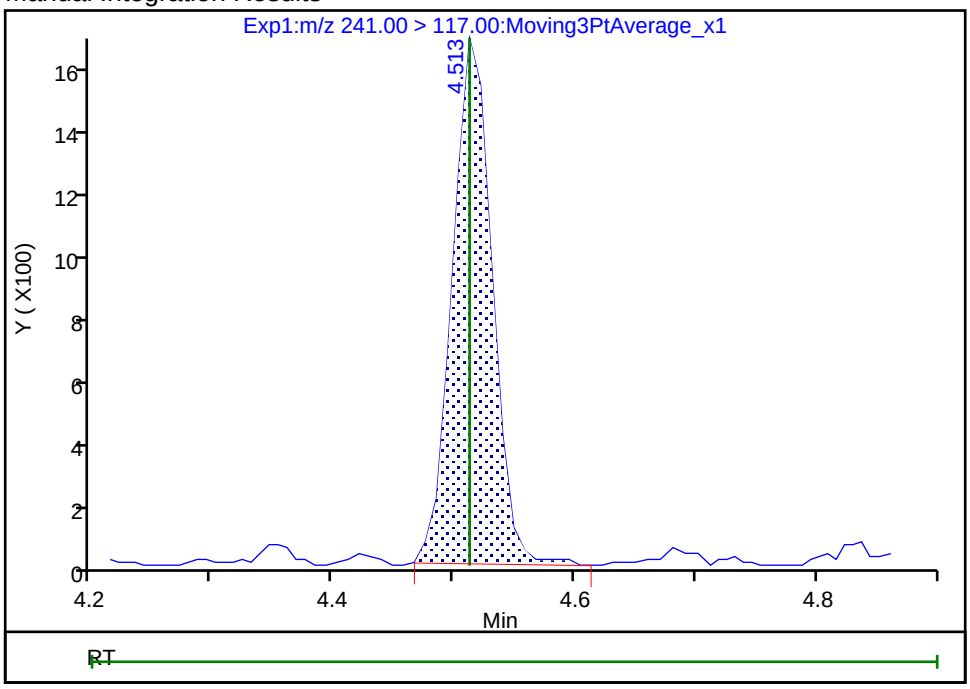
Not Detected
Expected RT: 4.51

Processing Integration Results



Manual Integration Results

RT: 4.51
Area: 3738
Amount: 0.093818
Amount Units: ng/ml



Reviewer: QY4X, 04-Feb-2026 12:28:07 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

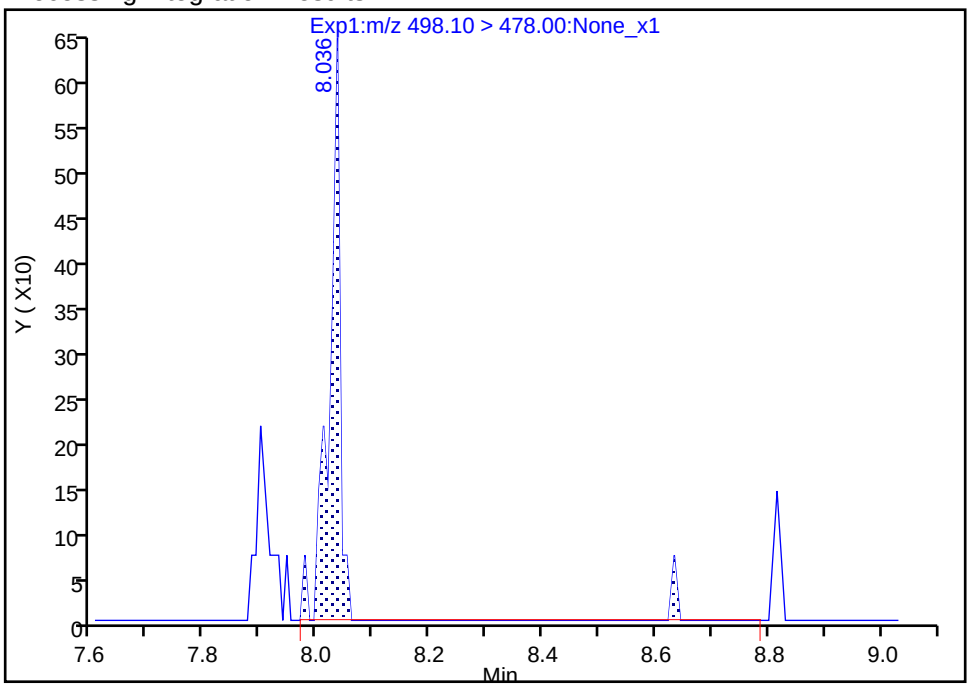
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Injection Date:	04-Feb-2026 09:39:21	Instrument ID:	30577		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

64 PFOSA, CAS: 754-91-6

Signal: 2

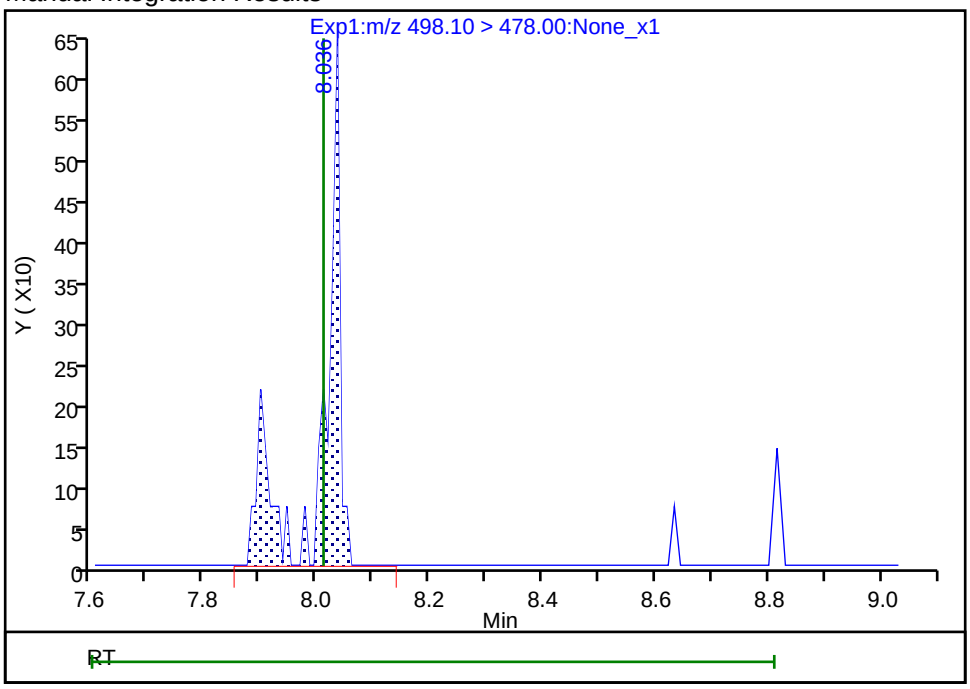
Processing Integration Results

RT: 8.04
Area: 900
Amount: 0.049831
Amount Units: ng/ml



Manual Integration Results

RT: 8.04
Area: 1229
Amount: 0.049831
Amount Units: ng/ml



Reviewer: QY4X, 04-Feb-2026 12:28:23 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

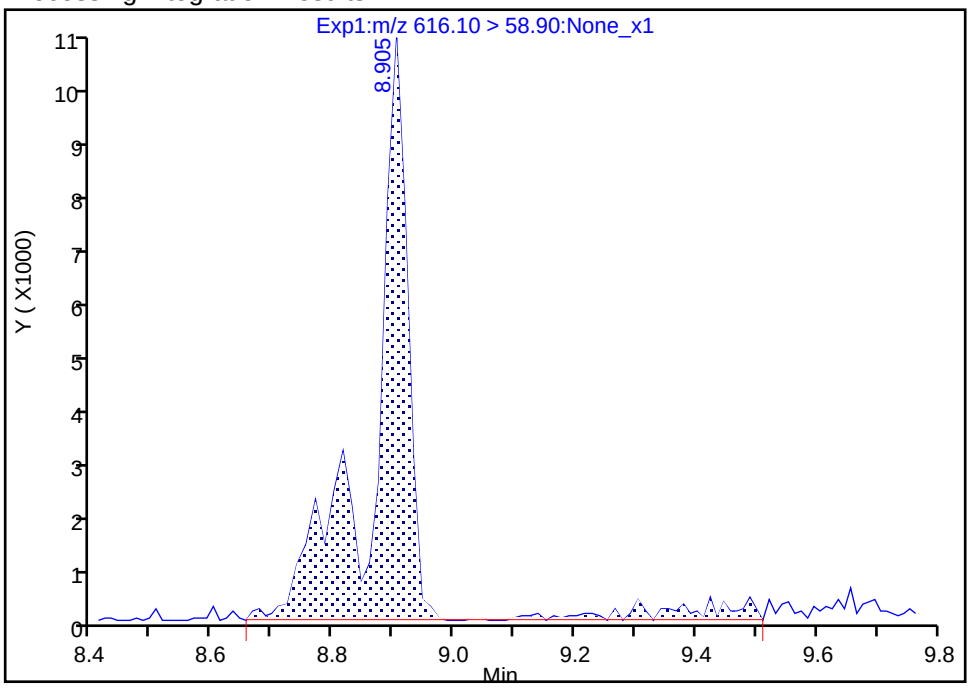
Data File:	\\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-01.d				
Injection Date:	04-Feb-2026 09:39:21	Instrument ID:	30577		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

73 N-MeFOSE-M, CAS: 24448-09-7

Signal: 1

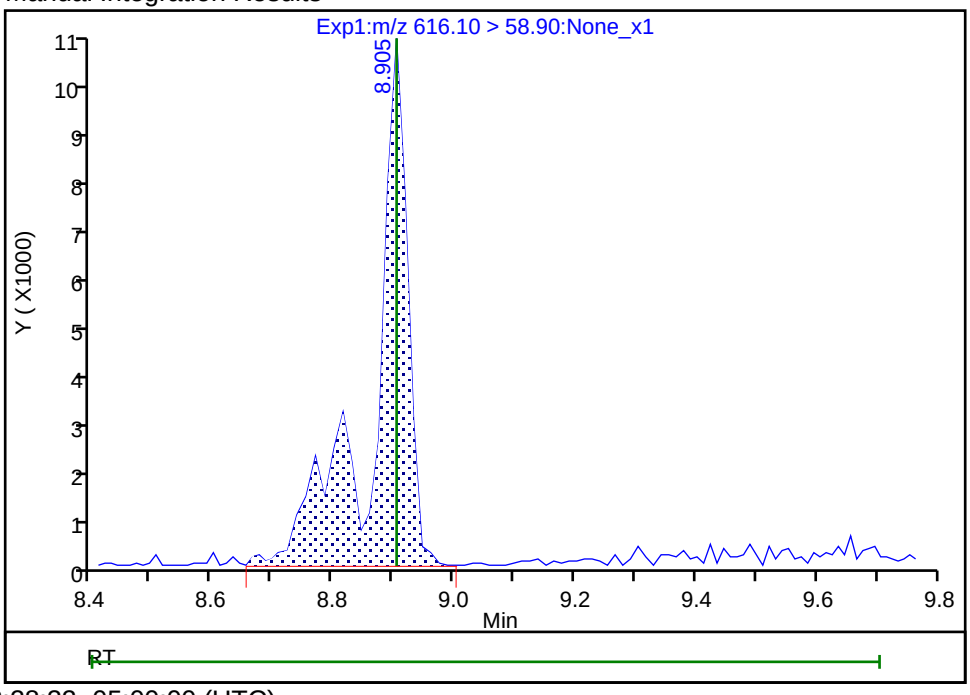
Processing Integration Results

RT: 8.90
Area: 46022
Amount: 0.246229
Amount Units: ng/ml



Manual Integration Results

RT: 8.90
Area: 42338
Amount: 0.229099
Amount Units: ng/ml



Reviewer: QY4X, 04-Feb-2026 12:28:32 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

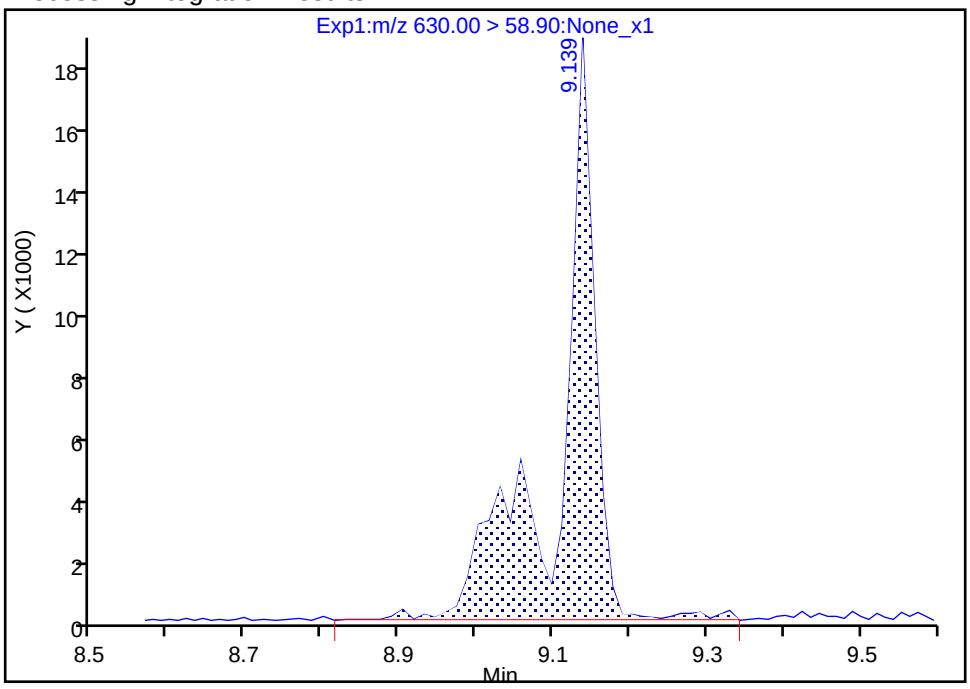
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Injection Date:	04-Feb-2026 09:39:21	Instrument ID:	30577		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

77 N-EtFOSE-M, CAS: 1691-99-2

Signal: 1

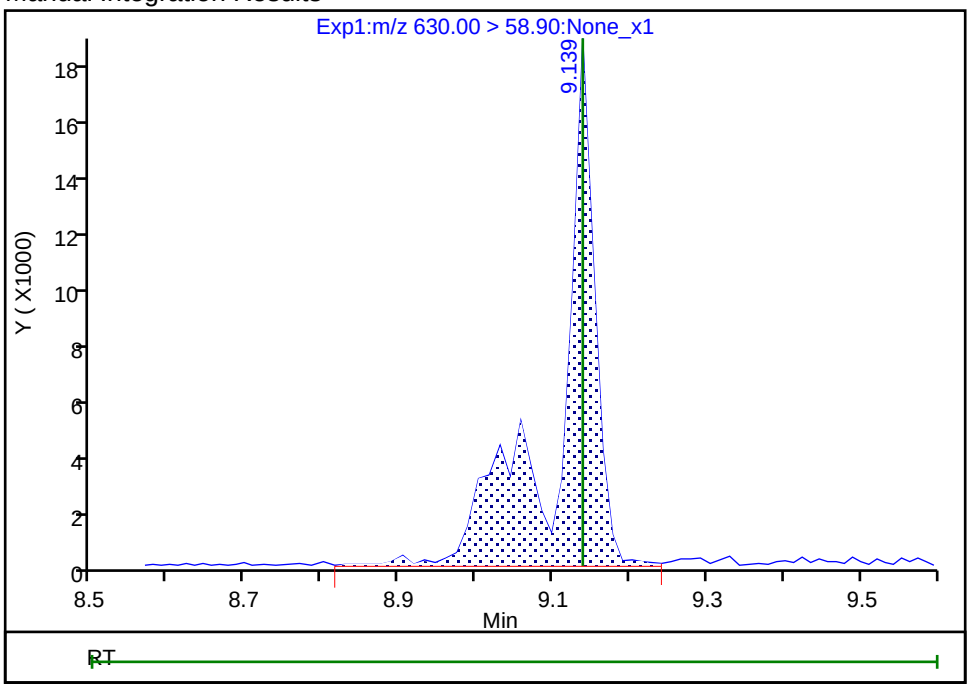
Processing Integration Results

RT: 9.14
Area: 63139
Amount: 0.266259
Amount Units: ng/ml



Manual Integration Results

RT: 9.14
Area: 62034
Amount: 0.262298
Amount Units: ng/ml



Reviewer: QY4X, 04-Feb-2026 12:28:36 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-02.d
Lims ID: IC CAL 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 04-Feb-2026 09:52:58 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 2
Misc. Info.: Plate: 1 Rack: 1 410-0174606-002
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub12

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 12:59:37 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:29:18
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.001	2.027	-0.026	0.996	392965	0.6391		102	1180	
D 1 13C3PFPrA										
166.00 > 121.00	2.010	2.035	-0.025	0.482	1338726	2.03		101	2255	
3 PFBA										
212.80 > 168.90	4.166	4.174	-0.008	1.000	215550	0.2551		102	1660	
D 4 13C4-PFBA										
216.80 > 171.90	4.166	4.180	-0.014	0.998	1839284	2.06		103	5761	
* 5 13C3PFBA										
216.00 > 172.00	4.173	4.180	-0.007		1739088	2.00			3755	
6 PFMPA										
229.00 > 84.90	4.503	4.504	-0.001	0.934	120254	0.1344		108	924	
7 3:3 FTCA										
241.00 > 177.00	4.513	4.513	0.0	0.936	11873	0.2758	Target=1.17	110	250	
241.00 > 117.00	4.513	4.513	0.0	0.936	10379		1.14(0.58-1.75)	110	138	
D 8 13C5 PFPeA										
268.30 > 223.00	4.823	4.830	-0.007	0.913	1747761	1.97		98.4	4272	
9 PFPA										
263.00 > 219.00	4.830	4.830	0.0	1.001	135739	0.1301		104	478	
10 PFMBA										
279.00 > 85.10	4.985	4.986	-0.001	1.034	151272	0.1277		102	984	
12 4:2FTS										
327.10 > 307.00	5.101	5.101	0.0	1.000	108038	0.2574	Target=1.69	110	1203	
327.10 > 80.90	5.101	5.101	0.0	1.000	58148		1.86(0.85-2.54)	110	38.0	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.101	5.101	0.0	0.801	1063964	4.80		102	4549	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.249	5.249	0.0	0.994	39466	0.1468	Target=1.47	117	286	
295.00 > 84.90	5.238	5.249	-0.011	0.992	23380		1.69(0.74-2.21)	117	102	
D 15 13C5 PFHxA										
318.00 > 273.00	5.281	5.292	-0.011	1.000	2154530	2.00		99.8	3335	
* 16 13C2 PFHxA										
315.10 > 270.00	5.281	5.292	-0.011		5094842	5.00			6077	
17 PFHxA										
313.00 > 269.00	5.281	5.292	-0.011	1.000	120478	0.1295	Target=10.33	104	390	
313.00 > 118.90	5.292	5.292	0.0	1.002	11031		10.92(5.17-15.50)	104	127	
18 5:3 FTCA										
341.00 > 237.10	5.367	5.367	0.0	1.016	81384	0.6260	Target=0.77	100	776	
341.00 > 217.00	5.367	5.367	0.0	1.016	100558		0.81(0.38-1.15)	100	722	
D 19 13C3 PFBS										
302.10 > 79.90	5.428	5.437	-0.009	0.852	2171131	1.83		98.0	4437	
20 PFBS										
298.70 > 79.90	5.428	5.437	-0.009	1.000	124589	0.1194	Target=3.28	108	439	
298.70 > 98.80	5.428	5.437	-0.009	1.000	38275		3.26(1.64-4.92)	108	301	
23 HFPO-DA										
284.90 > 168.90	5.466	5.476	-0.010	0.998	73435	0.0911	Target=2.47	97.2	336	
284.90 > 184.90	5.466	5.476	-0.010	0.998	31613		2.32(1.23-3.70)	97.2	134	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.476	5.476	0.0	1.037	1504764	2.05		102	4117	
21 FBSA										
297.90 > 78.00	5.507	5.519	-0.012	1.015	113972	0.1231		98.5	461	
26 PFEESA										
314.80 > 134.90	5.679	5.679	0.0	1.075	293530	0.1140	Target=12.38	102	1422	
314.80 > 82.90	5.668	5.679	-0.011	1.073	23337		12.58(6.19-18.57)	102	129	
27 PFHpA										
363.10 > 319.00	5.711	5.722	-0.011	1.000	118669	0.1389	Target=1.90	111	502	
363.10 > 169.00	5.711	5.722	-0.011	1.000	61844		1.92(0.95-2.85)	111	294	
D 28 13C4 PFHpA										
367.10 > 322.00	5.711	5.722	-0.011	1.081	2034433	1.93		96.5	4873	
29 ADONA										
376.90 > 250.90	5.867	5.877	-0.010	1.071	288764	0.1100	Target=2.21	93.0	1089	
376.90 > 84.80	5.867	5.877	-0.010	1.071	133885		2.16(1.10-3.31)	93.0	803	
31 6:2FTS										
427.10 > 407.00	5.919	5.920	-0.001	1.000	83380	0.2260	Target=1.66	95.0	498	
427.10 > 80.90	5.919	5.920	-0.001	1.000	51357		1.62(0.83-2.48)	95.0	138	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.919	5.920	-0.001	0.929	937720	5.01		105	4472	
30 PFPeS										
349.10 > 79.90	5.919	5.920	-0.001	0.929	134229	0.1199	Target=3.14	102	813	
349.10 > 98.90	5.919	5.920	-0.001	0.929	45425		2.95(1.57-4.71)	102	376	
33 BTS										
280.00 > 147.00	6.083	6.093	-0.010	0.955	266042	0.1263		103	1443	
* 34 13C4 PFOA										
417.10 > 372.00	6.123	6.133	-0.010		6974554	5.00			3759	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.123	6.133	-0.010	1.000	2857409	2.01		101	3761	
36 PFOA										
413.00 > 369.00	6.123	6.133	-0.010	1.000	115052	0.1299	Target=1.85	104	168	
413.00 > 169.00	6.123	6.133	-0.010	1.000	62738		1.83(0.93-2.78)	104	72.3	
37 7:3 FTCA										
441.00 > 316.90	6.214	6.224	-0.010	1.177	36096	0.5796	Target=0.30	92.7	67.5	
441.00 > 336.90	6.214	6.224	-0.010	1.177	129649		0.28(0.15-0.45)	92.7	839	
D 38 13C3 PFHxS										
402.10 > 79.90	6.369	6.369	0.0	1.000	1834765	1.82		96.2	7848	
* 39 18O2 PFHxS										
403.00 > 83.90	6.369	6.369	0.0		1770828	1.90			4604	
40 PFHxS										
398.70 > 79.90	6.358	6.369	-0.011	0.998	94583	0.1265	Target=3.16	111	156	
398.70 > 98.90	6.369	6.369	0.0	1.000	30543		3.10(1.58-4.75)	111	76.8	
D 41 13C9 PFNA										
472.10 > 427.00	6.538	6.549	-0.011	1.000	2159229	2.02		101	5937	
43 PFNA										
463.00 > 419.00	6.538	6.549	-0.011	1.000	128369	0.1369	Target=2.07	110	165	
463.00 > 219.00	6.538	6.549	-0.011	1.000	60078		2.14(1.03-3.11)	110	84.2	
* 42 13C5 PFNA										
468.00 > 423.00	6.538	6.549	-0.011		2062536	2.00			3586	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.727	6.737	-0.010	1.056	950610	4.91		102	4060	
45 8:2FTS										
527.10 > 507.00	6.718	6.737	-0.019	0.999	81998	0.2382	Target=1.94	99.3	667	
527.10 > 80.80	6.727	6.737	-0.010	1.000	47119		1.74(0.97-2.91)	99.3	200	
46 PFECHS										
461.00 > 381.00	6.765	6.775	-0.010	1.062	26766	0.1231	Target=0.18	107	7599	
461.00 > 99.00	6.765	6.775	-0.010	1.062	146902		0.18(0.09-0.26)	107	265	
47 PFHpS										
449.00 > 79.90	6.802	6.811	-0.009	0.941	130356	0.1211	Target=3.74	102	1118	
449.00 > 98.80	6.811	6.811	0.0	0.942	38491		3.39(1.87-5.60)	102	11047	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.890	6.900	-0.010	0.953	1917674	5.01		100	2524	
50 NMeFOSAA										
570.10 > 419.00	6.900	6.900	0.0	1.001	49651	0.1330	Target=1.81	106	12.7	
570.10 > 483.00	6.900	6.900	0.0	1.001	28825		1.72(0.91-2.72)	106	67.3	
48 FHxSA										
397.90 > 78.00	6.929	6.939	-0.010	1.088	167567	0.1328		106	652	
53 PFDA										
512.90 > 469.00	6.960	6.970	-0.010	1.000	113069	0.1336	Target=3.70	107	655	
512.90 > 219.00	6.960	6.970	-0.010	1.000	31242		3.62(1.85-5.54)	107	209	
D 52 13C6 PFDA										
519.10 > 474.10	6.960	6.970	-0.010	1.000	2303371	2.09		105	11192	
* 51 13C2 PFDA										
515.10 > 470.10	6.960	6.970	-0.010		2231789	2.00			5902	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.070	7.081	-0.010	0.978	1676820	5.07		101	2994	
55 NEtFOSAA										
584.20 > 419.10	7.070	7.090	-0.020	1.000	40314	0.1370	Target=1.29	110	46.4	
584.20 > 526.00	7.080	7.090	-0.010	1.001	30262		1.33(0.65-1.94)	110	66.6	
D 56 13C8 PFOS										
507.10 > 79.90	7.232	7.241	-0.009	1.000	1646445	1.99		104	5540	
* 57 13C4 PFOS										
502.80 > 79.90	7.232	7.241	-0.009		1421881	1.92			7512	
58 PFOS										
498.90 > 79.90	7.232	7.251	-0.019	1.000	137417	0.1181	Target=4.49	102	216	
498.90 > 98.80	7.232	7.251	-0.019	1.000	32346		4.25(2.24-6.73)	102	109	
D 59 13C7 PFUnA										
570.00 > 525.10	7.377	7.387	-0.010	1.060	2172557	1.98		99.1	5877	
60 PFUnA										
563.10 > 519.00	7.377	7.387	-0.010	1.000	102782	0.1348	Target=5.00	108	486	
563.10 > 269.10	7.377	7.387	-0.010	1.000	19751		5.20(2.50-7.49)	108	163	
61 9ClFOS										
530.80 > 351.00	7.554	7.571	-0.017	1.045	272109	0.1150	Target=3.04	98.5	996	
532.80 > 353.00	7.554	7.571	-0.017	1.045	91427		2.98(1.52-4.56)	98.5	587	
62 PFNS										
548.80 > 79.90	7.656	7.665	-0.009	1.059	90723	0.1234	Target=3.71	103	1041	
548.80 > 98.80	7.656	7.665	-0.009	1.059	21714		4.18(1.85-5.56)	103	278	
D 81 PFDoA										
615.10 > 570.00	7.798	7.806	-0.008	1.121	2139215	2.03		102	3993	
63 PFDoA										
613.10 > 569.00	7.791	7.806	-0.015		126485	0.1267	Target=5.74	101	696	
613.10 > 319.00	7.791	7.806	-0.015		22994		5.50(2.87-8.61)	101	255	
64 PFOSA										
498.10 > 77.90	8.011	8.011	0.0	1.000	120717	0.1265	Target=41.30	101	234	
498.10 > 478.00	8.019	8.011	0.008	1.001	2984		40.45(20.65-61.94)	101	14.9	
D 65 13C8 FOSA										
506.10 > 77.80	8.011	8.019	-0.008	1.108	1727560	2.03		101	7654	
66 PFDS										
599.00 > 79.90	8.068	8.077	-0.009	1.116	121513	0.1241	Target=3.87	103	1626	
599.00 > 98.80	8.068	8.077	-0.009	1.116	33498		3.63(1.93-5.80)	103	11052	
67 PFTrDA										
663.00 > 619.00	8.221	8.222	-0.001	0.953	133098	0.1381	Target=6.63	110	939	
663.00 > 168.90	8.221	8.222	-0.001	0.953	18063		7.37(3.32-9.95)	110	235	
68 11ClFOS										
630.90 > 450.90	8.400	8.400	0.0	1.162	181237	0.1112	Target=3.04	94.2	998	
632.90 > 452.90	8.389	8.400	-0.011	1.160	59473		3.05(1.52-4.56)	94.2	926	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.623	8.623	0.0	1.239	2063104	2.18		109	4034	
69 PFTeDA										
713.10 > 168.90	8.612	8.623	-0.011	0.999	13025	0.1126	Target=1.02	90.1	135	
713.10 > 219.00	8.612	8.623	-0.011	0.999	13898		0.94(0.51-1.53)	90.1	109	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.831	8.831	0.0	1.221	119640	0.1242	Target=4.07	102	798	
699.10 > 98.80	8.831	8.831	0.0	1.221	30513		3.92(2.04-6.11)	102	418	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.890	8.890	0.0	1.229	337161	4.93		98.6	940	
73 N-MeFOSE-M										
616.10 > 58.90	8.904	8.905	0.0	1.002	115827	0.6707		107	182	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.003	9.003	0.0	1.245	540338	2.00		100	2925	
74 NMeFOSA										
511.90 > 219.00	9.003	9.003	0.0	1.000	31363	0.1223	Target=0.72	97.9	154	
511.90 > 169.00	9.003	9.003	0.0	1.000	44264		0.71(0.36-1.07)	97.9	163	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.125	9.125	0.0	1.262	399805	5.42		108	715	
77 N-EtFOSE-M										
630.00 > 58.90	9.139	9.139	0.0	1.001	154857	0.5864		93.8	211	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.203	9.216	-0.013	1.273	705817	2.03		102	2031	
79 N-EtFOSA-M										
526.00 > 219.00	9.216	9.228	-0.012	1.001	38557	0.1257	Target=0.87	101	289	
526.00 > 169.00	9.216	9.228	-0.012	1.001	46835		0.82(0.43-1.30)	101	215	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.596	9.596	0.0	1.113	119051	0.1252	Target=17.07	100	3695	
913.00 > 169.00	9.585	9.596	-0.011	1.112	6829		17.43(8.53-25.60)	100	611	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL2_00036 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 12:59:41 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-02.d

Injection Date: 04-Feb-2026 09:52:58 Instrument ID: 30577

Lims ID: IC CAL 2

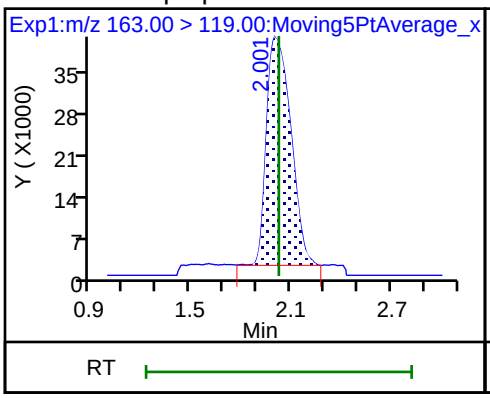
Client ID:

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 3 Worklist Smp#: 2

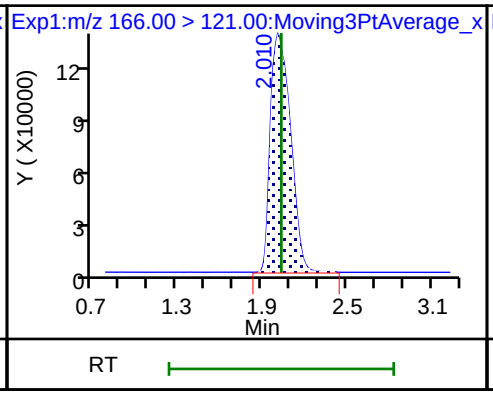
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

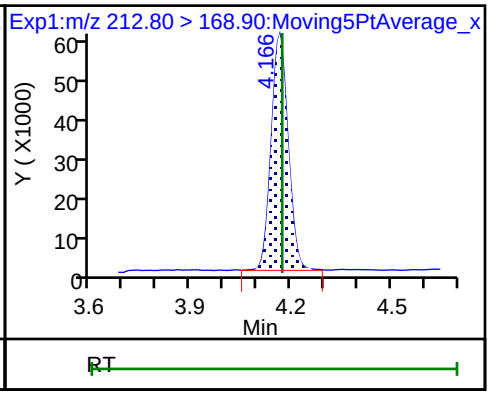
2 Perfluoropropionic acid



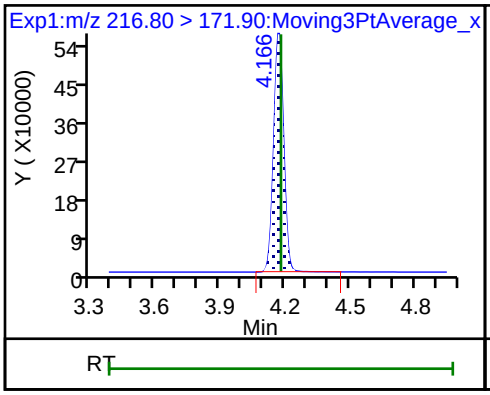
D 1 13C3PFPrA



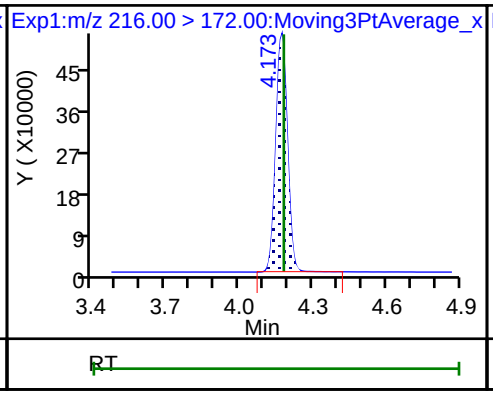
3 PFBA



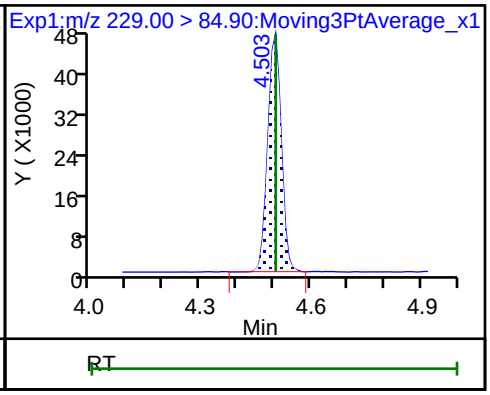
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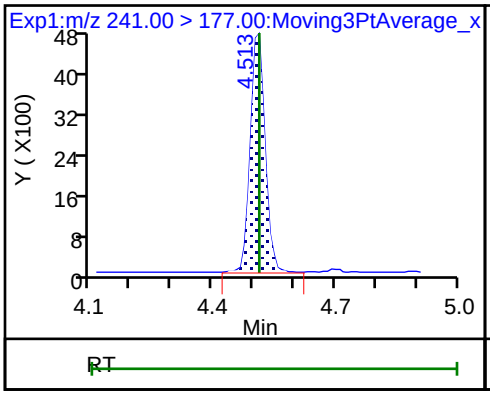
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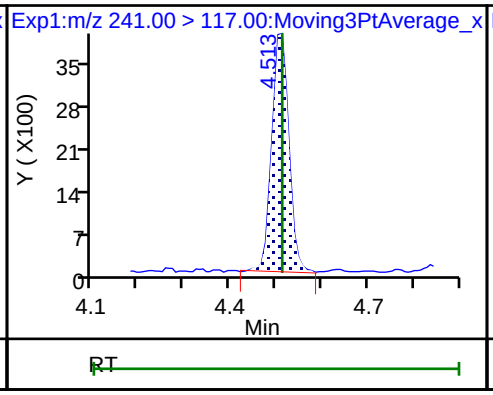
6 PFMPA



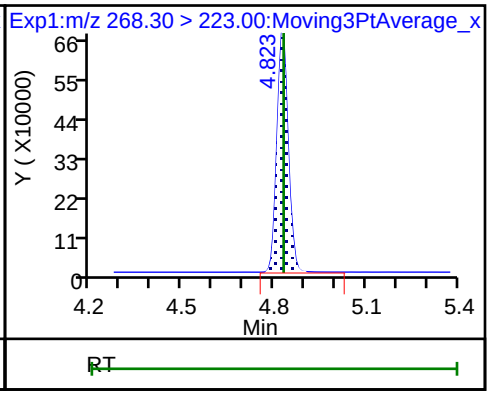
7 3:3 FTCA



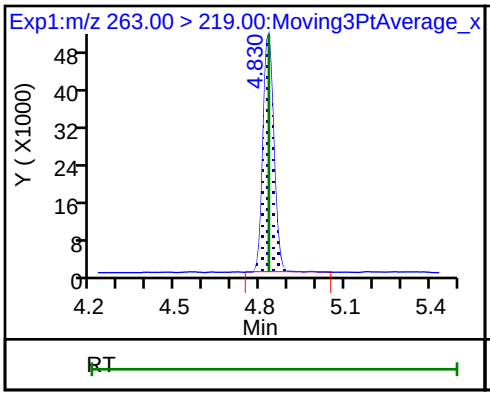
7 3:3 FTCA



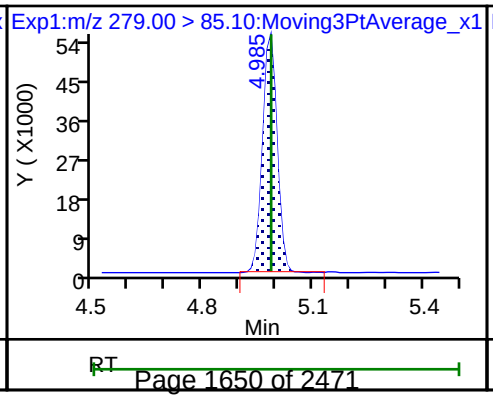
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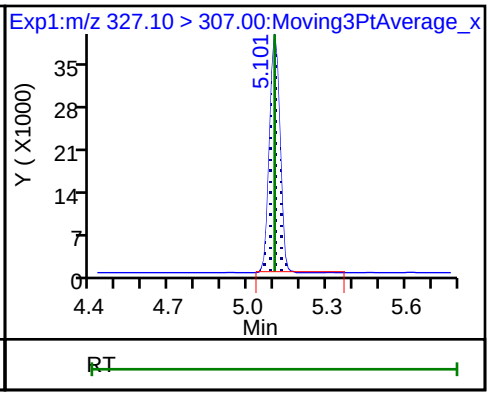
9 PFPA



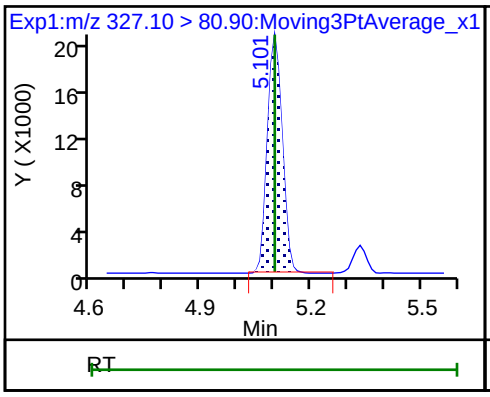
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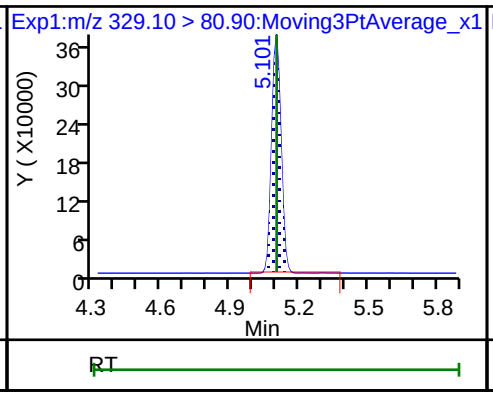
12 4:2FTS



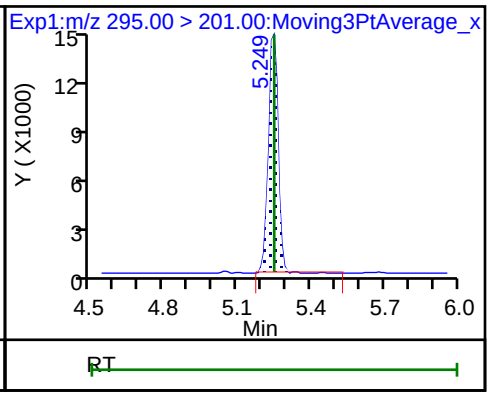
12 4:2FTS



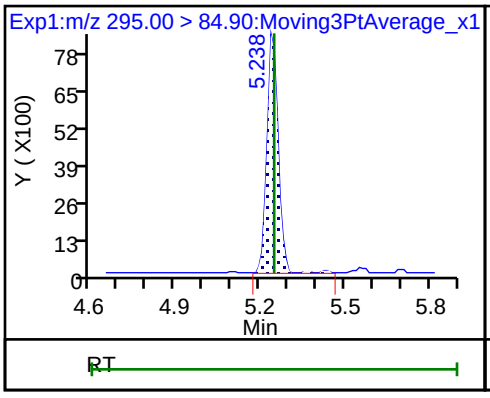
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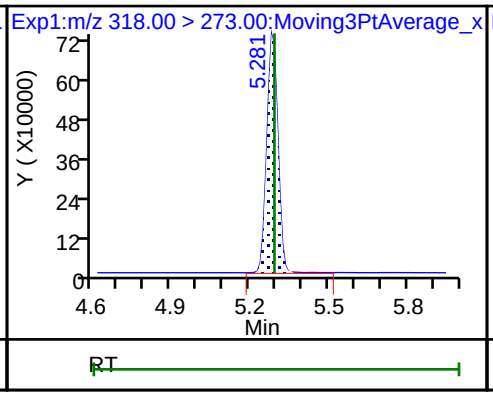
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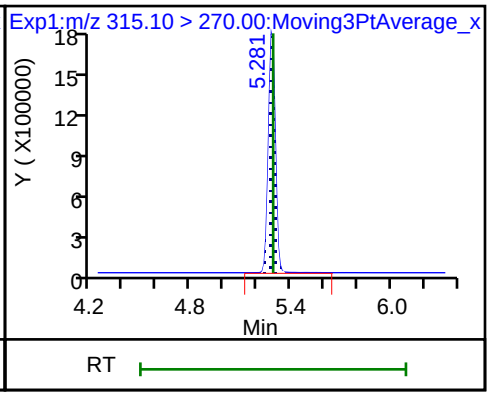
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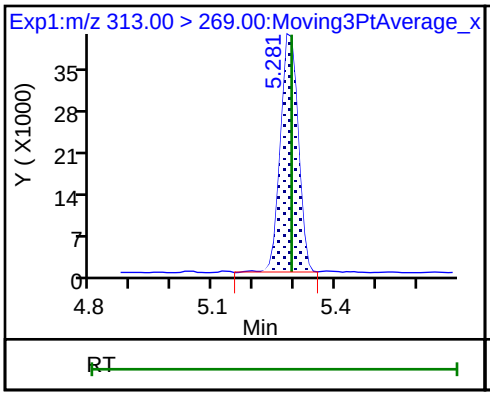
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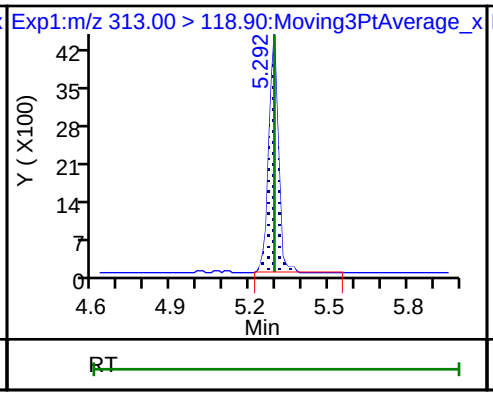
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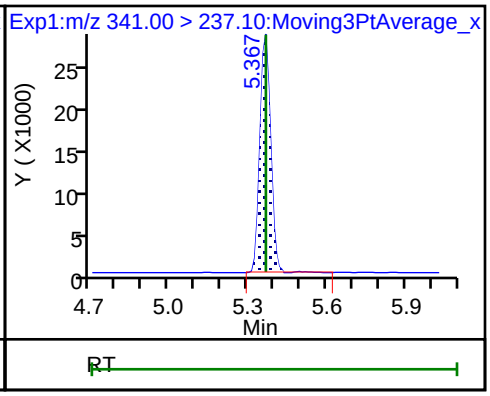
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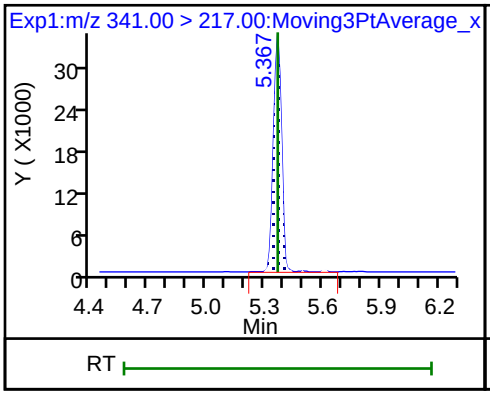
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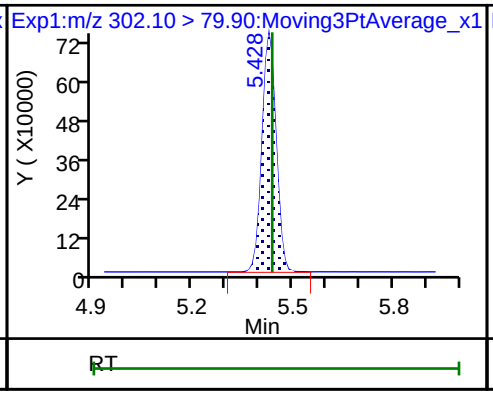
18 5:3 FTCA



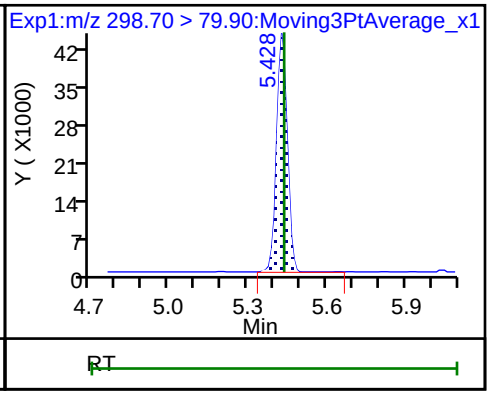
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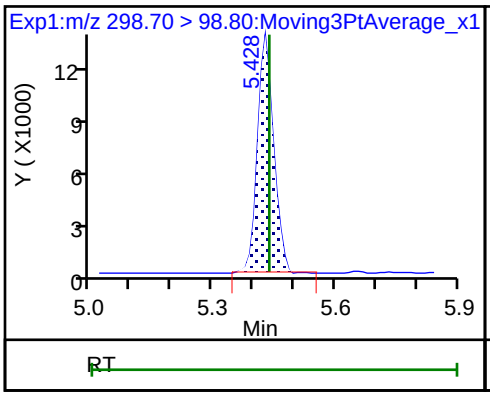
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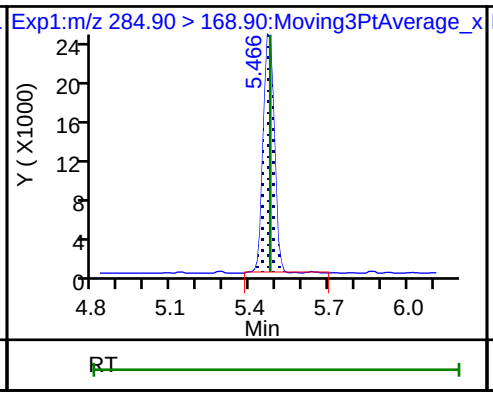
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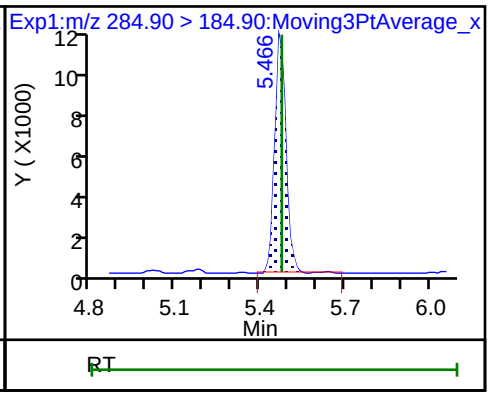
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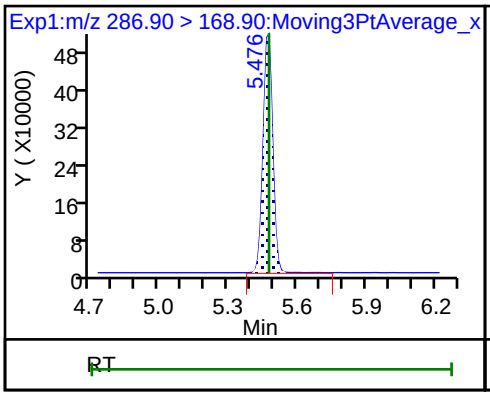
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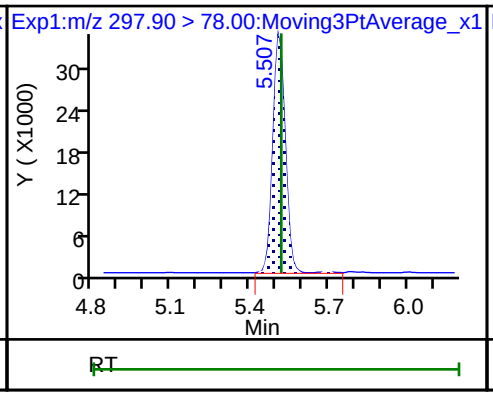
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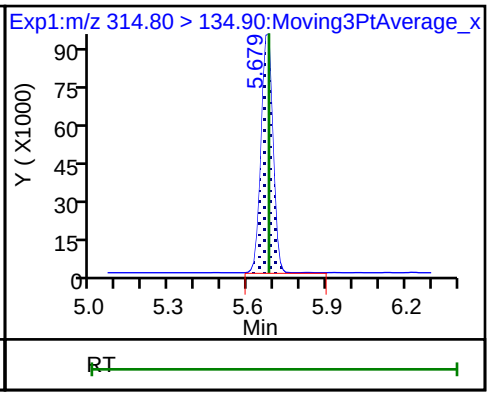
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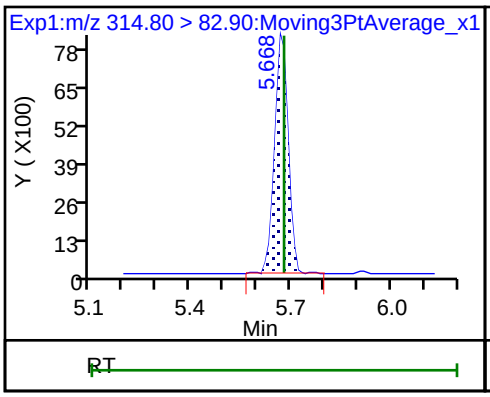
21 FBSA



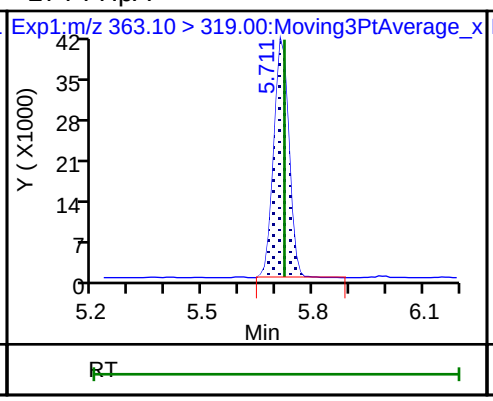
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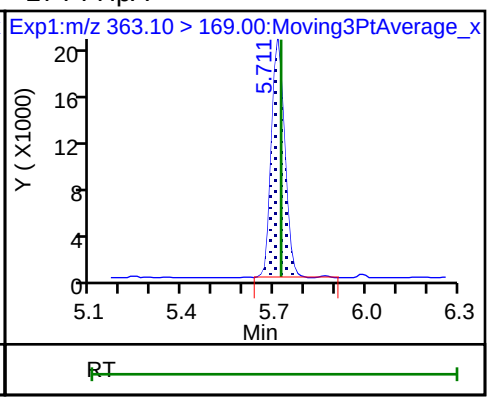
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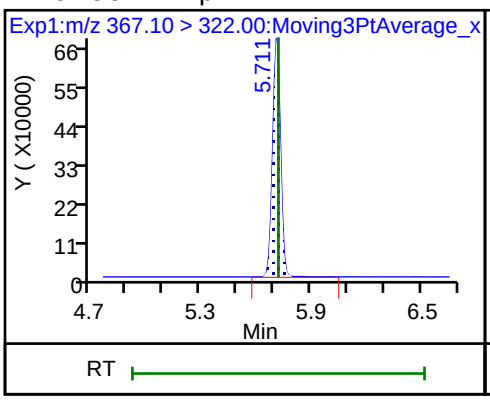
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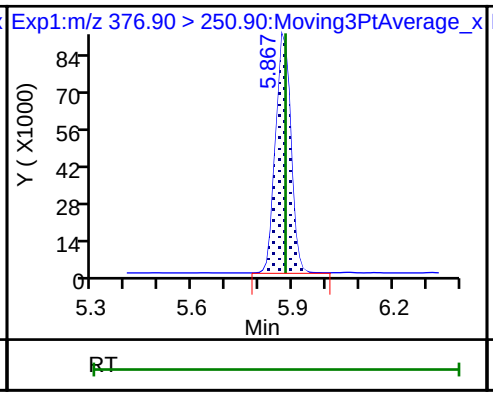
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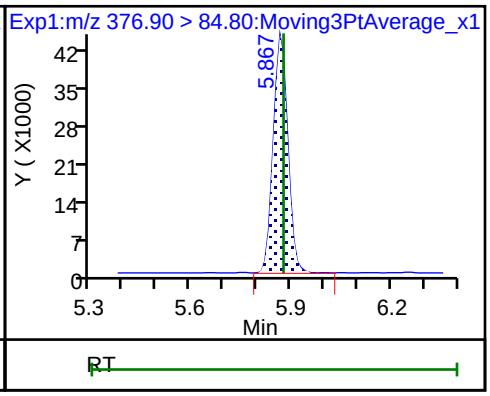
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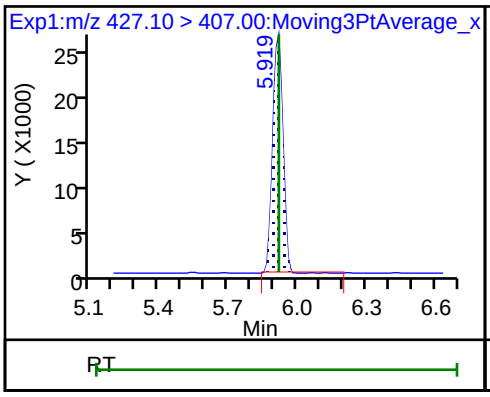
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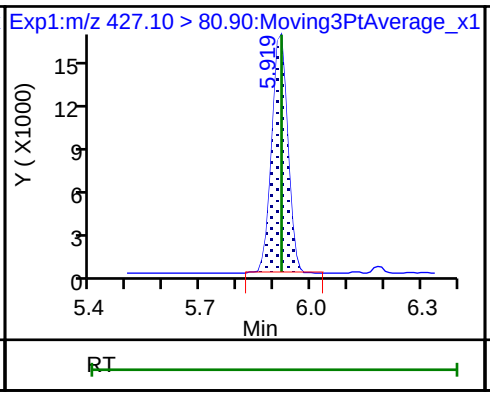
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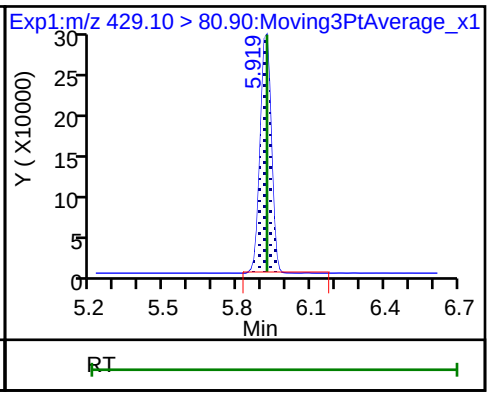
31 6:2FTS



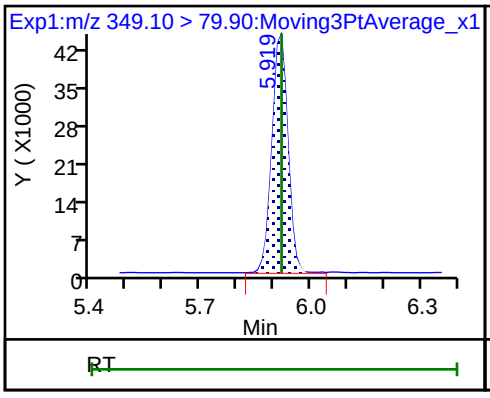
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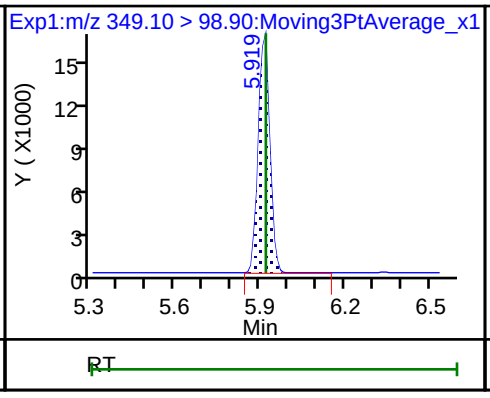
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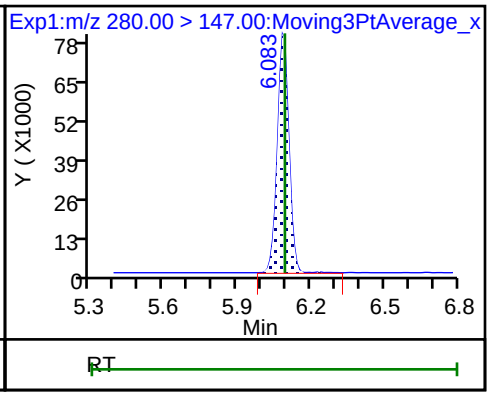
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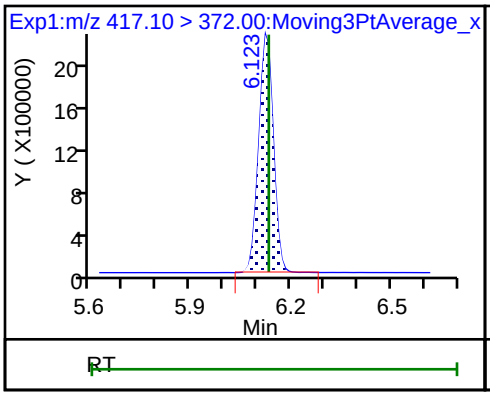
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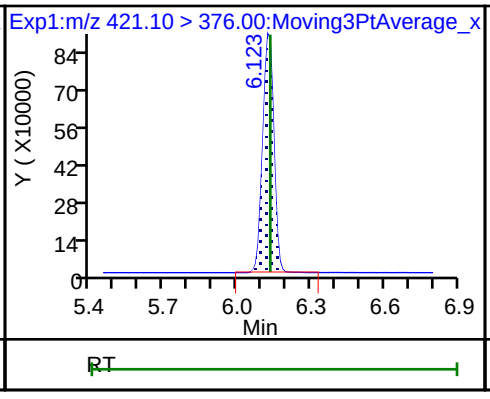
33 BTS



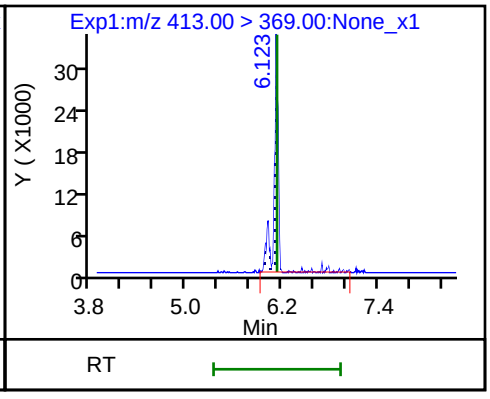
* 34 13C4 PFOA



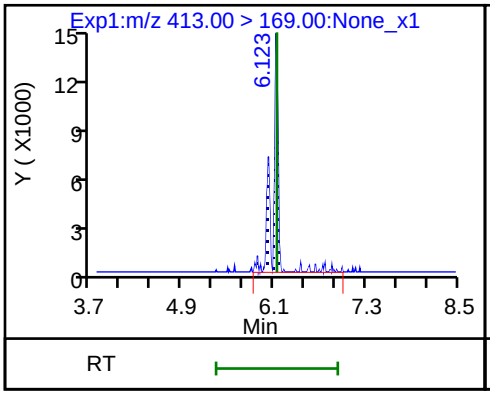
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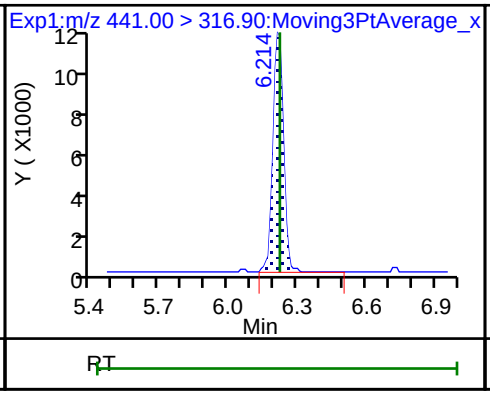
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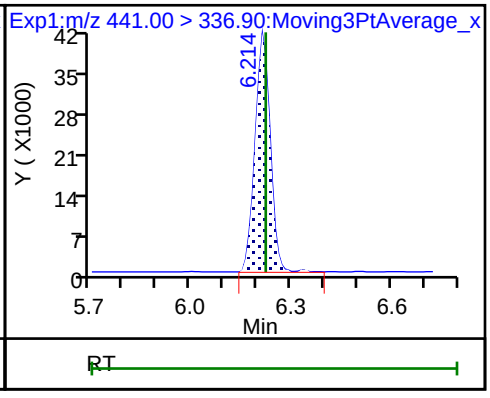
36 PFOA



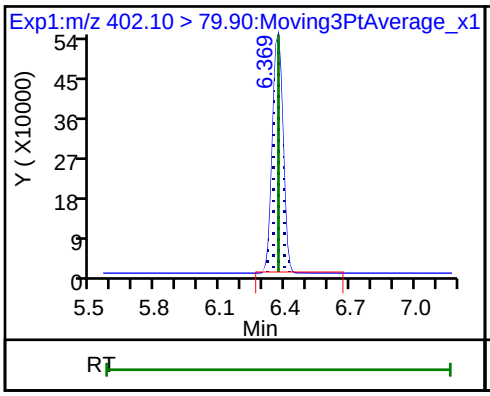
37 7:3 FTCA



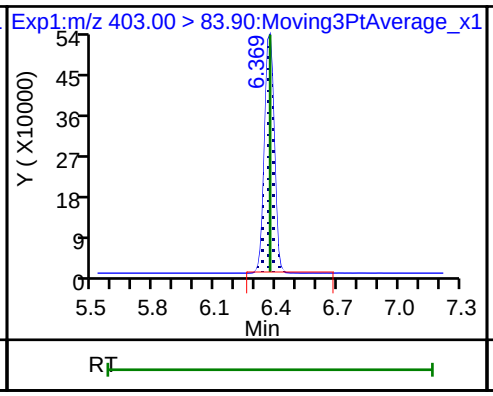
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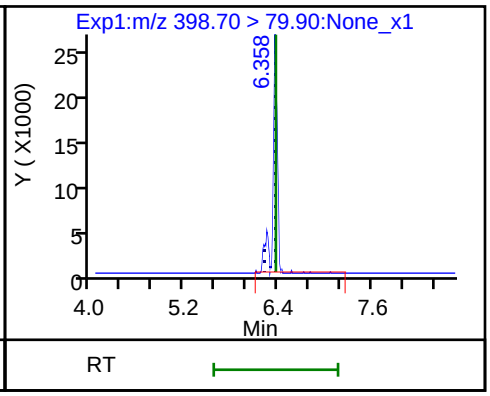
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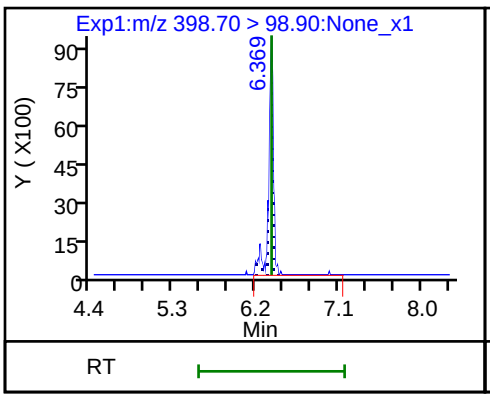
* 39 18O2 PFHxS



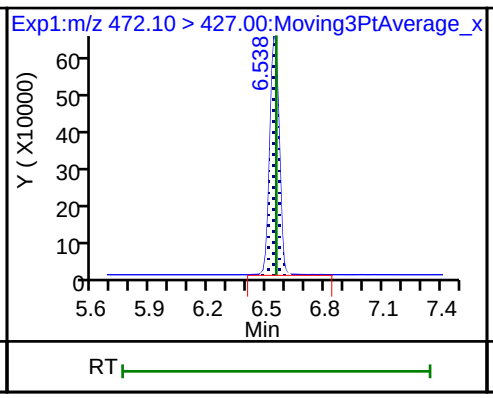
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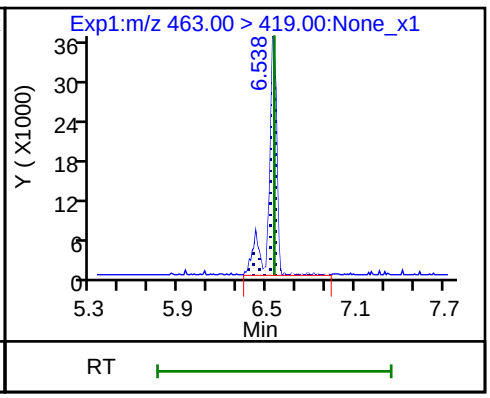
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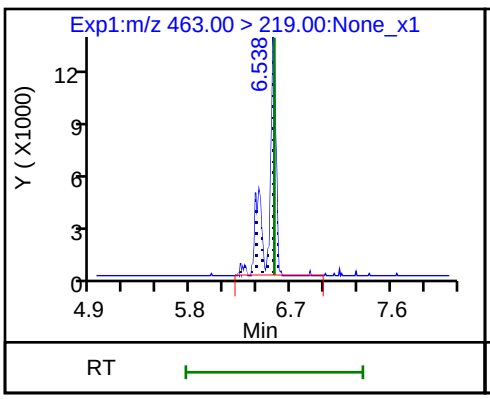
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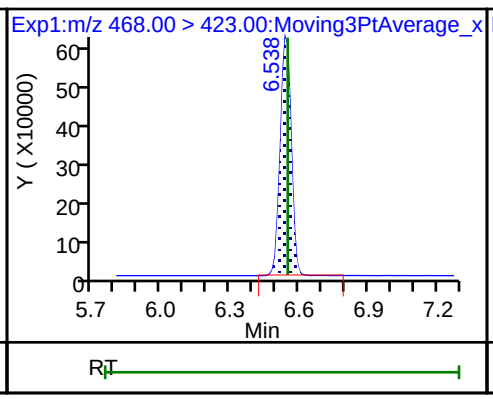
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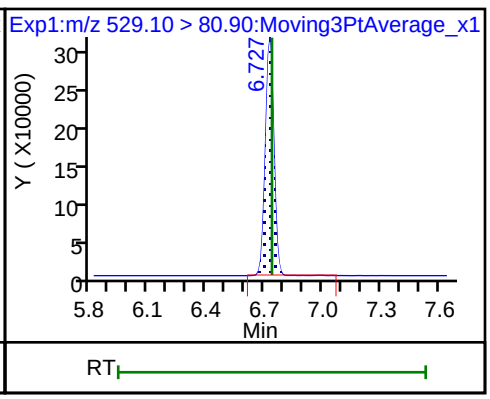
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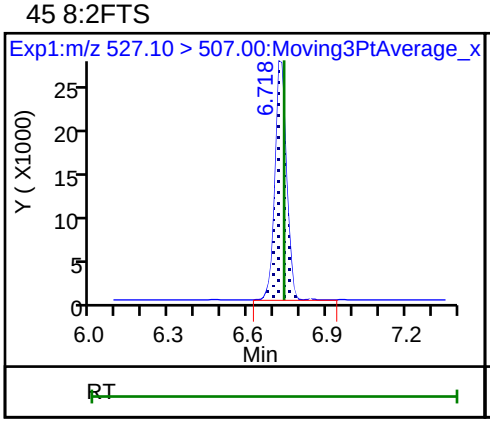
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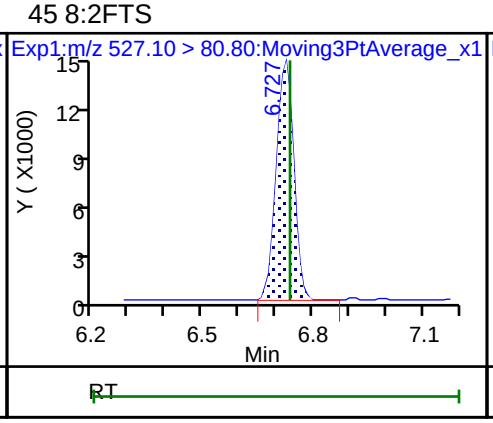
D 44 13C2-8:2FTS



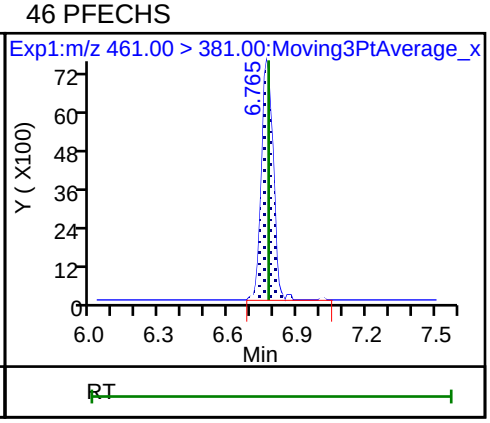
45 8:2FTS



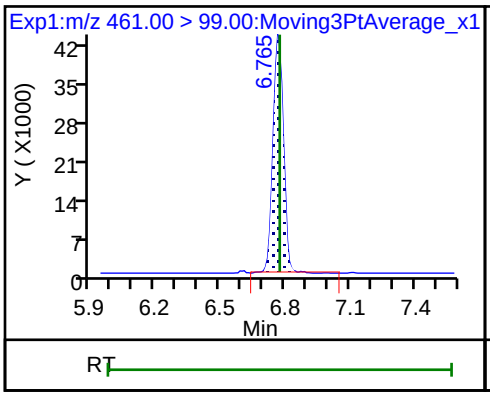
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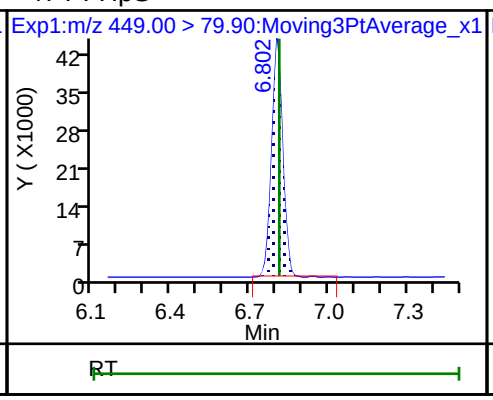
46 PFECHS



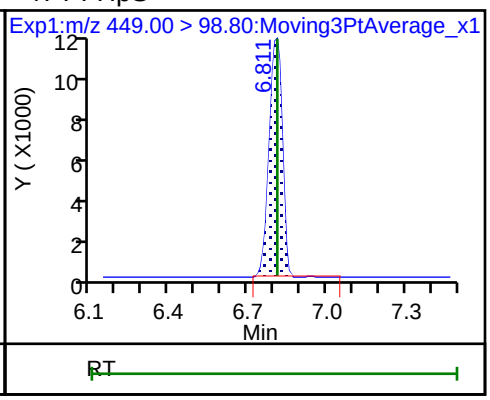
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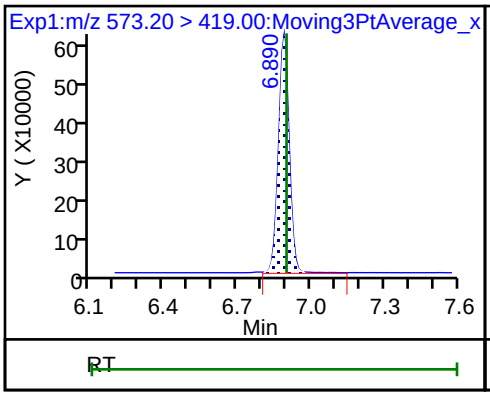
47 PFHpS



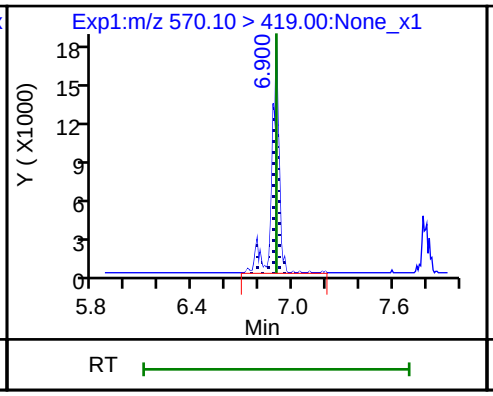
47 PFHpS



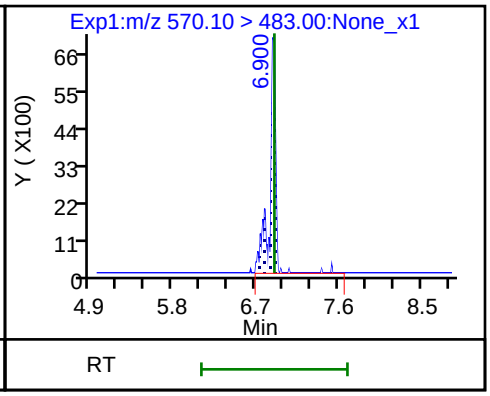
D 49 d3-NMeFOSAA



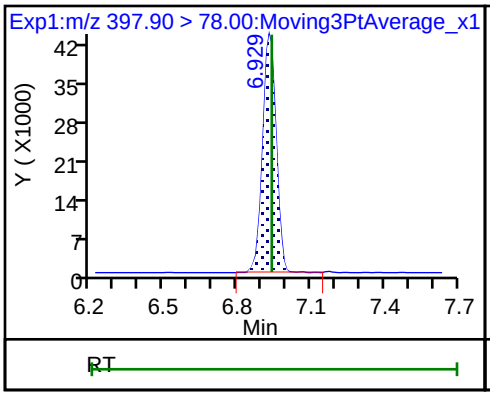
50 NMeFOSAA



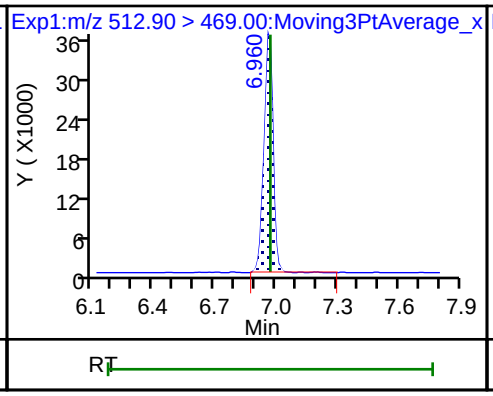
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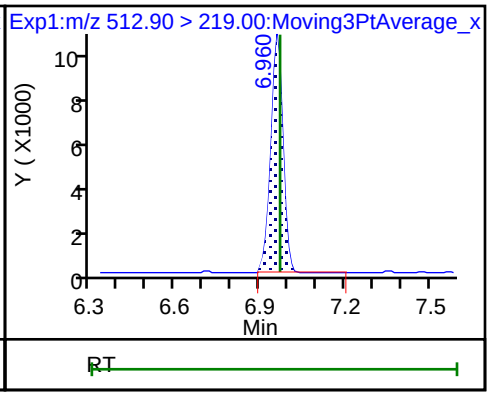
48 FHxSA



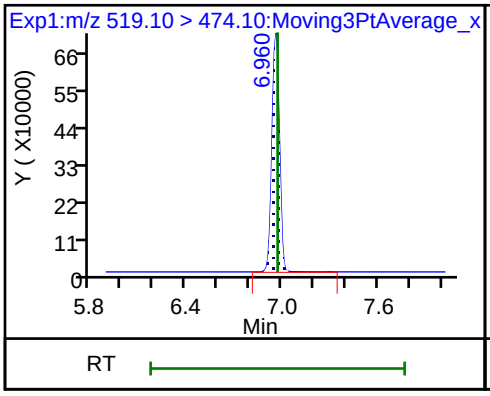
53 PFDA



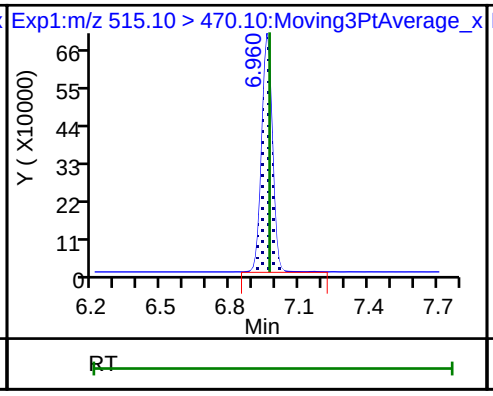
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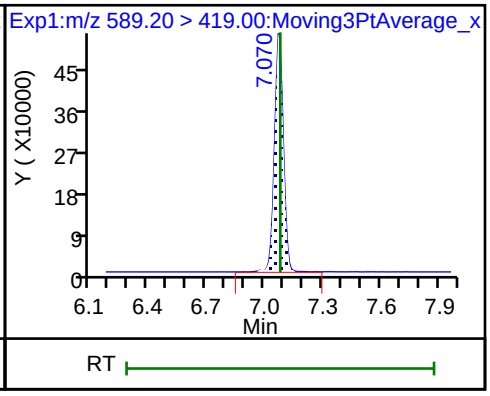
D 52 13C6 PFDA



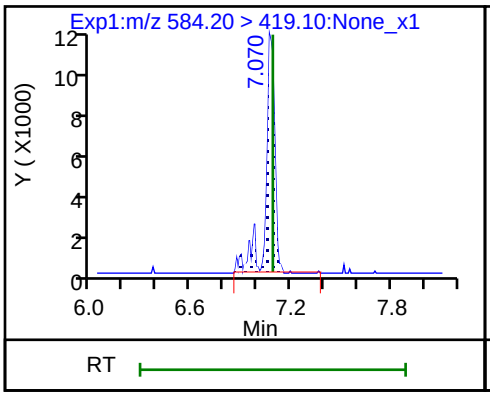
* 51 13C2 PFDA



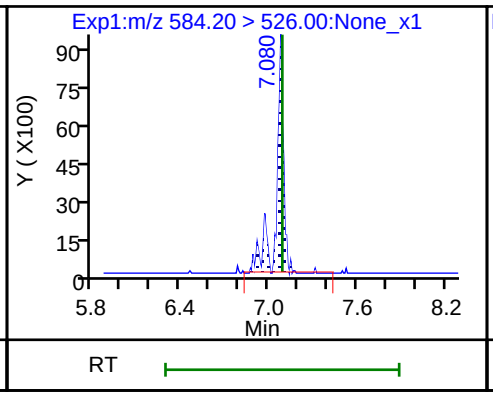
D 54 d5-NEtFOSAA



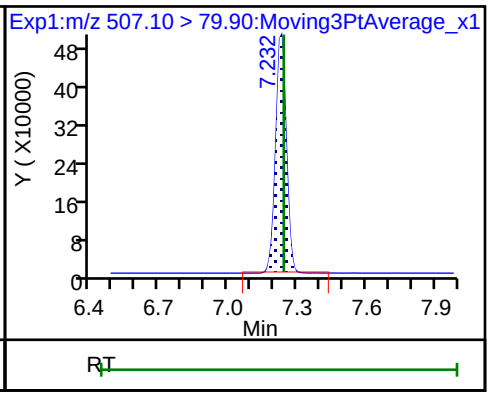
55 NEtFOSAA



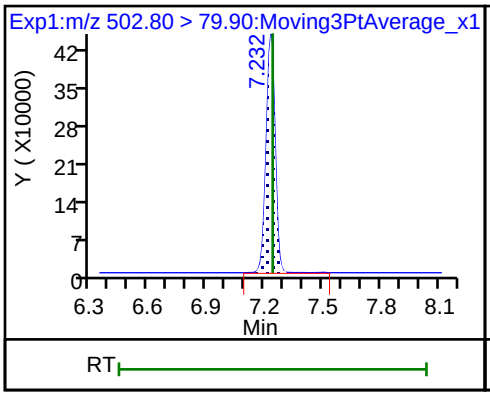
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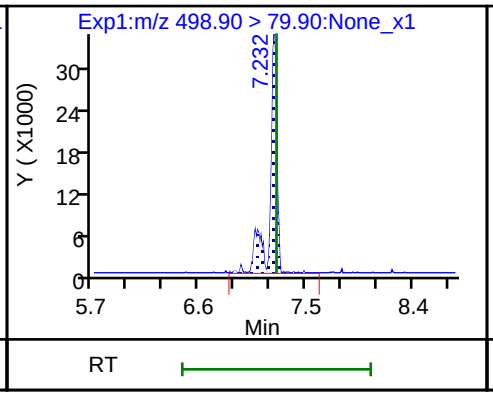
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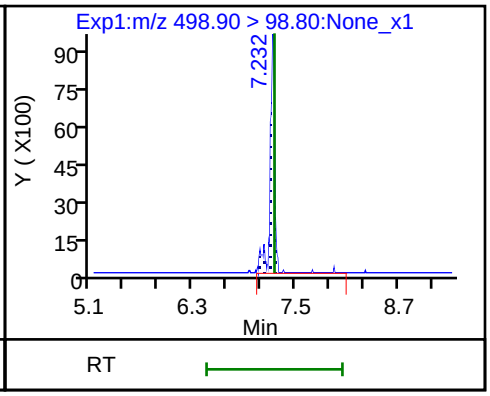
* 57 13C4 PFOS



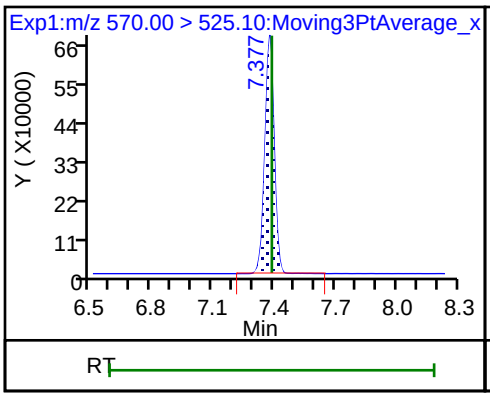
58 PFOS



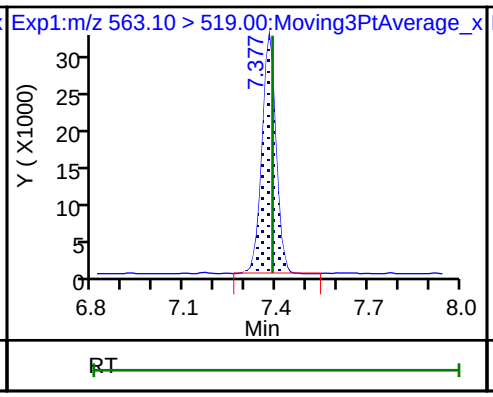
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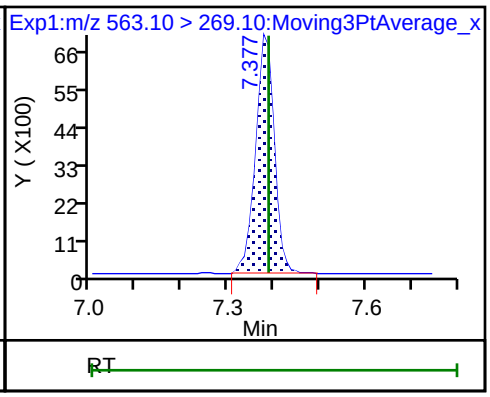
D 59 13C7 PFUnA



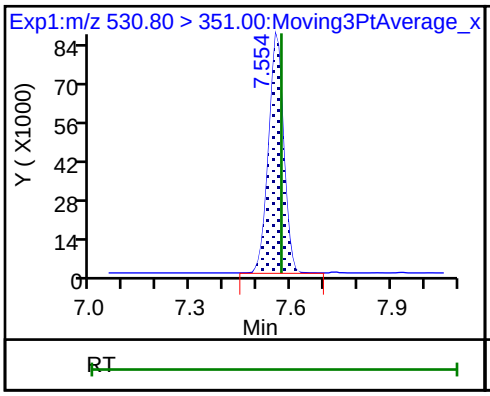
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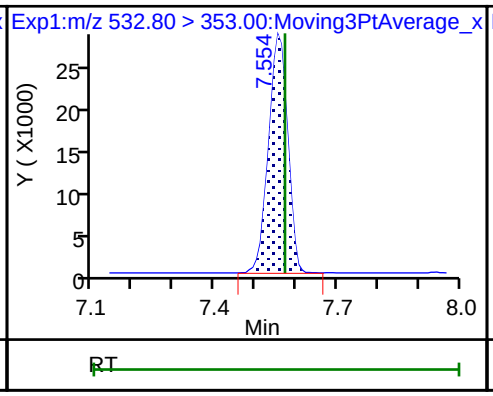
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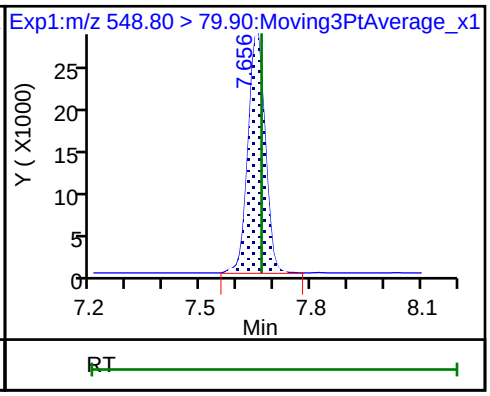
61 9ClFOS



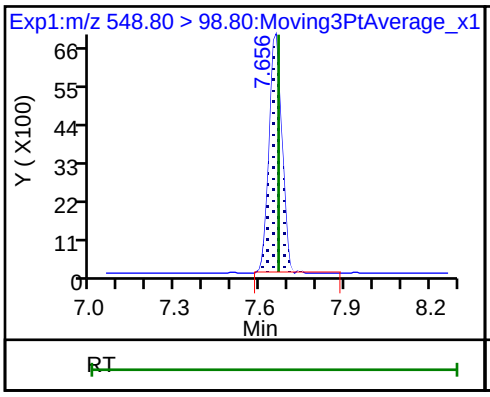
61 9ClFOS



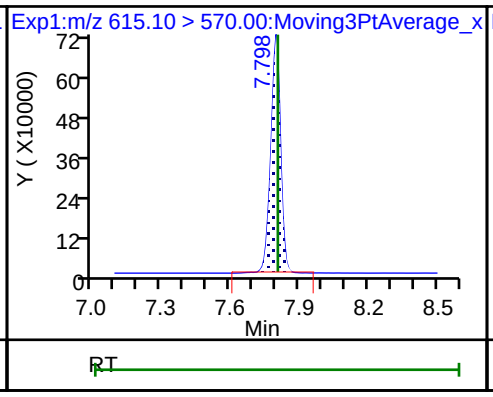
62 PFNS



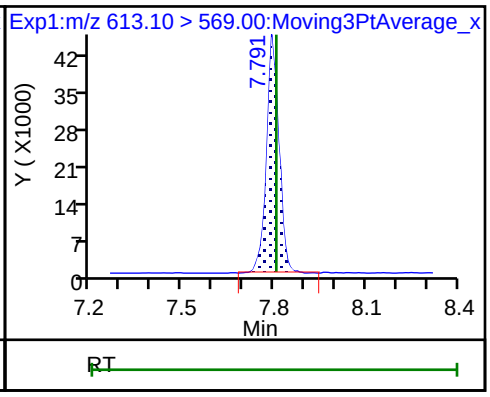
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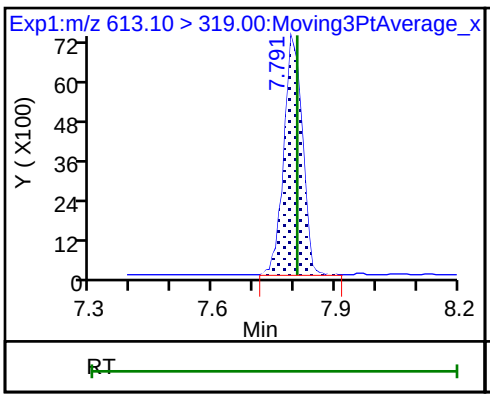
D 81 PFDoA



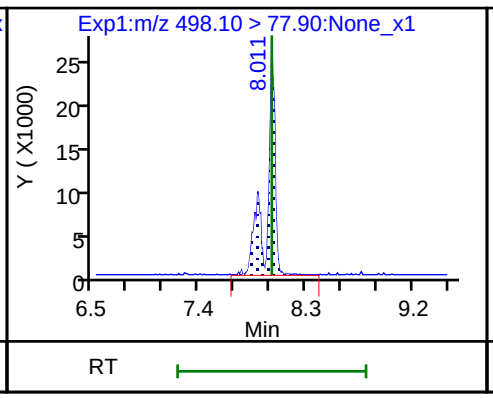
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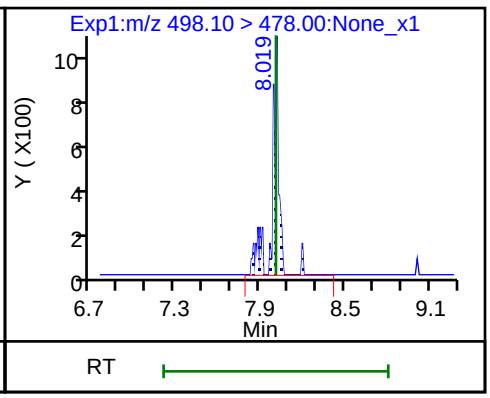
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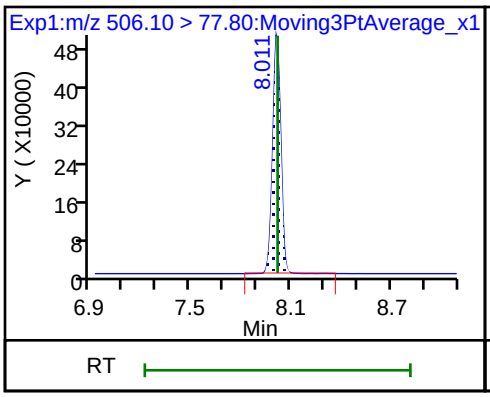
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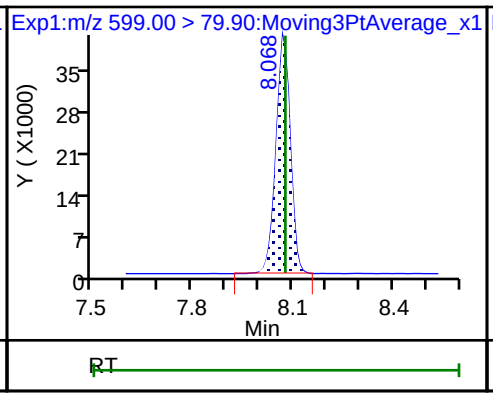
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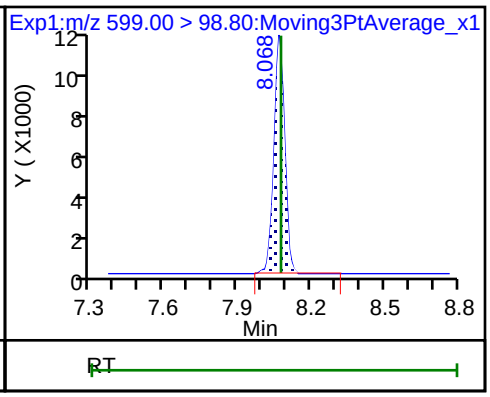
D 65 13C8 FOSA



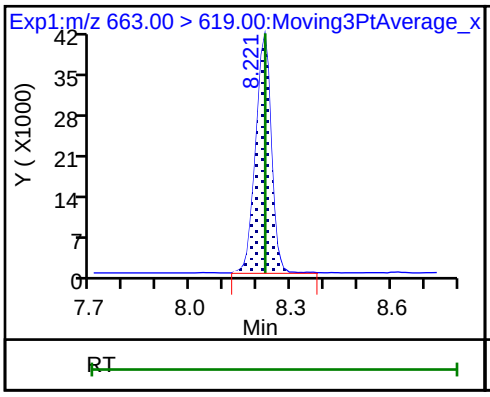
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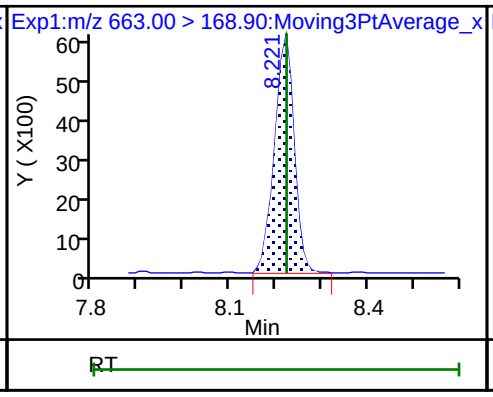
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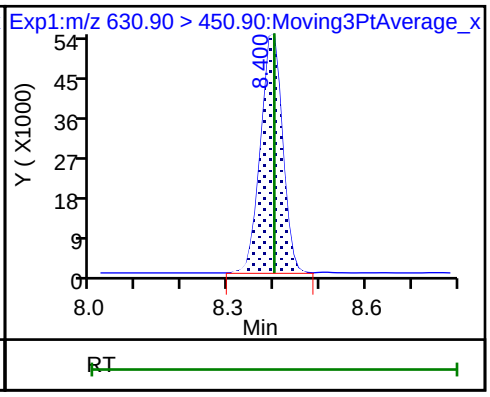
67 PFTrDA



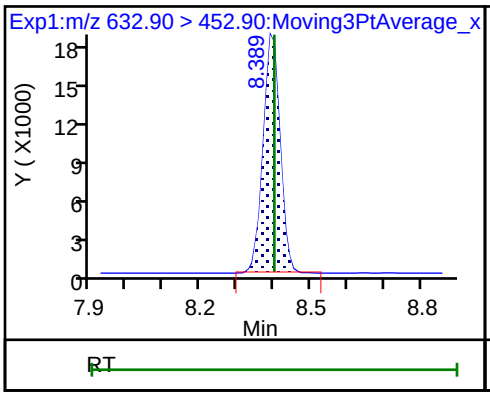
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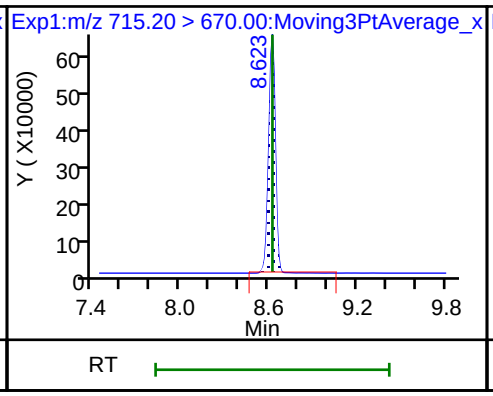
68 11ClFOS



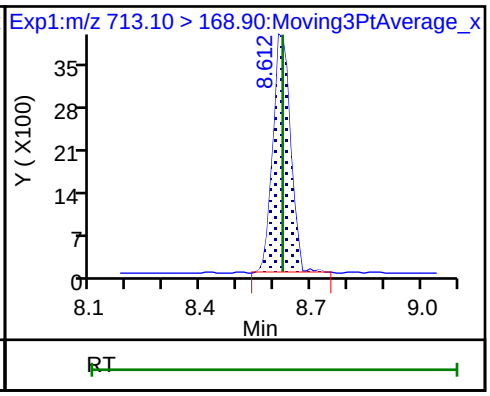
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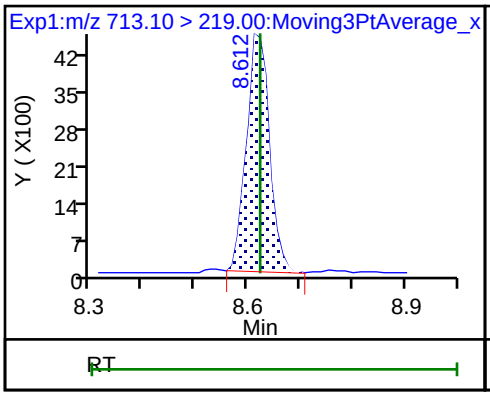
D 70 13C2 PFTeDA



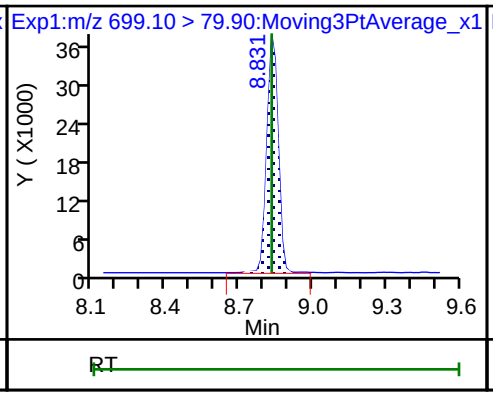
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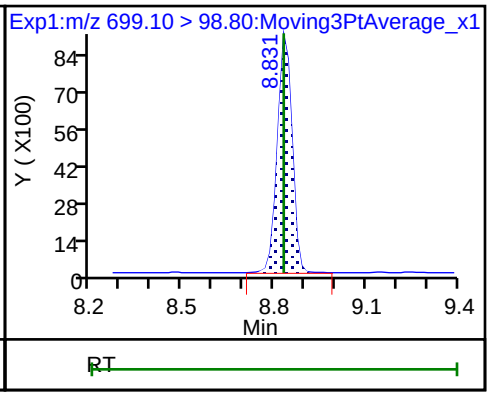
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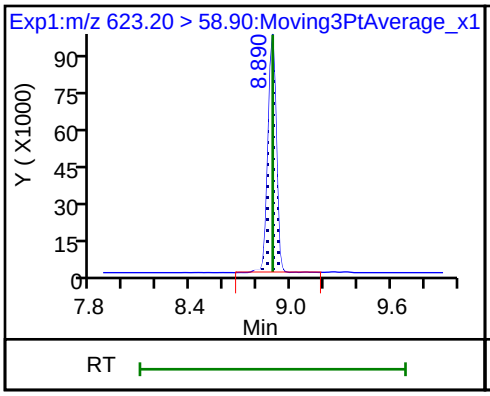
71 PFDoS



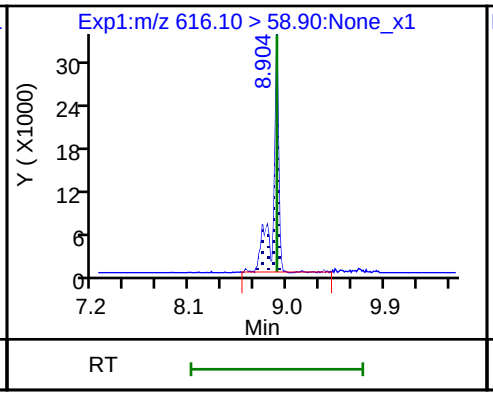
71 PFDoS



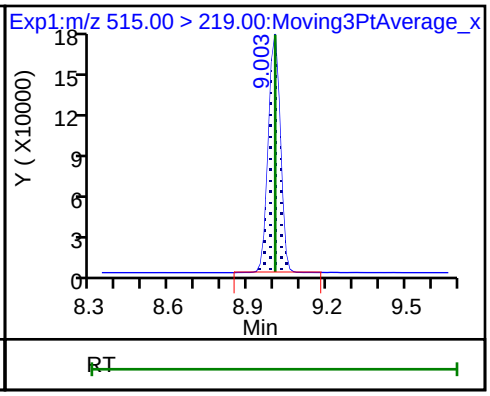
D 72 d7-N-Me-FOSE



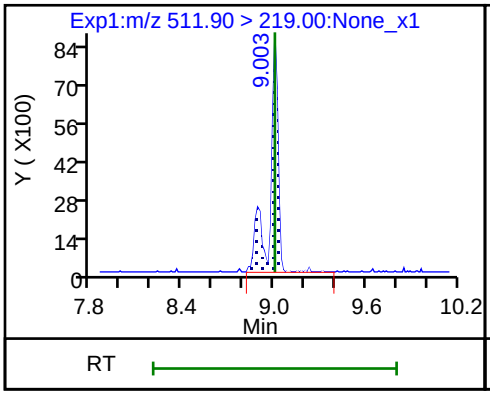
73 N-MeFOSE-M



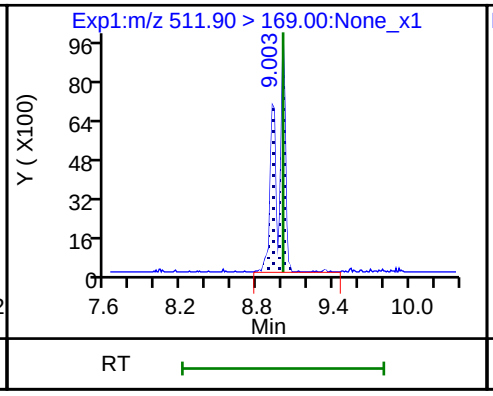
D 75 d3-NMePFOSA



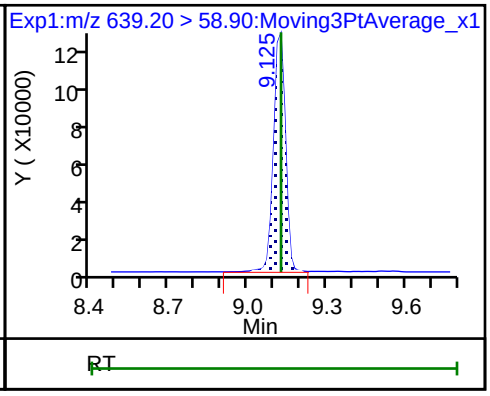
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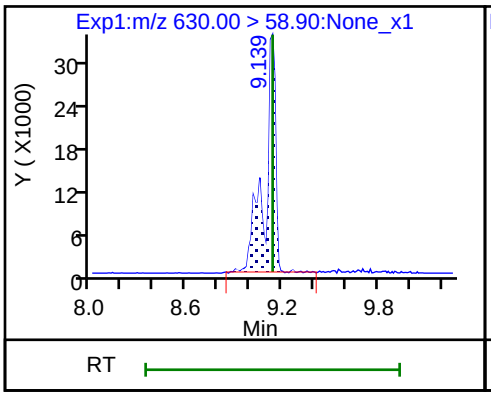
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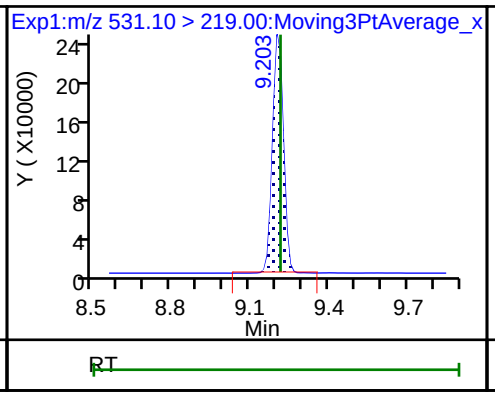
D 76 d9-N-EtFOSE



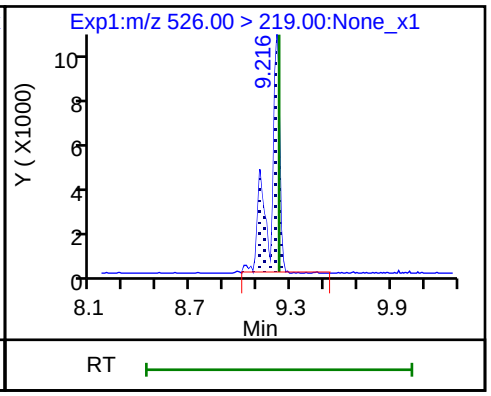
77 N-EtFOSE-M



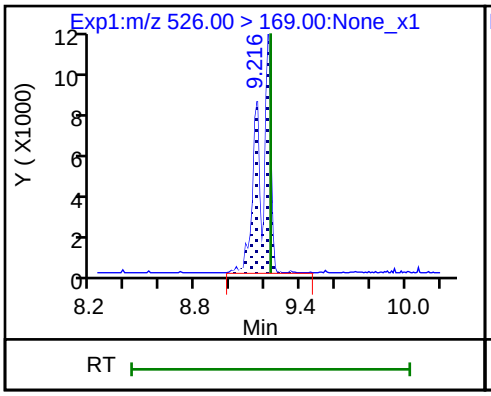
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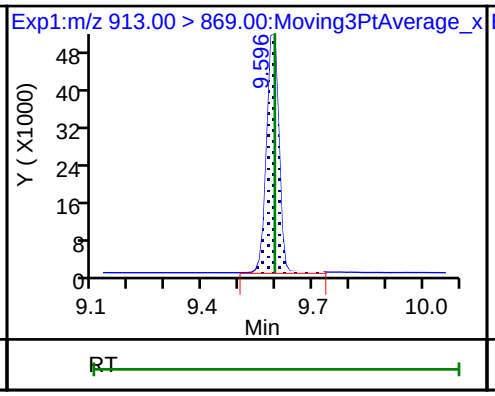
79 N-EtFOSA-M



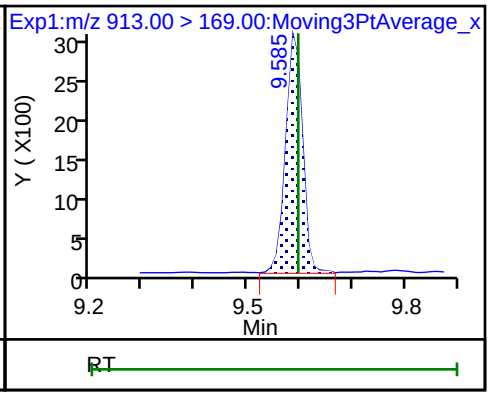
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-03.d
Lims ID: IC CAL 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 04-Feb-2026 10:06:33 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 3
Misc. Info.: Plate: 1 Rack: 1 410-0174606-003
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub12

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 12:59:51 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:29:57
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.035	2.027	0.008	1.004	1509784	2.40		96.0	4766	
D 1 13C3PFPrA										
166.00 > 121.00	2.027	2.035	-0.008	0.486	1368914	2.06		103	2406	
3 PFBA										
212.80 > 168.90	4.166	4.174	-0.008	0.998	815308	0.9625		96.2	6164	
D 4 13C4-PFBA										
216.80 > 171.90	4.173	4.180	-0.007	1.000	1844138	2.05		103	6232	
* 5 13C3PFBA										
216.00 > 172.00	4.173	4.180	-0.007		1751114	2.00			3975	
6 PFMPA										
229.00 > 84.90	4.503	4.504	-0.001	0.933	418325	0.4880		97.6	2374	
7 3:3 FTCA										
241.00 > 177.00	4.512	4.513	-0.001	0.934	40391	0.9792	Target=1.17	97.9	1215	
241.00 > 117.00	4.512	4.513	-0.001	0.934	34204		1.18(0.58-1.75)	97.9	468	
D 8 13C5 PFPeA										
268.30 > 223.00	4.829	4.830	-0.001	0.913	1674813	2.08		104	4929	
9 PFPA										
263.00 > 219.00	4.829	4.830	-0.001	1.000	510931	0.5112		102	1303	
10 PFMBA										
279.00 > 85.10	4.981	4.986	-0.005	1.032	610396	0.5379		108	5893	
12 4:2FTS										
327.10 > 307.00	5.097	5.101	-0.004	1.000	349853	0.8447	Target=1.69	90.1	2735	
327.10 > 80.90	5.097	5.101	-0.004	1.000	224929		1.56(0.85-2.54)	90.1	290	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.097	5.101	-0.004	0.801	1050107	5.08		108	5977	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.246	5.249	-0.003	0.992	125583	0.4910	Target=1.47	98.2	727	
295.00 > 84.90	5.246	5.249	-0.003	0.992	81114		1.55(0.74-2.21)	98.2	558	
D 15 13C5 PFHxA										
318.00 > 273.00	5.289	5.292	-0.003	1.000	2050169	2.10		105	4320	
* 16 13C2 PFHxA										
315.10 > 270.00	5.289	5.292	-0.003		4613610	5.00			5268	
17 PFHxA										
313.00 > 269.00	5.289	5.292	-0.003	1.000	436466	0.4928	Target=10.33	98.6	1459	
313.00 > 118.90	5.289	5.292	-0.003	1.000	34791		12.55(5.17-15.50)	98.6	323	
18 5:3 FTCA										
341.00 > 237.10	5.364	5.367	-0.003	1.014	334930	2.71	Target=0.77	108	1236	
341.00 > 217.00	5.364	5.367	-0.003	1.014	381339		0.88(0.38-1.15)	108	1457	
D 19 13C3 PFBS										
302.10 > 79.90	5.424	5.437	-0.013	0.852	2124156	1.92		103	8278	
20 PFBS										
298.70 > 79.90	5.424	5.437	-0.013	1.000	440635	0.4317	Target=3.28	97.2	3352	
298.70 > 98.80	5.424	5.437	-0.013	1.000	134387		3.28(1.64-4.92)	97.2	843	
23 HFPO-DA										
284.90 > 168.90	5.473	5.476	-0.003	1.000	273922	0.3675	Target=2.47	98.0	1123	
284.90 > 184.90	5.473	5.476	-0.003	1.000	122334		2.24(1.23-3.70)	98.0	817	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.473	5.476	-0.003	1.035	1391661	2.09		105	6309	
21 FBSA										
297.90 > 78.00	5.515	5.519	-0.004	1.017	433393	0.4785		95.7	1204	
26 PFEESA										
314.80 > 134.90	5.665	5.679	-0.014	1.071	1159863	0.4735	Target=12.38	106	3926	
314.80 > 82.90	5.665	5.679	-0.014	1.071	91917		12.62(6.19-18.57)	106	484	
27 PFHpA										
363.10 > 319.00	5.708	5.722	-0.014	1.000	413798	0.4724	Target=1.90	94.5	1362	
363.10 > 169.00	5.708	5.722	-0.014	1.000	217996		1.90(0.95-2.85)	94.5	964	
D 28 13C4 PFHpA										
367.10 > 322.00	5.708	5.722	-0.014	1.079	2086011	2.19		109	5410	
29 ADONA										
376.90 > 250.90	5.863	5.877	-0.014	1.071	1250028	0.5148	Target=2.21	109	3010	
376.90 > 84.80	5.863	5.877	-0.014	1.071	517416		2.42(1.10-3.31)	109	1910	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.915	5.920	-0.005	0.929	926687	5.30		111	5019	
30 PFPeS										
349.10 > 79.90	5.915	5.920	-0.005	0.929	518714	0.4686	Target=3.14	99.7	2576	
349.10 > 98.90	5.915	5.920	-0.005	0.929	174169		2.98(1.57-4.71)	99.7	874	
31 6:2FTS										
427.10 > 407.00	5.915	5.920	-0.005	1.000	350887	0.9624	Target=1.66	101	1730	
427.10 > 80.90	5.915	5.920	-0.005	1.000	213365		1.64(0.83-2.48)	101	436	
33 BTS										
280.00 > 147.00	6.089	6.093	-0.004	0.957	1036209	0.4977		102	6097	
* 34 13C4 PFOA										
417.10 > 372.00	6.119	6.133	-0.014		7064466	5.00			5517	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.119	6.133	-0.014	1.000	2858973	1.99		99.3	4239	
36 PFOA										
413.00 > 369.00	6.119	6.133	-0.014	1.000	407811	0.4602	Target=1.85	92.0	459	
413.00 > 169.00	6.119	6.133	-0.014	1.000	239311		1.70(0.93-2.78)	92.0	224	
37 7:3 FTCA										
441.00 > 316.90	6.210	6.224	-0.014	1.174	157323	2.65	Target=0.30	106	1202	
441.00 > 336.90	6.210	6.224	-0.014	1.174	503037		0.31(0.15-0.45)	106	1448	
40 PFHxS										
398.70 > 79.90	6.364	6.369	-0.005	1.000	313981	0.4247	Target=3.16	93.1	659	
398.70 > 98.90	6.375	6.369	0.005	1.002	97800		3.21(1.58-4.75)	93.1	241	
D 38 13C3 PFHxS										
402.10 > 79.90	6.364	6.369	-0.005	1.000	1814092	1.93		102	5367	
* 39 18O2 PFHxS										
403.00 > 83.90	6.364	6.369	-0.005		1651477	1.90			4927	
* 42 13C5 PFNA										
468.00 > 423.00	6.533	6.549	-0.016		2060101	2.00			5844	
D 41 13C9 PFNA										
472.10 > 427.00	6.533	6.549	-0.016	1.000	2027864	1.90		95.1	4324	
43 PFNA										
463.00 > 419.00	6.544	6.549	-0.005	1.002	427704	0.4857	Target=2.07	97.1	568	
463.00 > 219.00	6.544	6.549	-0.005	1.002	205390		2.08(1.03-3.11)	97.1	306	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.722	6.737	-0.015	1.056	899791	4.99		104	2330	
45 8:2FTS										
527.10 > 507.00	6.722	6.737	-0.015	1.000	317546	0.9747	Target=1.94	102	865	
527.10 > 80.80	6.722	6.737	-0.015	1.000	157806		2.01(0.97-2.91)	102	634	
46 PFECHS										
461.00 > 381.00	6.769	6.775	-0.006	1.064	90834	0.4224	Target=0.18	91.4	423	
461.00 > 99.00	6.769	6.775	-0.006	1.064	554479		0.16(0.09-0.26)	91.4	4310	
47 PFHpS										
449.00 > 79.90	6.797	6.811	-0.014	0.940	505845	0.4942	Target=3.74	104	1791	
449.00 > 98.80	6.797	6.811	-0.014	0.940	128985		3.92(1.87-5.60)	104	687	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.886	6.900	-0.014	0.953	1956894	5.08		102	4278	
50 NMeFOSAA										
570.10 > 419.00	6.895	6.900	-0.005	1.001	183731	0.4821	Target=1.81	96.4	39.3	
570.10 > 483.00	6.895	6.900	-0.005	1.001	103590		1.77(0.91-2.72)	96.4	213	
48 FHxSA										
397.90 > 78.00	6.934	6.939	-0.005	1.090	601373	0.4821		96.4	2190	
53 PFDA										
512.90 > 469.00	6.955	6.970	-0.015	1.000	385003	0.4734	Target=3.70	94.7	1323	
512.90 > 219.00	6.965	6.970	-0.005	1.001	105259		3.66(1.85-5.54)	94.7	644	
D 52 13C6 PFDA										
519.10 > 474.10	6.955	6.970	-0.015	1.000	2213198	2.04		102	5745	
* 51 13C2 PFDA										
515.10 > 470.10	6.955	6.970	-0.015		2206606	2.00			3563	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.076	7.081	-0.004	0.979	1677455	5.05		101	3992	
55 NEtFOSAA										
584.20 > 419.10	7.076	7.090	-0.014	1.000	137129	0.4658	Target=1.29	93.2	383	
584.20 > 526.00	7.076	7.090	-0.014	1.000	107742		1.27(0.65-1.94)	93.2	230	
D 56 13C8 PFOS										
507.10 > 79.90	7.228	7.241	-0.013	1.000	1565652	1.88		98.4	6759	
* 57 13C4 PFOS										
502.80 > 79.90	7.228	7.241	-0.013		1430225	1.92			5195	
58 PFOS										
498.90 > 79.90	7.228	7.251	-0.023	1.000	509026	0.4600	Target=4.49	98.9	956	
498.90 > 98.80	7.228	7.251	-0.023	1.000	110317		4.61(2.24-6.73)	98.9	223	
D 59 13C7 PFUnA										
570.00 > 525.10	7.372	7.387	-0.015	1.060	2310642	2.13		107	4224	
60 PFUnA										
563.10 > 519.00	7.382	7.387	-0.005	1.001	384947	0.4748	Target=5.00	95.0	2536	
563.10 > 269.10	7.382	7.387	-0.005	1.001	75644		5.09(2.50-7.49)	95.0	356	
61 9ClFOS										
530.80 > 351.00	7.558	7.571	-0.013	1.046	1032917	0.4592	Target=3.04	98.3	4496	
532.80 > 353.00	7.558	7.571	-0.013	1.046	337726		3.06(1.52-4.56)	98.3	2096	
62 PFNS										
548.80 > 79.90	7.652	7.665	-0.013	1.059	323500	0.4628	Target=3.71	96.2	2874	
548.80 > 98.80	7.652	7.665	-0.013	1.059	91400		3.54(1.85-5.56)	96.2	626	
D 81 PFDoA										
615.10 > 570.00	7.795	7.806	-0.011	1.121	2202802	2.11		106	3395	
63 PFDoA										
613.10 > 569.00	7.795	7.806	-0.011		500394	0.4866	Target=5.74	97.3	2299	
613.10 > 319.00	7.795	7.806	-0.011		81509		6.14(2.87-8.61)	97.3	868	
64 PFOSA										M
498.10 > 77.90	8.016	8.011	0.005	1.000	450601	0.4825	Target=41.30	96.5	972	
498.10 > 478.00	8.016	8.011	0.005	1.000	10713		42.06(20.65-61.94)	96.5	40.7	M
D 65 13C8 FOSA										
506.10 > 77.80	8.016	8.019	-0.003	1.109	1690468	1.97		98.6	5403	
66 PFDS										
599.00 > 79.90	8.066	8.077	-0.011	1.116	440335	0.4728	Target=3.87	98.1	3687	
599.00 > 98.80	8.066	8.077	-0.011	1.116	115442		3.81(1.93-5.80)	98.1	1345	
67 PFTrDA										
663.00 > 619.00	8.208	8.222	-0.014	0.953	435207	0.4395	Target=6.63	87.9	2480	
663.00 > 168.90	8.208	8.222	-0.014	0.953	68120		6.39(3.32-9.95)	87.9	471	
68 11ClFOS										
630.90 > 450.90	8.387	8.400	-0.014	1.160	720402	0.4648	Target=3.04	98.5	4494	
632.90 > 452.90	8.387	8.400	-0.014	1.160	228105		3.16(1.52-4.56)	98.5	3601	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.610	8.623	-0.013	1.238	2113678	2.26		113	4773	
69 PFTeDA										
713.10 > 168.90	8.621	8.623	-0.002	1.001	49683	0.4193	Target=1.02	83.9	418	
713.10 > 219.00	8.610	8.623	-0.013	1.000	54677		0.91(0.51-1.53)	83.9	499	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.829	8.831	-0.002	1.222	451477	0.4930	Target=4.07	102	2663	
699.10 > 98.80	8.829	8.831	-0.002	1.222	113554		3.98(2.04-6.11)	102	1461	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.888	8.890	-0.002	1.230	373773	5.43		109	666	
73 N-MeFOSE-M										
616.10 > 58.90	8.903	8.905	-0.001	1.002	436165	2.28		91.1	502	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.988	9.003	-0.015	1.243	516063	1.90		95.0	2902	
74 NMeFOSA										
511.90 > 219.00	9.002	9.003	-0.001	1.002	119333	0.4874	Target=0.72	97.5	534	
511.90 > 169.00	9.002	9.003	-0.001	1.002	168107		0.71(0.36-1.07)	97.5	521	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.111	9.125	-0.014	1.260	372416	5.02		100	768	
77 N-EtFOSE-M										
630.00 > 58.90	9.137	9.139	-0.002	1.003	595220	2.42		96.8	923	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.202	9.216	-0.014	1.273	683694	1.96		97.9	2050	
79 N-EtFOSA-M										
526.00 > 219.00	9.202	9.228	-0.026	1.000	138886	0.4673	Target=0.87	93.5	745	
526.00 > 169.00	9.214	9.228	-0.014	1.001	164778		0.84(0.43-1.30)	93.5	696	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.574	9.596	-0.022	1.112	415264	0.4263	Target=17.07	85.3	12551	
913.00 > 169.00	9.574	9.596	-0.022	1.112	23648		17.56(8.53-25.60)	85.3	1745	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_CAL3_00036 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 12:59:55 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-03.d

Injection Date: 04-Feb-2026 10:06:33 Instrument ID: 30577

Lims ID: IC CAL 3

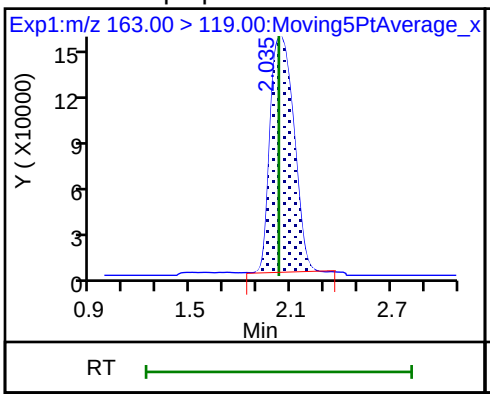
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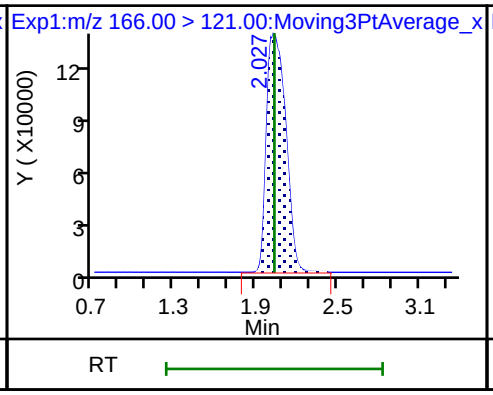
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Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

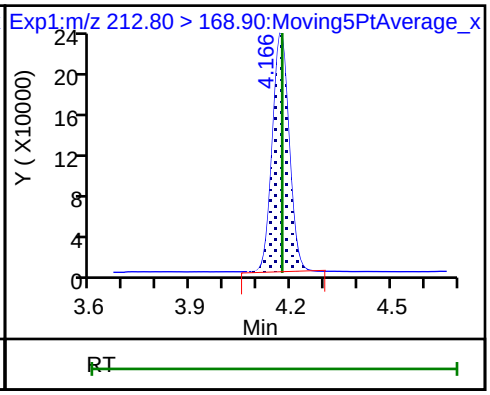
2 Perfluoropropionic acid



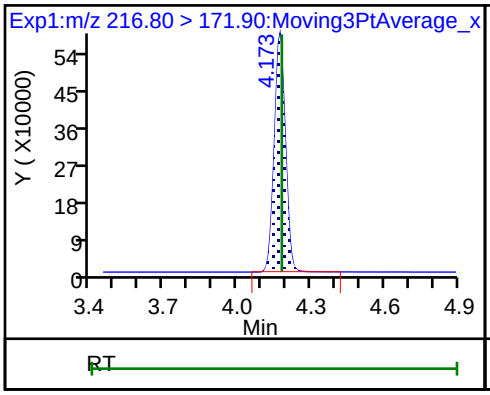
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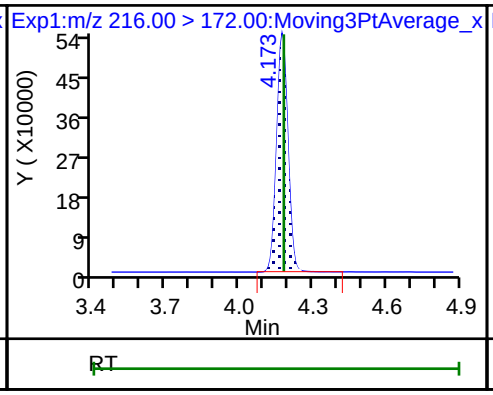
3 PFBA



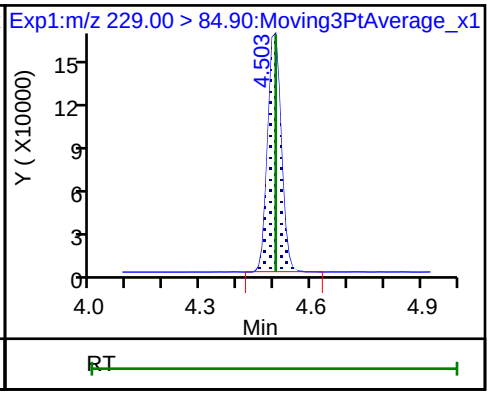
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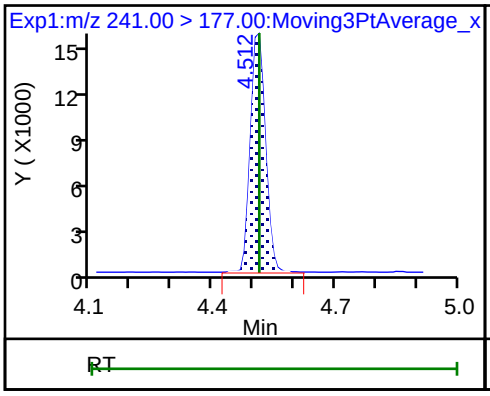
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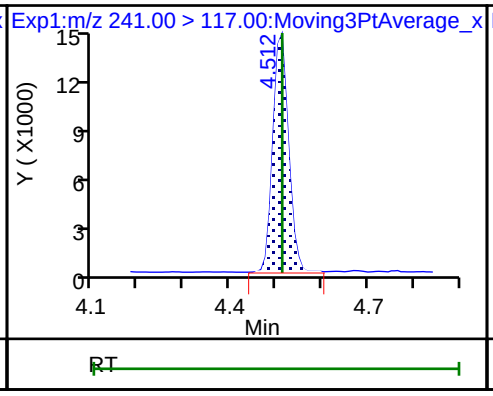
6 PFMPA



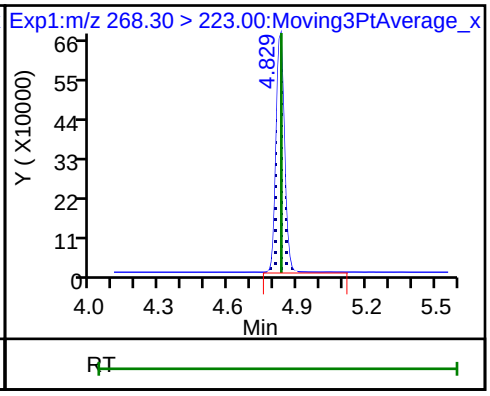
7 3:3 FTCA



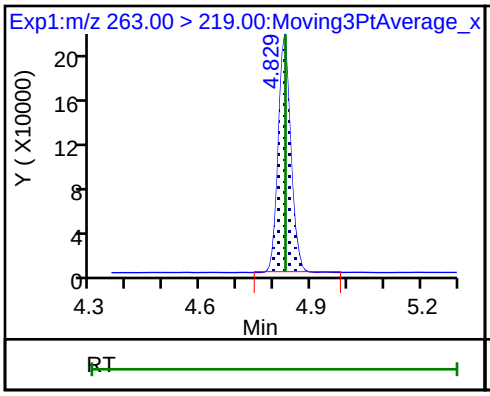
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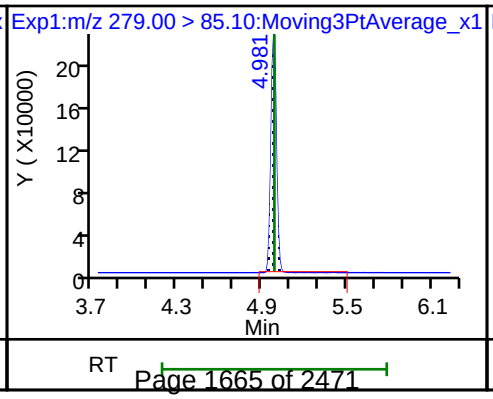
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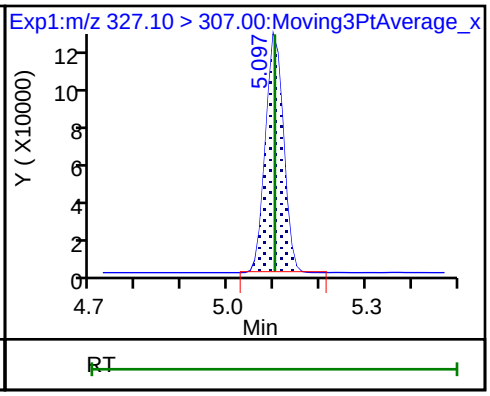
9 PFPA



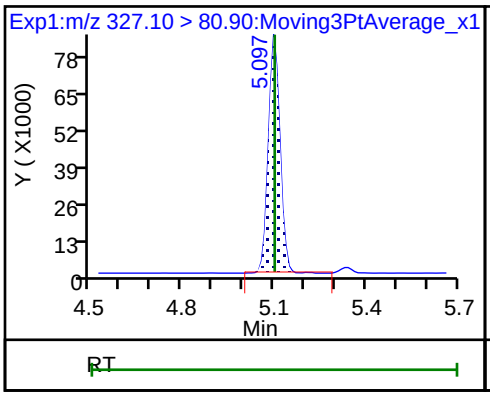
10 PFMBA



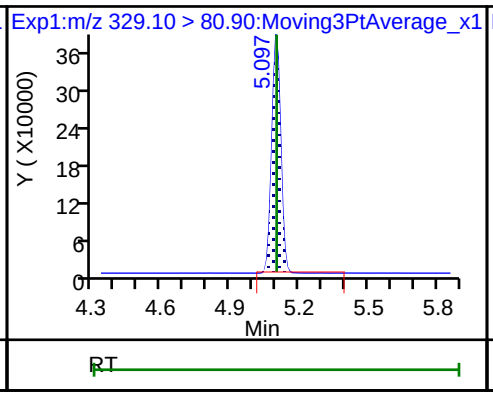
12 4:2FTS



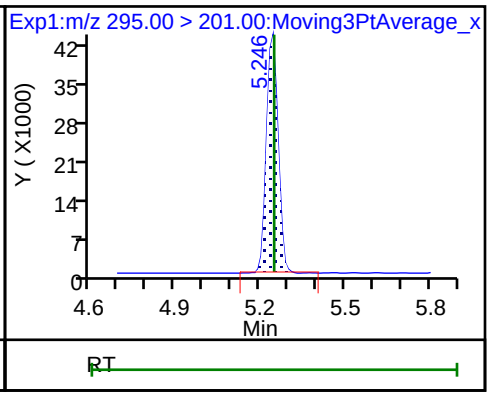
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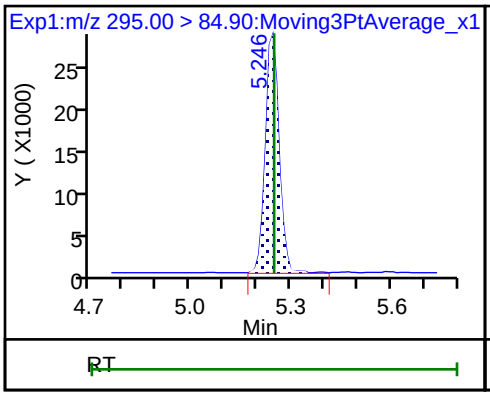
D 11 13C2-4:2FTS



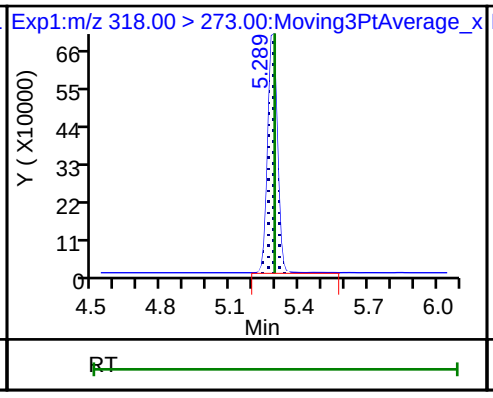
14 NFDHA



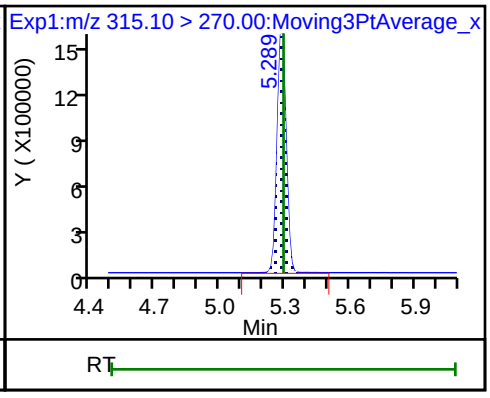
14 NFDHA



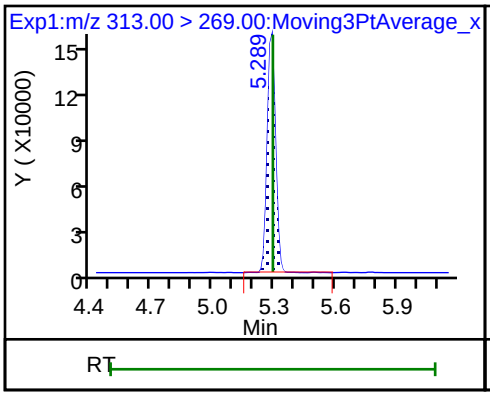
D 15 13C5 PFHxA



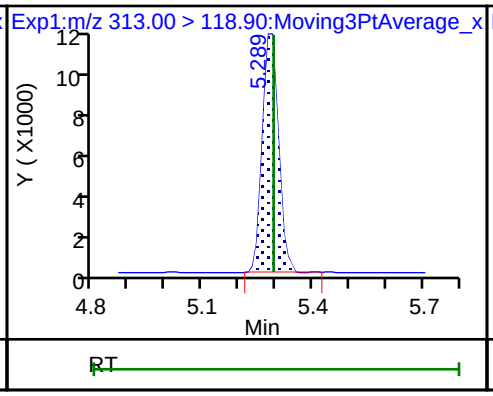
* 16 13C2 PFHxA



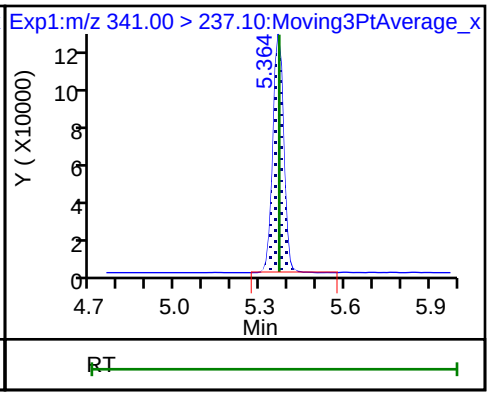
17 PFHxA



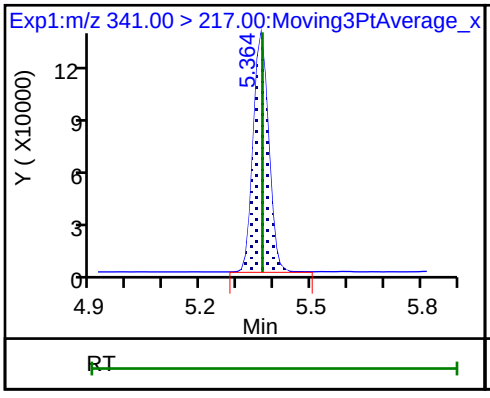
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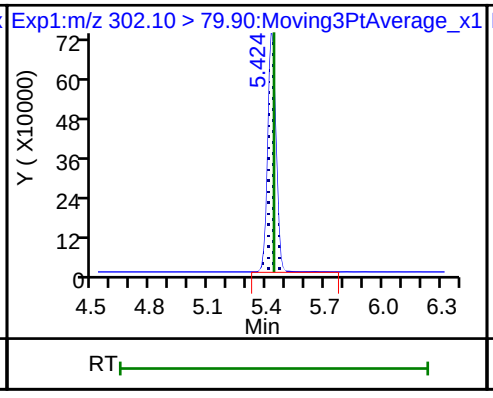
18 5:3 FTCA



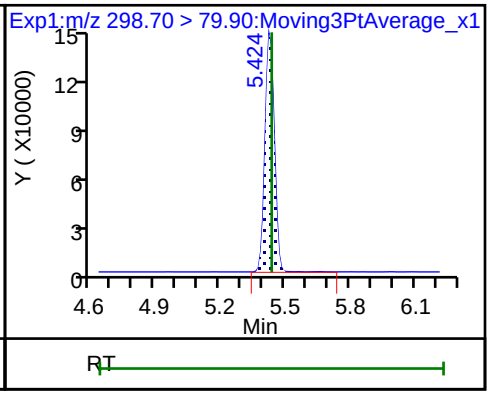
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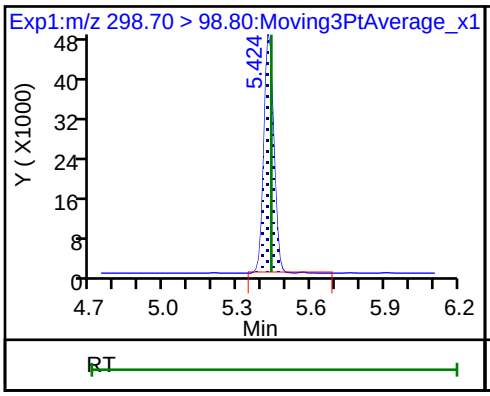
D 19 13C3 PFBS



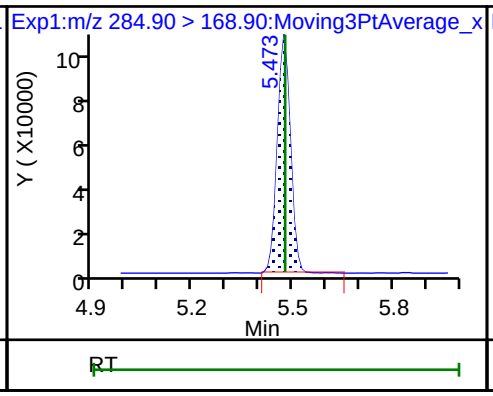
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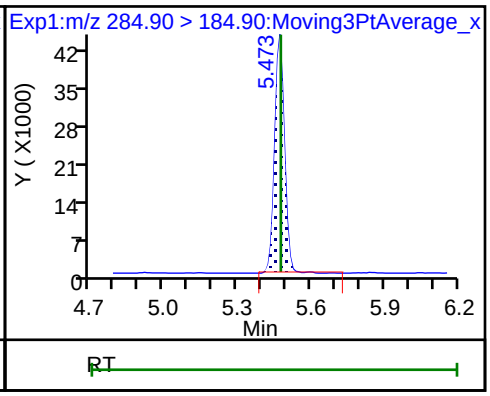
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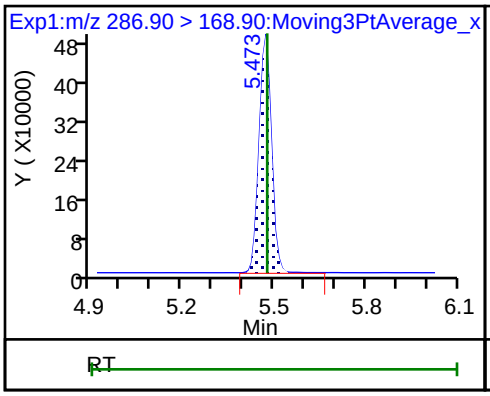
23 HFPO-DA



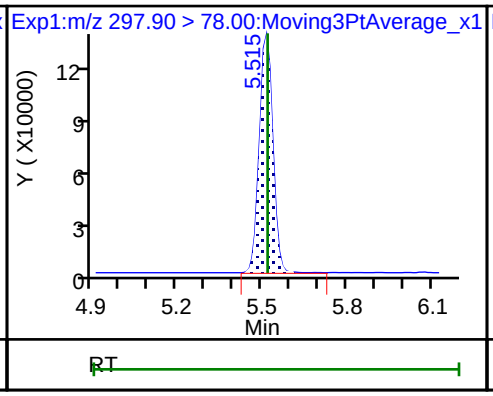
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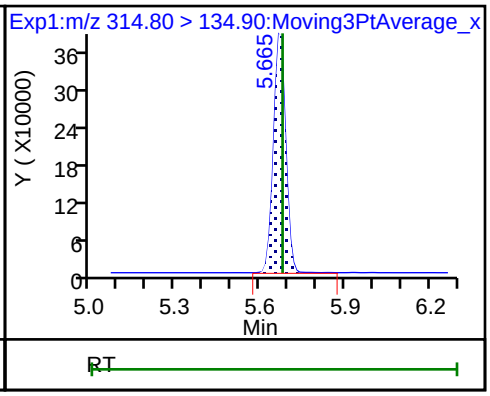
D 22 13C3 HFPO-DA



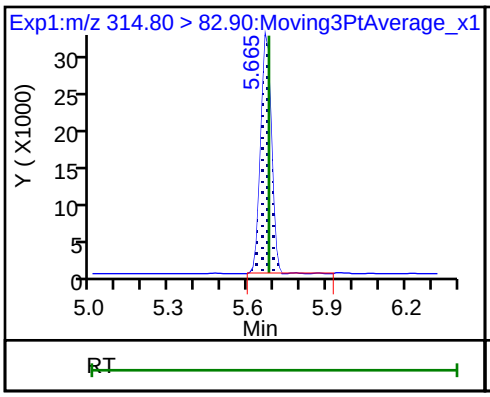
21 FBSA



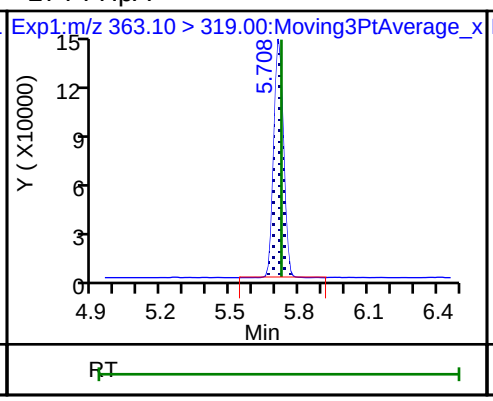
26 PFEESA



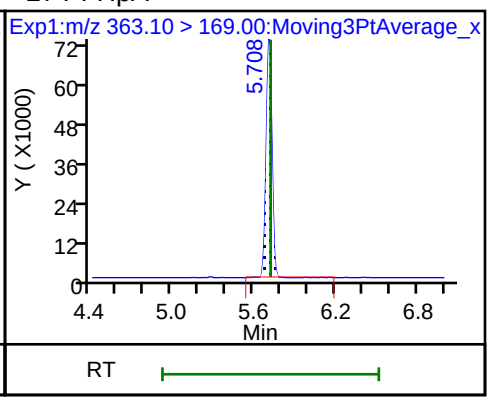
26 PFEESA



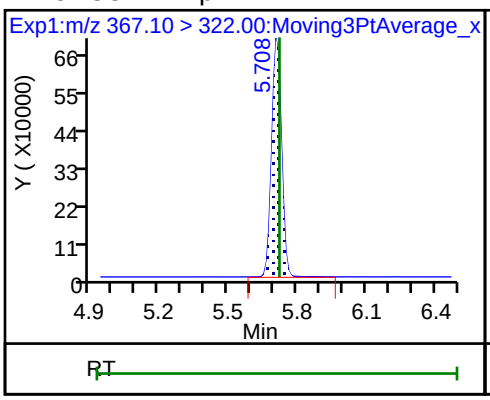
27 PFHpA



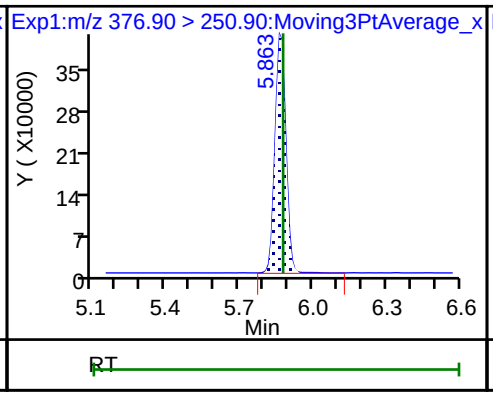
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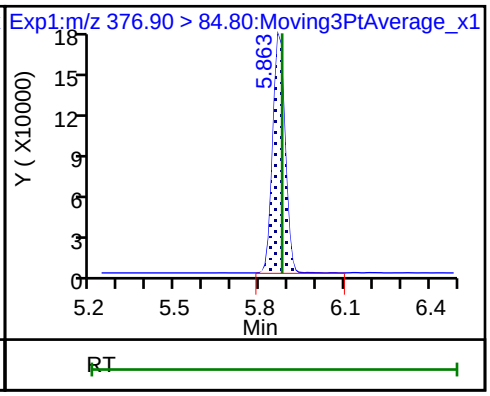
D 28 13C4 PFHpA



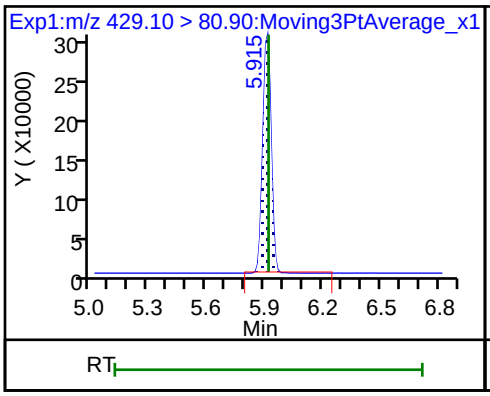
29 ADONA



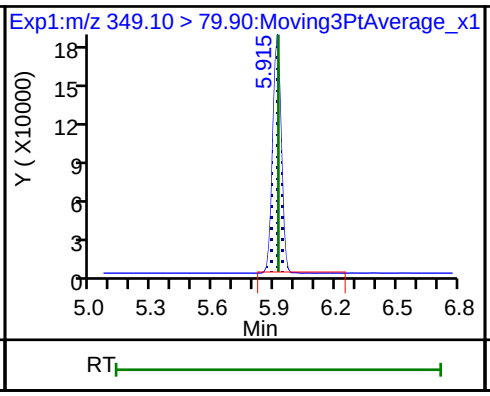
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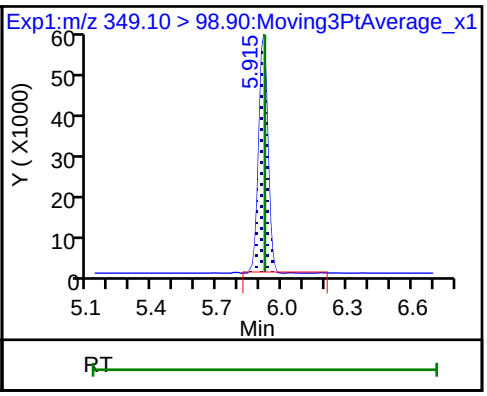
D 32 13C2-6:2FTS



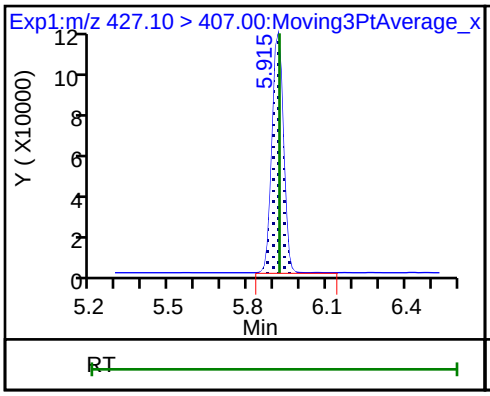
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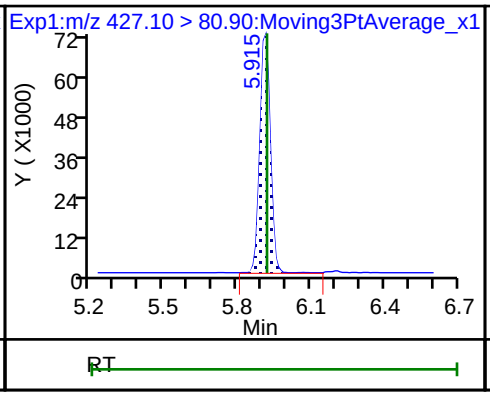
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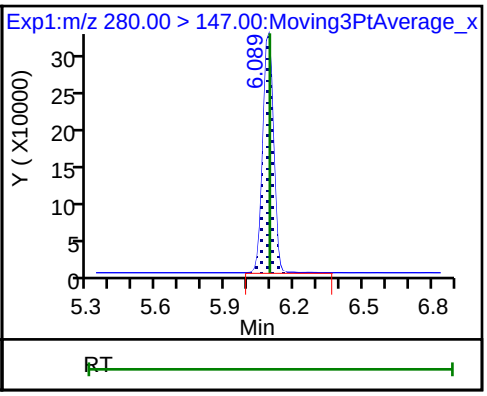
31 6:2FTS



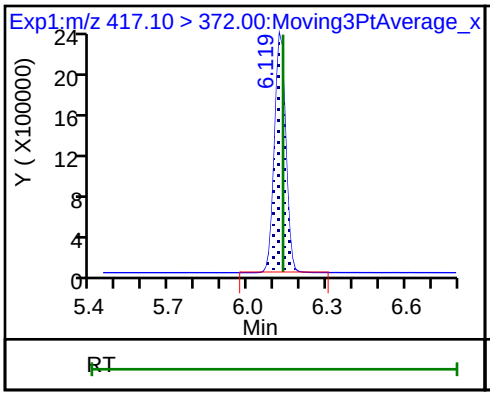
31 6:2FTS



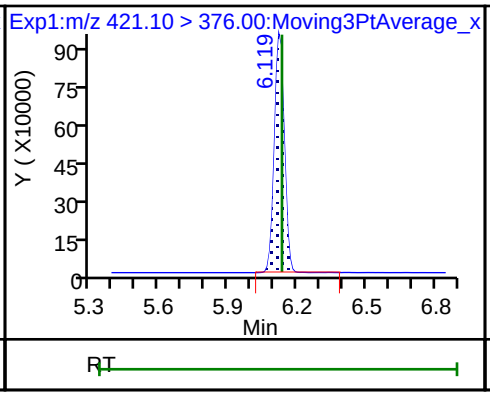
33 BTS



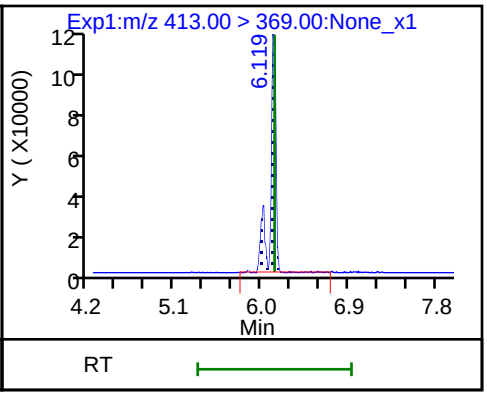
* 34 13C4 PFOA



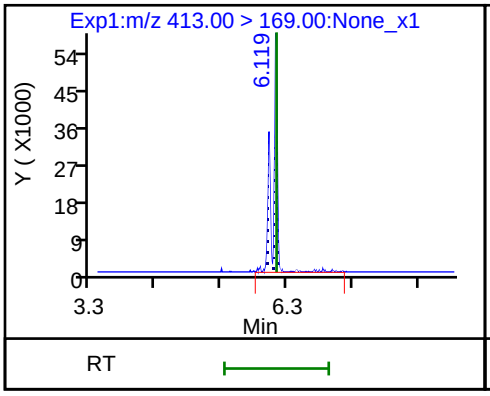
D 35 13C8 PFOA



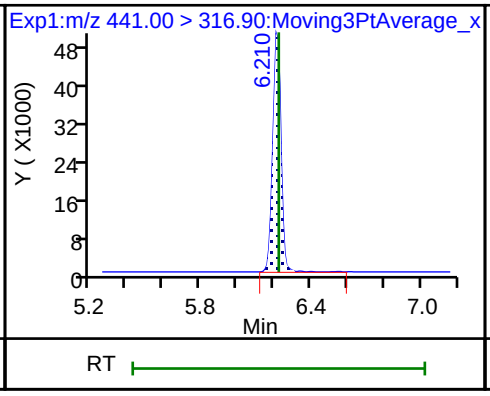
36 PFOA



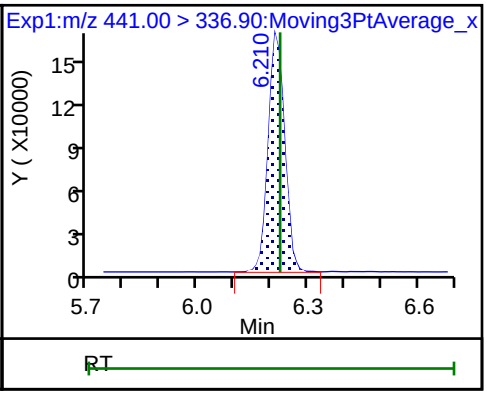
36 PFOA



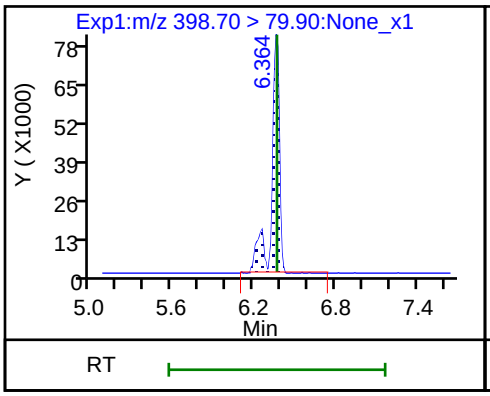
37 7:3 FTCA



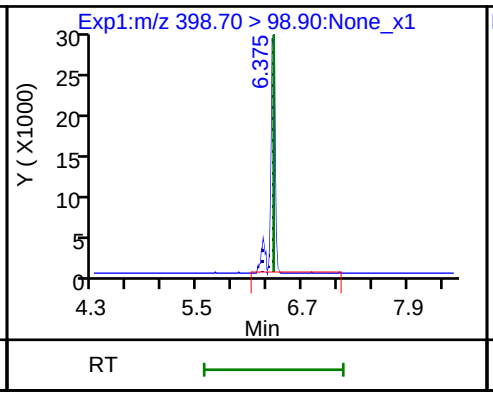
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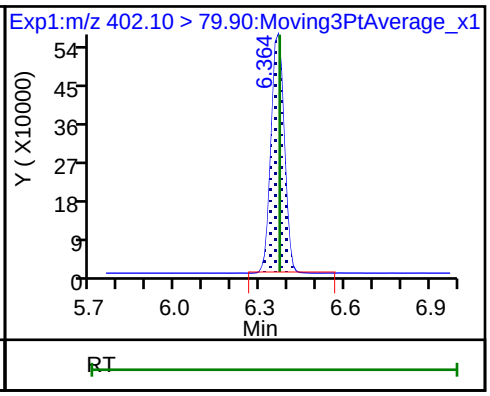
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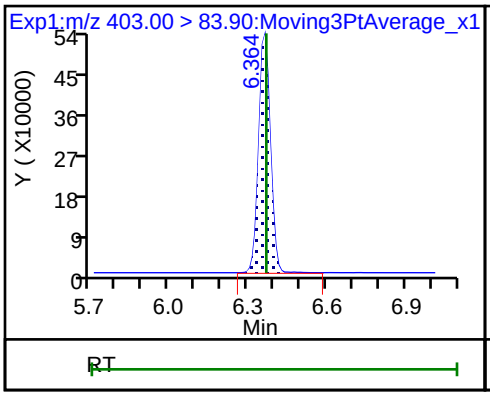
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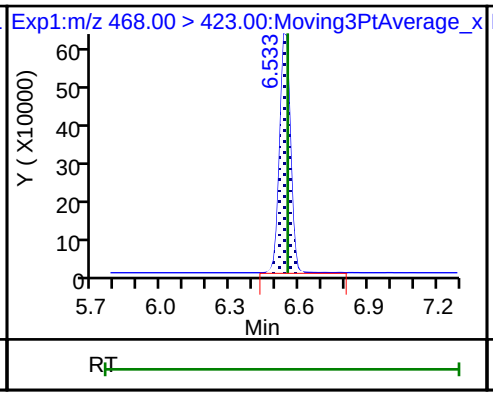
D 38 13C3 PFHxS



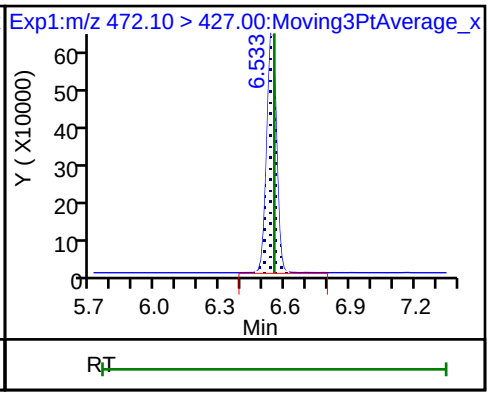
* 39 18O2 PFHxS



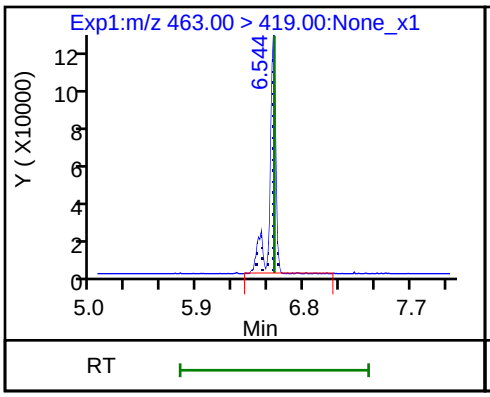
* 42 13C5 PFNA



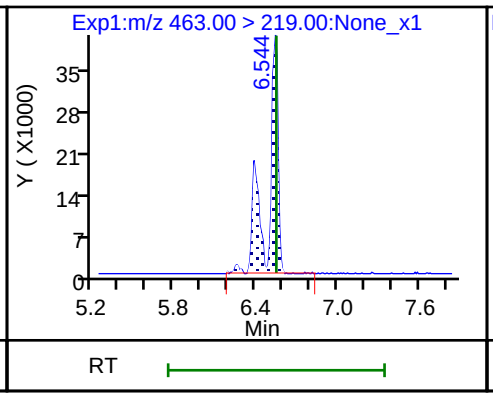
D 41 13C9 PFNA



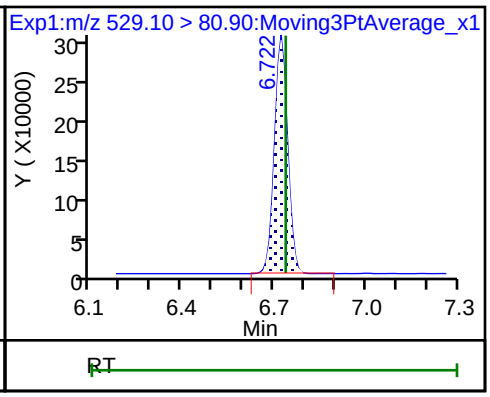
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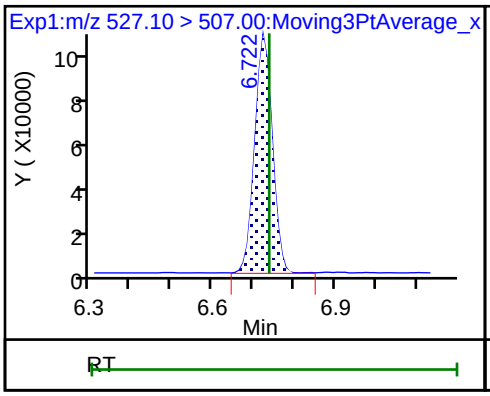
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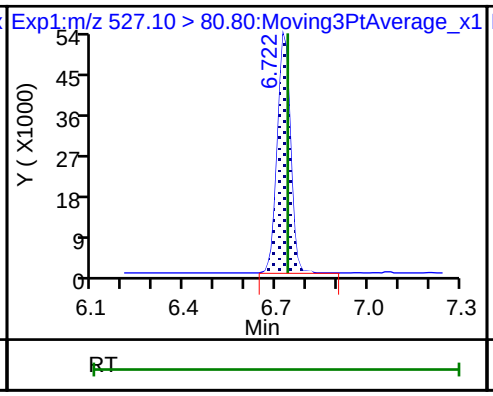
D 44 13C2-8:2FTS



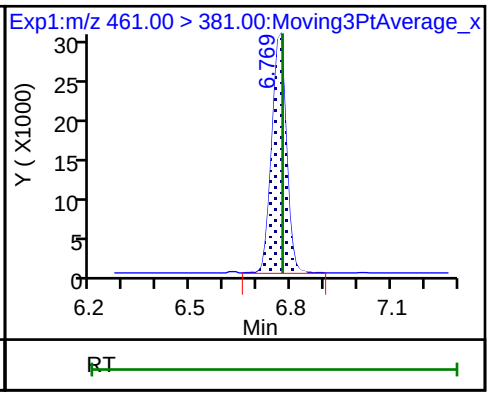
45 8:2FTS



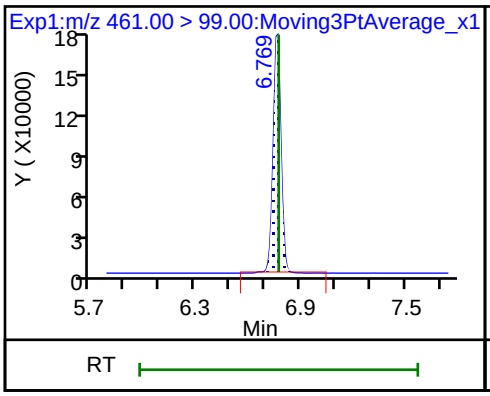
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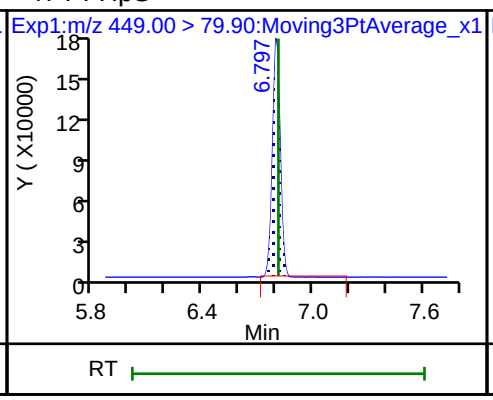
46 PFECHS



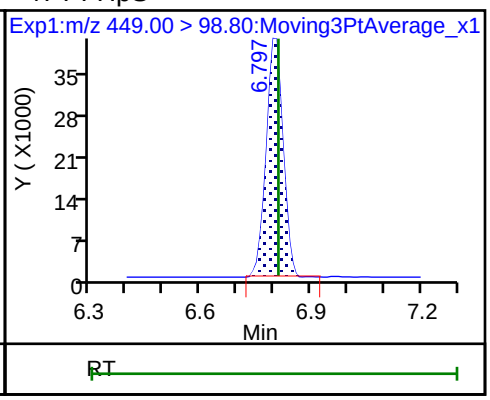
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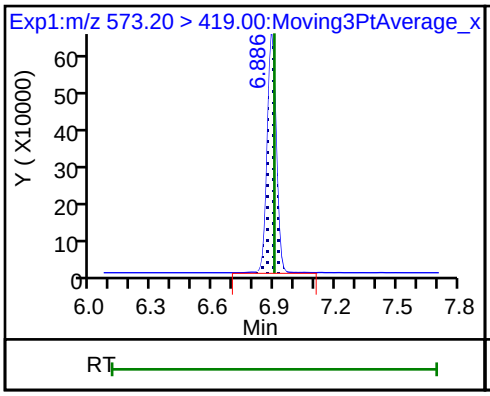
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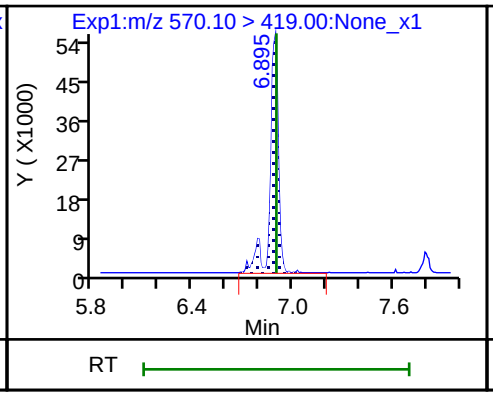
47 PFHpS



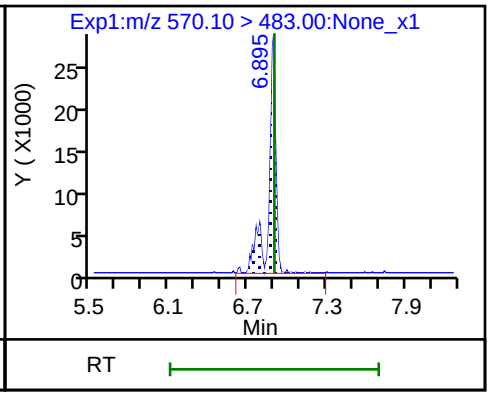
D 49 d3-NMeFOSAA



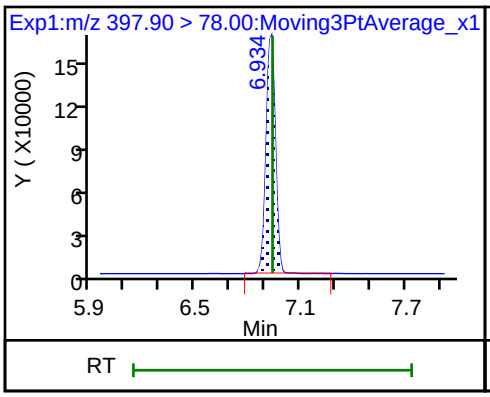
50 NMeFOSAA



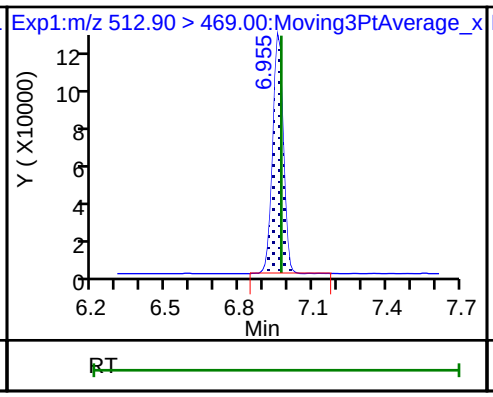
50 NMeFOSAA



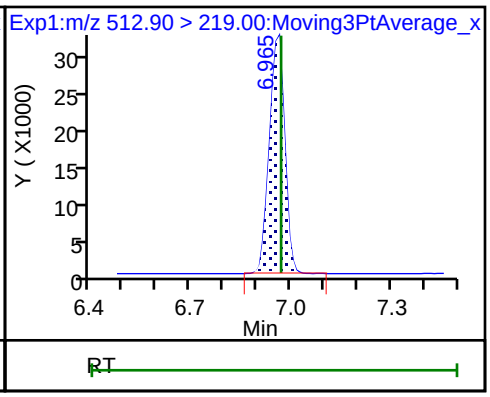
48 FHxSA



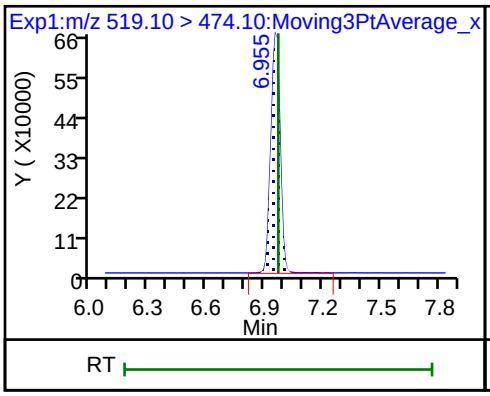
53 PFDA



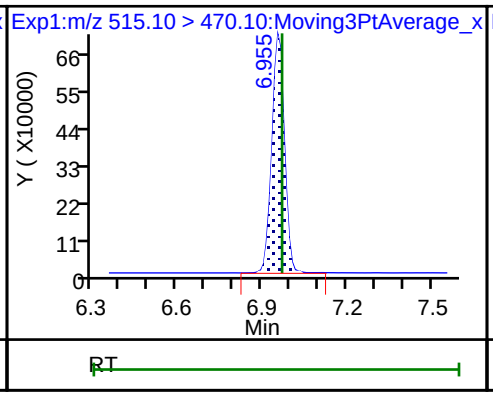
53 PFDA



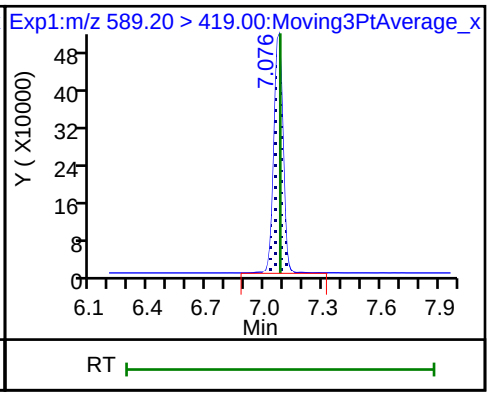
D 52 13C6 PFDA



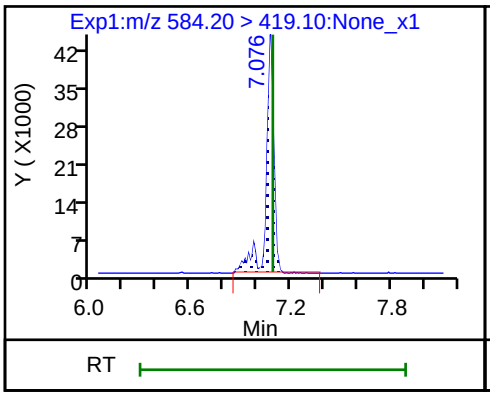
* 51 13C2 PFDA



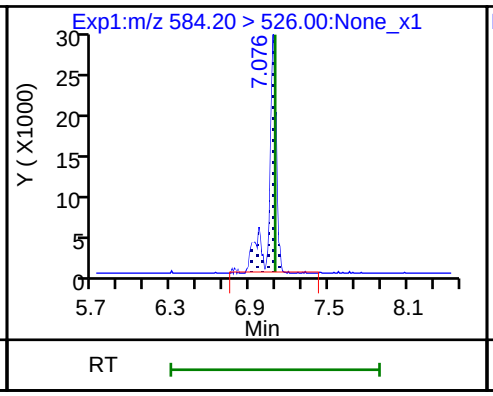
D 54 d5-NEtFOSAA



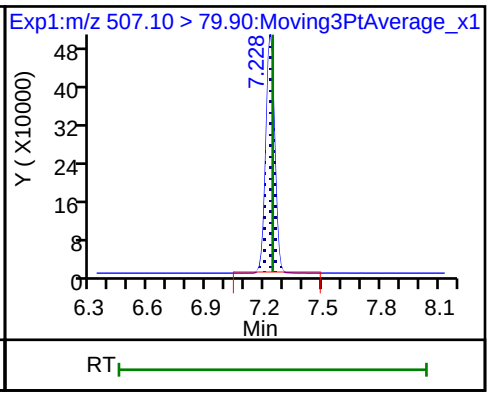
55 NEtFOSAA



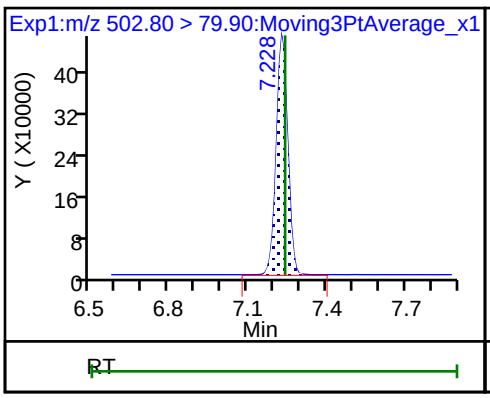
55 NEtFOSAA



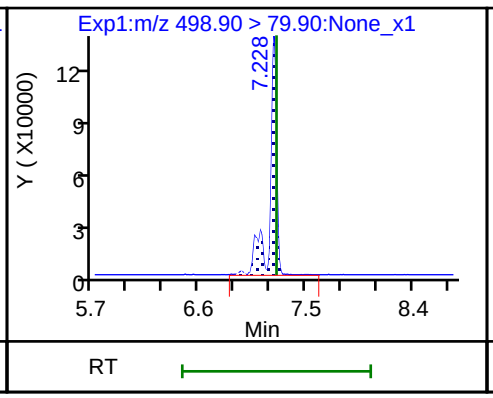
D 56 13C8 PFOS



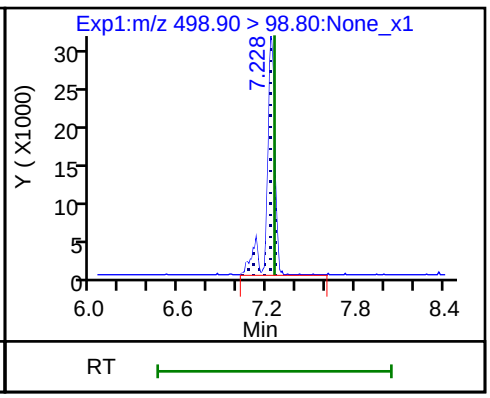
* 57 13C4 PFOS



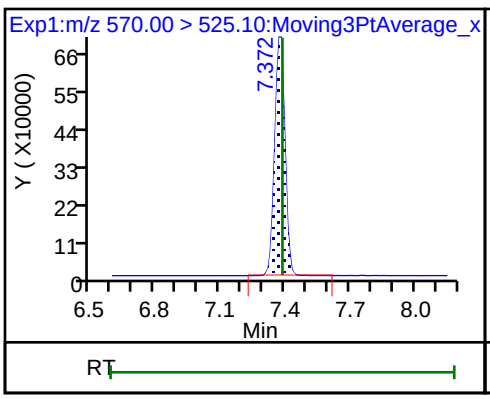
58 PFOS



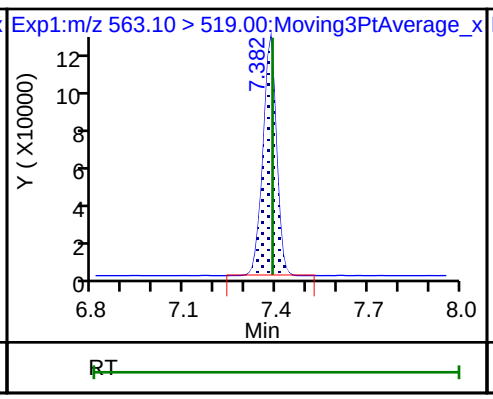
58 PFOS



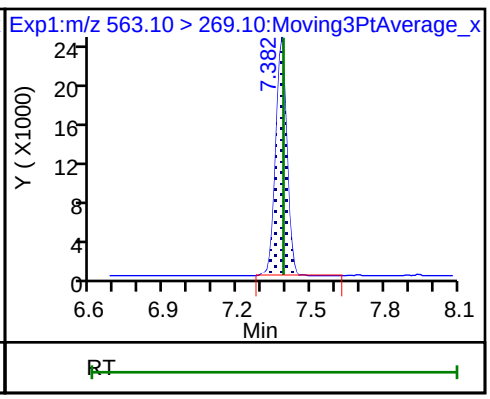
D 59 13C7 PFUnA



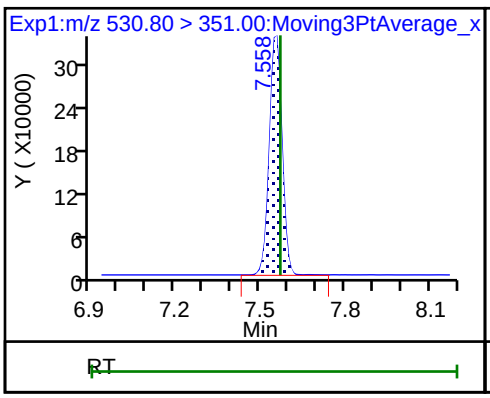
60 PFUnA



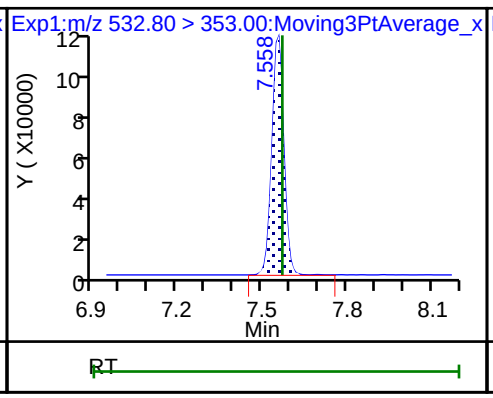
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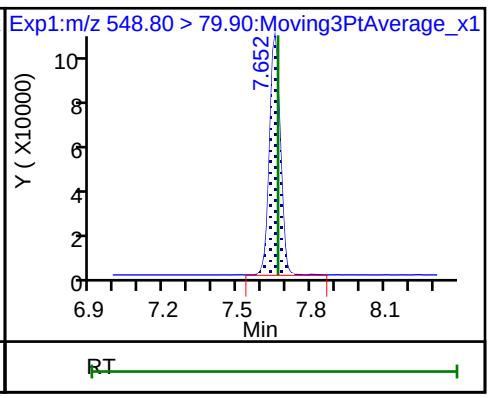
61 9ClFOS



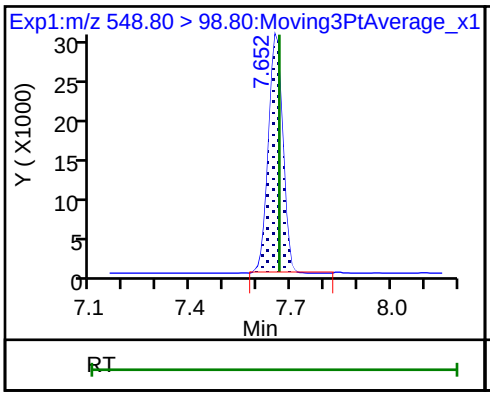
61 9ClFOS



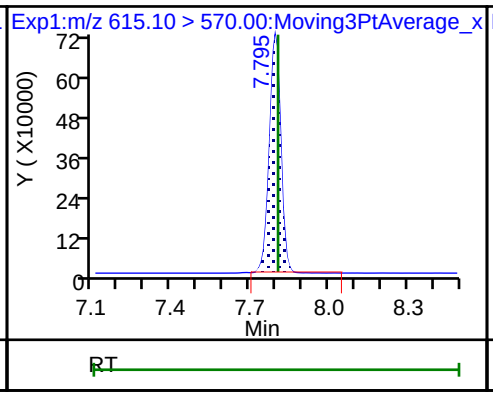
62 PFNS



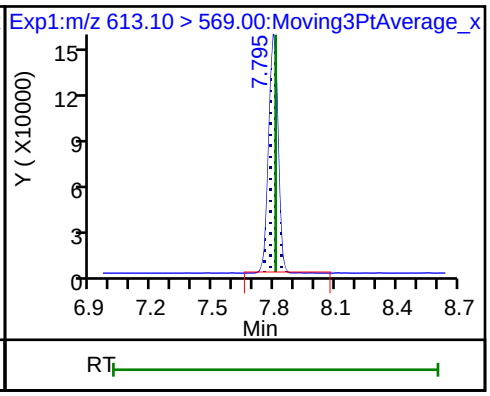
62 PFNS



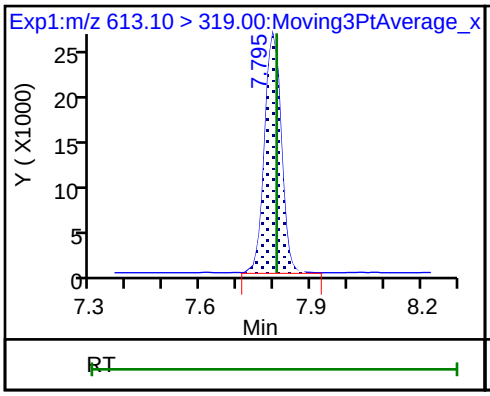
D 81 PFDoA



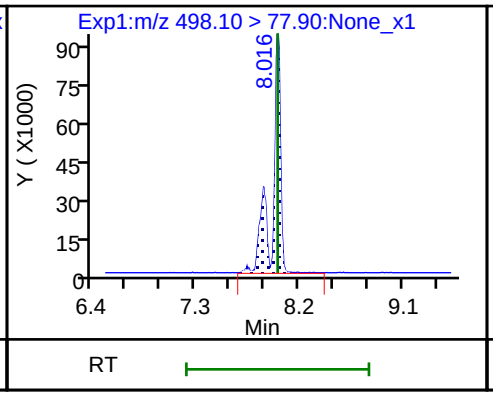
63 PFDoA



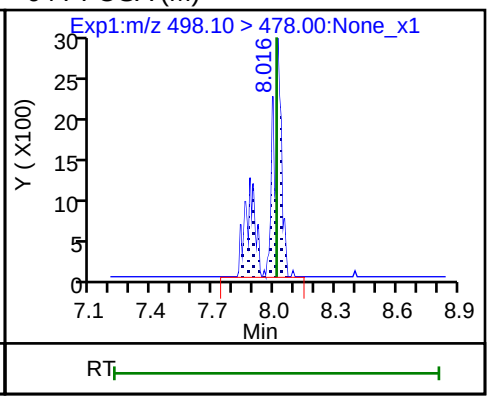
63 PFDoA



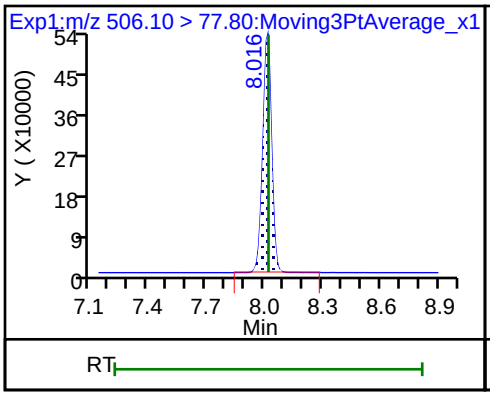
64 PFOSA



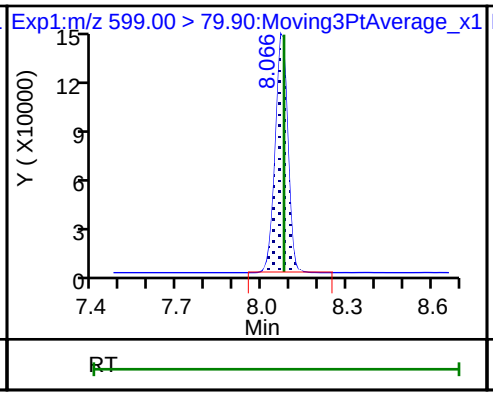
64 PFOSA (M)



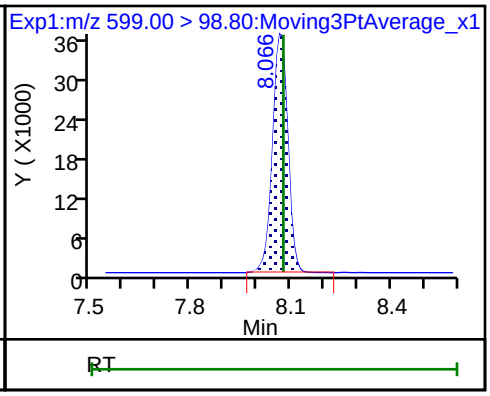
D 65 13C8 FOSA



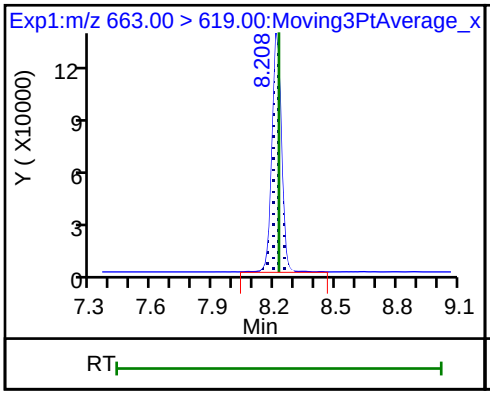
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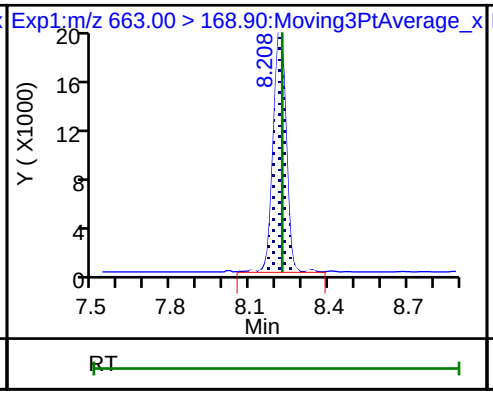
66 PFDS



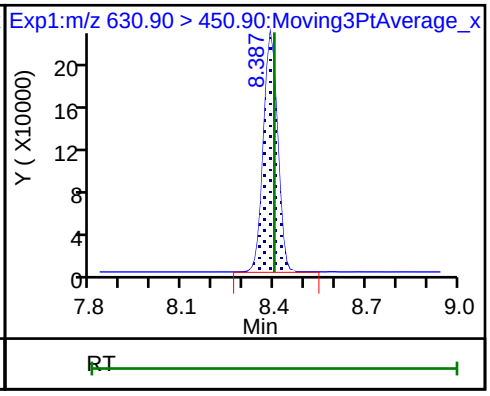
67 PFTrDA



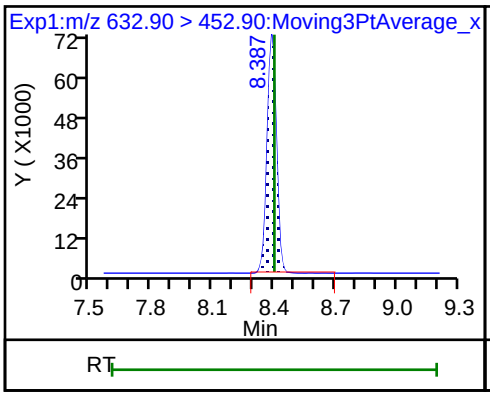
67 PFTrDA



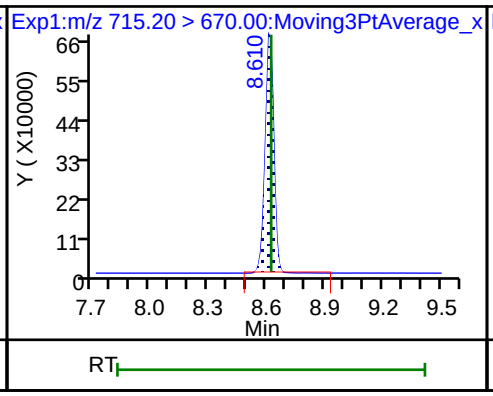
68 11ClFOS



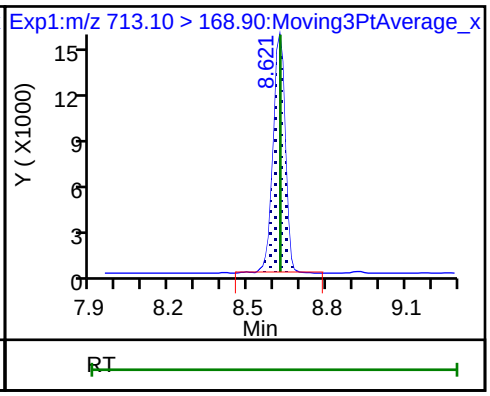
68 11ClFOS



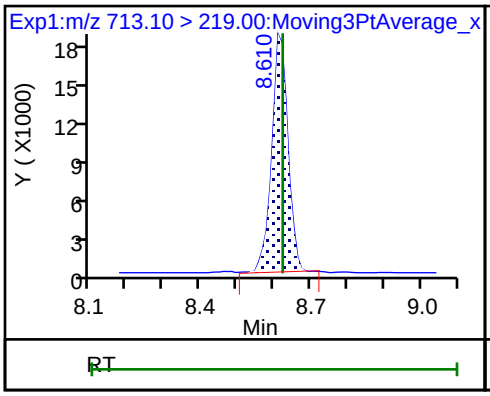
D 70 13C2 PFTeDA



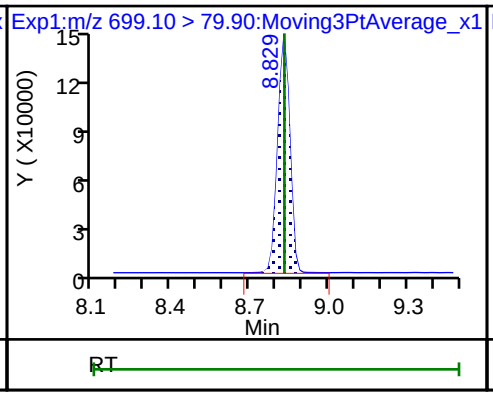
69 PFTeDA



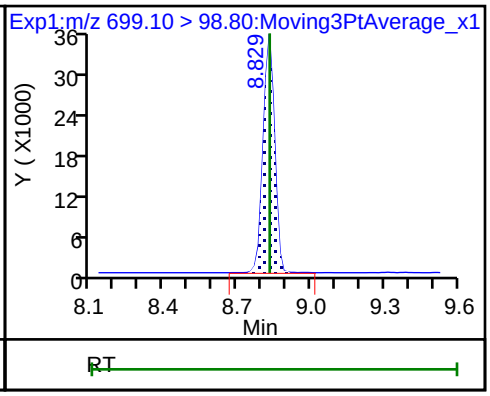
69 PFTeDA



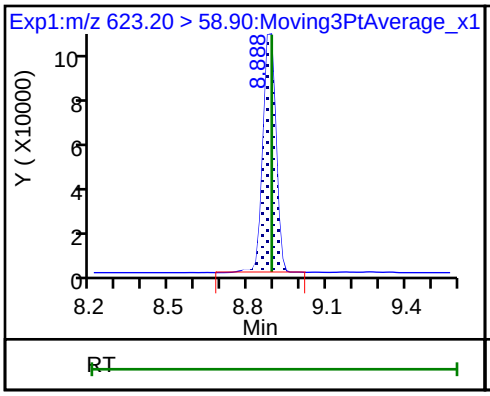
71 PFDoS



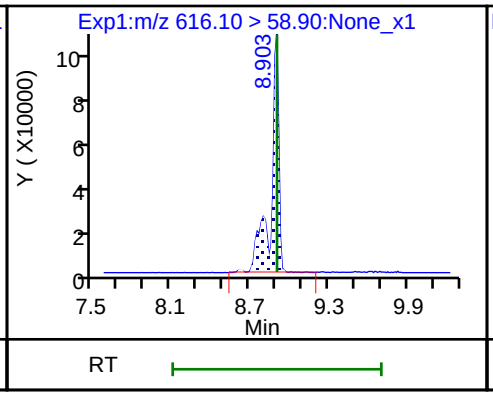
71 PFDoS



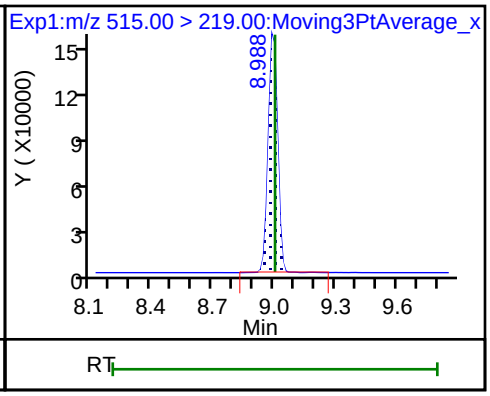
D 72 d7-N-Me-FOSE



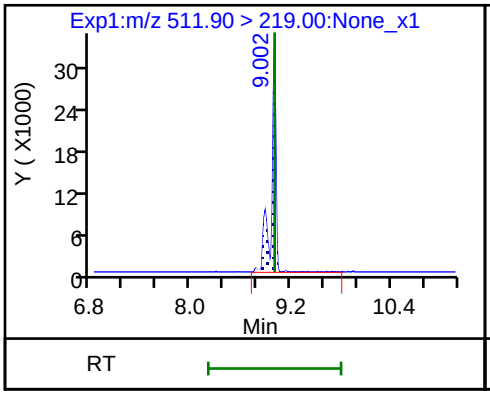
73 N-MeFOSE-M



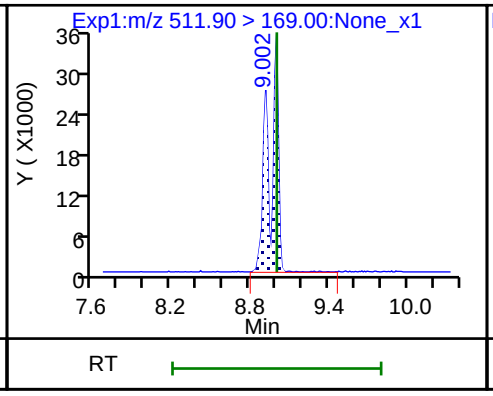
D 75 d3-NMePFOSA



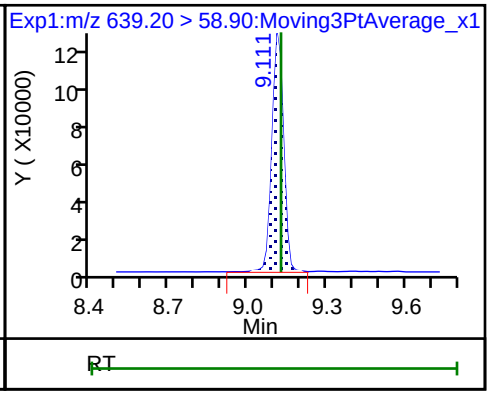
74 NMeFOSA



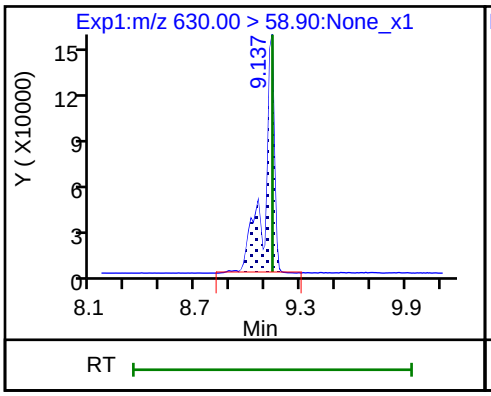
74 NMeFOSA



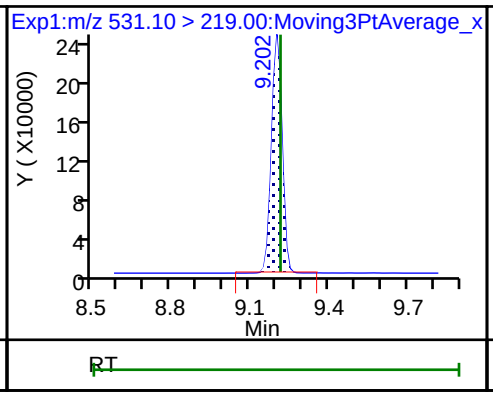
D 76 d9-N-EtFOSE



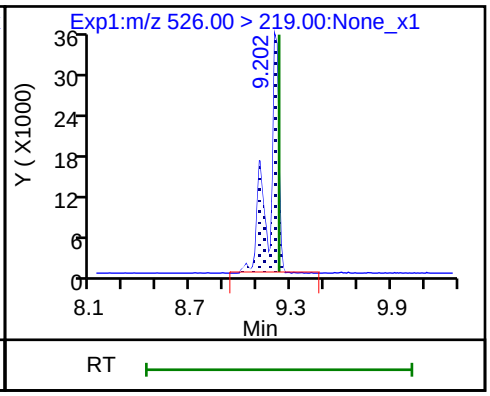
77 N-EtFOSE-M



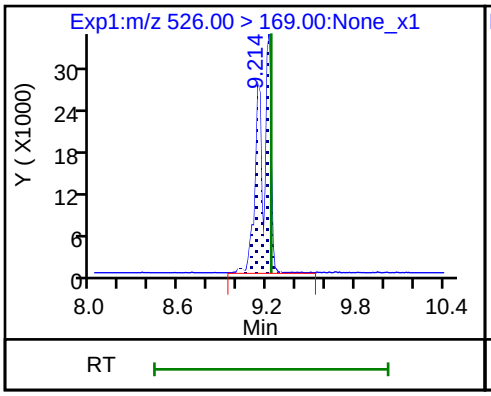
D 78 d5-NEtPFOSA



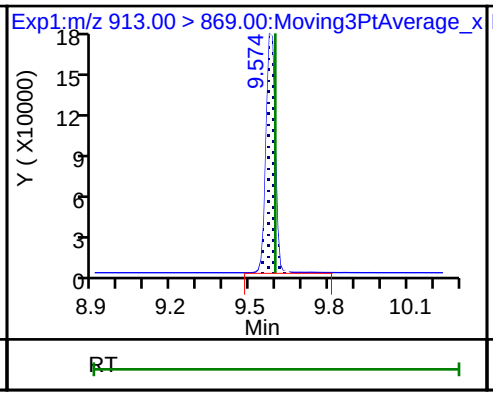
79 N-EtFOSA-M



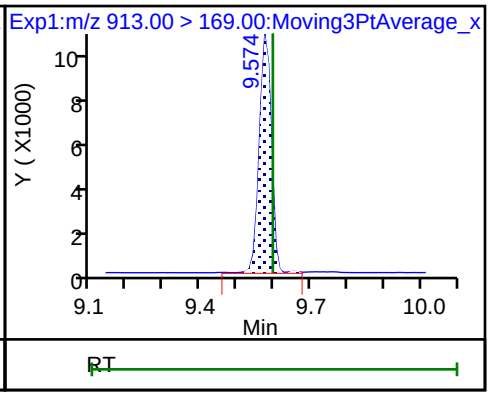
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

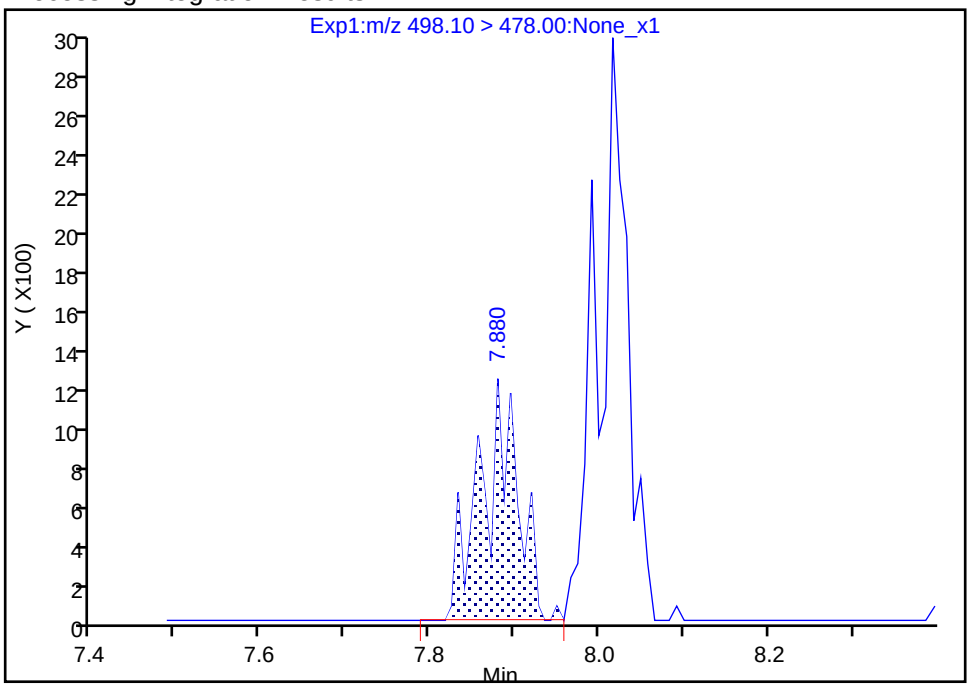
Data File:	\\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-03.d				
Injection Date:	04-Feb-2026 10:06:33	Instrument ID:	30577		
Lims ID:	IC CAL 3				
Client ID:					
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	4	Worklist Smp#:	3
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

64 PFOSA, CAS: 754-91-6

Signal: 2

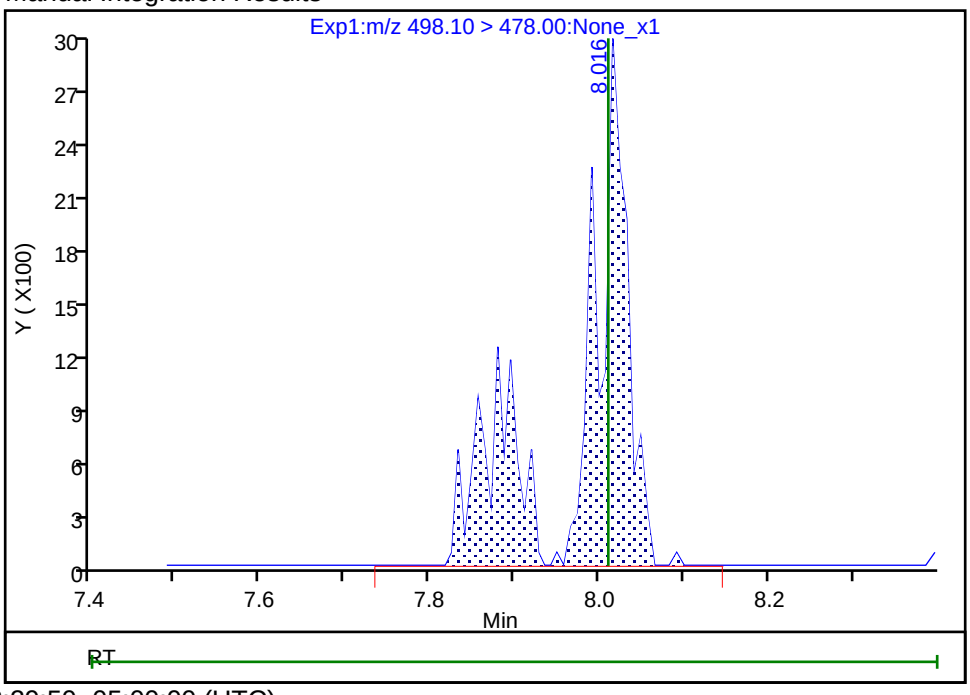
Processing Integration Results

RT: 7.88
Area: 3682
Amount: 0.482454
Amount Units: ng/ml



Manual Integration Results

RT: 8.02
Area: 10713
Amount: 0.482454
Amount Units: ng/ml



Reviewer: QY4X, 04-Feb-2026 12:29:50 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-04.d
Lims ID: IC CAL 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 04-Feb-2026 10:20:09 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 4
Misc. Info.: Plate: 1 Rack: 1 410-0174606-004
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub12

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 13:00:05 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:30:35
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.002	2.027	-0.025	1.000	3136793	4.92		98.4	15491	
D 1 13C3PFPrA										
166.00 > 121.00	2.002	2.035	-0.033	0.480	1388419	2.04		102	2696	
3 PFBA										
212.80 > 168.90	4.174	4.174	0.0	1.000	1707265	2.00		99.8	11848	
D 4 13C4-PFBA										
216.80 > 171.90	4.174	4.180	-0.006	1.000	1862879	2.02		101	3992	
* 5 13C3PFBA										
216.00 > 172.00	4.174	4.180	-0.006		1794499	2.00			3802	
6 PFMPA										
229.00 > 84.90	4.504	4.504	0.0	0.932	902341	0.9796		98.0	3419	
7 3:3 FTCA										
241.00 > 177.00	4.513	4.513	0.0	0.934	85833	1.94	Target=1.17	96.8	1177	
241.00 > 117.00	4.513	4.513	0.0	0.934	72986		1.18(0.58-1.75)	96.8	854	
D 8 13C5 PFPeA										
268.30 > 223.00	4.831	4.830	0.001	0.913	1799757	2.01		100	4630	
9 PFPA										
263.00 > 219.00	4.831	4.830	0.001	1.000	1062392	0.9891		98.9	2348	
10 PFMBA										
279.00 > 85.10	4.986	4.986	0.0	1.032	1194906	0.9799		98.0	5070	
12 4:2FTS										
327.10 > 307.00	5.101	5.101	0.0	1.000	718128	1.73	Target=1.69	92.4	3846	
327.10 > 80.90	5.101	5.101	0.0	1.000	435757		1.65(0.85-2.54)	92.4	524	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.101	5.101	0.0	0.801	1050444	4.78		102	4330	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.249	5.249	0.0	0.994	247675	0.8913	Target=1.47	89.1	1620	
295.00 > 84.90	5.249	5.249	0.0	0.994	178858		1.38(0.74-2.21)	89.1	823	
D 15 13C5 PFHxA										
318.00 > 273.00	5.282	5.292	-0.010	0.998	2227308	2.04		102	4667	
* 16 13C2 PFHxA										
315.10 > 270.00	5.293	5.292	0.001		5143397	5.00			5521	
17 PFHxA										
313.00 > 269.00	5.293	5.292	0.001	1.002	947870	0.9852	Target=10.33	98.5	2571	
313.00 > 118.90	5.293	5.292	0.001	1.002	92289		10.27(5.17-15.50)	98.5	690	
18 5:3 FTCA										
341.00 > 237.10	5.367	5.367	0.0	1.016	599474	4.46	Target=0.77	89.2	1514	
341.00 > 217.00	5.367	5.367	0.0	1.016	834413		0.72(0.38-1.15)	89.2	1860	
D 19 13C3 PFBS										
302.10 > 79.90	5.428	5.437	-0.009	0.852	2199170	1.86		100	6285	
20 PFBS										
298.70 > 79.90	5.428	5.437	-0.009	1.000	934726	0.8844	Target=3.28	99.6	4309	
298.70 > 98.80	5.428	5.437	-0.009	1.000	285303		3.28(1.64-4.92)	99.6	2245	
23 HFPO-DA										
284.90 > 168.90	5.476	5.476	0.0	1.002	601379	0.7263	Target=2.47	96.8	3005	
284.90 > 184.90	5.467	5.476	-0.009	1.000	243158		2.47(1.23-3.70)	96.8	1655	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.467	5.476	-0.009	1.033	1545729	2.08		104	5400	
21 FBSA										
297.90 > 78.00	5.507	5.519	-0.012	1.015	917901	0.9789		97.9	1572	
26 PFEESA										
314.80 > 134.90	5.669	5.679	-0.010	1.073	2178710	0.8187	Target=12.38	91.8	6275	
314.80 > 82.90	5.669	5.679	-0.010	1.073	182791		11.92(6.19-18.57)	91.8	1461	
27 PFHpA										
363.10 > 319.00	5.711	5.722	-0.011	1.000	865826	1.02	Target=1.90	102	1924	
363.10 > 169.00	5.711	5.722	-0.011	1.000	437056		1.98(0.95-2.85)	102	1474	
D 28 13C4 PFHpA										
367.10 > 322.00	5.711	5.722	-0.011	1.079	2017593	1.90		94.8	4378	
29 ADONA										
376.90 > 250.90	5.867	5.877	-0.010	1.073	2508930	0.9304	Target=2.21	98.3	3723	
376.90 > 84.80	5.867	5.877	-0.010	1.073	1094283		2.29(1.10-3.31)	98.3	3242	
30 PFPeS										
349.10 > 79.90	5.909	5.920	-0.011	0.929	1139546	0.9847	Target=3.14	105	4273	
349.10 > 98.90	5.909	5.920	-0.011	0.929	347897		3.28(1.57-4.71)	105	1569	
31 6:2FTS										
427.10 > 407.00	5.909	5.920	-0.011	1.000	696688	1.90	Target=1.66	100	2384	
427.10 > 80.90	5.909	5.920	-0.011	1.000	416439		1.67(0.83-2.48)	100	1471	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.909	5.920	-0.011	0.928	929550	5.00		105	4585	
33 BTS										
280.00 > 147.00	6.083	6.093	-0.010	0.957	2052598	0.9430		96.3	6332	
* 34 13C4 PFOA										
417.10 > 372.00	6.123	6.133	-0.010		7129472	5.00			5318	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.123	6.133	-0.010	1.000	2924058	2.01		101	4779	
36 PFOA										
413.00 > 369.00	6.123	6.133	-0.010	1.000	869841	0.9596	Target=1.85	96.0	833	
413.00 > 169.00	6.123	6.133	-0.010	1.000	469662		1.85(0.93-2.78)	96.0	516	
37 7:3 FTCA										
441.00 > 316.90	6.214	6.224	-0.010	1.176	300710	4.67	Target=0.30	93.4	580	
441.00 > 336.90	6.214	6.224	-0.010	1.176	1040662		0.29(0.15-0.45)	93.4	2313	
* 39 18O2 PFHxS										
403.00 > 83.90	6.369	6.369	0.0		1756446	1.90			6574	
40 PFHxS										
398.70 > 79.90	6.359	6.369	-0.010	1.000	691726	0.8949	Target=3.16	98.1	875	
398.70 > 98.90	6.359	6.369	-0.010	1.000	211460		3.27(1.58-4.75)	98.1	349	
D 38 13C3 PFHxS										
402.10 > 79.90	6.359	6.369	-0.010	0.998	1896586	1.90		100	5712	
43 PFNA										
463.00 > 419.00	6.539	6.549	-0.010	1.000	970897	1.03	Target=2.07	103	1466	
463.00 > 219.00	6.550	6.549	0.001	1.002	426299		2.28(1.03-3.11)	103	135	
* 42 13C5 PFNA										
468.00 > 423.00	6.539	6.549	-0.010		2093651	2.00			4403	
D 41 13C9 PFNA										
472.10 > 427.00	6.539	6.549	-0.010	1.000	2172609	2.01		100	4581	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.718	6.737	-0.019	1.055	909477	4.74		98.8	3385	
45 8:2FTS										
527.10 > 507.00	6.718	6.737	-0.019	1.000	629591	1.91	Target=1.94	99.6	1848	
527.10 > 80.80	6.718	6.737	-0.019	1.000	320787		1.96(0.97-2.91)	99.6	1718	
46 PFECHS										
461.00 > 381.00	6.766	6.775	-0.009	1.064	203007	0.9029	Target=0.18	97.7	632	
461.00 > 99.00	6.766	6.775	-0.009	1.064	1173903		0.17(0.09-0.26)	97.7	3048	
47 PFHpS										
449.00 > 79.90	6.802	6.811	-0.009	0.941	1005543	0.9446	Target=3.74	99.0	3082	
449.00 > 98.80	6.802	6.811	-0.009	0.941	272087		3.70(1.87-5.60)	99.0	2051	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.883	6.900	-0.017	0.953	1971309	4.97		99.3	3697	
50 NMeFOSAA										
570.10 > 419.00	6.883	6.900	-0.017	1.000	376294	0.9802	Target=1.81	98.0	85.9	
570.10 > 483.00	6.883	6.900	-0.017	1.000	216226		1.74(0.91-2.72)	98.0	265	
48 FHxSA										
397.90 > 78.00	6.921	6.939	-0.018	1.088	1229371	0.9426		94.3	2251	
53 PFDA										
512.90 > 469.00	6.962	6.970	-0.008	1.001	854858	0.9725	Target=3.70	97.2	3708	
512.90 > 219.00	6.962	6.970	-0.008	1.001	236984		3.61(1.85-5.54)	97.2	1498	
D 52 13C6 PFDA										
519.10 > 474.10	6.952	6.970	-0.018	0.999	2392090	2.04		102	4148	
* 51 13C2 PFDA										
515.10 > 470.10	6.962	6.970	-0.008		2382959	2.00			4867	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.073	7.081	-0.007	0.979	1697755	4.95		99.1	3532	
55 NEtFOSAA										
584.20 > 419.10	7.073	7.090	-0.017	1.000	304584	1.02	Target=1.29	102	681	
584.20 > 526.00	7.083	7.090	-0.007	1.001	224488		1.36(0.65-1.94)	102	395	
D 56 13C8 PFOS										
507.10 > 79.90	7.225	7.241	-0.016	1.000	1628209	1.90		99.2	7875	
* 57 13C4 PFOS										
502.80 > 79.90	7.225	7.241	-0.016		1474775	1.92			4760	
58 PFOS										
498.90 > 79.90	7.225	7.251	-0.026	1.000	1060916	0.9218	Target=4.49	99.1	2102	
498.90 > 98.80	7.234	7.251	-0.017	1.001	227815		4.66(2.24-6.73)	99.1	562	
D 59 13C7 PFUnA										
570.00 > 525.10	7.379	7.387	-0.008	1.060	2394229	2.05		102	3276	
60 PFUnA										
563.10 > 519.00	7.379	7.387	-0.008	1.000	769323	0.9158	Target=5.00	91.6	2806	
563.10 > 269.10	7.379	7.387	-0.008	1.000	152763		5.04(2.50-7.49)	91.6	1021	
61 9ClFOS										
530.80 > 351.00	7.556	7.571	-0.015	1.046	2092512	0.8945	Target=3.04	95.8	6691	
532.80 > 353.00	7.556	7.571	-0.015	1.046	684014		3.06(1.52-4.56)	95.8	2427	
62 PFNS										
548.80 > 79.90	7.650	7.665	-0.015	1.059	705403	0.9703	Target=3.71	101	3541	
548.80 > 98.80	7.650	7.665	-0.015	1.059	190845		3.70(1.85-5.56)	101	1549	
D 81 PFDoA										
615.10 > 570.00	7.793	7.806	-0.013	1.119	2260704	2.01		100	2935	
63 PFDoA										
613.10 > 569.00	7.786	7.806	-0.020		1052892	1.00	Target=5.74	99.8	3656	
613.10 > 319.00	7.793	7.806	-0.013		176710		5.96(2.87-8.61)	99.8	1869	
64 PFOSA										
498.10 > 77.90	8.013	8.011	0.002	1.000	954045	0.99	Target=41.30	99.4	1535	
498.10 > 478.00	8.021	8.011	0.010	1.001	23317		40.92(20.65-61.94)	99.4	44.0	
D 65 13C8 FOSA										
506.10 > 77.80	8.013	8.019	-0.006	1.109	1737945	1.97		98.3	4278	
66 PFDS										
599.00 > 79.90	8.071	8.077	-0.006	1.117	985647	1.02	Target=3.87	106	7729	
599.00 > 98.80	8.062	8.077	-0.015	1.116	253657		3.89(1.93-5.80)	106	2570	
67 PFTrDA										
663.00 > 619.00	8.215	8.222	-0.007	0.953	993213	1.03	Target=6.63	103	4456	
663.00 > 168.90	8.204	8.222	-0.018	0.952	153802		6.46(3.32-9.95)	103	817	
68 11ClFOS										
630.90 > 450.90	8.384	8.400	-0.016	1.160	1550936	0.9622	Target=3.04	102	10002	
632.90 > 452.90	8.384	8.400	-0.016	1.160	516738		3.00(1.52-4.56)	102	4061	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.618	8.623	-0.005	1.238	1932305	1.91		95.5	3085	
69 PFTeDA										
713.10 > 168.90	8.618	8.623	-0.005	1.000	108815	1.00	Target=1.02	100	1350	
713.10 > 219.00	8.607	8.623	-0.016	0.999	108653		1.00(0.51-1.53)	100	597	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.827	8.831	-0.004	1.222	946219	0.99	Target=4.07	102	2863	
699.10 > 98.80	8.827	8.831	-0.004	1.222	225689		4.19(2.04-6.11)	102	2140	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.886	8.890	-0.004	1.230	305810	4.31		86.2	632	
73 N-MeFOSE-M										
616.10 > 58.90	8.901	8.905	-0.003	1.002	887068	5.66		113	1135	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.999	9.003	-0.004	1.246	535307	1.91		95.5	2811	
74 NMeFOSA										
511.90 > 219.00	8.999	9.003	-0.004	1.000	266541	1.05	Target=0.72	105	1343	
511.90 > 169.00	8.999	9.003	-0.004	1.000	366016		0.73(0.36-1.07)	105	1053	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.122	9.125	-0.003	1.262	354899	4.64		92.8	858	
77 N-EtFOSE-M										
630.00 > 58.90	9.135	9.139	-0.004	1.001	1212398	5.17		103	2394	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.212	9.216	-0.004	1.275	717507	1.99		99.6	2118	
79 N-EtFOSA-M										
526.00 > 219.00	9.212	9.228	-0.016	1.000	300676	0.9639	Target=0.87	96.4	1785	
526.00 > 169.00	9.212	9.228	-0.016	1.000	349697		0.86(0.43-1.30)	96.4	1428	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.582	9.596	-0.014	1.112	836050	0.9388	Target=17.07	93.9	9832	
913.00 > 169.00	9.582	9.596	-0.014	1.112	48820		17.13(8.53-25.60)	93.9	3062	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL4_00083 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 13:00:08 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-04.d

Injection Date: 04-Feb-2026 10:20:09 Instrument ID: 30577

Lims ID: IC CAL 4

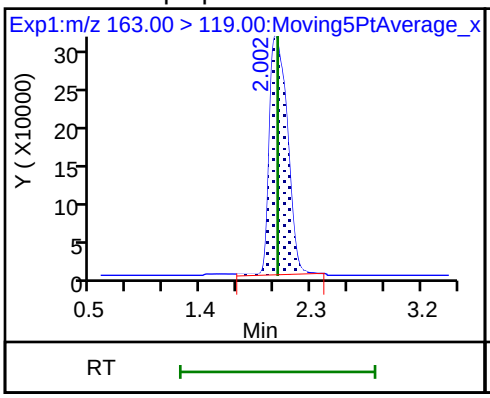
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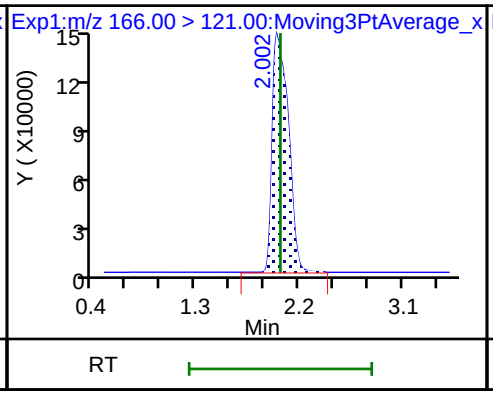
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Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

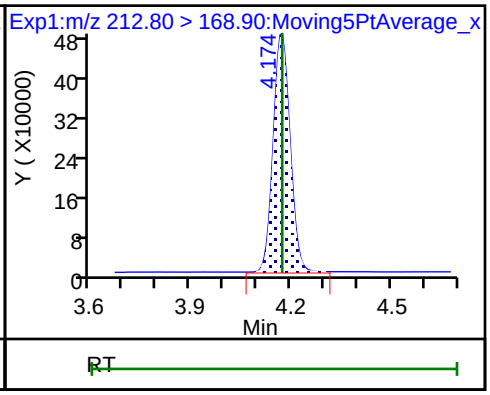
2 Perfluoropropionic acid



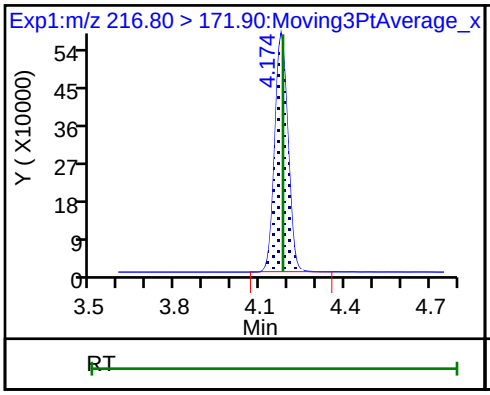
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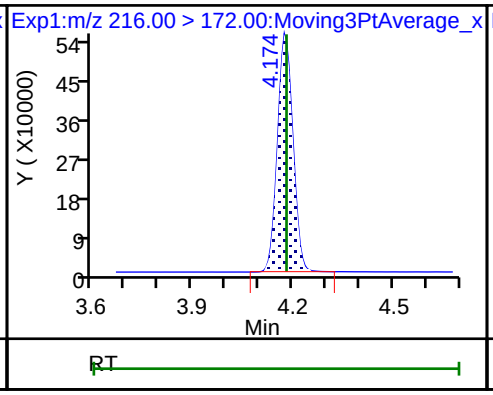
3 PFBA



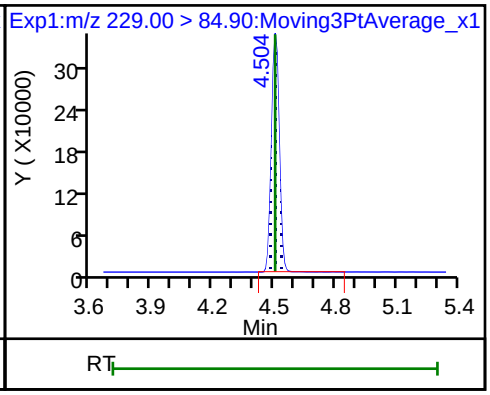
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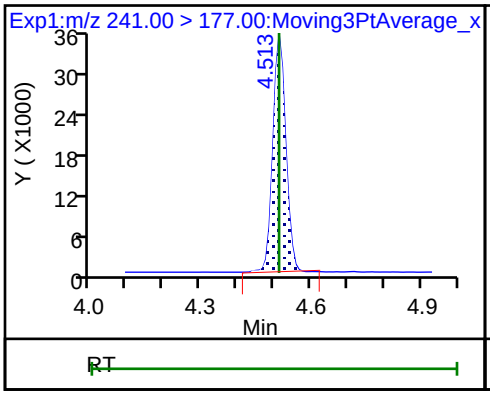
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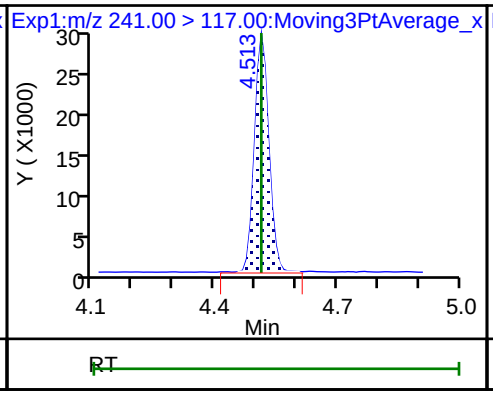
6 PFMPA



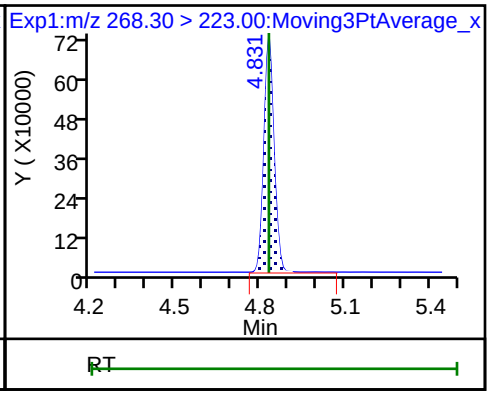
7 3:3 FTCA



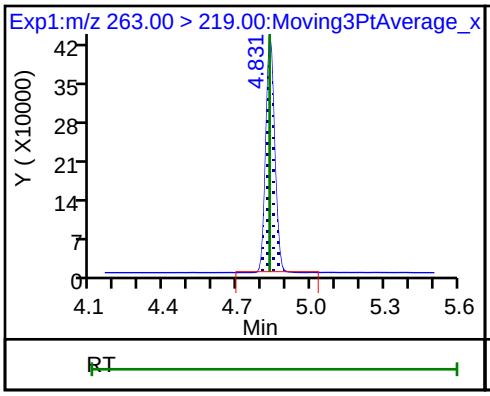
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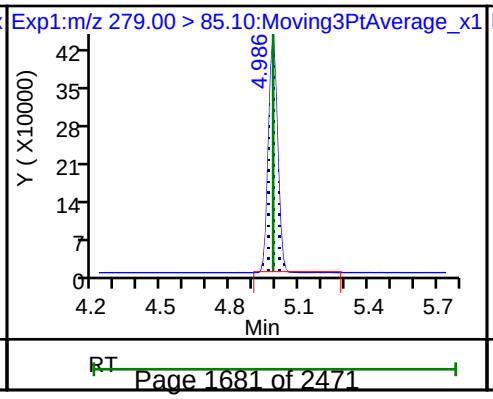
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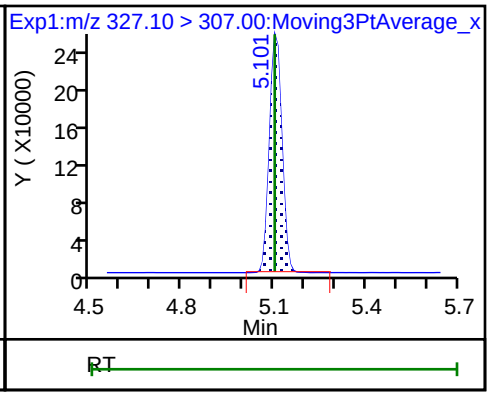
9 PFPA



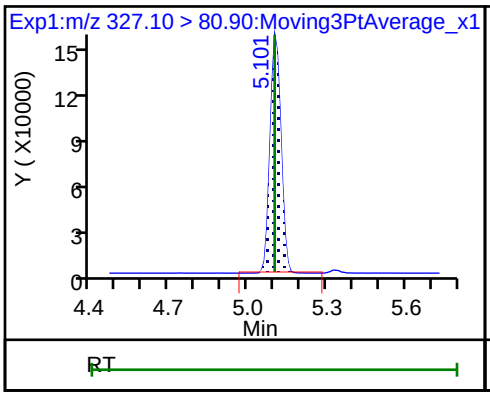
10 PFMBA



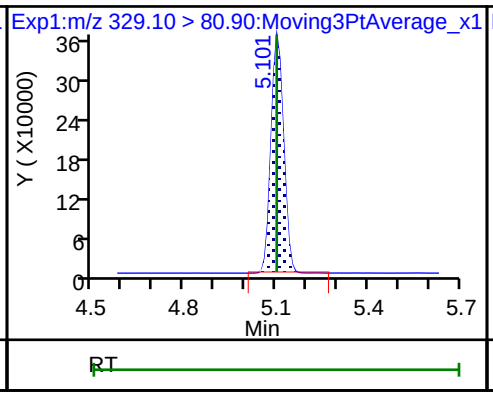
12 4:2FTS



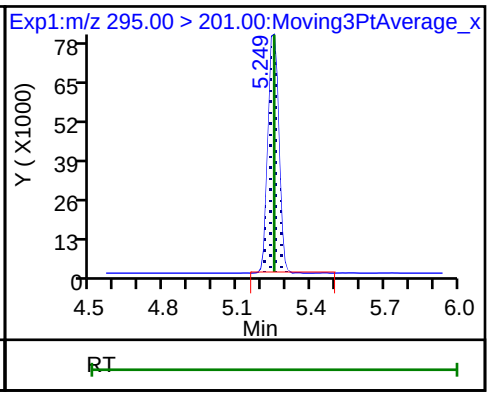
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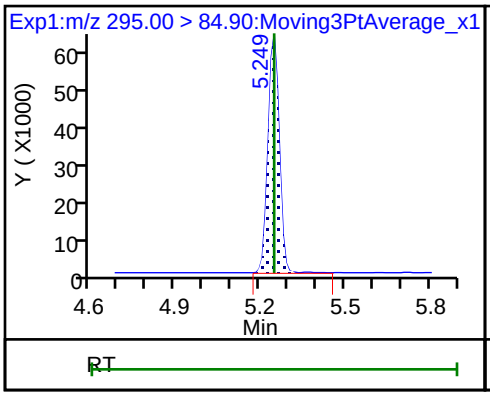
D 11 13C2-4:2FTS



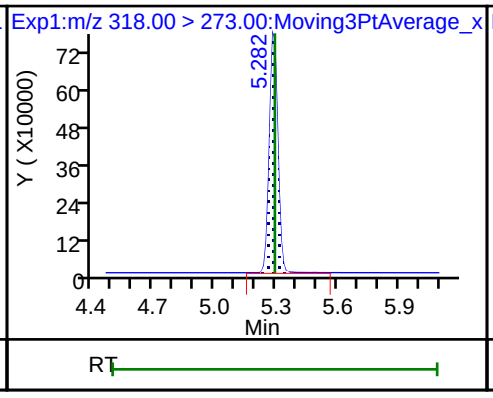
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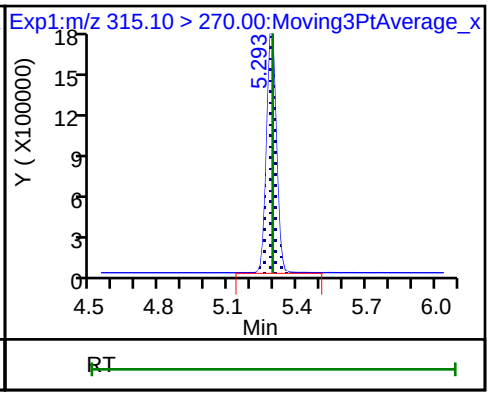
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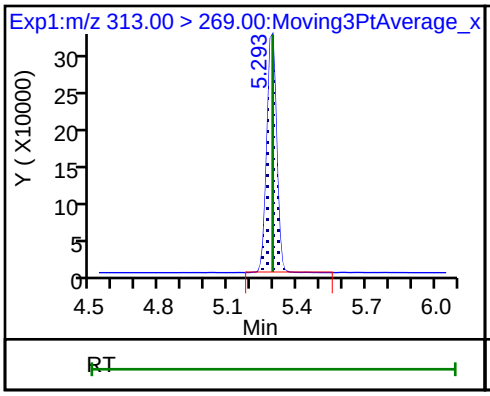
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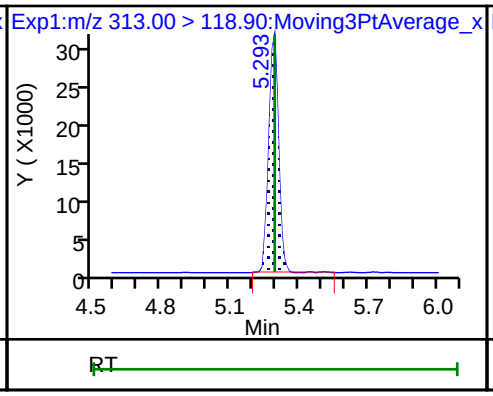
* 16 13C2 PFHxA



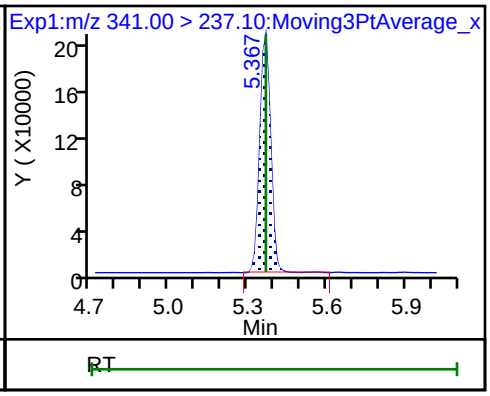
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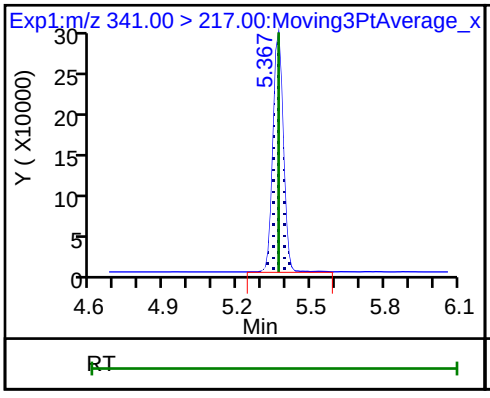
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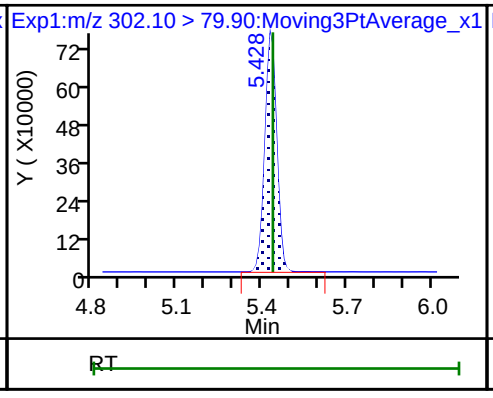
18 5:3 FTCA



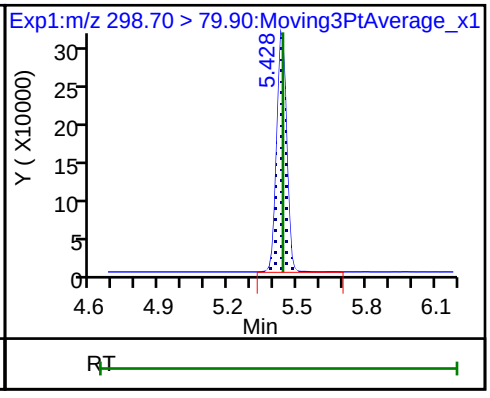
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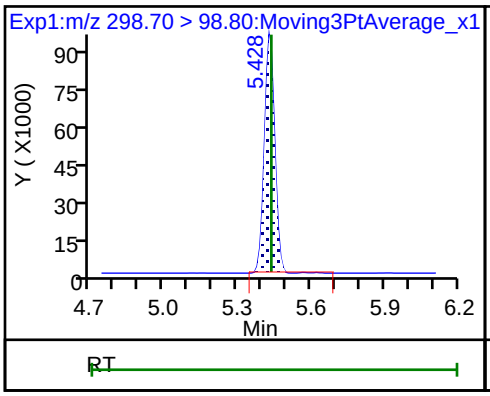
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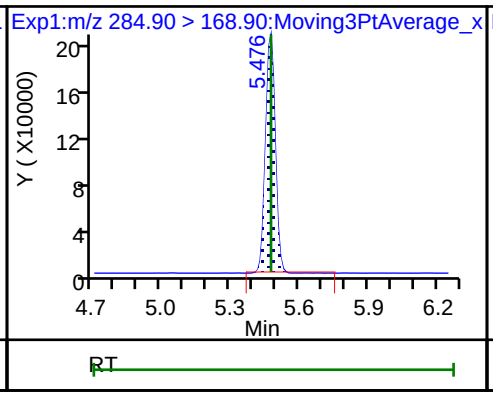
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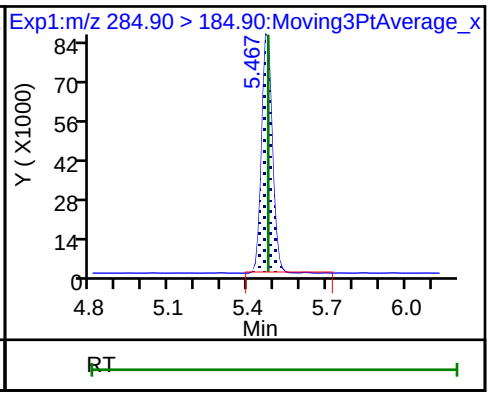
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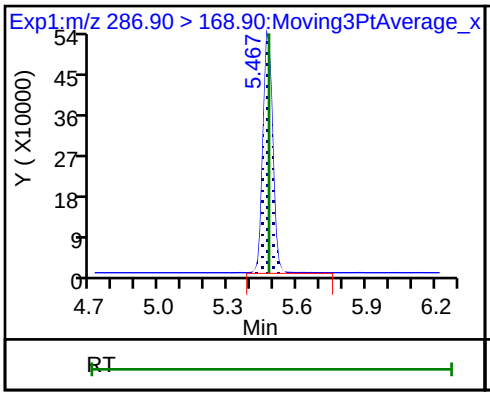
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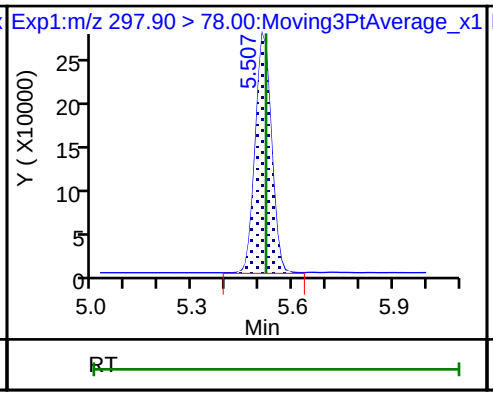
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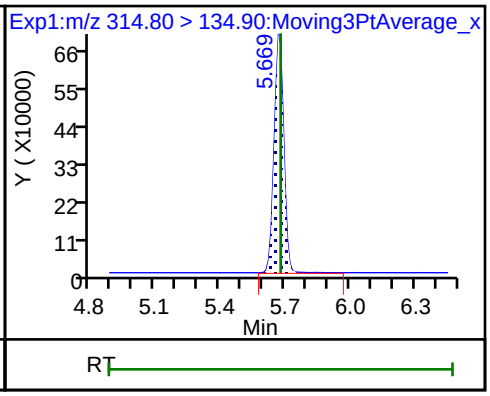
D 22 13C3 HFPO-DA



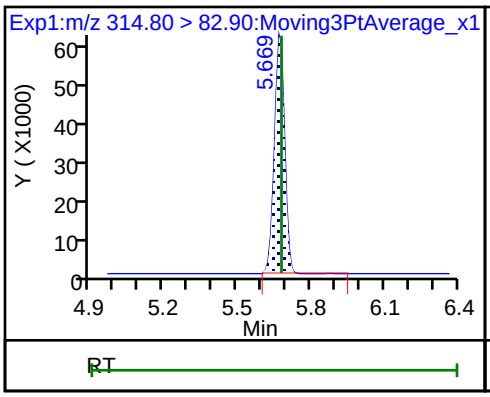
21 FBSA



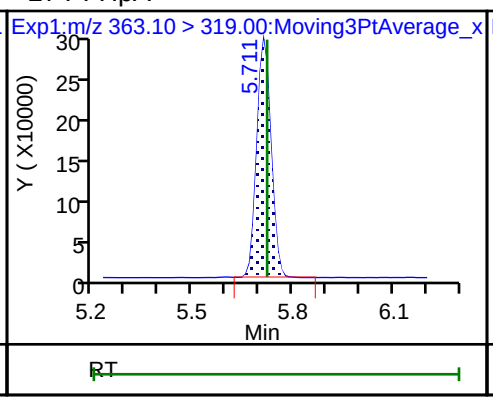
26 PFEESA



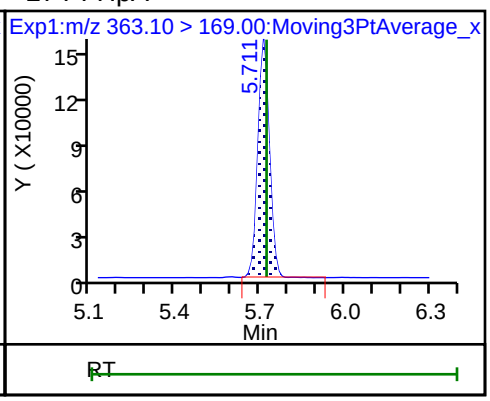
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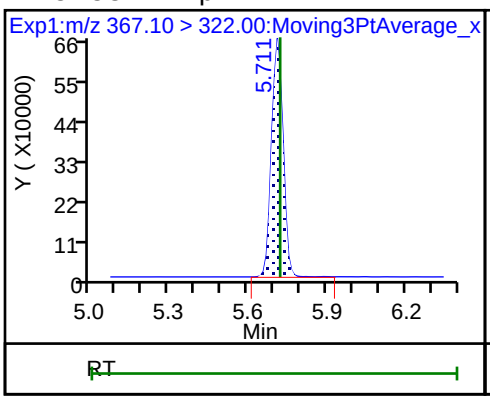
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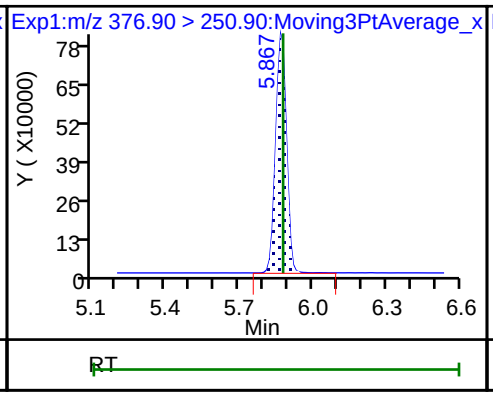
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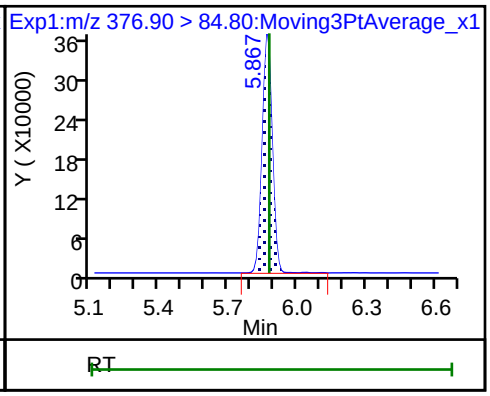
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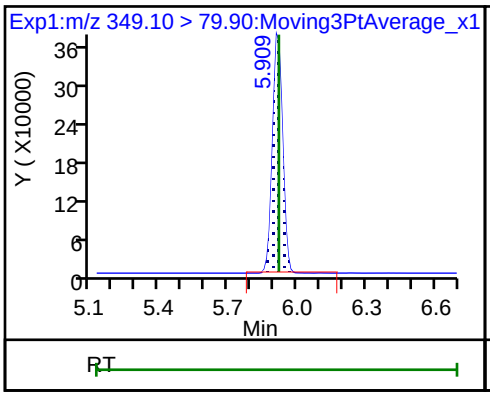
29 ADONA



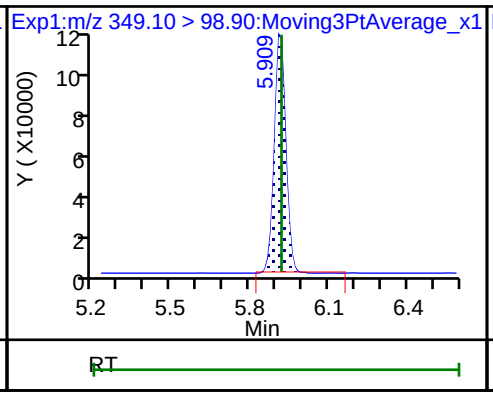
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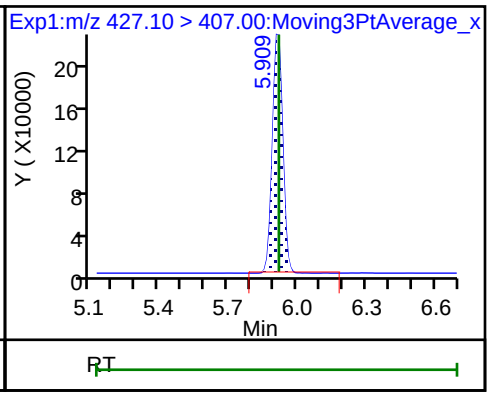
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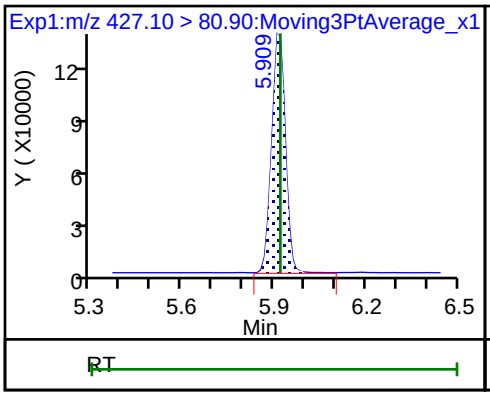
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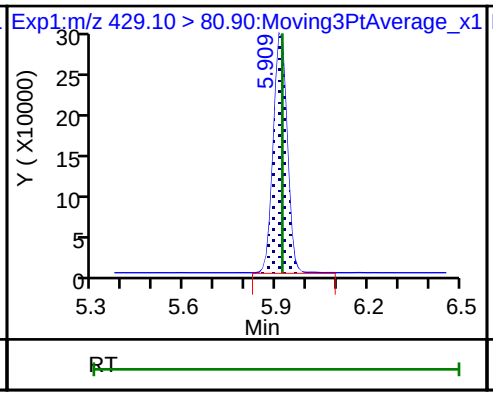
31 6:2FTS



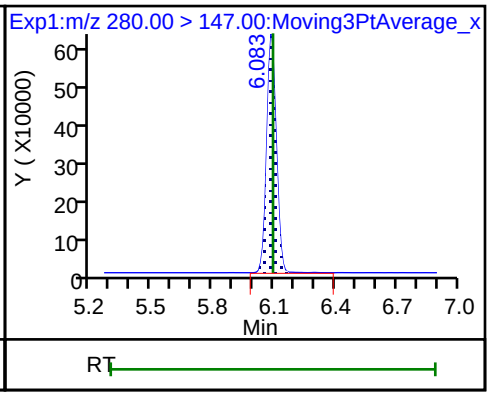
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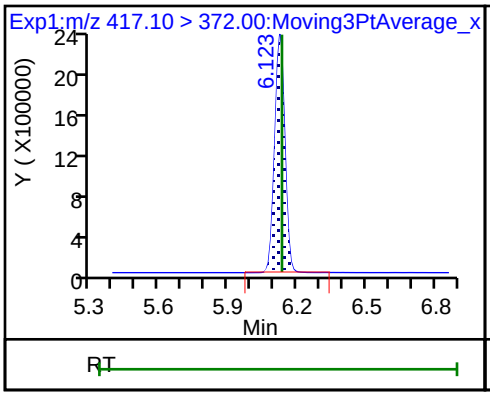
D 32 13C2-6:2FTS



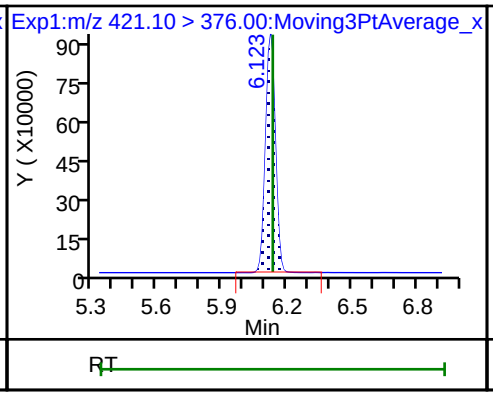
33 BTS



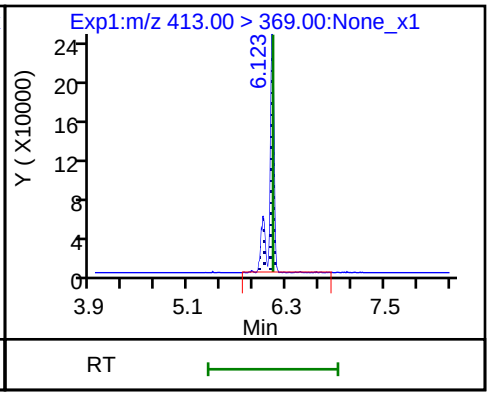
* 34 13C4 PFOA



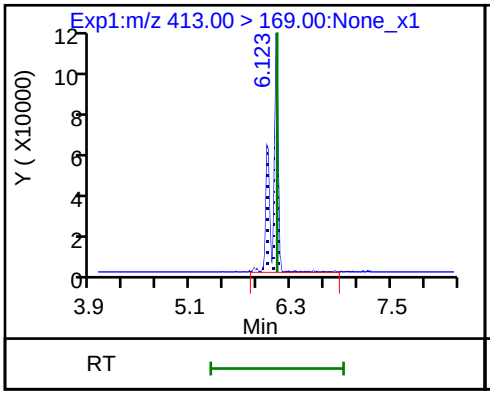
D 35 13C8 PFOA



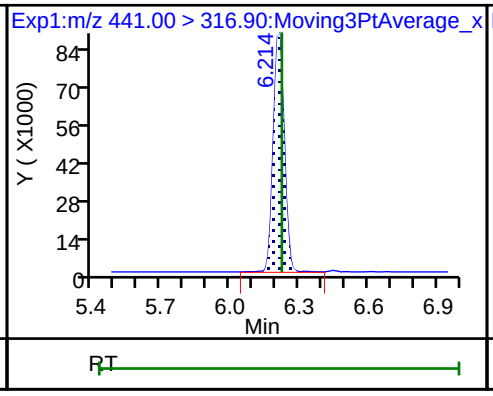
36 PFOA



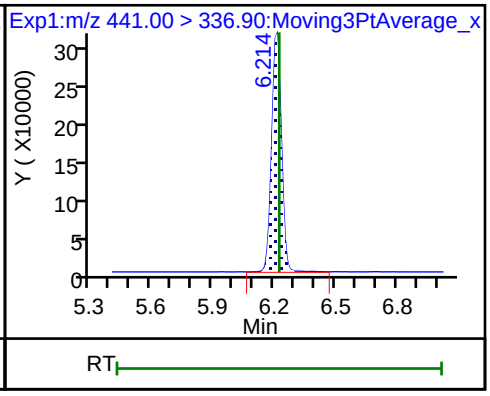
36 PFOA



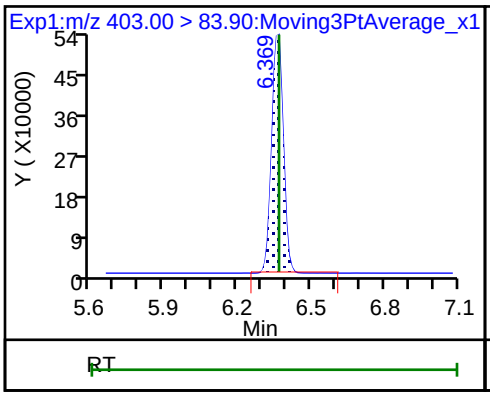
37 7:3 FTCA



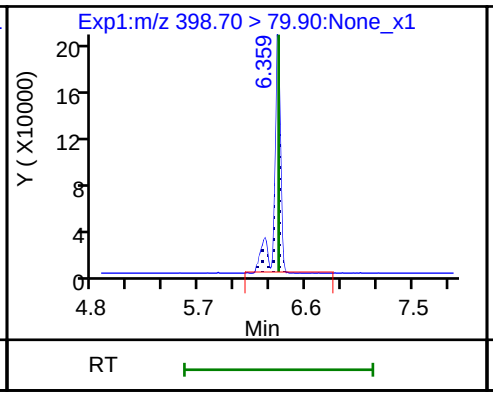
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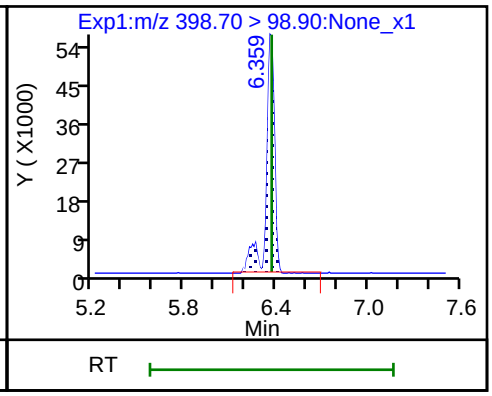
* 39 18O2 PFHxS



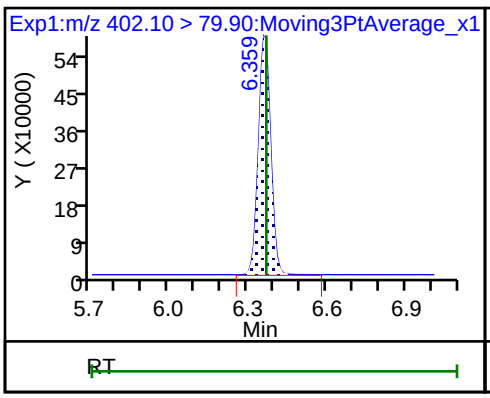
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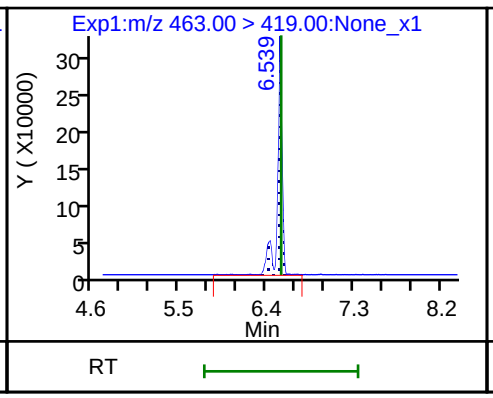
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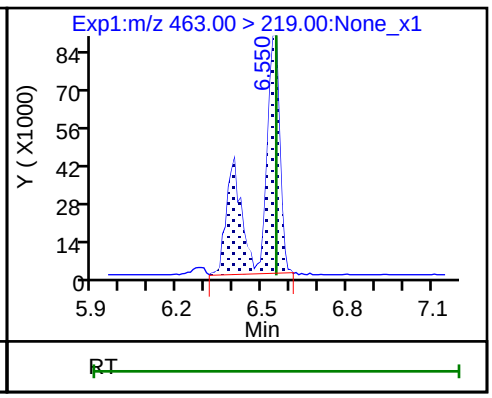
D 38 13C3 PFHxS



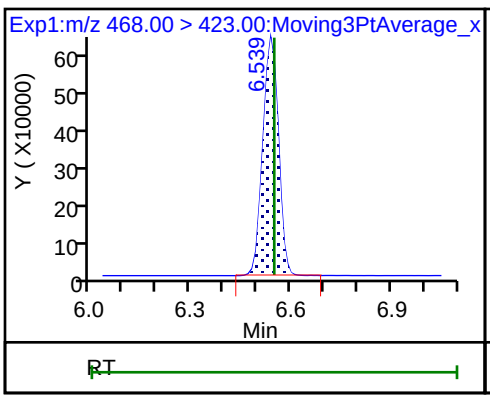
43 PFNA



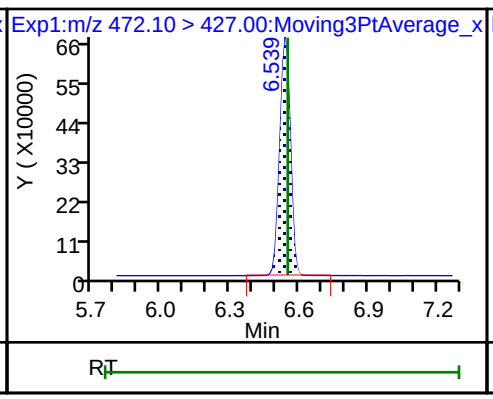
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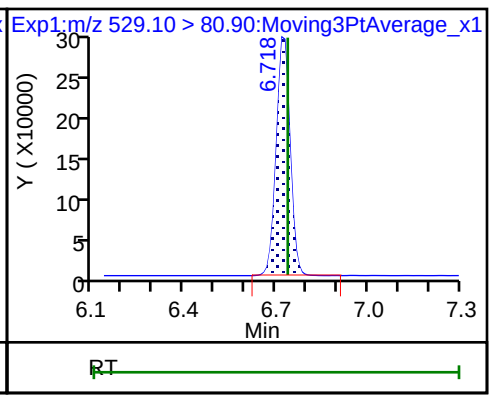
* 42 13C5 PFNA



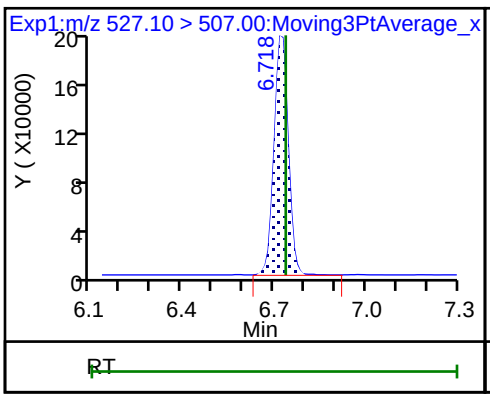
D 41 13C9 PFNA



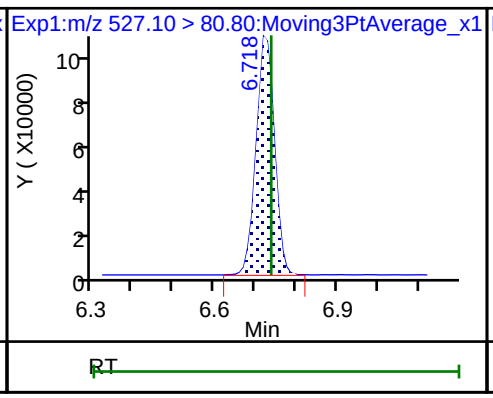
D 44 13C2-8:2FTS



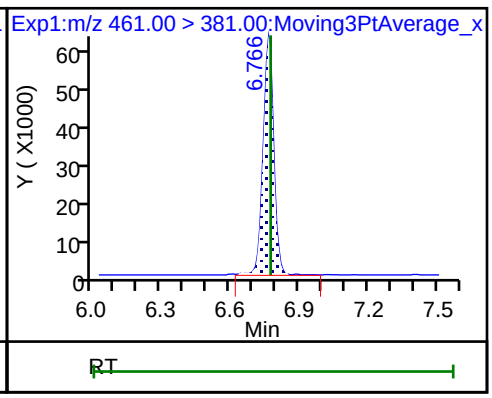
45 8:2FTS



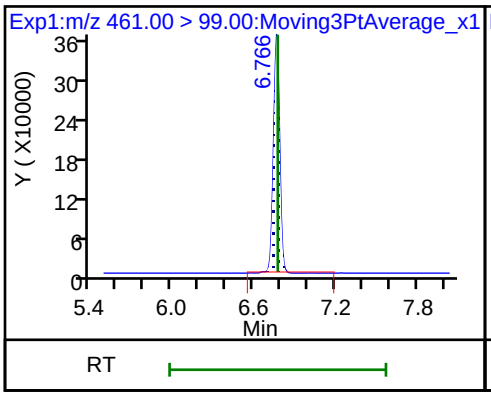
45 8:2FTS



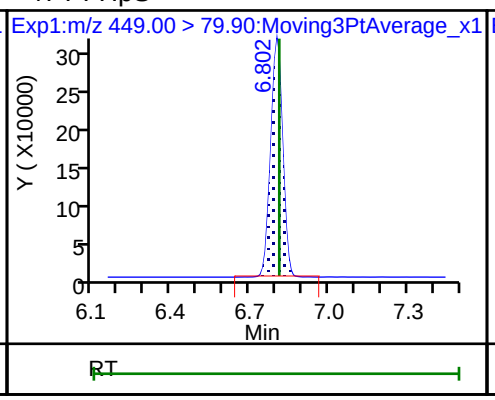
46 PFECHS



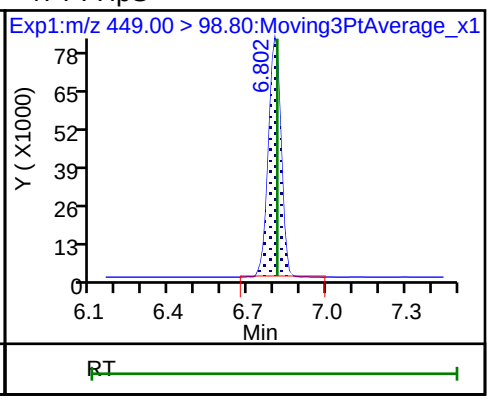
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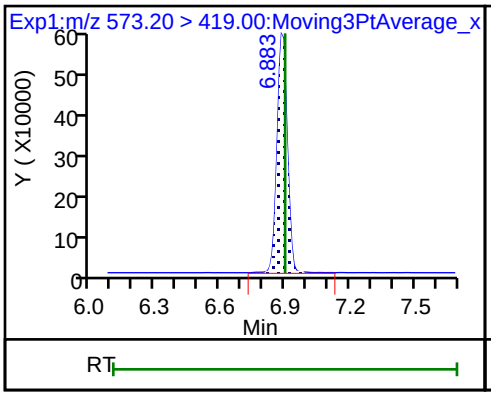
47 PFHpS



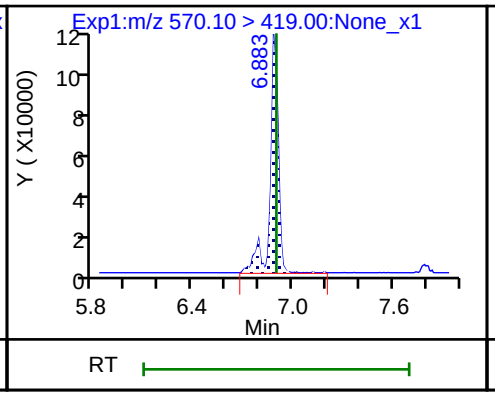
47 PFHpS



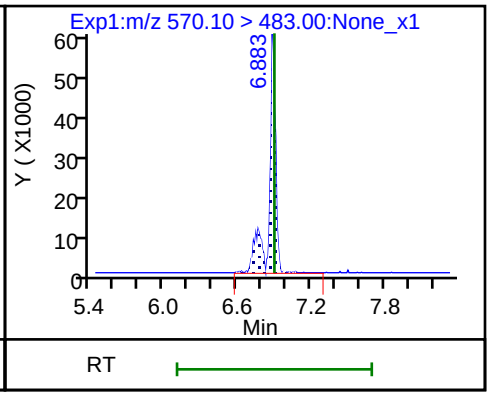
D 49 d3-NMeFOSAA



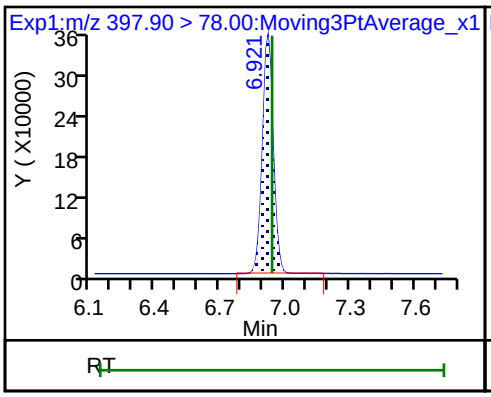
50 NMeFOSAA



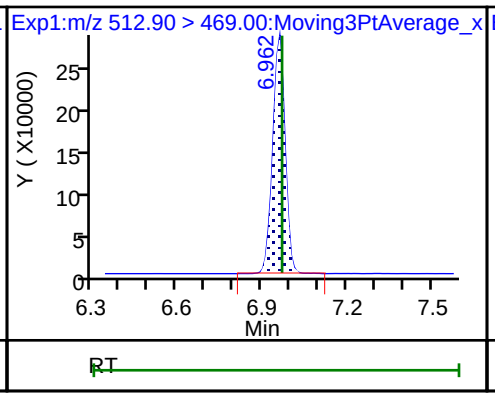
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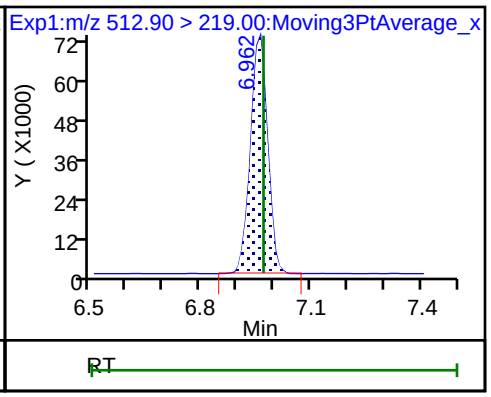
48 FHxSA



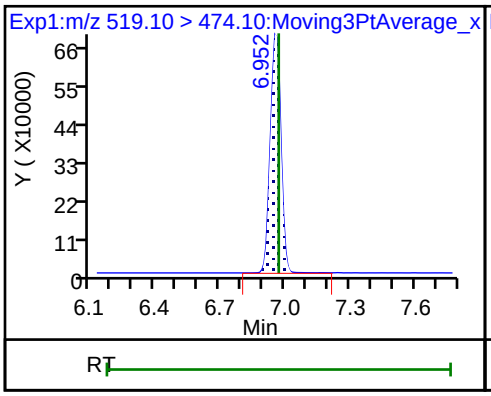
53 PFDA



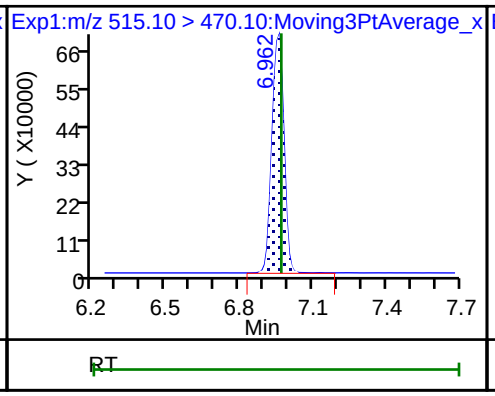
53 PFDA



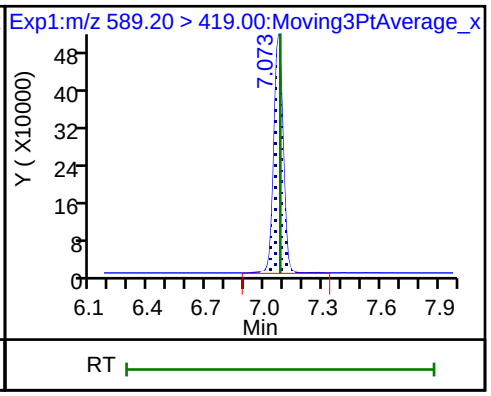
D 52 13C6 PFDA



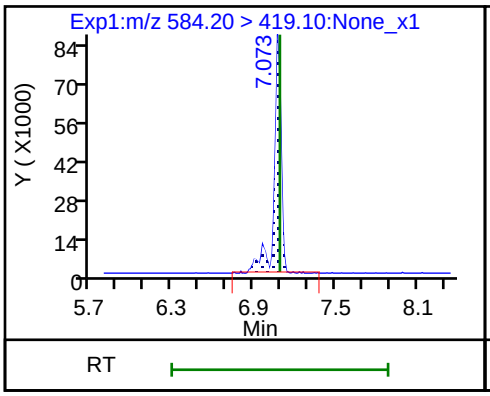
* 51 13C2 PFDA



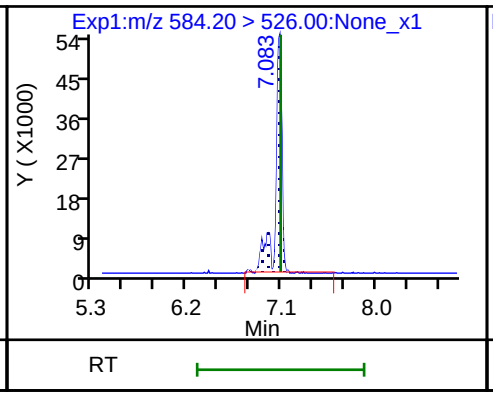
D 54 d5-NEtFOSAA



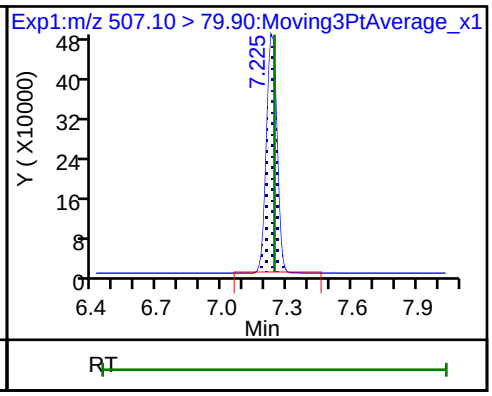
55 NEtFOSAA



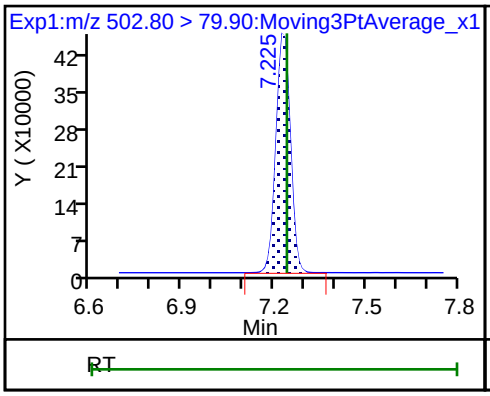
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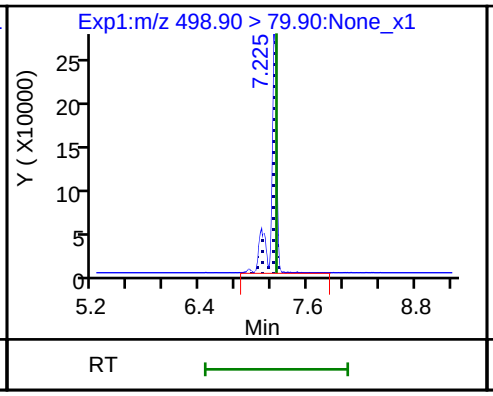
D 56 13C8 PFOS



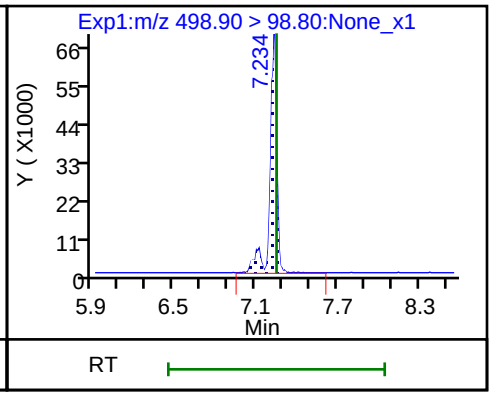
* 57 13C4 PFOS



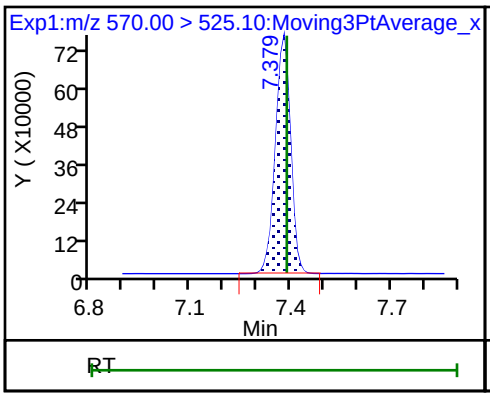
58 PFOS



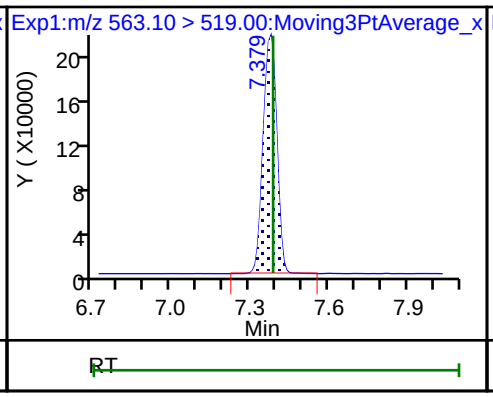
58 PFOS



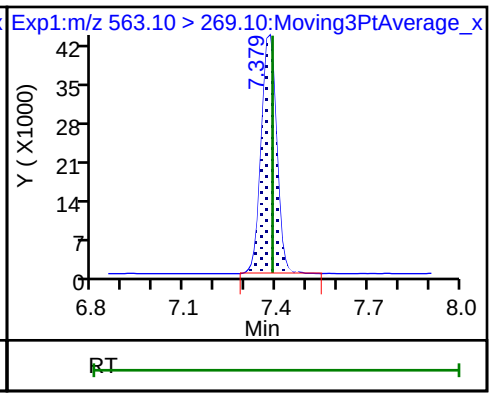
D 59 13C7 PFUnA



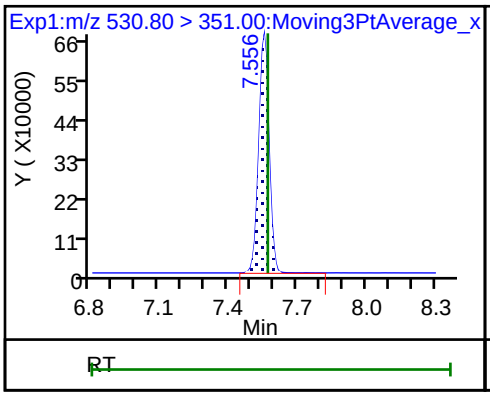
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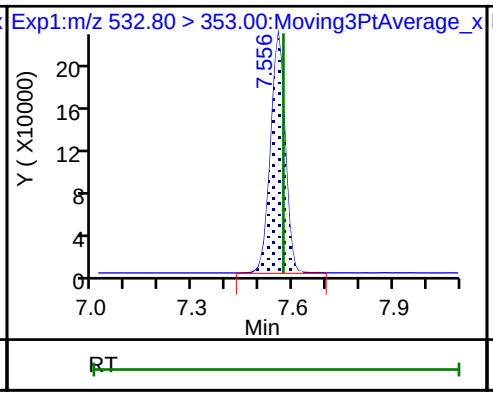
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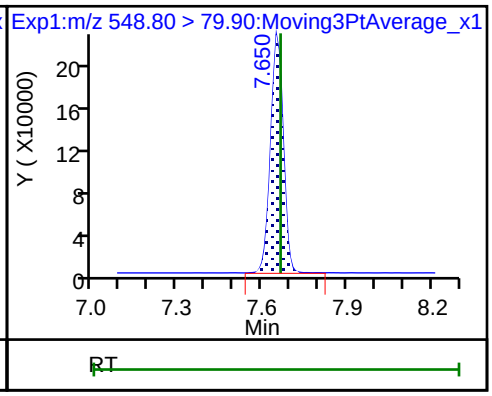
61 9ClFOS



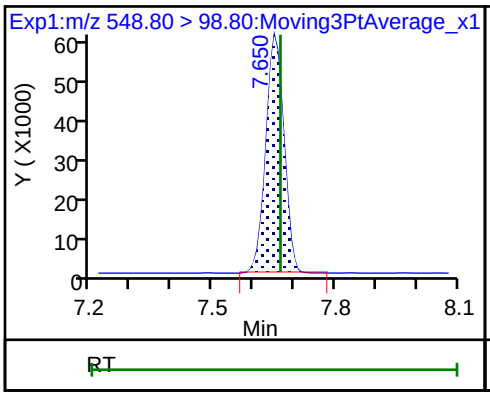
61 9ClFOS



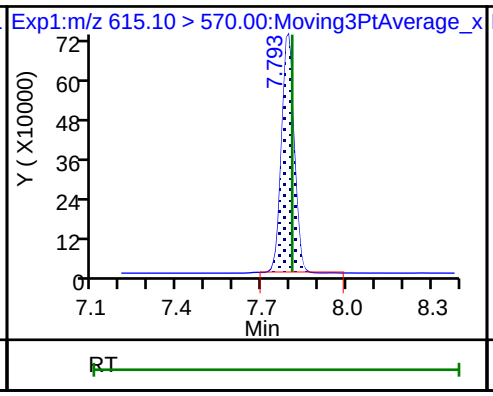
62 PFNS



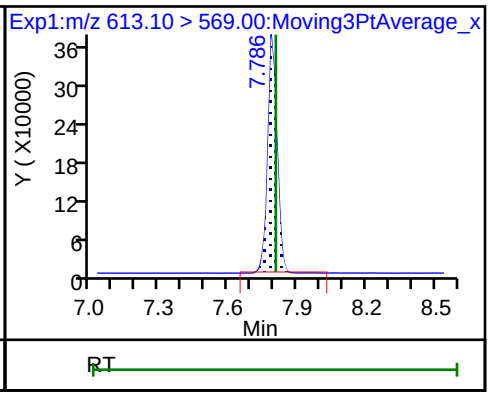
62 PFNS



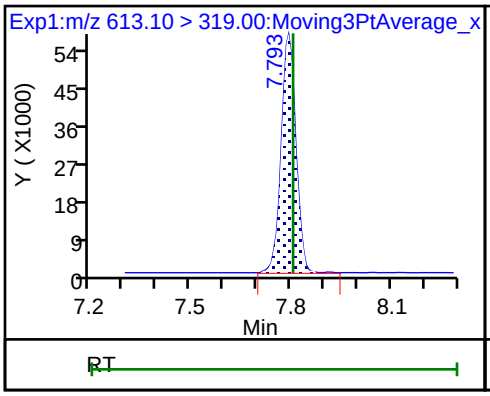
D 81 PFDoA



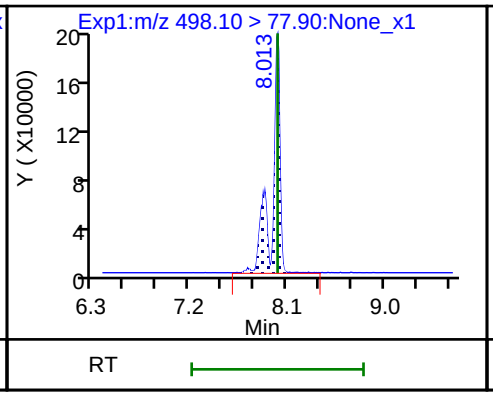
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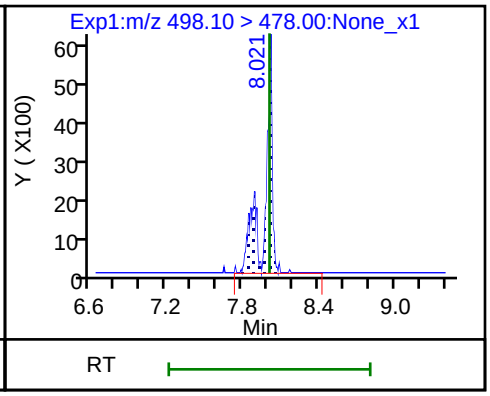
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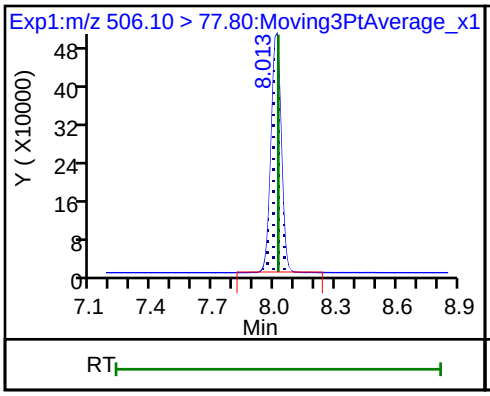
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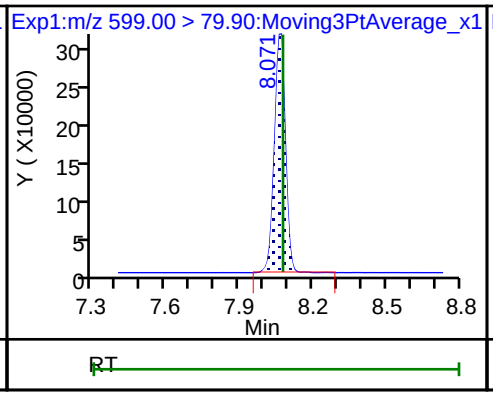
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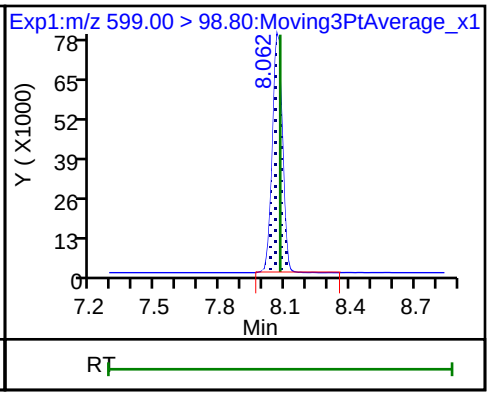
D 65 13C8 FOSA



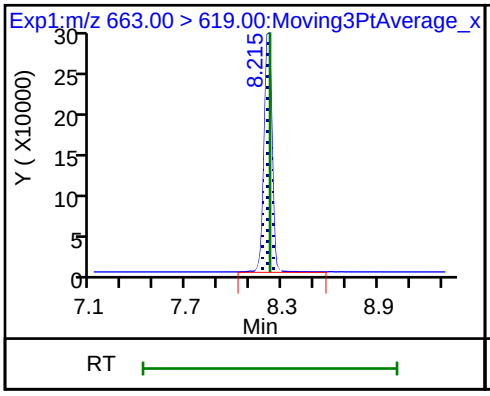
66 PFDS



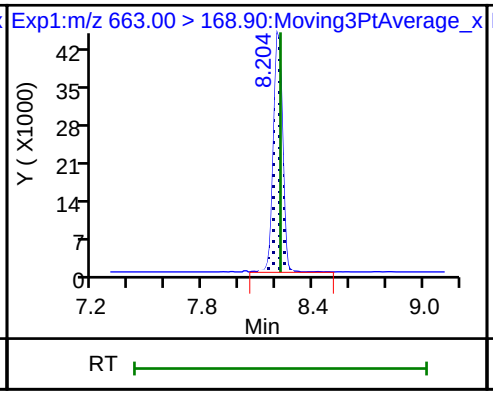
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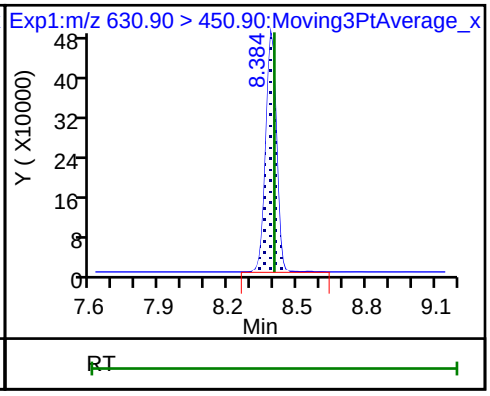
67 PFTrDA



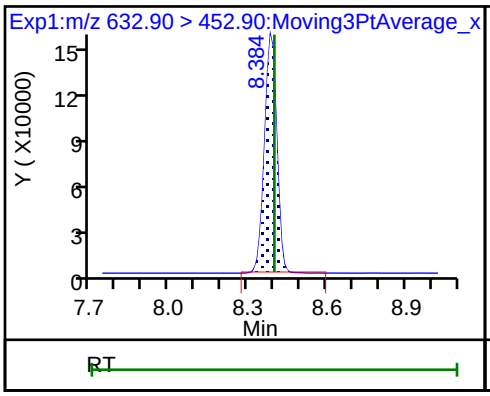
67 PFTrDA



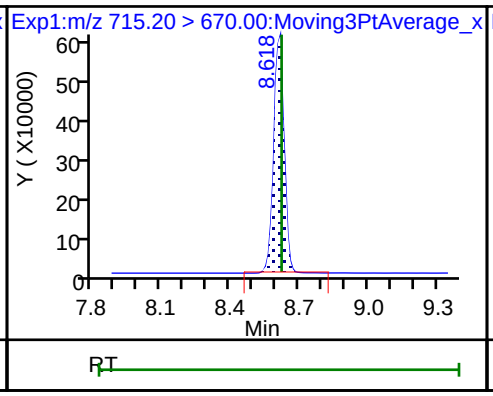
68 11ClFOS



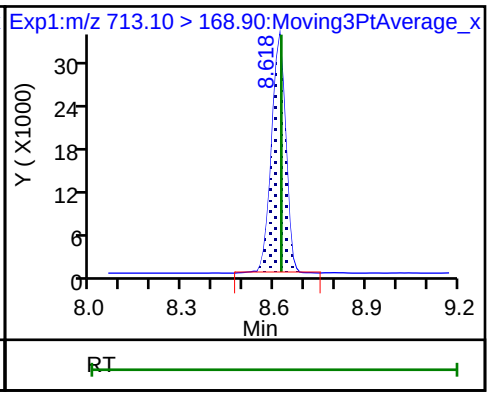
68 11ClFOS



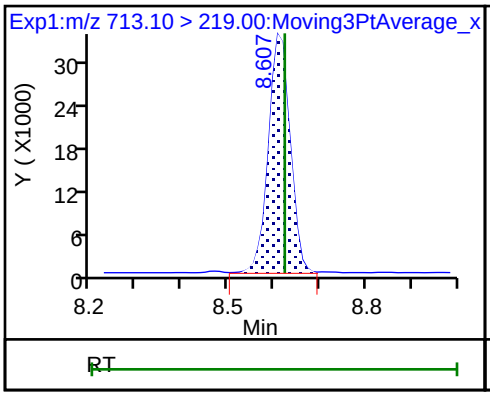
D 70 13C2 PFTeDA



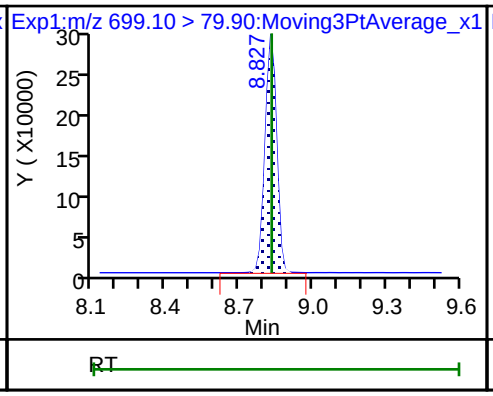
69 PFTeDA



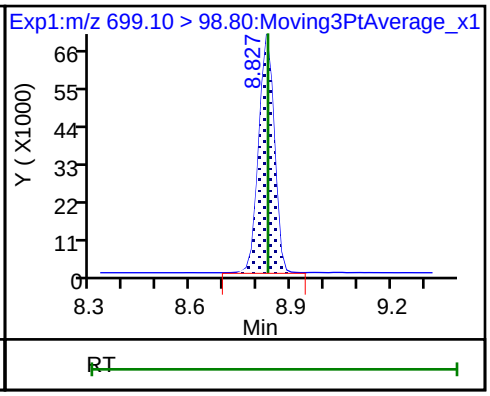
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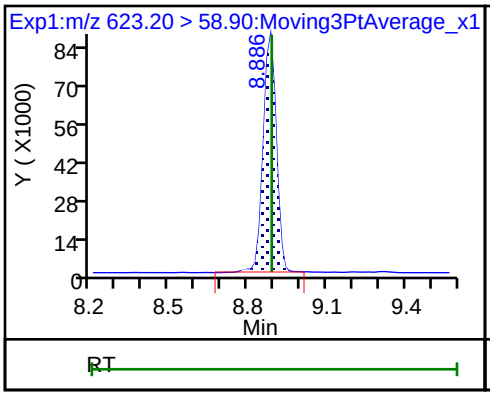
71 PFDoS



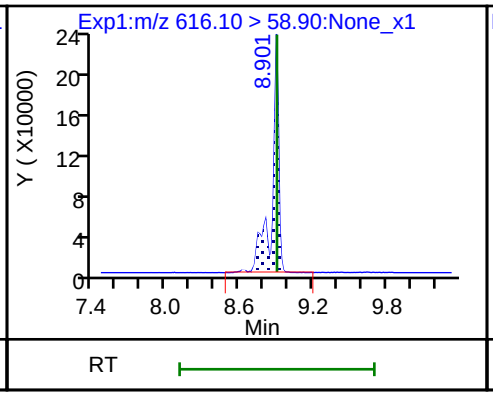
71 PFDoS



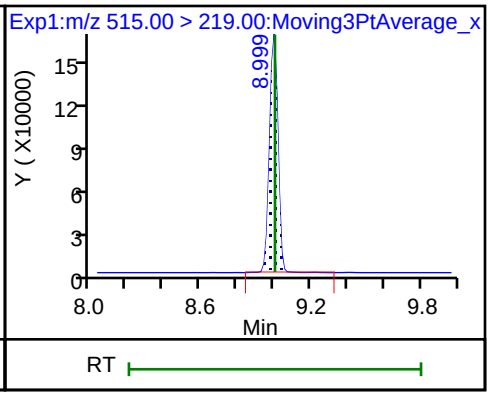
D 72 d7-N-Me-FOSE



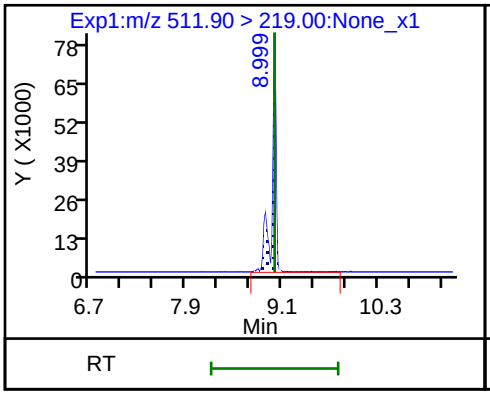
73 N-MeFOSE-M



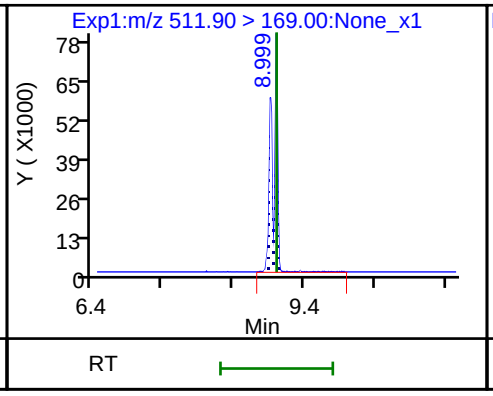
D 75 d3-NMePFOSA



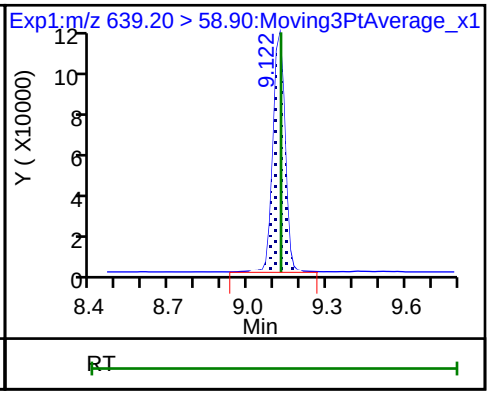
74 NMeFOSA



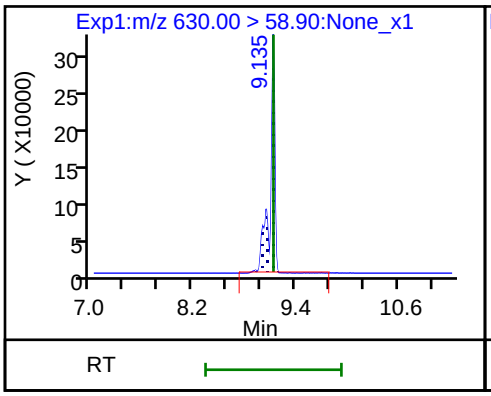
74 NMeFOSA



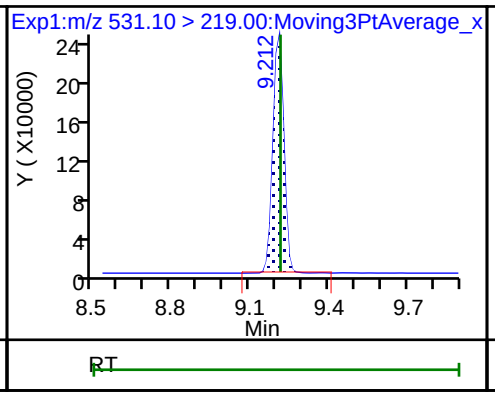
D 76 d9-N-EtFOSE



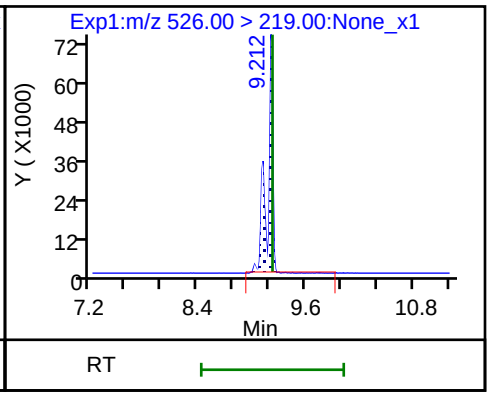
77 N-EtFOSE-M



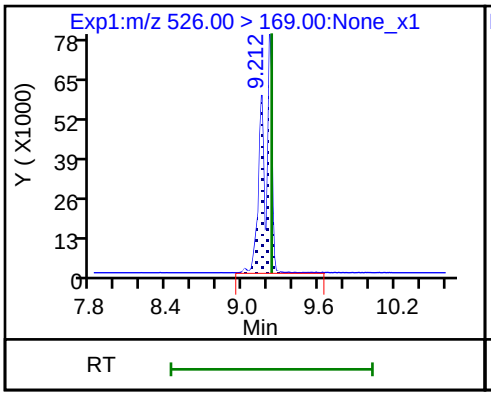
D 78 d5-NEtPFOSA



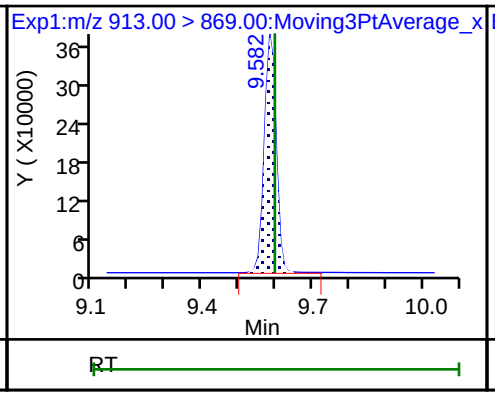
79 N-EtFOSA-M



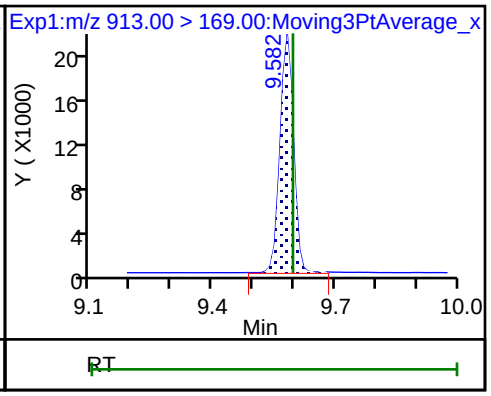
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-05.d
Lims ID: ICISAV CAL 5
Client ID:
Sample Type: ICISAV Calib Level: 5
Inject. Date: 04-Feb-2026 10:33:44 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: ICISAV CAL 5
Misc. Info.: Plate: 1 Rack: 1 410-0174606-005
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub12

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 13:00:19 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:27:42
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluoropropionic acid										
163.00 > 119.00	2.035	2.035	0.0	1.004	7886805	13.1		105	30634	
D 1 13C3PFPrA										
166.00 > 121.00	2.027	2.027	0.0	0.485	1313151	1.95		97.3	2629	
3 PFBA										
212.80 > 168.90	4.173	4.173	0.0	1.000	4228774	5.26		105	25242	
D 4 13C4-PFBA										
216.80 > 171.90	4.173	4.173	0.0	0.998	1749814	1.92		95.8	11819	
* 5 13C3PFBA										
216.00 > 172.00	4.180	4.180	0.0		1779913	2.00			3996	
6 PFMPA										
229.00 > 84.90	4.503	4.503	0.0	0.933	2303994	2.68		107	3728	
7 3:3 FTCA										
241.00 > 177.00	4.512	4.512	0.0	0.934	218460	5.29	Target=1.17	106	2616	
241.00 > 117.00	4.512	4.512	0.0	0.934	184930		1.18(0.58-1.75)	106	1161	
D 8 13C5 PFPeA										
268.30 > 223.00	4.829	4.829	0.0	0.913	1678287	1.90		94.9	5079	
9 PFPA										
263.00 > 219.00	4.829	4.829	0.0	1.000	2581136	2.58		103	3671	
10 PFMBA										
279.00 > 85.10	4.982	4.982	0.0	1.032	2940523	2.59		103	3226	
12 4:2FTS										
327.10 > 307.00	5.099	5.099	0.0	1.000	1924756	5.11	Target=1.69	109	6338	
327.10 > 80.90	5.099	5.099	0.0	1.000	1117481		1.72(0.85-2.54)	109	1403	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.099	5.099	0.0	0.801	955447	4.38		93.5	3537	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.247	5.247	0.0	0.994	663089	2.59	Target=1.47	104	3244	
295.00 > 84.90	5.247	5.247	0.0	0.994	458661		1.45(0.74-2.21)	104	2961	
D 15 13C5 PFHxA										
318.00 > 273.00	5.280	5.280	0.0	0.998	2050674	1.91		95.4	3472	
* 16 13C2 PFHxA										
315.10 > 270.00	5.290	5.290	0.0		5070062	5.00			6217	
17 PFHxA										
313.00 > 269.00	5.290	5.290	0.0	1.002	2275267	2.57	Target=10.33	103	3291	
313.00 > 118.90	5.290	5.290	0.0	1.002	226093		10.06(5.17-15.50)	103	1228	
18 5:3 FTCA										
341.00 > 237.10	5.365	5.365	0.0	1.016	1586122	12.8	Target=0.77	103	1963	
341.00 > 217.00	5.365	5.365	0.0	1.016	2025849		0.78(0.38-1.15)	103	3007	
D 19 13C3 PFBS										
302.10 > 79.90	5.426	5.426	0.0	0.852	2191444	1.87		101	4961	
20 PFBS										
298.70 > 79.90	5.426	5.426	0.0	1.000	2356827	2.24	Target=3.28	101	6425	
298.70 > 98.80	5.426	5.426	0.0	1.000	749868		3.14(1.64-4.92)	101	3953	
23 HFPO-DA										
284.90 > 168.90	5.474	5.474	0.0	1.000	1520605	2.04	Target=2.47	109	3984	
284.90 > 184.90	5.474	5.474	0.0	1.000	553929		2.75(1.23-3.70)	109	3445	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.474	5.474	0.0	1.035	1392637	1.90		95.2	4792	
21 FBSA										
297.90 > 78.00	5.517	5.517	0.0	1.017	2361942	2.53		101	2086	
26 PFEESA										
314.80 > 134.90	5.667	5.667	0.0	1.073	5748943	2.35	Target=12.38	105	8014	
314.80 > 82.90	5.667	5.667	0.0	1.073	489260		11.75(6.19-18.57)	105	2414	
27 PFHpA										
363.10 > 319.00	5.709	5.709	0.0	1.000	2139606	2.53	Target=1.90	101	3944	
363.10 > 169.00	5.709	5.709	0.0	1.000	1141555		1.87(0.95-2.85)	101	5150	
D 28 13C4 PFHpA										
367.10 > 322.00	5.709	5.709	0.0	1.079	2010853	1.92		95.9	4183	
29 ADONA										
376.90 > 250.90	5.865	5.865	0.0	1.071	5837054	2.40	Target=2.21	102	4294	
376.90 > 84.80	5.876	5.865	0.011	1.073	2740399		2.13(1.10-3.31)	102	3642	
31 6:2FTS										
427.10 > 407.00	5.918	5.918	0.0	1.000	1525073	4.88	Target=1.66	103	6106	
427.10 > 80.90	5.918	5.918	0.0	1.000	934425		1.63(0.83-2.48)	103	1932	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.918	5.918	0.0	0.929	793696	4.31		90.5	3745	
30 PFPeS										
349.10 > 79.90	5.918	5.918	0.0	0.929	2663288	2.43	Target=3.14	103	9984	
349.10 > 98.90	5.918	5.918	0.0	0.929	821223		3.24(1.57-4.71)	103	3662	
33 BTS										
280.00 > 147.00	6.091	6.091	0.0	0.957	5213996	2.53		103	7035	
* 34 13C4 PFOA										
417.10 > 372.00	6.121	6.121	0.0		6811681	5.00			4891	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.121	6.121	0.0	1.000	2820480	2.03		102	5335	
36 PFOA										
413.00 > 369.00	6.121	6.121	0.0	1.000	2140874	2.45	Target=1.85	97.9	2074	
413.00 > 169.00	6.121	6.121	0.0	1.000	1118281		1.91(0.93-2.78)	97.9	1252	
37 7:3 FTCA										
441.00 > 316.90	6.212	6.212	0.0	1.177	789621	13.3	Target=0.30	107	1934	
441.00 > 336.90	6.212	6.212	0.0	1.177	2537412		0.31(0.15-0.45)	107	4173	
D 38 13C3 PFHxS										
402.10 > 79.90	6.367	6.367	0.0	1.000	1798668	1.82		95.9	2786	
* 39 18O2 PFHxS										
403.00 > 83.90	6.367	6.367	0.0		1741970	1.90			8404	
40 PFHxS										
398.70 > 79.90	6.357	6.357	0.0	0.998	1684474	2.30	Target=3.16	101	3006	
398.70 > 98.90	6.367	6.357	0.010	1.000	548947		3.07(1.58-4.75)	101	948	
D 41 13C9 PFNA										
472.10 > 427.00	6.535	6.535	0.0	1.000	1974145	1.87		93.5	3679	
43 PFNA										
463.00 > 419.00	6.546	6.546	0.0	1.002	2241289	2.61	Target=2.07	105	2626	
463.00 > 219.00	6.535	6.546	-0.011	1.000	1113899		2.01(1.03-3.11)	105	1963	
* 42 13C5 PFNA										
468.00 > 423.00	6.535	6.535	0.0		2040218	2.00			3051	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.725	6.725	0.0	1.056	866472	4.55		94.9	2445	
45 8:2FTS										
527.10 > 507.00	6.725	6.725	0.0	1.000	1544377	4.92	Target=1.94	103	4491	
527.10 > 80.80	6.725	6.725	0.0	1.000	777816		1.99(0.97-2.91)	103	1971	
46 PFECHS										
461.00 > 381.00	6.763	6.763	0.0	1.062	518545	2.43	Target=0.18	105	3909	
461.00 > 99.00	6.772	6.763	0.009	1.064	2934412		0.18(0.09-0.26)	105	10463	
47 PFHpS										
449.00 > 79.90	6.808	6.808	0.0	0.942	2694401	2.58	Target=3.74	108	5237	
449.00 > 98.80	6.808	6.808	0.0	0.942	696008		3.87(1.87-5.60)	108	2227	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.888	6.888	0.0	0.953	1926542	4.78		95.5	4160	
50 NMeFOSAA										
570.10 > 419.00	6.897	6.897	0.0	1.001	940031	2.51	Target=1.81	100	426	
570.10 > 483.00	6.897	6.897	0.0	1.001	541070		1.74(0.91-2.72)	100	1050	
48 FHxSA										
397.90 > 78.00	6.916	6.916	0.0	1.086	3199563	2.59		103	3217	
53 PFDA										
512.90 > 469.00	6.957	6.957	0.0	1.000	1976697	2.48	Target=3.70	99.0	5422	
512.90 > 219.00	6.967	6.957	0.010	1.001	586283		3.37(1.85-5.54)	99.0	2412	
D 52 13C6 PFDA										
519.10 > 474.10	6.957	6.957	0.0	1.000	2173026	1.79		89.4	4287	
* 51 13C2 PFDA										
515.10 > 470.10	6.957	6.957	0.0		2465989	2.00			4722	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.068	7.068	0.0	0.978	1564224	4.49		89.8	4079	
55 NEtFOSAA										
584.20 > 419.10	7.088	7.088	0.0	1.003	740306	2.70	Target=1.29	108	980	
584.20 > 526.00	7.078	7.088	-0.010	1.001	568432		1.30(0.65-1.94)	108	824	
D 56 13C8 PFOS										
507.10 > 79.90	7.230	7.230	0.0	1.000	1599873	1.84		95.9	6273	
* 57 13C4 PFOS										
502.80 > 79.90	7.230	7.230	0.0		1499056	1.92			6901	
58 PFOS										
498.90 > 79.90	7.239	7.239	0.0	1.001	2745457	2.43	Target=4.49	104	5627	
498.90 > 98.80	7.230	7.239	-0.009	1.000	596397		4.60(2.24-6.73)	104	1404	
D 59 13C7 PFUnA										
570.00 > 525.10	7.374	7.374	0.0	1.060	2025991	1.67		83.6	4860	
60 PFUnA										
563.10 > 519.00	7.384	7.384	0.0	1.001	2003387	2.82	Target=5.00	113	4900	
563.10 > 269.10	7.374	7.384	-0.010	1.000	406040		4.93(2.50-7.49)	113	1713	
61 9ClFOS										
530.80 > 351.00	7.560	7.560	0.0	1.046	5767097	2.51	Target=3.04	107	7465	
532.80 > 353.00	7.551	7.560	-0.009	1.044	1847979		3.12(1.52-4.56)	107	4771	
62 PFNS										
548.80 > 79.90	7.653	7.653	0.0	1.059	1759491	2.46	Target=3.71	102	6372	
548.80 > 98.80	7.653	7.653	0.0	1.059	501732		3.51(1.85-5.56)	102	2993	
D 81 PFDoA										
615.10 > 570.00	7.797	7.797	0.0	1.121	2002866	1.72		86.0	3262	
63 PFDoA										
613.10 > 569.00	7.797	7.797	0.0		2563500	2.74	Target=5.74	110	4857	
613.10 > 319.00	7.797	7.797	0.0		432556		5.93(2.87-8.61)	110	2048	
64 PFOSA										
498.10 > 77.90	8.008	8.008	0.0	1.000	2351705	2.56	Target=41.30	102	4839	
498.10 > 478.00	8.008	8.008	0.0	1.000	57298		41.04(20.65-61.94)	102	85.0	
D 65 13C8 FOSA										
506.10 > 77.80	8.008	8.008	0.0	1.108	1662121	1.85		92.5	5586	
66 PFDS										
599.00 > 79.90	8.066	8.066	0.0	1.116	2256246	2.37	Target=3.87	98.4	8965	
599.00 > 98.80	8.066	8.066	0.0	1.116	591745		3.81(1.93-5.80)	98.4	3204	
67 PFTrDA										
663.00 > 619.00	8.208	8.208	0.0	0.953	2132206	2.39	Target=6.63	95.6	2454	
663.00 > 168.90	8.208	8.208	0.0	0.953	343653		6.20(3.32-9.95)	95.6	1231	
68 11ClFOS										
630.90 > 450.90	8.387	8.387	0.0	1.160	3725787	2.35	Target=3.04	99.7	8141	
632.90 > 452.90	8.387	8.387	0.0	1.160	1226523		3.04(1.52-4.56)	99.7	3138	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.610	8.610	0.0	1.238	1884769	1.80		90.0	3781	
69 PFTeDA										
713.10 > 168.90	8.610	8.610	0.0	1.000	282140	2.67	Target=1.02	107	1661	
713.10 > 219.00	8.610	8.610	0.0	1.000	277109		1.02(0.51-1.53)	107	1010	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.830	8.830	0.0	1.221	2301931	2.46	Target=4.07	101	3409	
699.10 > 98.80	8.830	8.830	0.0	1.221	570468		4.04(2.04-6.11)	101	2806	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.889	8.889	0.0	1.229	337744	4.68		93.6	957	
73 N-MeFOSE-M										
616.10 > 58.90	8.903	8.903	0.0	1.002	2241983	13.0		104	9389	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.988	8.988	0.0	1.243	554921	1.95		97.4	2279	
74 NMeFOSA										
511.90 > 219.00	9.002	9.002	0.0	1.002	669041	2.54	Target=0.72	102	2163	
511.90 > 169.00	9.002	9.002	0.0	1.002	932335		0.72(0.36-1.07)	102	1856	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.111	9.111	0.0	1.260	381993	4.91		98.3	817	
77 N-EtFOSE-M										
630.00 > 58.90	9.138	9.138	0.0	1.003	3109395	12.3		98.6	4869	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.202	9.202	0.0	1.273	680436	1.86		92.9	2292	
79 N-EtFOSA-M										
526.00 > 219.00	9.215	9.215	0.0	1.001	778316	2.63	Target=0.87	105	2761	
526.00 > 169.00	9.215	9.215	0.0	1.001	891494		0.87(0.43-1.30)	105	2081	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.574	9.574	0.0	1.112	2219554	2.56	Target=17.07	102	18687	
913.00 > 169.00	9.574	9.574	0.0	1.112	130445		17.02(8.53-25.60)	102	5683	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL5_00038 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 13:00:21 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-05.d

Injection Date: 04-Feb-2026 10:33:44 Instrument ID: 30577

Lims ID: ICISAV CAL 5

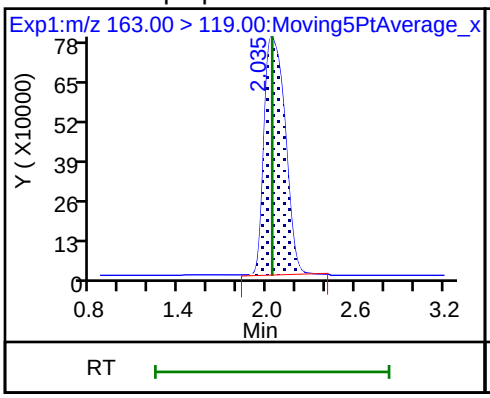
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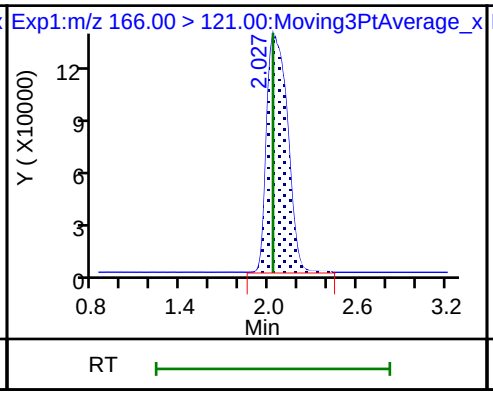
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Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

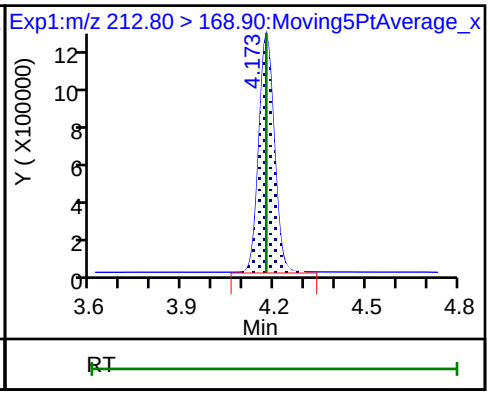
2 Perfluoropropionic acid



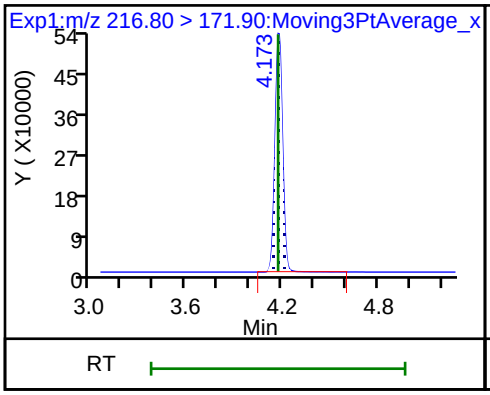
D 1 13C3PFPrA



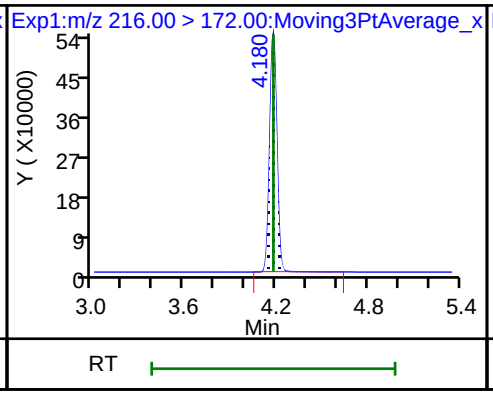
3 PFBA



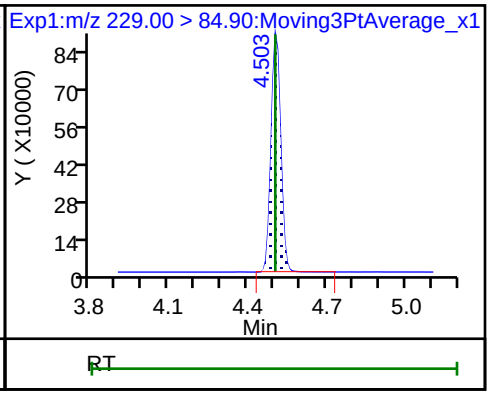
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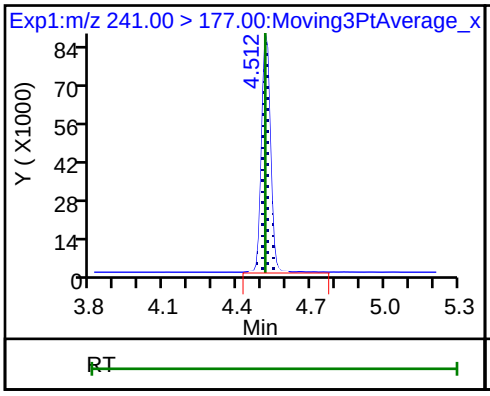
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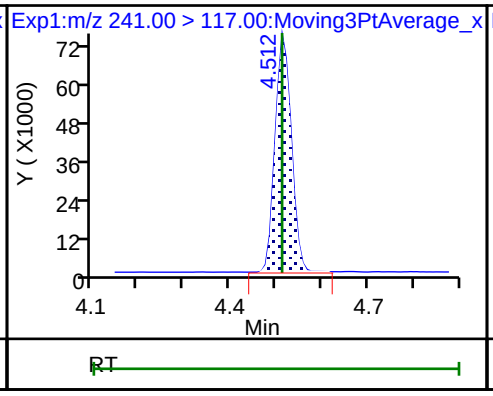
6 PFMPA



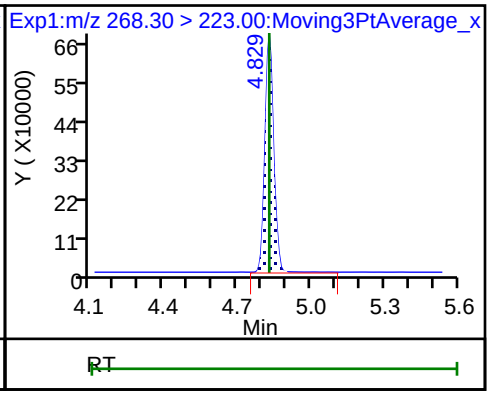
7 3:3 FTCA



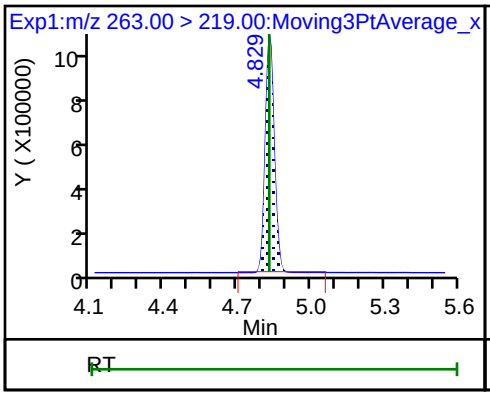
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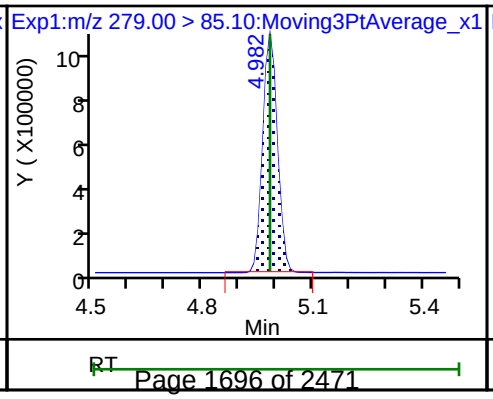
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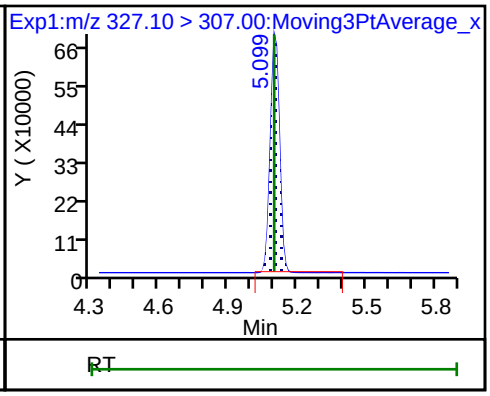
9 PFPA



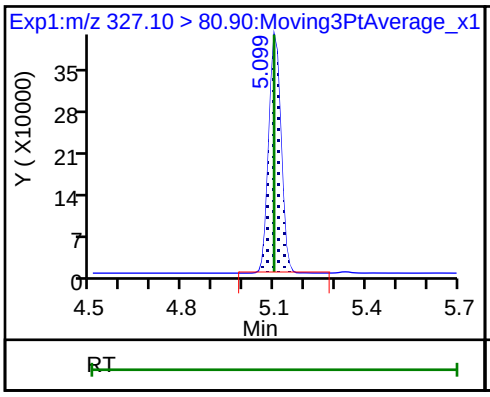
10 PFMBA



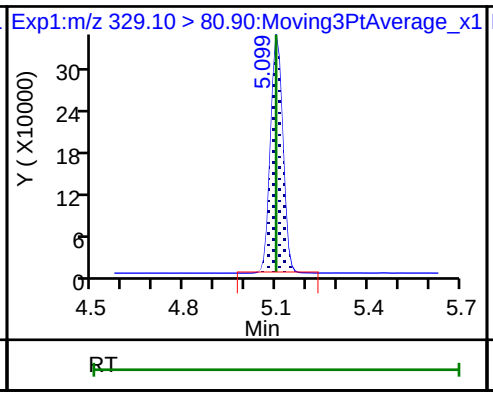
12 4:2FTS



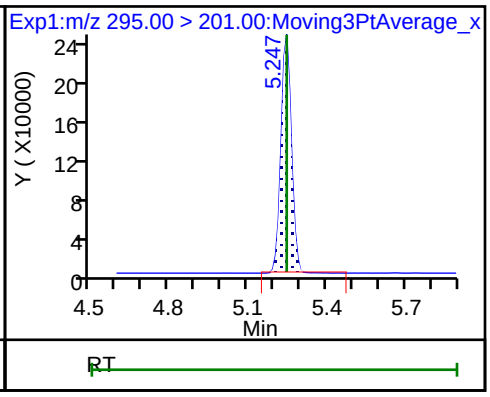
12 4:2FTS



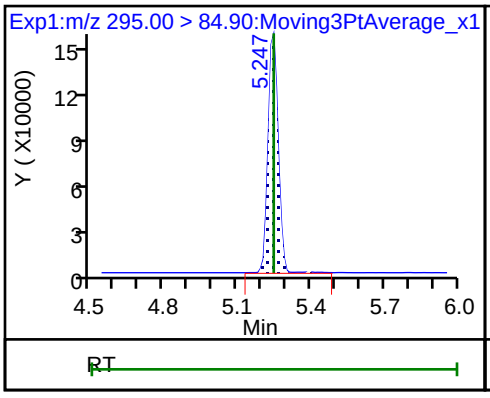
D 11 13C2-4:2FTS



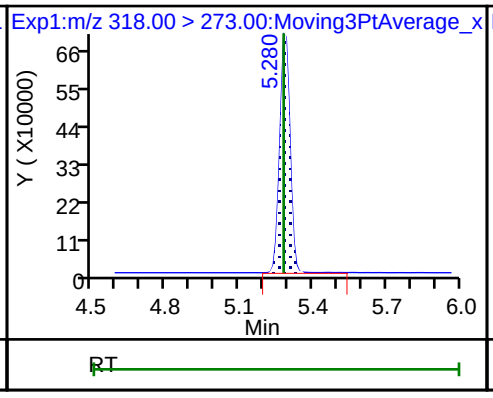
14 NFDHA



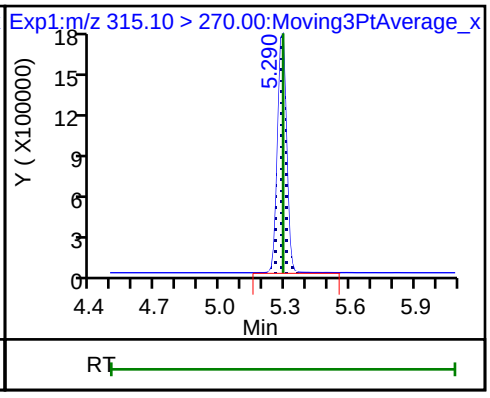
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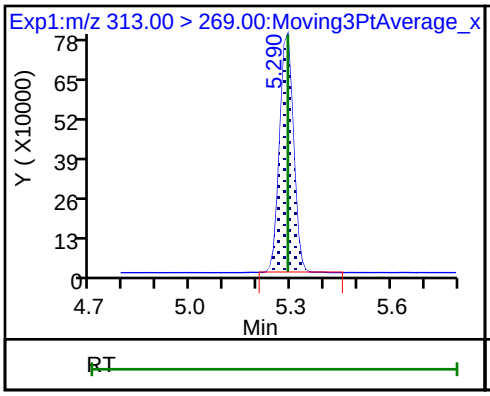
D 15 13C5 PFHxA



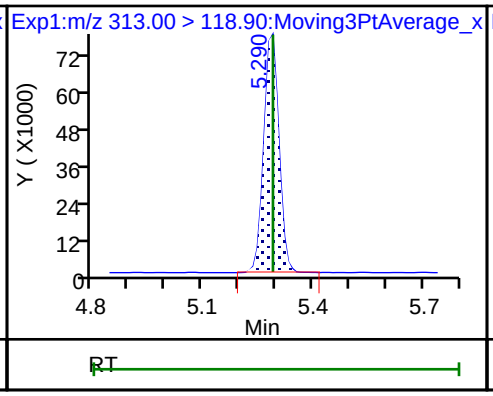
* 16 13C2 PFHxA



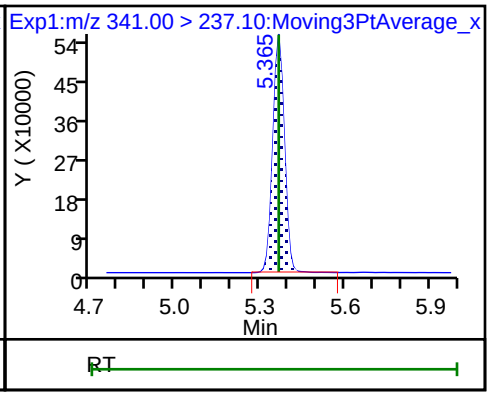
17 PFHxA



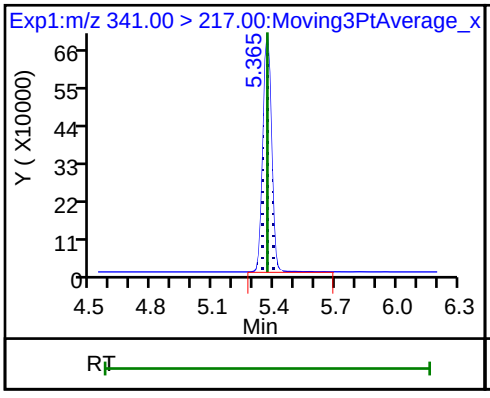
17 PFHxA



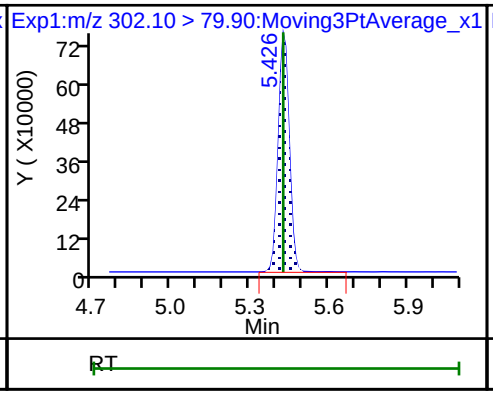
18 5:3 FTCA



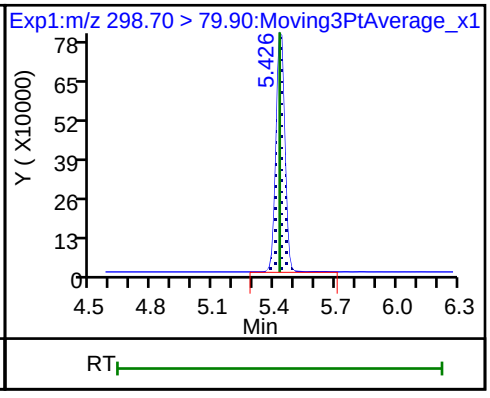
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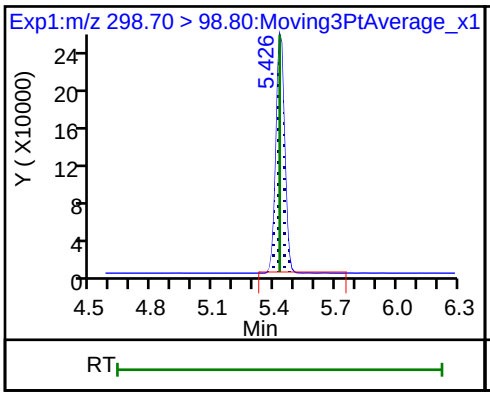
D 19 13C3 PFBS



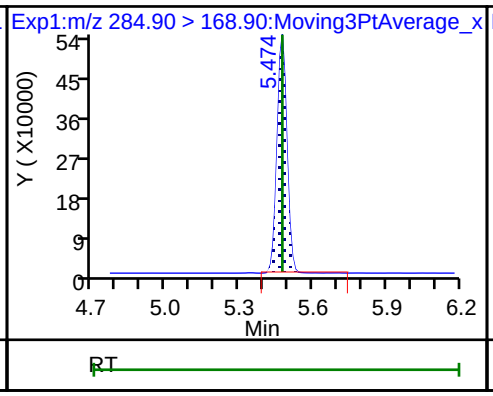
20 PFBS



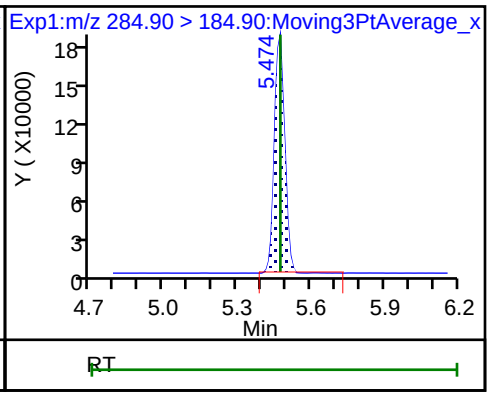
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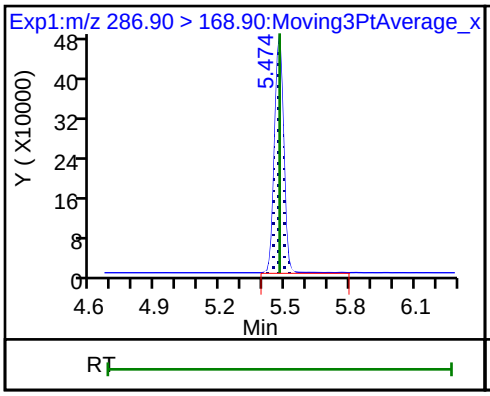
23 HFPO-DA



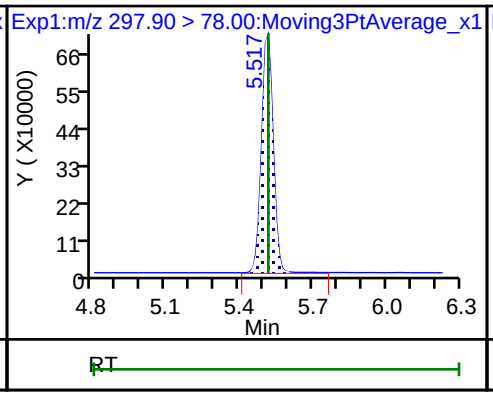
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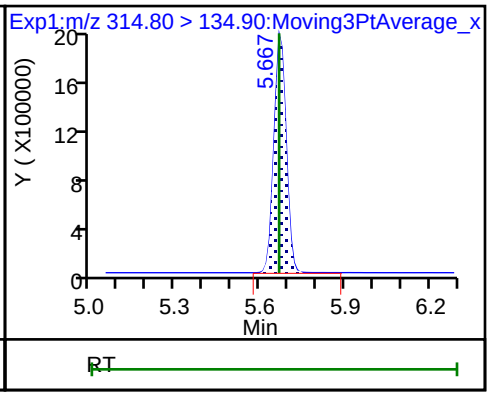
D 22 13C3 HFPO-DA



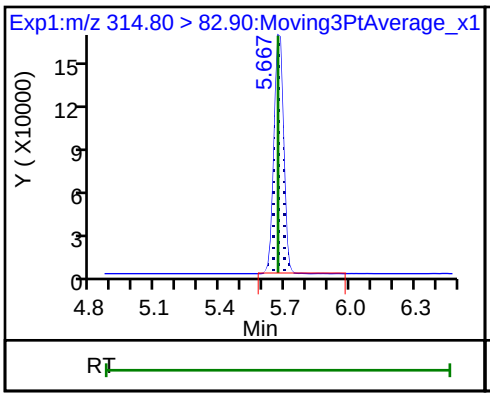
21 FBSA



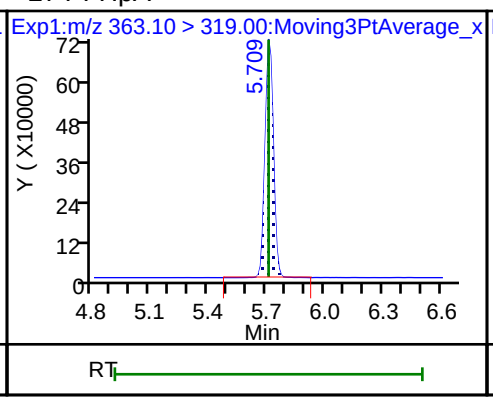
26 PFEESA



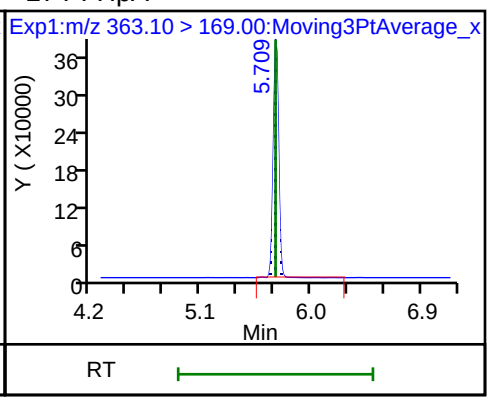
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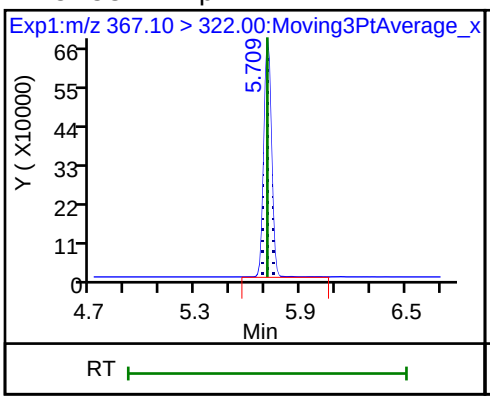
27 PFHpA



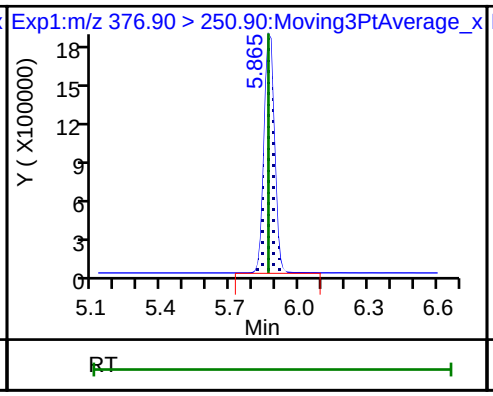
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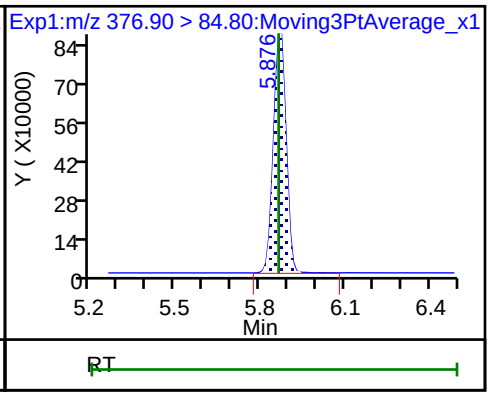
D 28 13C4 PFHpA



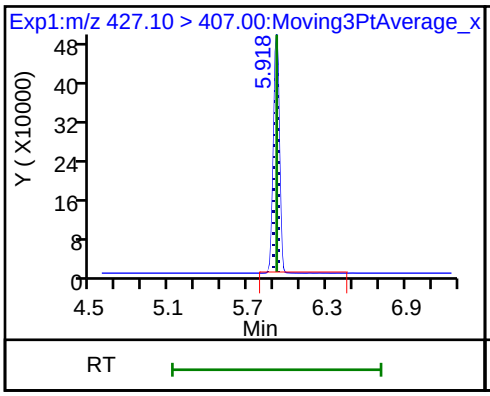
29 ADONA



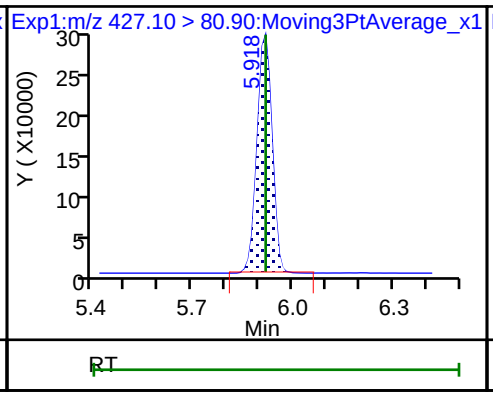
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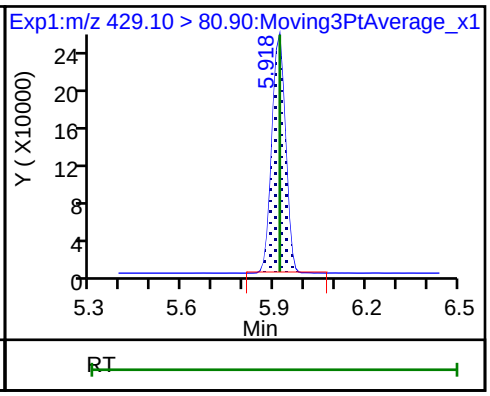
31 6:2FTS



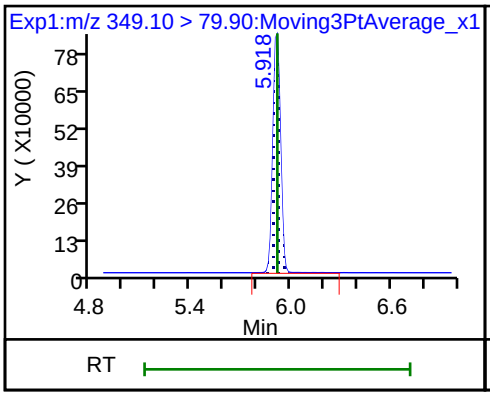
31 6:2FTS



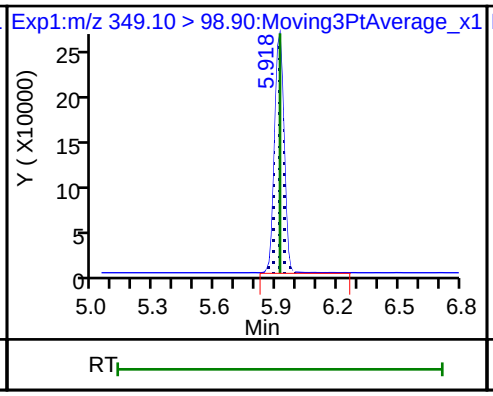
D 32 13C2-6:2FTS



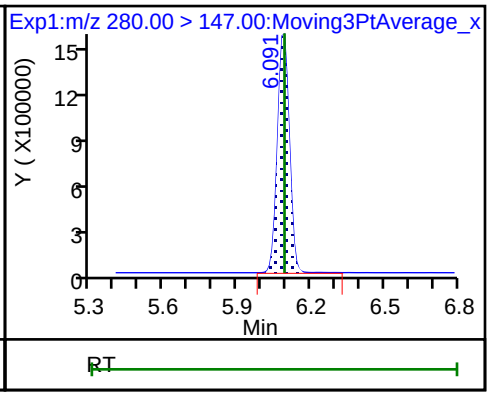
30 PFPeS



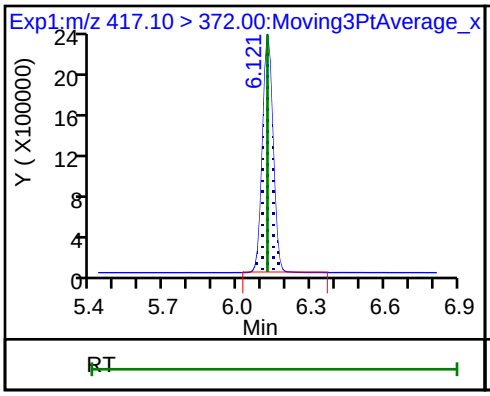
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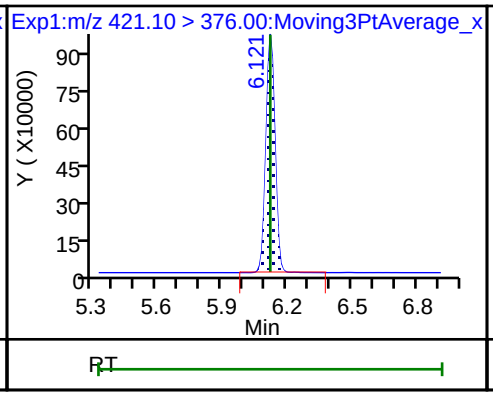
33 BTS



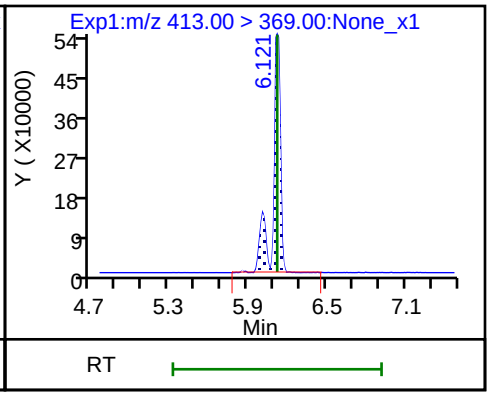
* 34 13C4 PFOA



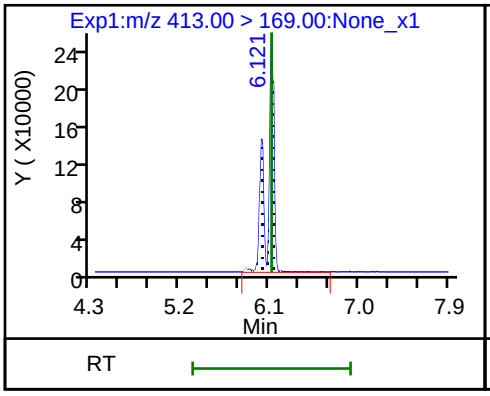
D 35 13C8 PFOA



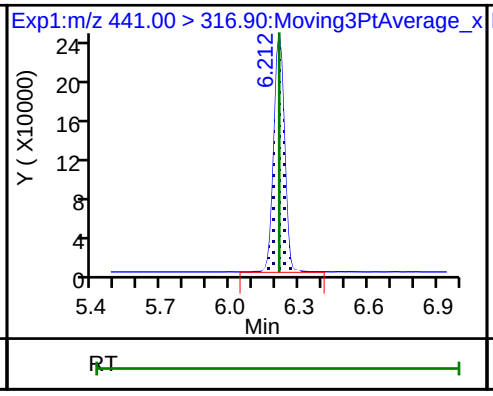
36 PFOA



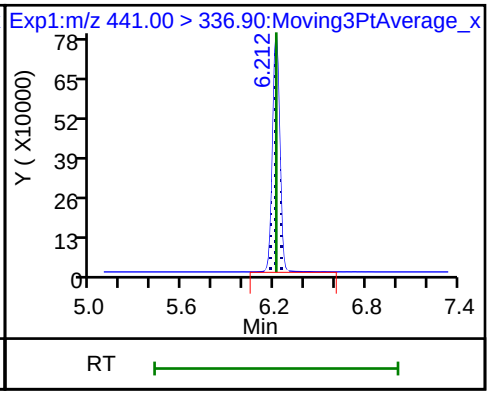
36 PFOA



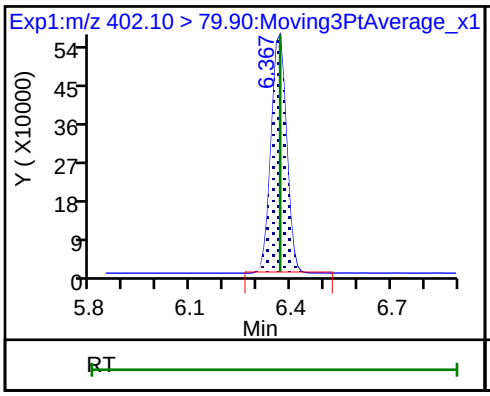
37 7:3 FTCA



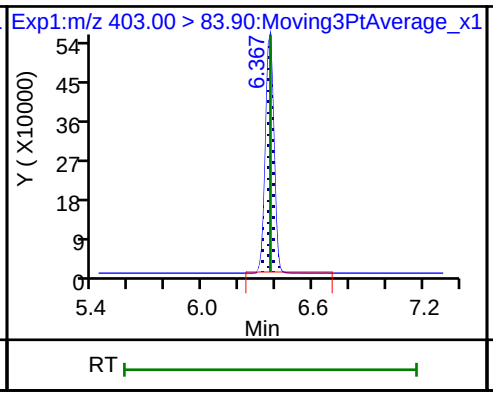
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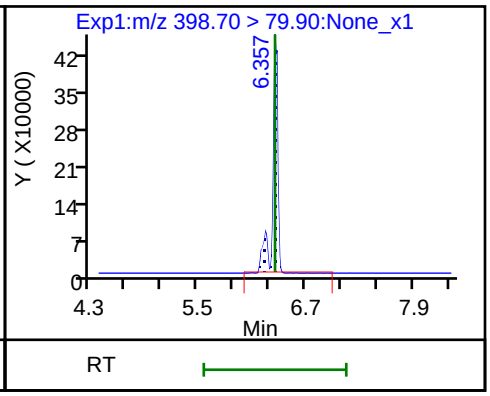
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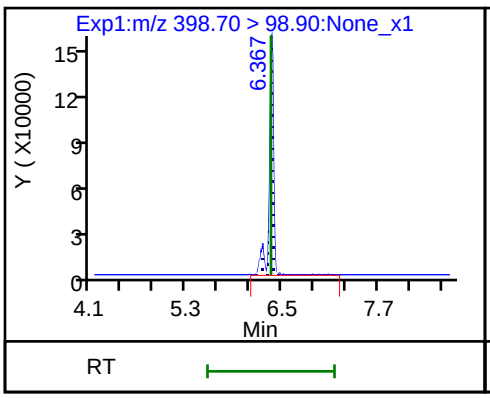
* 39 18O2 PFHxS



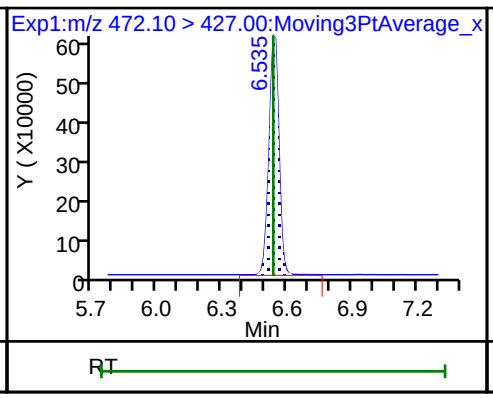
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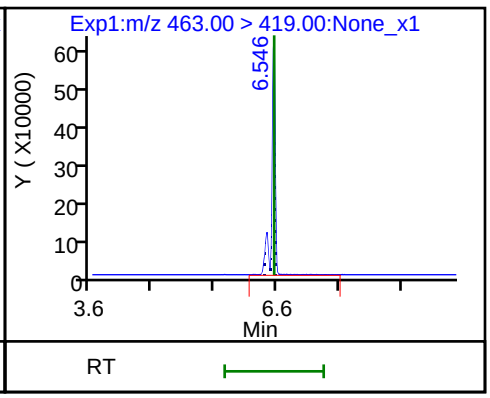
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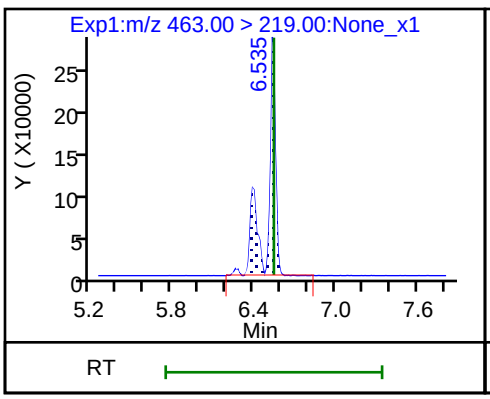
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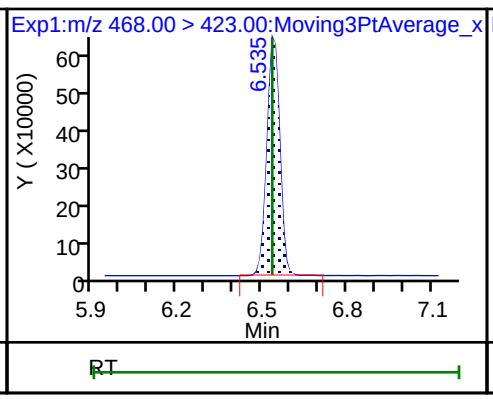
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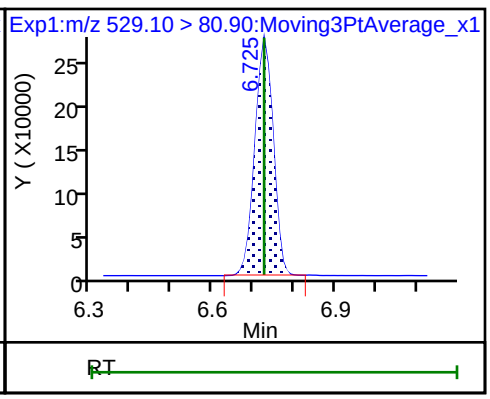
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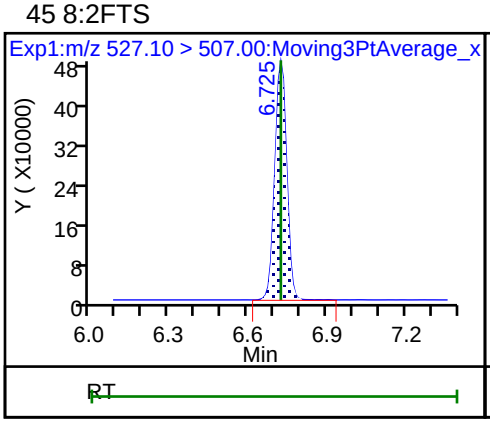
* 42 13C5 PFNA



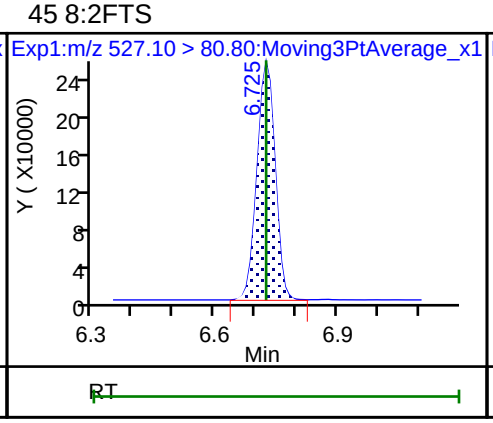
D 44 13C2-8:2FTS



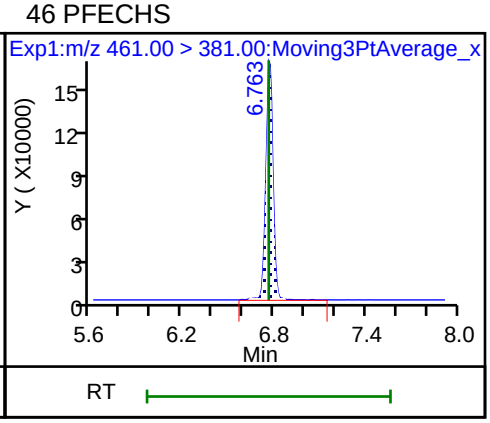
45 8:2FTS



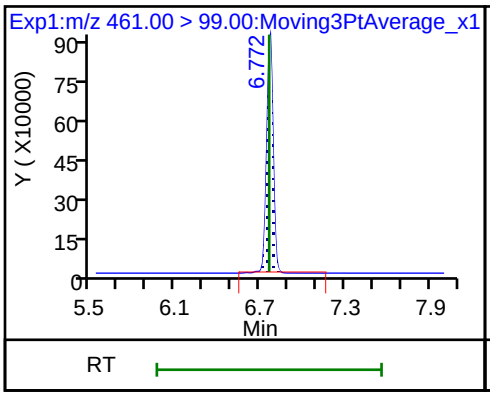
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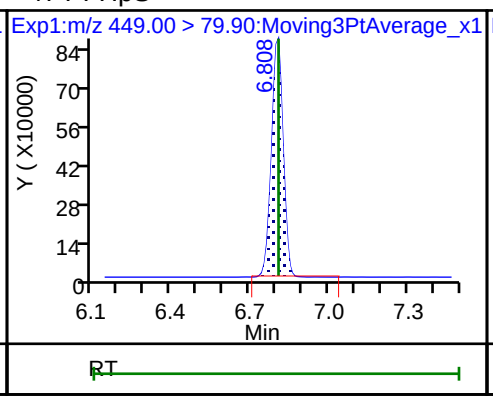
46 PFECHS



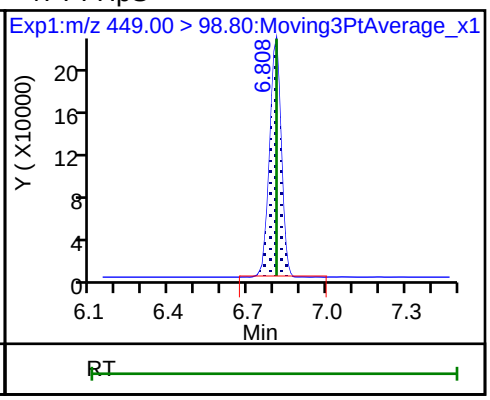
46 PFECHS



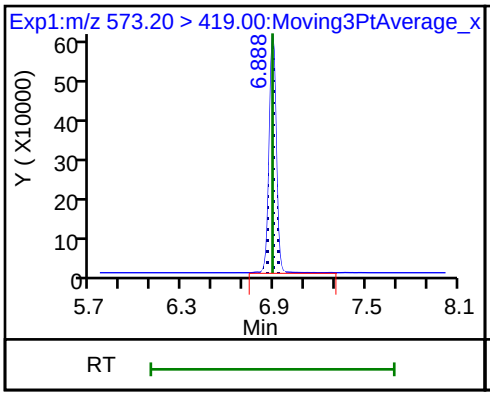
47 PFHpS



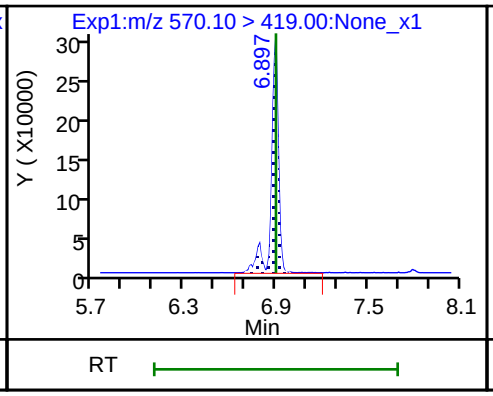
47 PFHpS



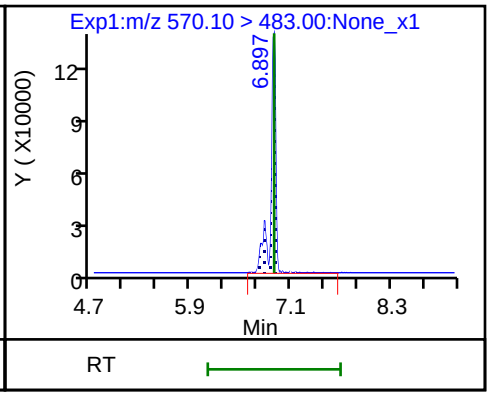
D 49 d3-NMeFOSAA



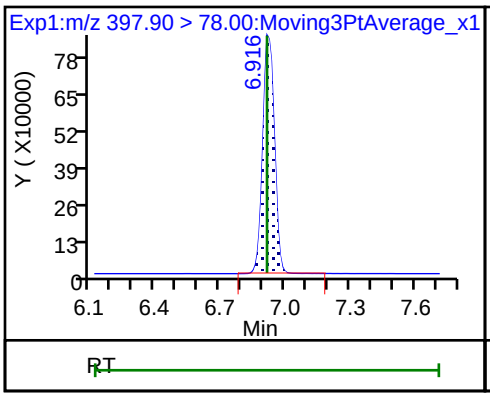
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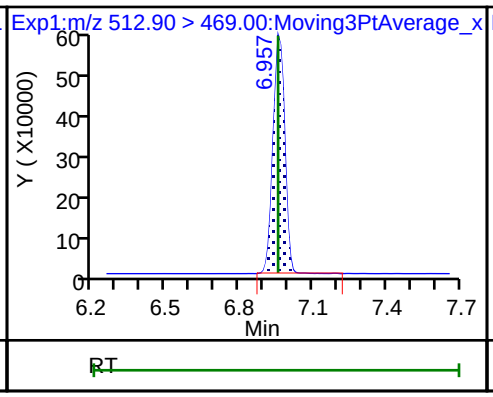
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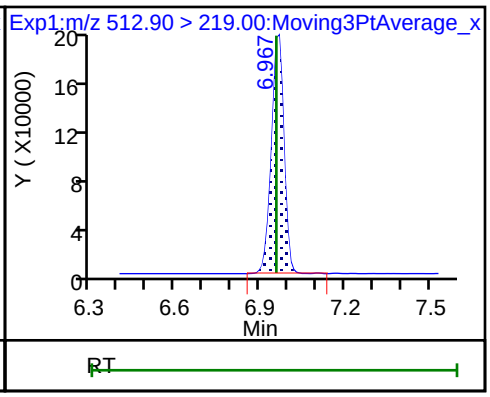
48 FHxSA



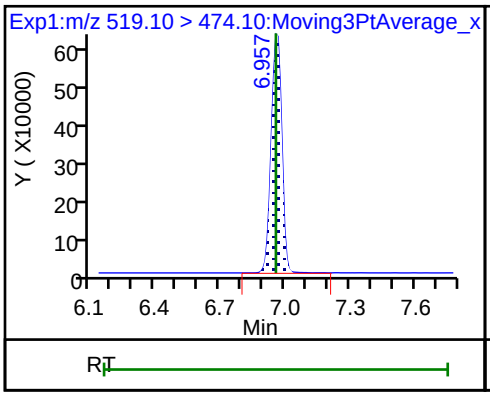
53 PFDA



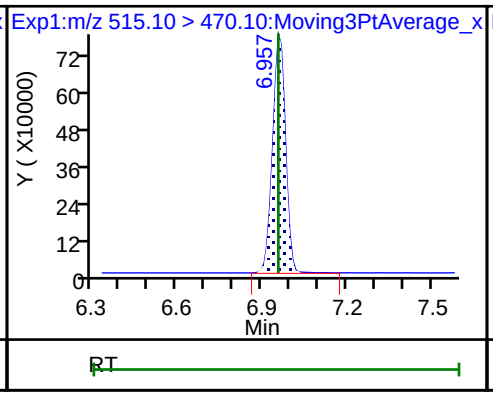
53 PFDA



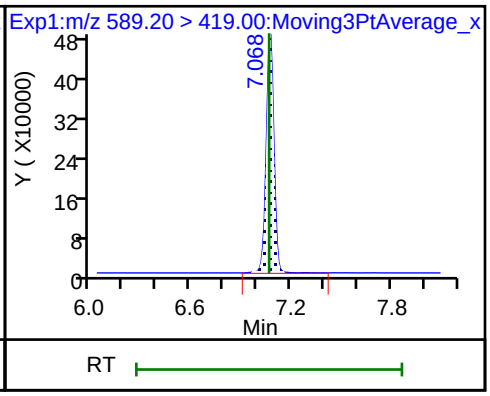
D 52 13C6 PFDA



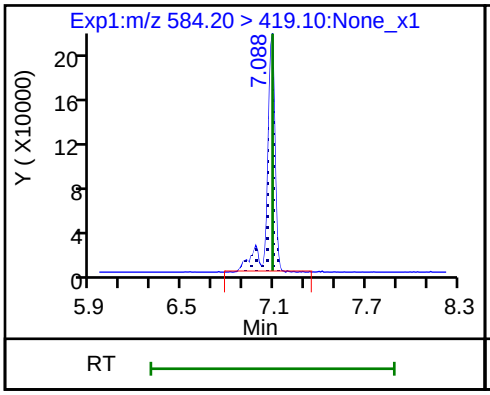
* 51 13C2 PFDA



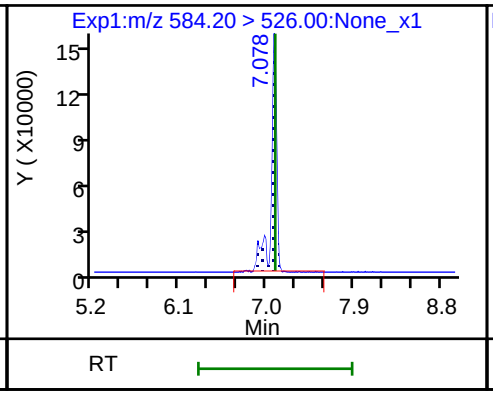
D 54 d5-NEtFOSAA



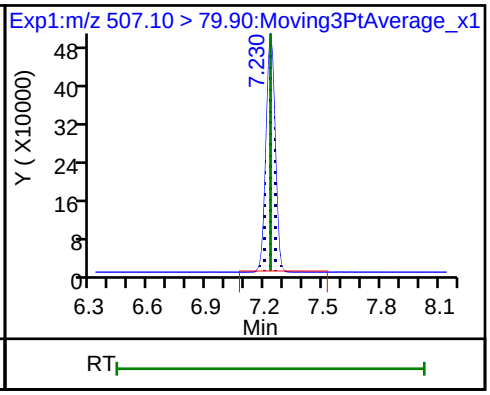
55 NEtFOSAA



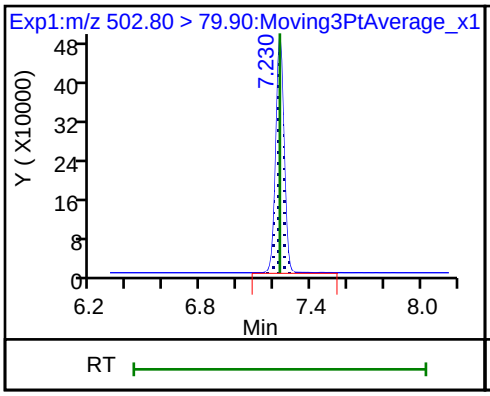
55 NEtFOSAA



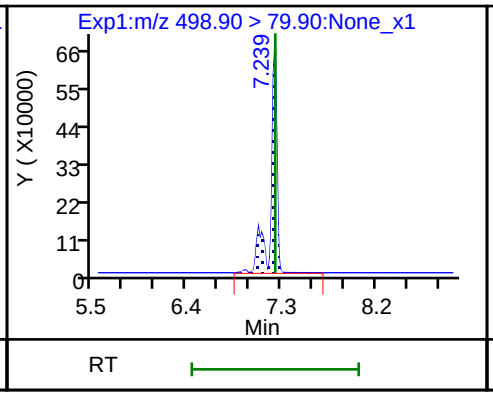
D 56 13C8 PFOS



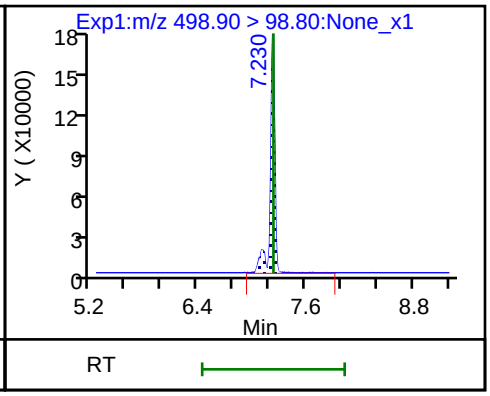
* 57 13C4 PFOS



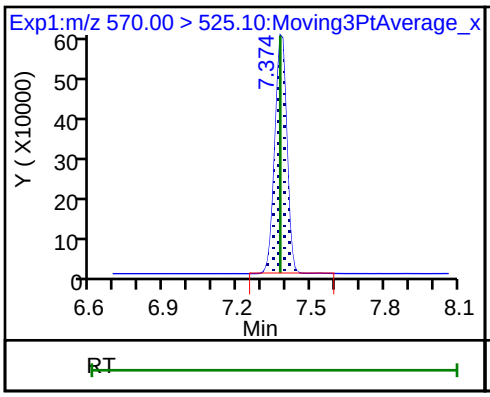
58 PFOS



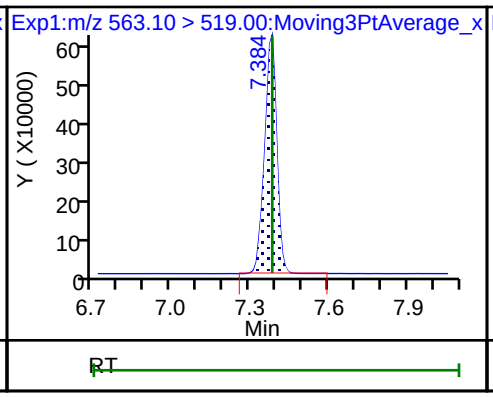
58 PFOS



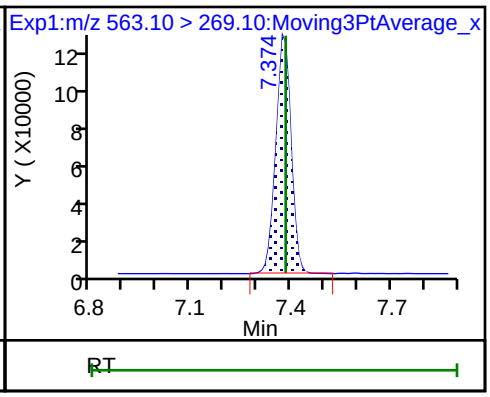
D 59 13C7 PFUnA



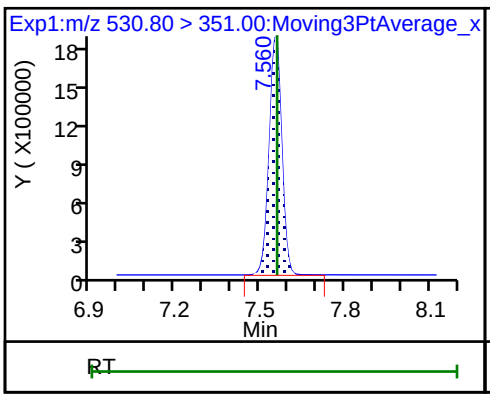
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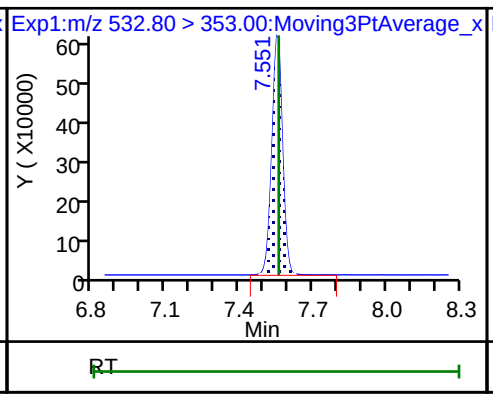
60 PFUnA



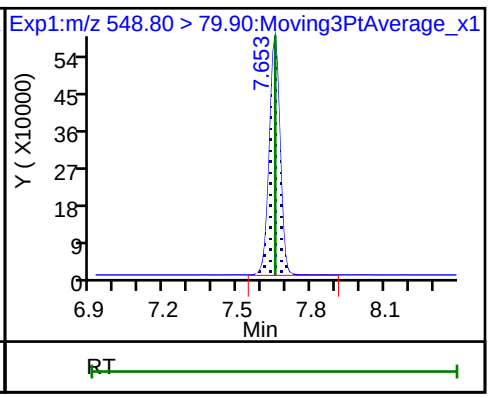
61 9ClFOS



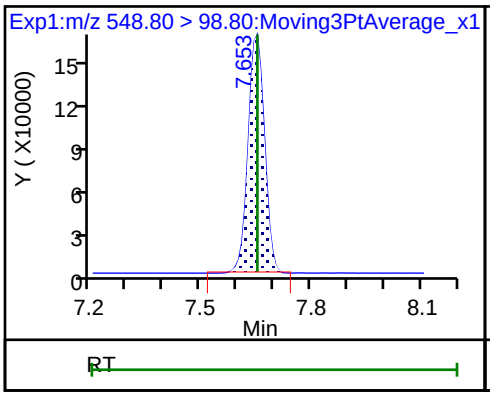
61 9ClFOS



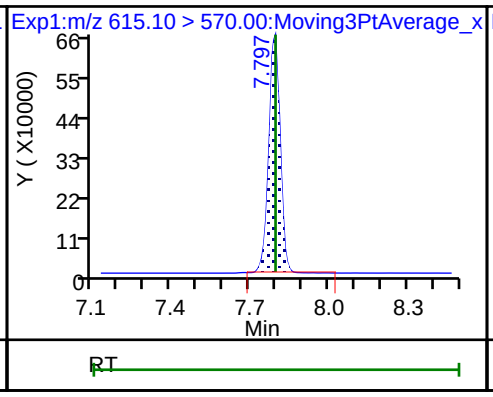
62 PFNS



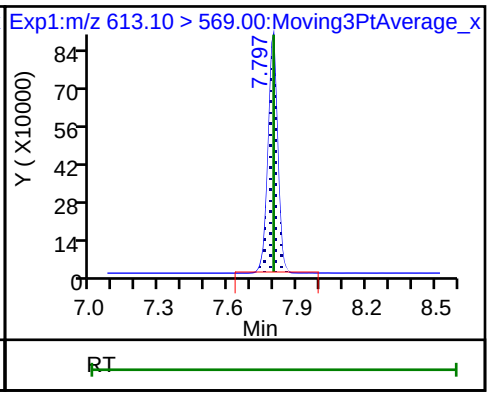
62 PFNS



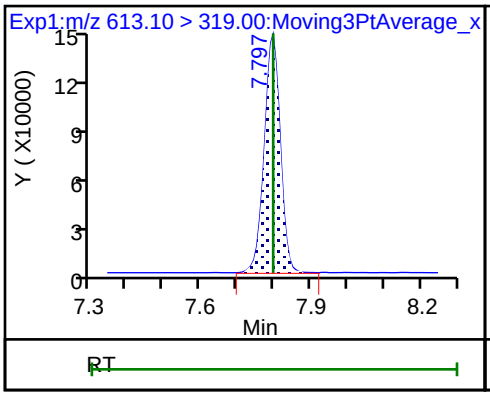
D 81 PFDoA



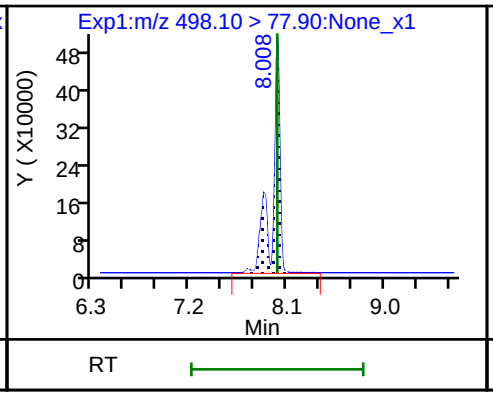
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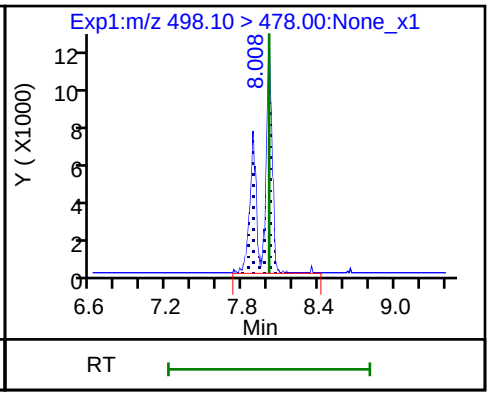
63 PFDoA



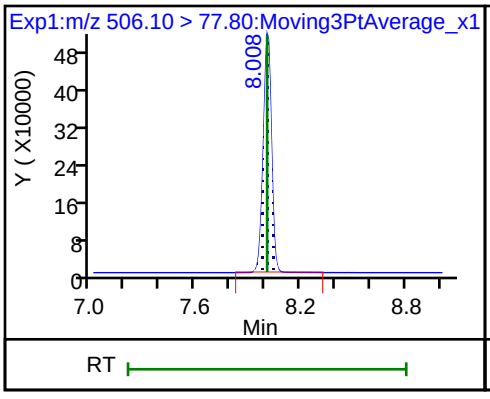
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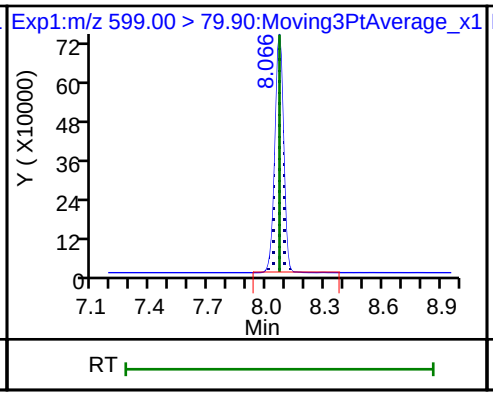
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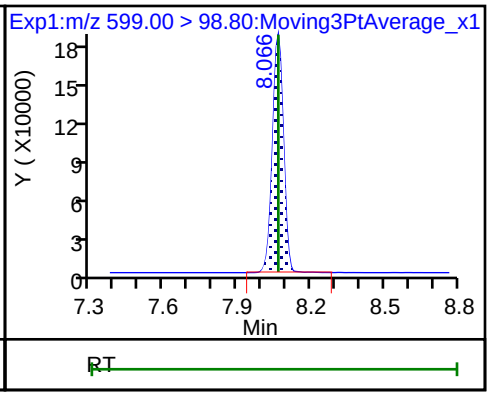
D 65 13C8 FOSA



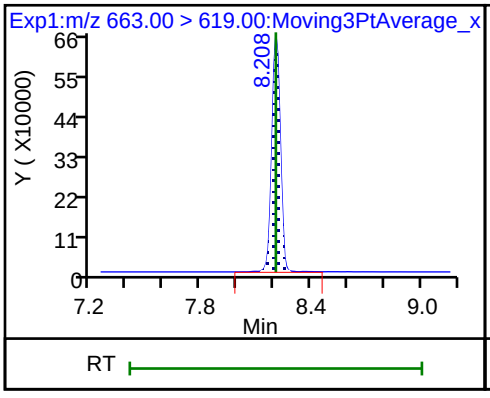
66 PFDS



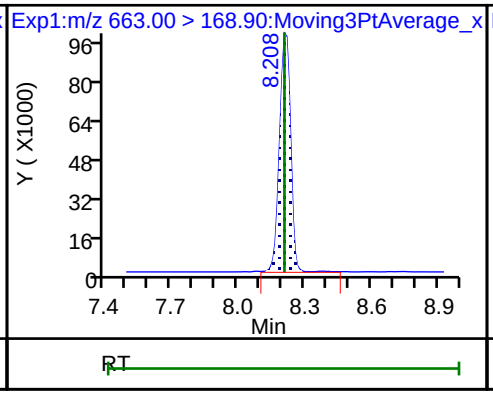
66 PFDS



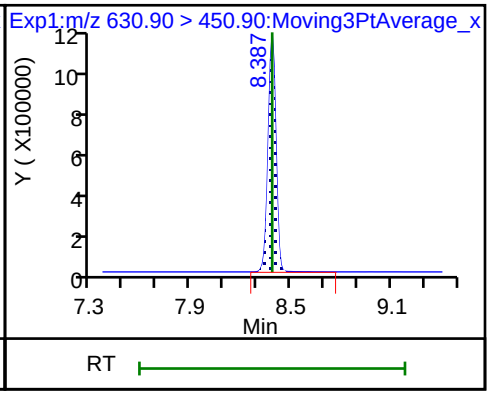
67 PFTrDA



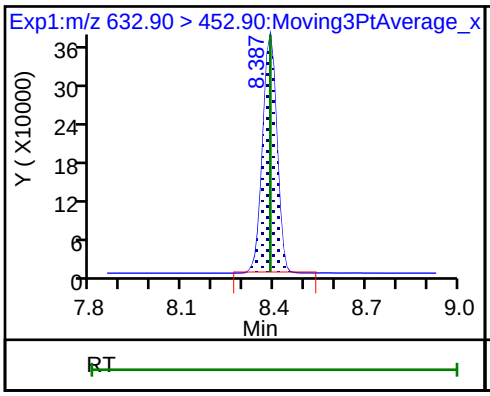
67 PFTrDA



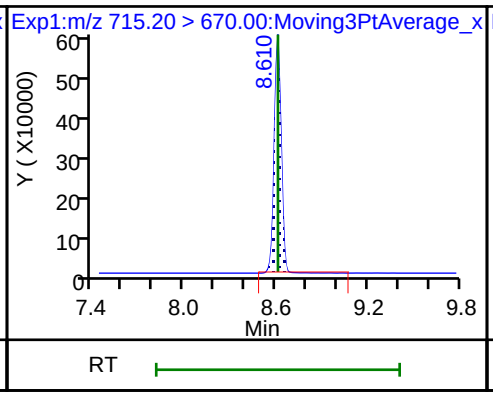
68 11ClFOS



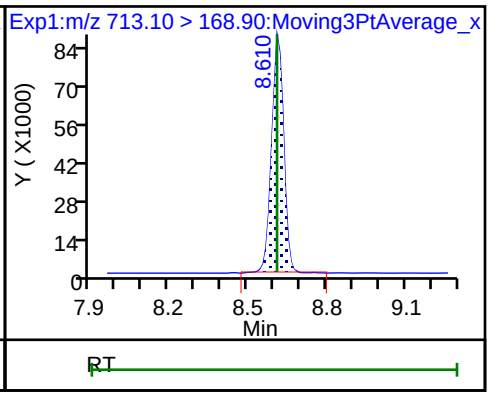
68 11ClFOS



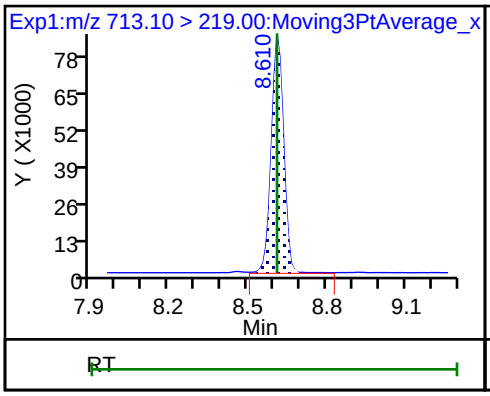
D 70 13C2 PFTeDA



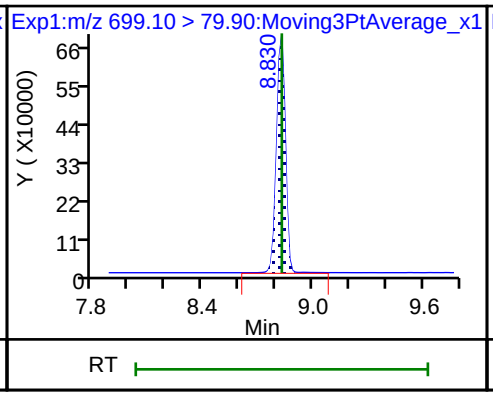
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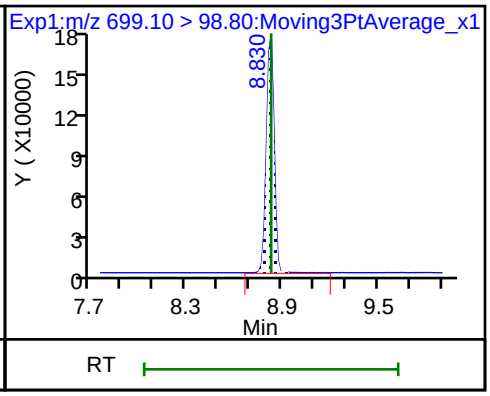
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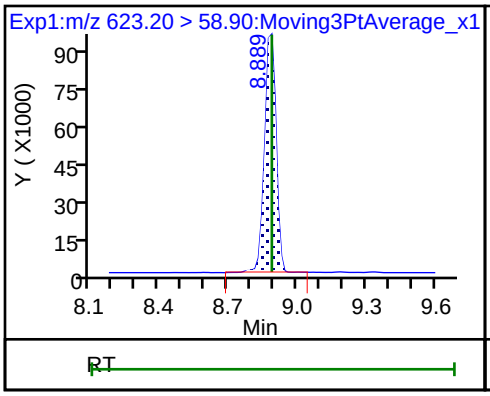
71 PFDoS



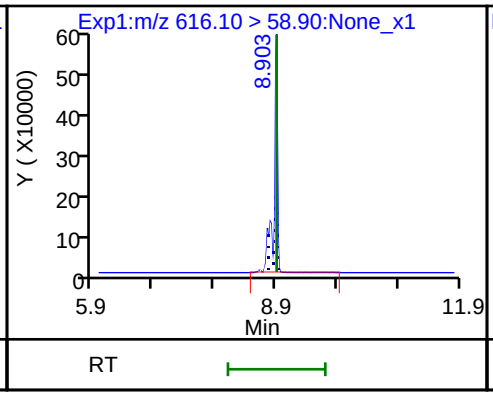
71 PFDoS



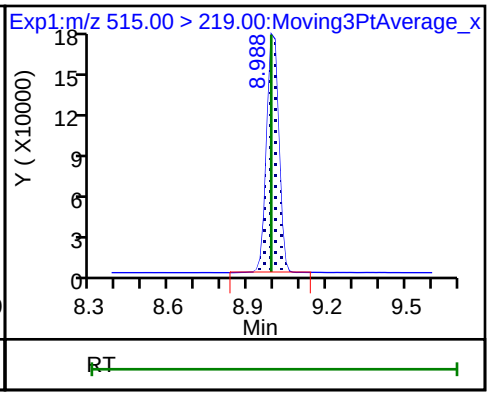
D 72 d7-N-Me-FOSE



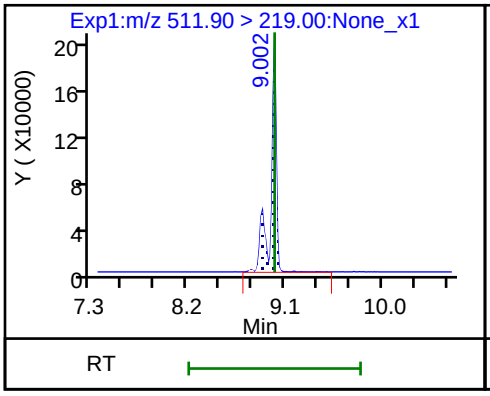
73 N-MeFOSE-M



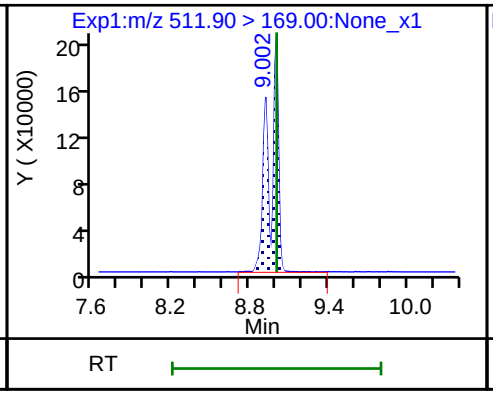
D 75 d3-NMePFOSA



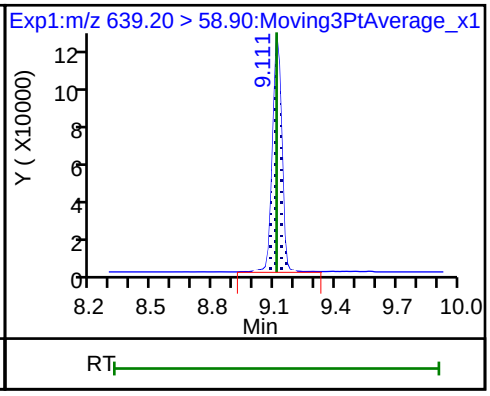
74 NMeFOSA



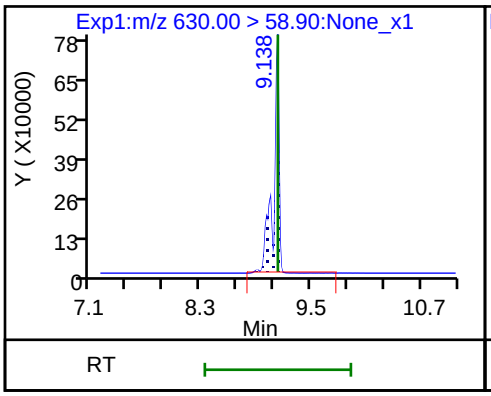
74 NMeFOSA



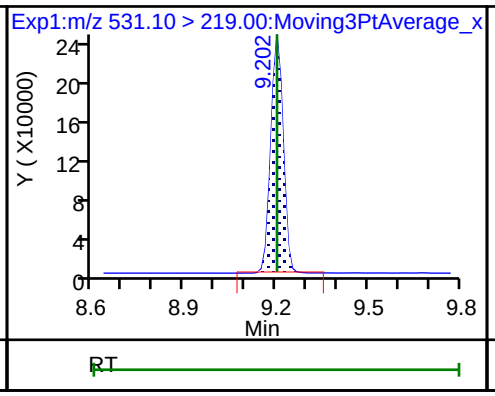
D 76 d9-N-EtFOSE



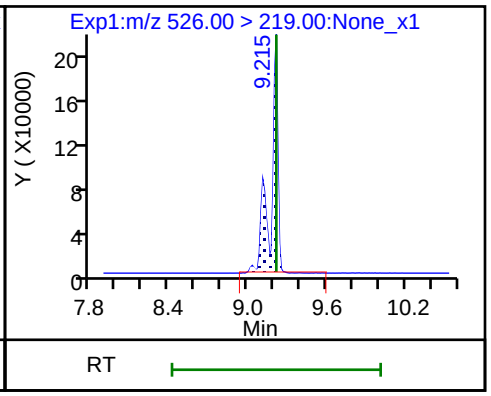
77 N-EtFOSE-M



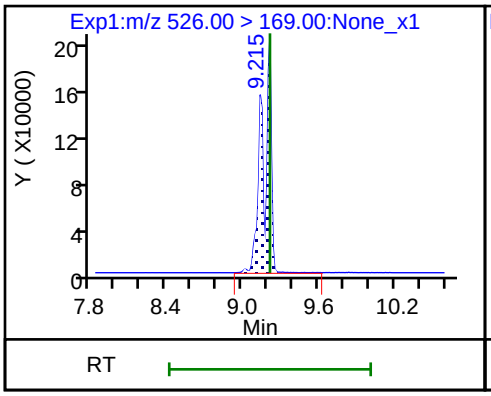
D 78 d5-NEtPFOSA



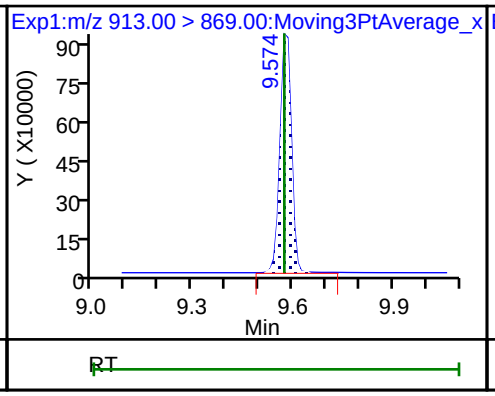
79 N-EtFOSA-M



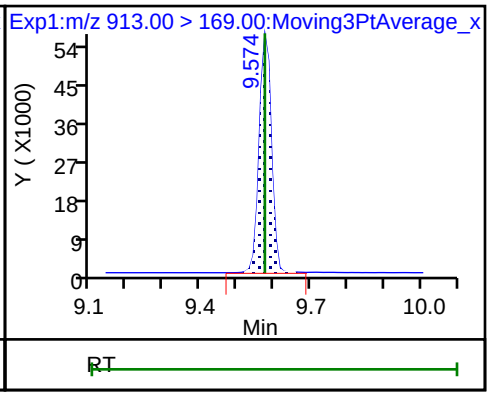
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-06.d
Lims ID: IC CAL 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 04-Feb-2026 10:47:19 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 6
Misc. Info.: Plate: 1 Rack: 1 410-0174606-006
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub12

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 13:00:32 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:31:04
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 13C3PFPrA										
166.00 > 121.00	1.993	2.027	-0.034	0.477	1221950	1.91		95.7	2430	
2 Perfluoropropionic acid										
163.00 > 119.00	2.002	2.035	-0.033	1.004	13845109	24.7		98.7	69383	
3 PFBA										
212.80 > 168.90	4.173	4.173	0.0	0.998	7831357	9.98		99.8	42726	
D 4 13C4-PFBA										
216.80 > 171.90	4.180	4.173	0.007	1.000	1708120	1.98		98.8	4613	
* 5 13C3PFBA										
216.00 > 172.00	4.180	4.180	0.0		1684086	2.00			3688	
6 PFMPA										
229.00 > 84.90	4.513	4.503	0.010	0.934	4103090	4.75		95.1	4013	
7 3:3 FTCA										
241.00 > 177.00	4.522	4.512	0.010	0.936	404071	9.73	Target=1.17	97.3	2708	
241.00 > 117.00	4.522	4.512	0.010	0.936	341565		1.18(0.58-1.75)	97.3	1960	
D 8 13C5 PFPeA										
268.30 > 223.00	4.831	4.829	0.002	0.913	1686294	2.00		100	6514	
9 PFPA										
263.00 > 219.00	4.838	4.829	0.009	1.001	5013834	4.98		99.6	7456	
10 PFMBA										
279.00 > 85.10	4.986	4.982	0.004	1.032	5479285	4.80		95.9	3847	
12 4:2FTS										
327.10 > 307.00	5.111	5.099	0.012	1.002	3423902	9.36	Target=1.69	99.8	5646	
327.10 > 80.90	5.111	5.099	0.012	1.002	2009315		1.70(0.85-2.54)	99.8	3343	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.101	5.099	0.002	0.801	927027	4.60		98.0	5970	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.249	5.247	0.002	0.992	1378991	5.61	Target=1.47	112	4351	
295.00 > 84.90	5.249	5.247	0.002	0.992	788935		1.75(0.74-2.21)	112	2321	
D 15 13C5 PFHxA										
318.00 > 273.00	5.292	5.280	0.012	1.000	1969261	1.92		96.2	3163	
* 16 13C2 PFHxA										
315.10 > 270.00	5.292	5.290	0.002		4828329	5.00			7064	
17 PFHxA										
313.00 > 269.00	5.292	5.290	0.002	1.000	4106803	4.83	Target=10.33	96.6	5157	
313.00 > 118.90	5.292	5.290	0.002	1.000	405690		10.12(5.17-15.50)	96.6	2622	
18 5:3 FTCA										
341.00 > 237.10	5.367	5.365	0.002	1.014	2982765	25.1	Target=0.77	100	1974	
341.00 > 217.00	5.367	5.365	0.002	1.014	3917426		0.76(0.38-1.15)	100	3085	
D 19 13C3 PFBS										
302.10 > 79.90	5.437	5.426	0.011	0.854	2042659	1.89		101	7810	
20 PFBS										
298.70 > 79.90	5.437	5.426	0.011	1.000	4531925	4.62	Target=3.28	104	8488	
298.70 > 98.80	5.428	5.426	0.002	0.998	1362549		3.33(1.64-4.92)	104	6668	
23 HFPO-DA										
284.90 > 168.90	5.476	5.474	0.002	1.000	2532906	3.67	Target=2.47	98.0	4322	
284.90 > 184.90	5.476	5.474	0.002	1.000	1052715		2.41(1.23-3.70)	98.0	3554	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.476	5.474	0.002	1.035	1287185	1.85		92.4	5083	
21 FBSA										
297.90 > 78.00	5.519	5.517	0.002	1.015	4555554	5.23		105	2004	
26 PFEESA										
314.80 > 134.90	5.679	5.667	0.012	1.073	11082651	4.71	Target=12.38	106	11509	
314.80 > 82.90	5.679	5.667	0.012	1.073	894931		12.38(6.19-18.57)	106	3799	
27 PFHpA										
363.10 > 319.00	5.722	5.709	0.013	1.000	4238987	4.92	Target=1.90	98.4	4872	
363.10 > 169.00	5.722	5.709	0.013	1.000	2152665		1.97(0.95-2.85)	98.4	4747	
D 28 13C4 PFHpA										
367.10 > 322.00	5.722	5.709	0.013	1.081	2051571	2.05		103	5118	
29 ADONA										
376.90 > 250.90	5.877	5.865	0.012	1.073	11433368	5.09	Target=2.21	108	4855	
376.90 > 84.80	5.867	5.865	0.002	1.071	5010897		2.28(1.10-3.31)	108	5328	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.919	5.918	0.001	0.929	751792	4.41		92.7	2275	
30 PFPeS										
349.10 > 79.90	5.919	5.918	0.001	0.929	4995967	4.64	Target=3.14	98.7	8455	
349.10 > 98.90	5.919	5.918	0.001	0.929	1577781		3.17(1.57-4.71)	98.7	5819	
31 6:2FTS										
427.10 > 407.00	5.919	5.918	0.001	1.000	2881092	9.74	Target=1.66	102	8502	
427.10 > 80.90	5.919	5.918	0.001	1.000	1732278		1.66(0.83-2.48)	102	2634	
33 BTS										
280.00 > 147.00	6.093	6.091	0.002	0.957	10399965	5.13		105	7819	
* 34 13C4 PFOA										
417.10 > 372.00	6.133	6.121	0.012		6525669	5.00			4381	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.123	6.121	0.002	0.998	2680380	2.02		101	4672	
36 PFOA										
413.00 > 369.00	6.133	6.121	0.012	1.002	3974546	4.78	Target=1.85	95.7	3589	
413.00 > 169.00	6.133	6.121	0.012	1.002	2211865		1.80(0.93-2.78)	95.7	2144	
37 7:3 FTCA										
441.00 > 316.90	6.214	6.212	0.002	1.174	1373195	24.1	Target=0.30	96.5	1324	
441.00 > 336.90	6.214	6.212	0.002	1.174	4746212		0.29(0.15-0.45)	96.5	2752	
40 PFHxS										
398.70 > 79.90	6.369	6.357	0.012	1.000	3175845	4.41	Target=3.16	96.8	5217	
398.70 > 98.90	6.369	6.357	0.012	1.000	1008552		3.15(1.58-4.75)	96.8	1500	
D 38 13C3 PFHxS										
402.10 > 79.90	6.369	6.367	0.002	1.000	1765298	1.93		102	6611	
* 39 18O2 PFHxS										
403.00 > 83.90	6.369	6.367	0.002		1611436	1.90			5886	
* 42 13C5 PFNA										
468.00 > 423.00	6.539	6.535	0.004		1918919	2.00			3945	
D 41 13C9 PFNA										
472.10 > 427.00	6.539	6.535	0.004	1.000	2020573	2.03		102	3109	
43 PFNA										
463.00 > 419.00	6.539	6.546	-0.007	1.000	4317125	4.92	Target=2.07	98.4	3646	
463.00 > 219.00	6.549	6.546	0.003	1.002	2045511		2.11(1.03-3.11)	98.4	2125	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.727	6.725	0.002	1.056	852524	4.84		101	3791	
45 8:2FTS										
527.10 > 507.00	6.727	6.725	0.002	1.000	2826794	9.16	Target=1.94	95.4	7520	
527.10 > 80.80	6.727	6.725	0.002	1.000	1465810		1.93(0.97-2.91)	95.4	3496	
46 PFECHS										
461.00 > 381.00	6.775	6.763	0.012	1.064	902562	4.31	Target=0.18	93.4	1983	
461.00 > 99.00	6.775	6.763	0.012	1.064	5212514		0.17(0.09-0.26)	93.4	9651	
47 PFHpS										
449.00 > 79.90	6.802	6.808	-0.006	0.941	4614751	4.39	Target=3.74	92.1	5129	
449.00 > 98.80	6.802	6.808	-0.006	0.941	1235097		3.74(1.87-5.60)	92.1	3480	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.890	6.888	0.002	0.953	1955238	5.16		103	3409	
50 NMeFOSAA										
570.10 > 419.00	6.890	6.897	-0.007	1.000	1772669	4.66	Target=1.81	93.1	616	
570.10 > 483.00	6.890	6.897	-0.007	1.000	1061732		1.67(0.91-2.72)	93.1	1495	
48 FHxSA										
397.90 > 78.00	6.918	6.916	0.002	1.086	5978613	4.93		98.5	3987	
53 PFDA										
512.90 > 469.00	6.960	6.957	0.003	1.000	3711051	4.67	Target=3.70	93.5	7852	
512.90 > 219.00	6.960	6.957	0.003	1.000	1013531		3.66(1.85-5.54)	93.5	3878	
D 52 13C6 PFDA										
519.10 > 474.10	6.960	6.957	0.003	1.000	2160338	2.08		104	6277	
* 51 13C2 PFDA										
515.10 > 470.10	6.960	6.957	0.003		2109814	2.00			6547	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.071	7.068	0.003	0.978	1626768	4.97		99.4	3081	
55 NEtFOSAA										
584.20 > 419.10	7.080	7.088	-0.008	1.001	1427937	5.00	Target=1.29	100	1835	
584.20 > 526.00	7.080	7.088	-0.008	1.001	1076315		1.33(0.65-1.94)	100	2038	
D 56 13C8 PFOS										
507.10 > 79.90	7.232	7.230	0.002	1.000	1607412	1.96		103	8066	
* 57 13C4 PFOS										
502.80 > 79.90	7.232	7.230	0.002		1408525	1.92			5093	
58 PFOS										
498.90 > 79.90	7.241	7.239	0.002	1.001	5120338	4.51	Target=4.49	96.9	7830	
498.90 > 98.80	7.223	7.239	-0.016	0.999	1128385		4.54(2.24-6.73)	96.9	2067	
D 59 13C7 PFUnA										
570.00 > 525.10	7.377	7.374	0.003	1.060	2018855	1.95		97.4	3988	
60 PFUnA										
563.10 > 519.00	7.377	7.384	-0.007	1.000	3708050	5.24	Target=5.00	105	7515	
563.10 > 269.10	7.377	7.384	-0.007	1.000	774723		4.79(2.50-7.49)	105	4272	
61 9ClFOS										
530.80 > 351.00	7.554	7.560	-0.006	1.045	10245047	4.44	Target=3.04	95.0	11589	
532.80 > 353.00	7.554	7.560	-0.006	1.045	3337830		3.07(1.52-4.56)	95.0	7402	
62 PFNS										
548.80 > 79.90	7.647	7.653	-0.006	1.057	3374767	4.70	Target=3.71	97.8	6507	
548.80 > 98.80	7.647	7.653	-0.006	1.057	938395		3.60(1.85-5.56)	97.8	8438	
D 81 PFDoA										
615.10 > 570.00	7.791	7.797	-0.006	1.119	2038532	2.05		102	6474	
63 PFDoA										
613.10 > 569.00	7.791	7.797	-0.006		4527514	4.76	Target=5.74	95.1	5914	
613.10 > 319.00	7.799	7.797	0.002		831686		5.44(2.87-8.61)	95.1	3910	
64 PFOSA										
498.10 > 77.90	8.011	8.008	0.003	1.000	4808521	5.01	Target=41.30	100	4255	
498.10 > 478.00	8.011	8.008	0.003	1.000	114027		42.17(20.65-61.94)	100	270	
D 65 13C8 FOSA										
506.10 > 77.80	8.011	8.008	0.003	1.108	1736098	2.06		103	4902	
66 PFDS										
599.00 > 79.90	8.060	8.066	-0.006	1.115	4315508	4.51	Target=3.87	93.6	12699	
599.00 > 98.80	8.060	8.066	-0.006	1.115	1131162		3.82(1.93-5.80)	93.6	8591	
67 PFTrDA										
663.00 > 619.00	8.211	8.208	0.003	0.953	4593974	5.18	Target=6.63	104	4124	
663.00 > 168.90	8.211	8.208	0.003	0.953	679481		6.76(3.32-9.95)	104	2424	
68 11ClFOS										
630.90 > 450.90	8.389	8.387	0.002	1.160	7479699	4.70	Target=3.04	99.6	50413	
632.90 > 452.90	8.389	8.387	0.002	1.160	2453249		3.05(1.52-4.56)	99.6	9464	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.612	8.610	0.002	1.237	1827510	2.04		102	3075	
69 PFTeDA										
713.10 > 168.90	8.612	8.610	0.002	1.000	513019	5.01	Target=1.02	100	1973	
713.10 > 219.00	8.612	8.610	0.002	1.000	522292		0.98(0.51-1.53)	100	1014	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.831	8.830	0.001	1.221	4314298	4.59	Target=4.07	94.6	3803	
699.10 > 98.80	8.831	8.830	0.001	1.221	1011824		4.26(2.04-6.11)	94.6	3061	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.890	8.889	0.001	1.229	341093	5.03		101	1249	
73 N-MeFOSE-M										
616.10 > 58.90	8.905	8.903	0.002	1.002	4334561	24.8		99.2	11355	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.003	8.988	0.015	1.245	551897	2.06		103	4589	
74 NMeFOSA										
511.90 > 219.00	9.003	9.002	0.001	1.000	1289569	4.93	Target=0.72	98.5	2571	
511.90 > 169.00	9.003	9.002	0.001	1.000	1797231		0.72(0.36-1.07)	98.5	2904	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.125	9.111	0.014	1.262	358813	4.91		98.2	670	
77 N-EtFOSE-M										
630.00 > 58.90	9.139	9.138	0.001	1.001	5992722	25.3		101	18104	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.203	9.202	0.001	1.273	710787	2.07		103	3025	
79 N-EtFOSA-M										
526.00 > 219.00	9.216	9.215	0.001	1.001	1535082	4.97	Target=0.87	99.4	7278	
526.00 > 169.00	9.216	9.215	0.001	1.001	1712632		0.90(0.43-1.30)	99.4	3663	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.586	9.574	0.012	1.113	4491327	5.33	Target=17.07	107	74924	
913.00 > 169.00	9.586	9.574	0.012	1.113	268178		16.75(8.53-25.60)	107	13441	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL6_00037 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 13:00:33 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-06.d

Injection Date: 04-Feb-2026 10:47:19 Instrument ID: 30577

Lims ID: IC CAL 6

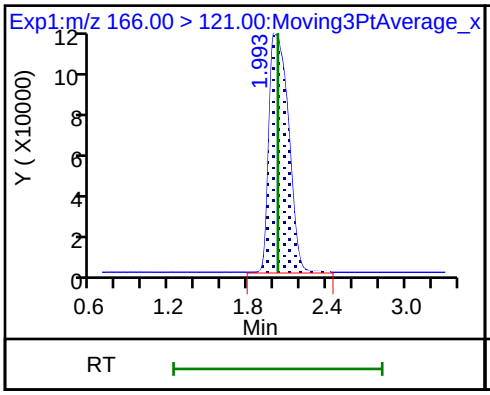
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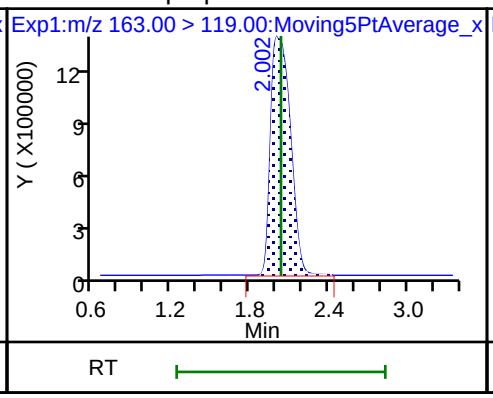
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Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

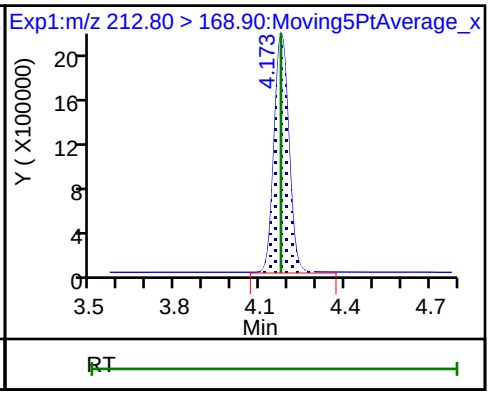
D 1 13C3PFPrA



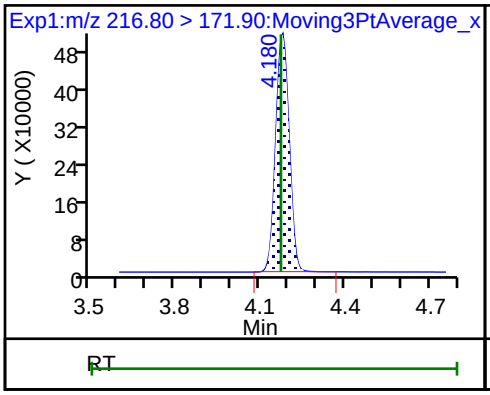
2 Perfluoropropionic acid



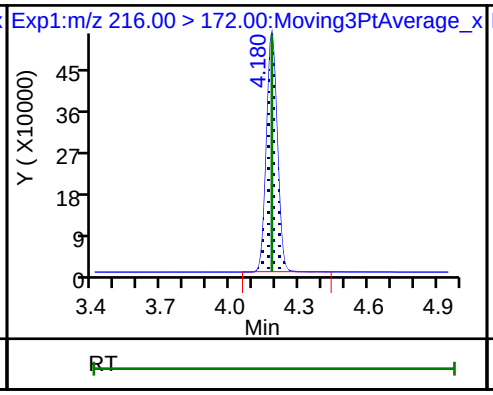
3 PFBA



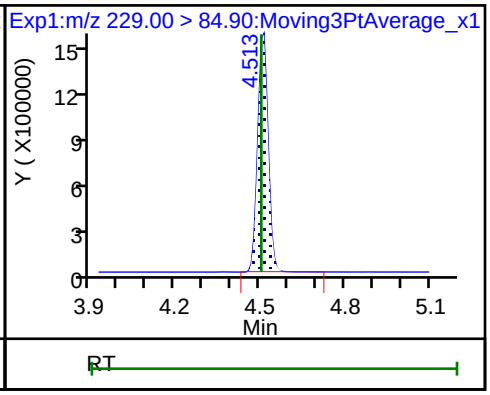
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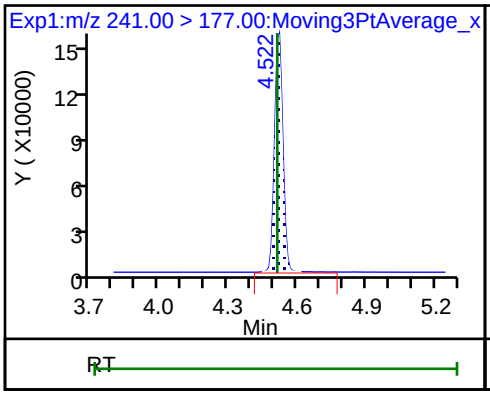
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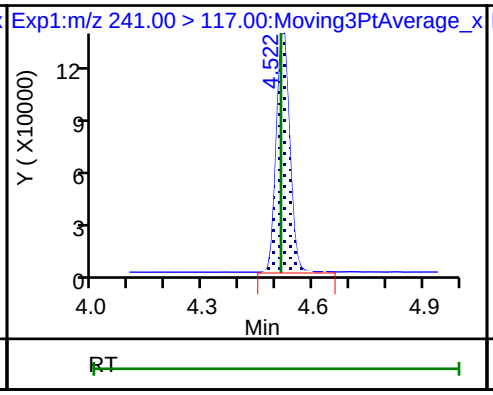
6 PFMPA



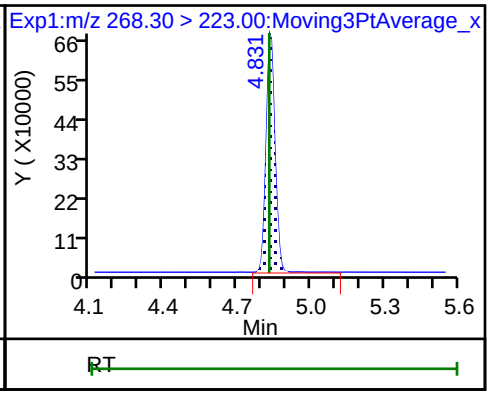
7 3:3 FTCA



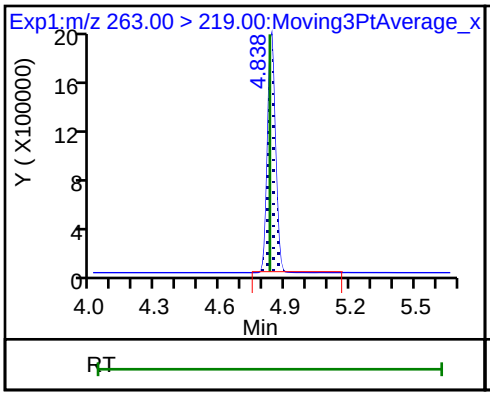
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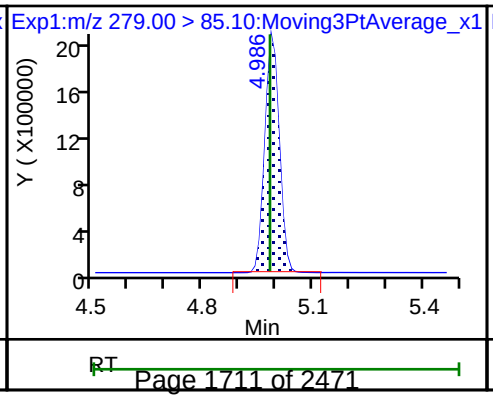
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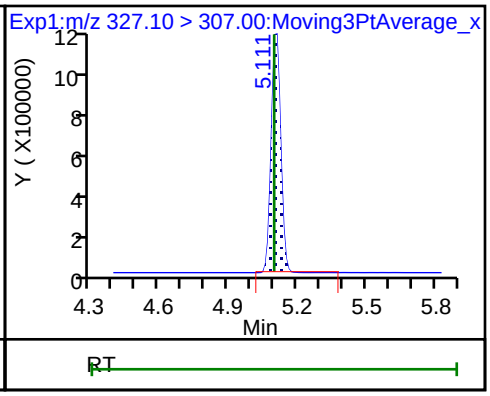
9 PFPA



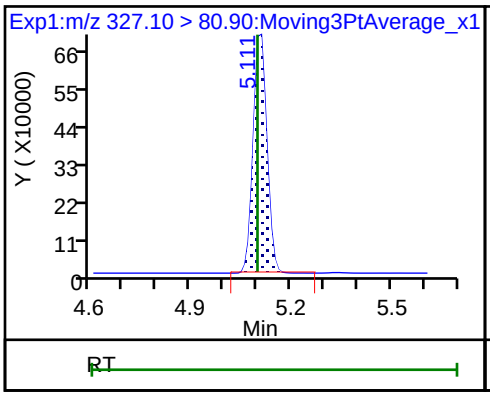
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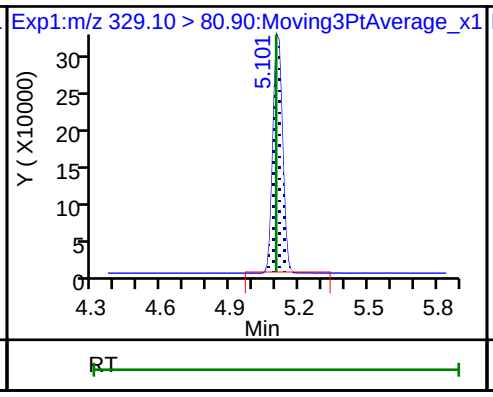
12 4:2FTS



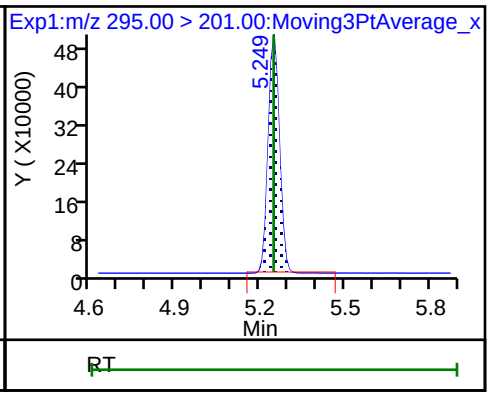
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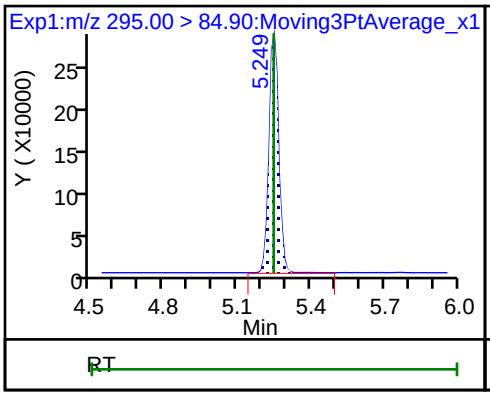
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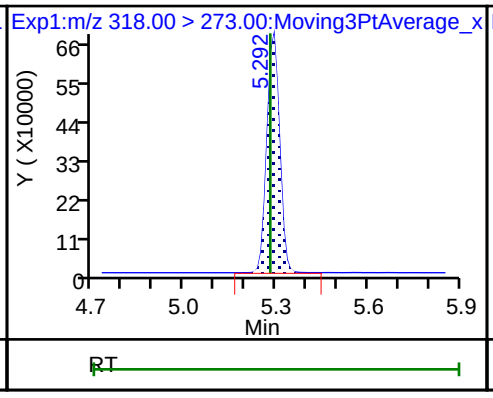
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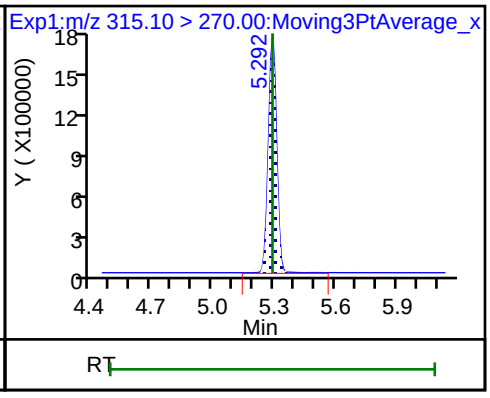
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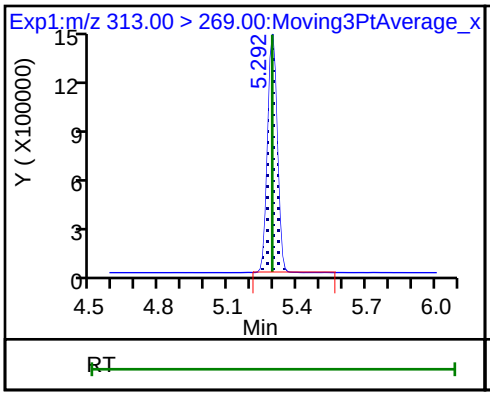
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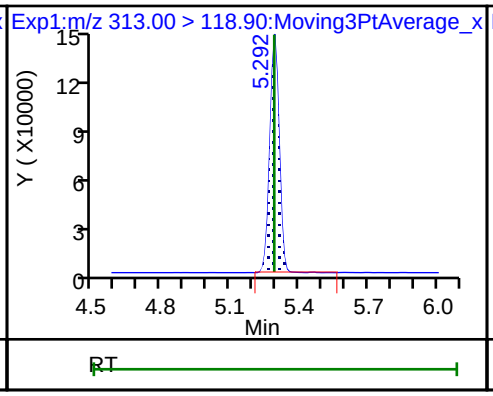
* 16 13C2 PFHxA



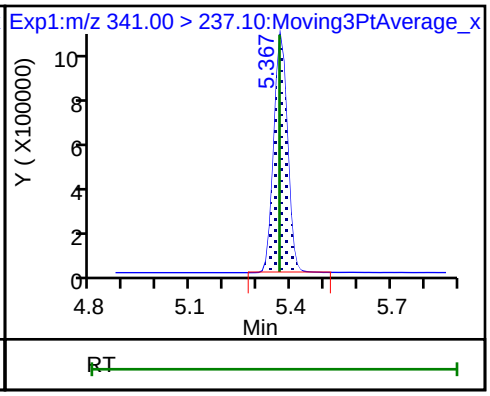
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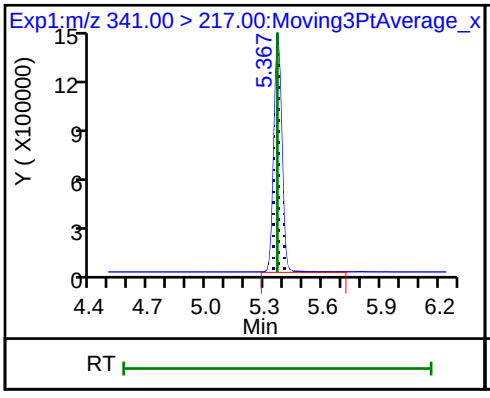
17 PFHxA



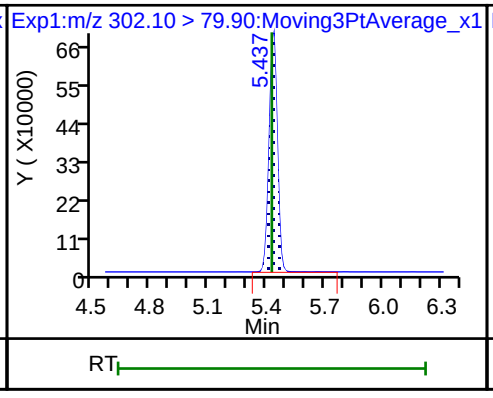
18 5:3 FTCA



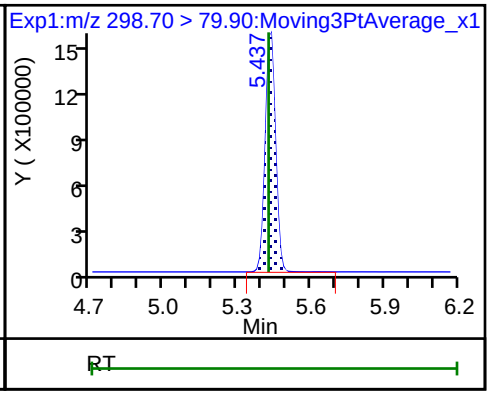
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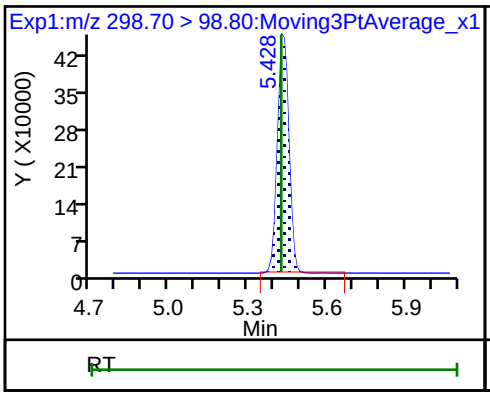
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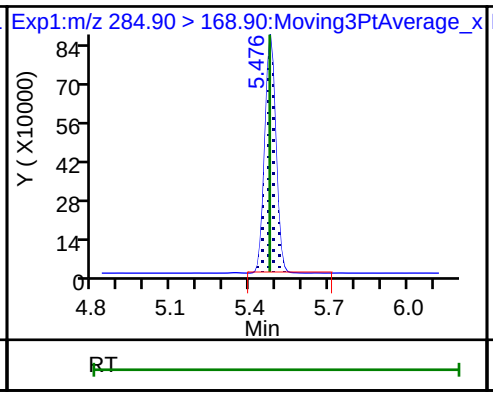
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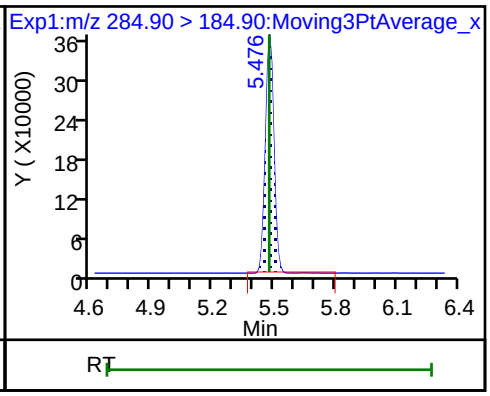
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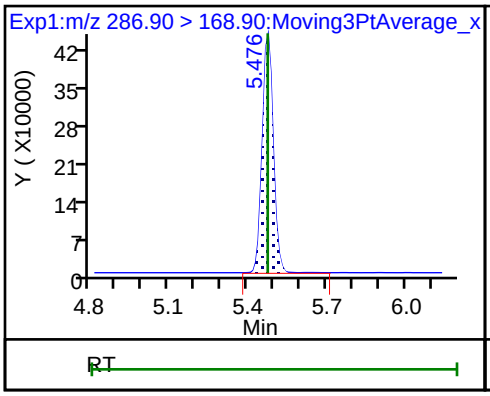
23 HFPO-DA



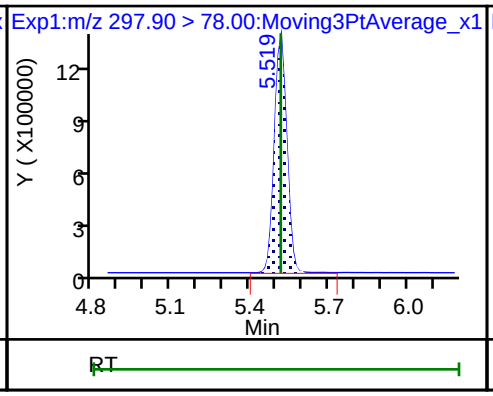
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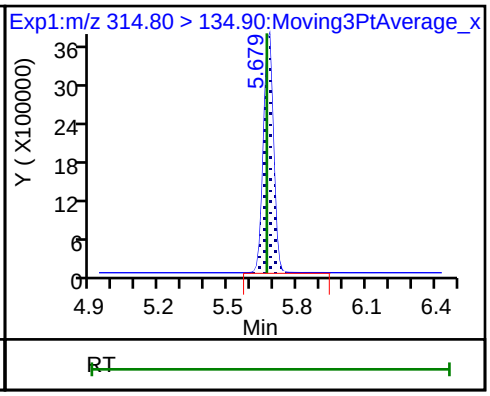
D 22 13C3 HFPO-DA



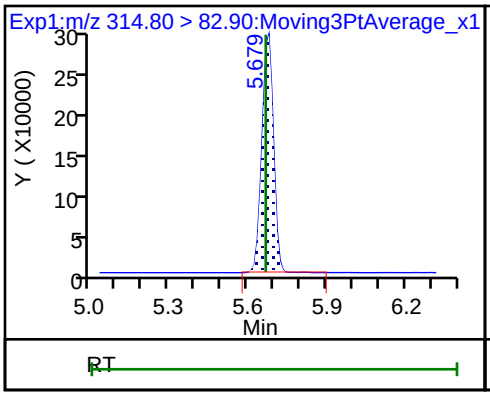
21 FBSA



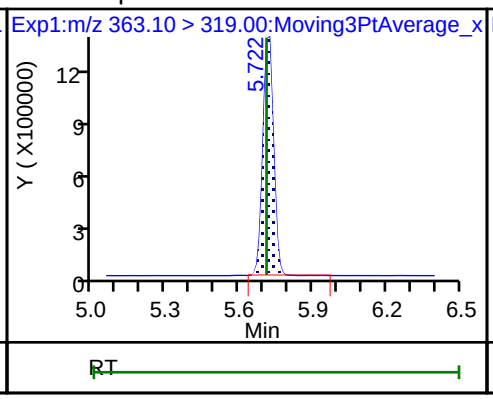
26 PFEESA



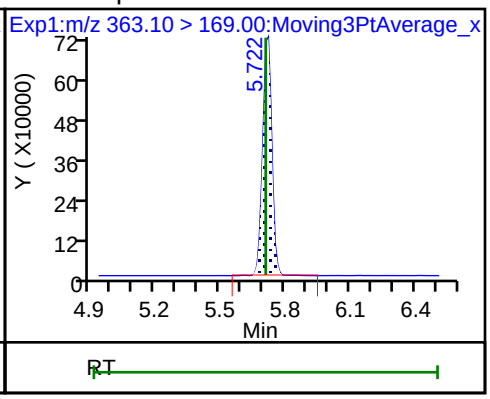
26 PFEESA



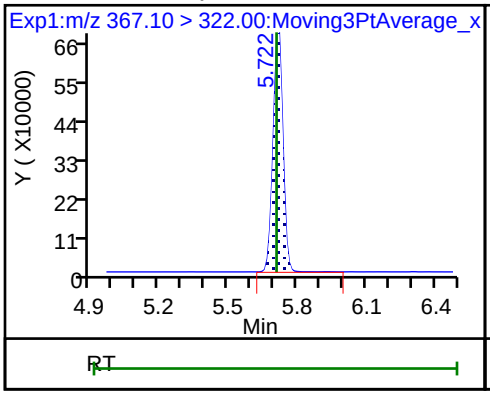
27 PFHpA



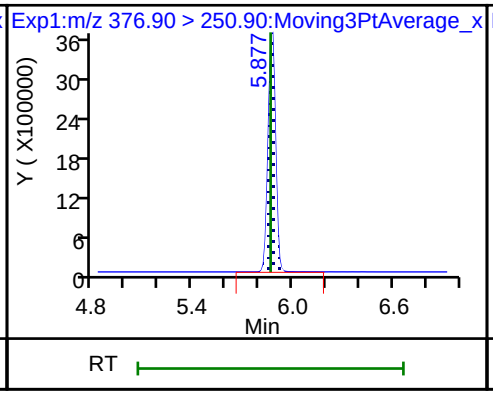
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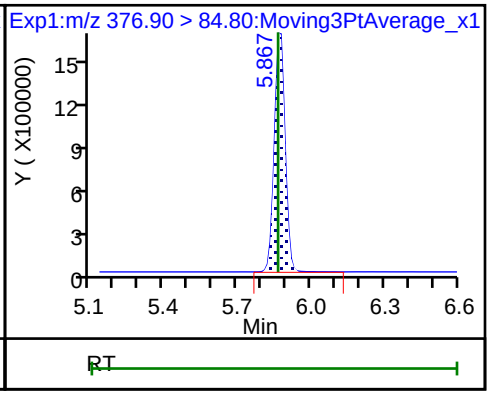
D 28 13C4 PFHpA



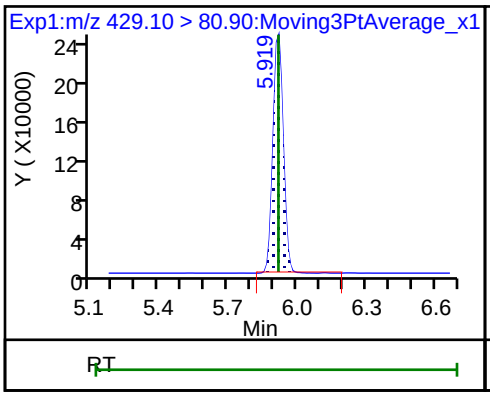
29 ADONA



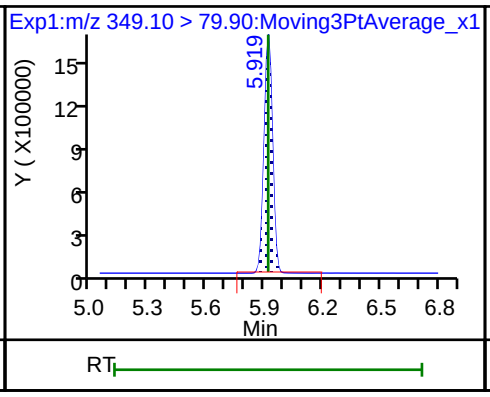
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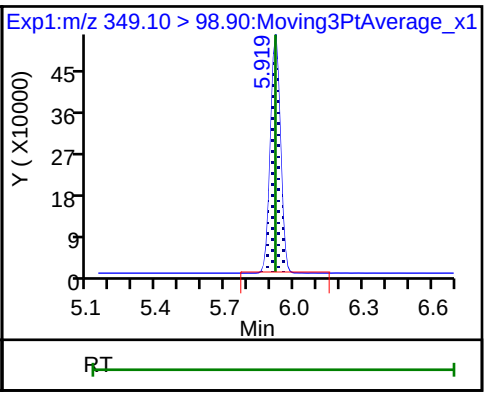
D 32 13C2-6:2FTS



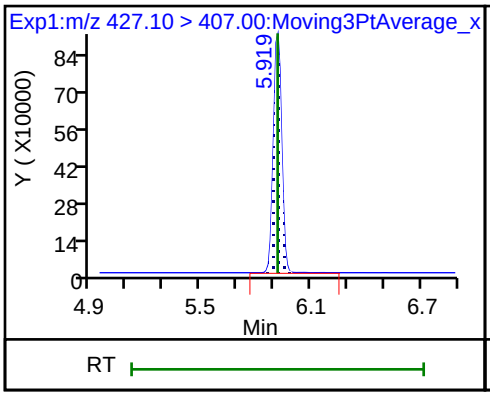
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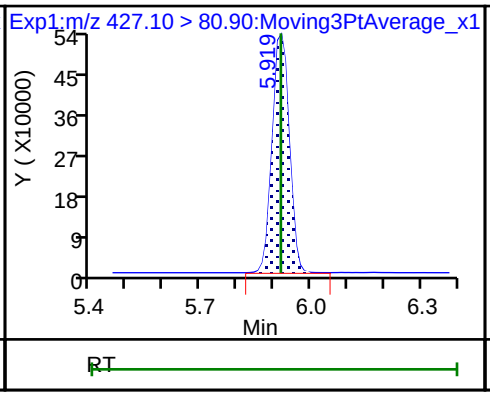
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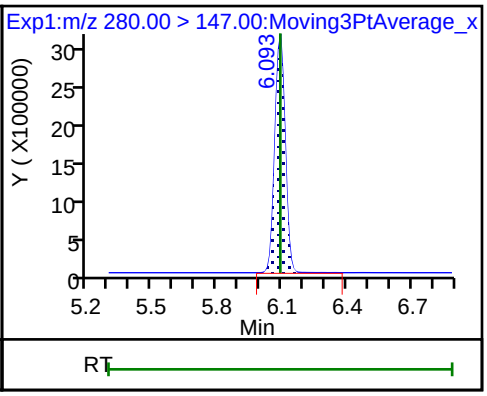
31 6:2FTS



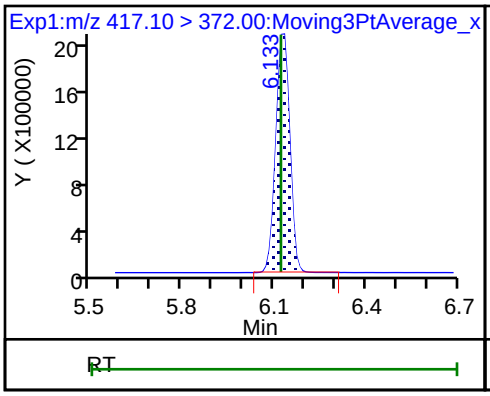
31 6:2FTS



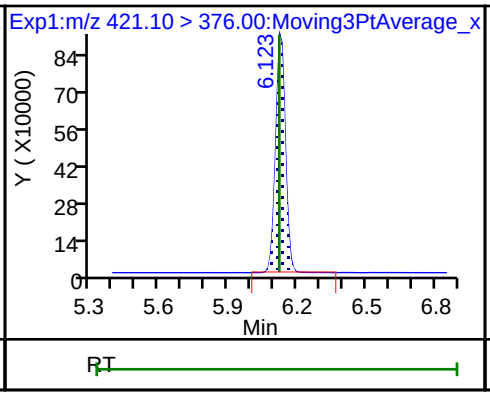
33 BTS



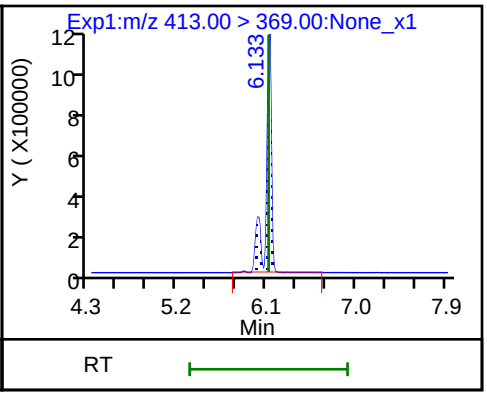
* 34 13C4 PFOA



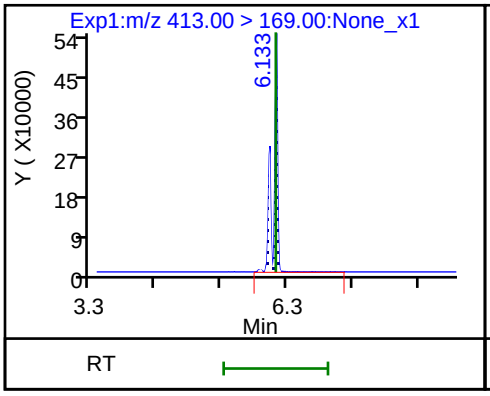
D 35 13C8 PFOA



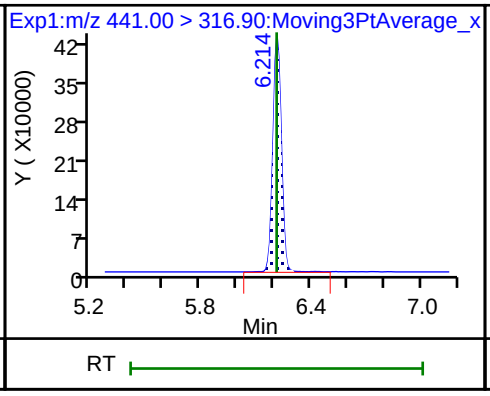
36 PFOA



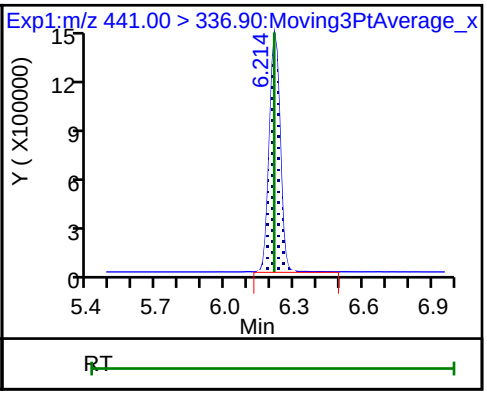
36 PFOA



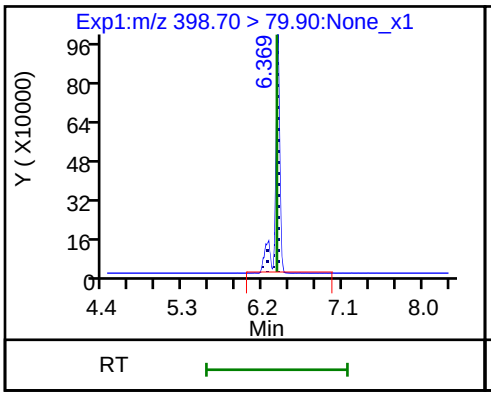
37 7:3 FTCA



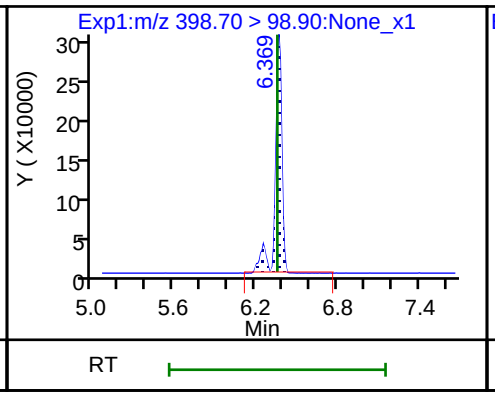
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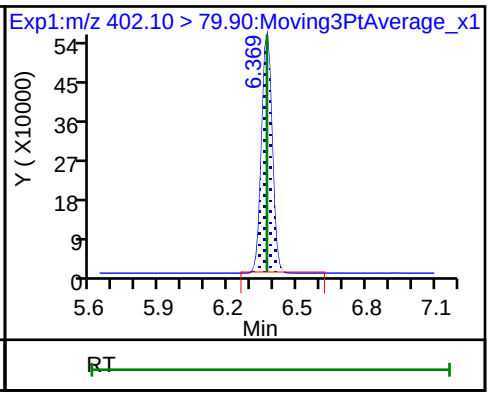
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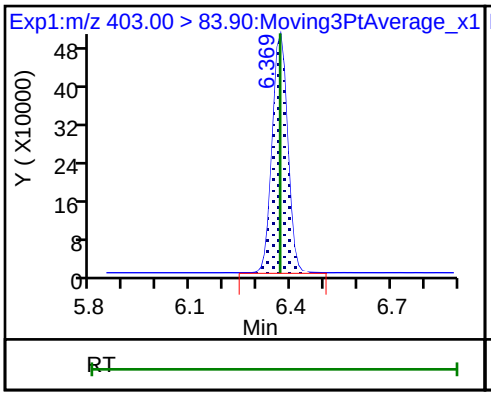
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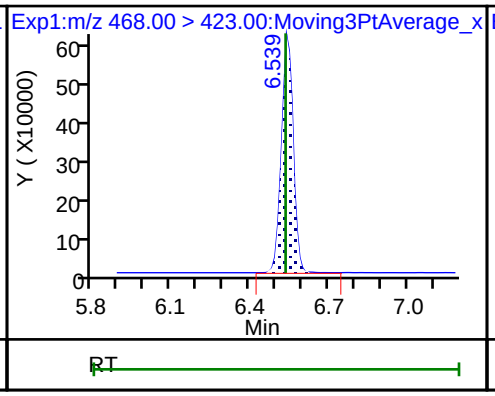
D 38 13C3 PFHxS



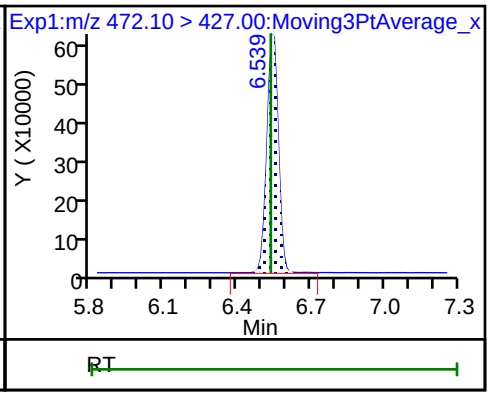
* 39 18O2 PFHxS



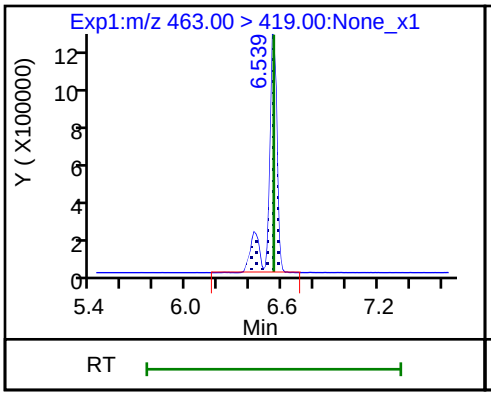
* 42 13C5 PFNA



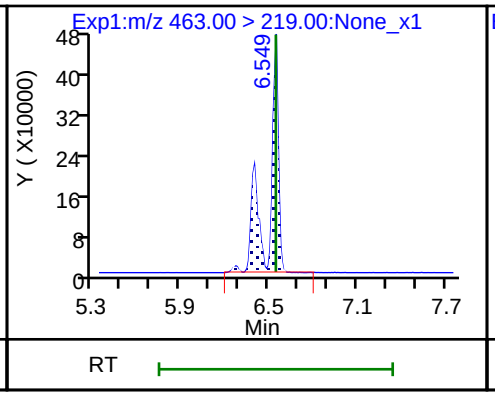
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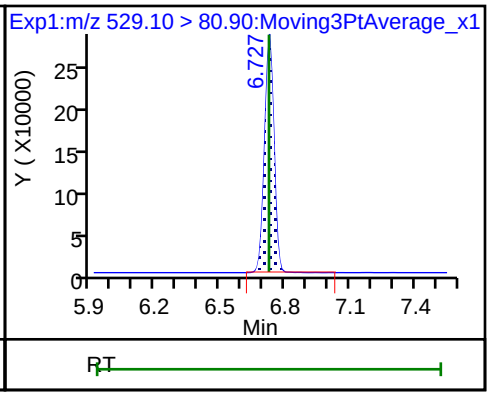
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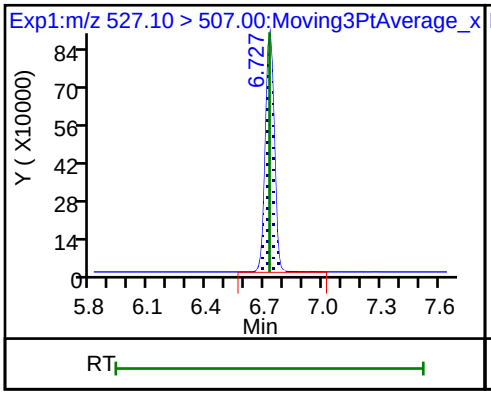
43 PFNA



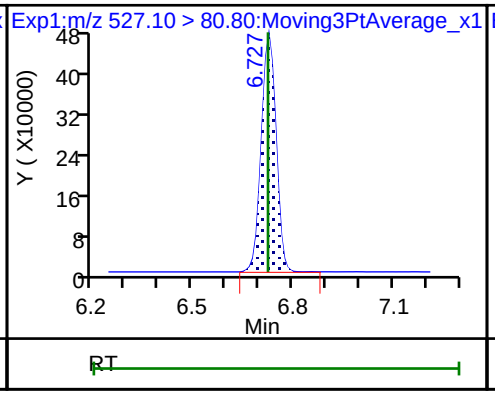
D 44 13C2-8:2FTS



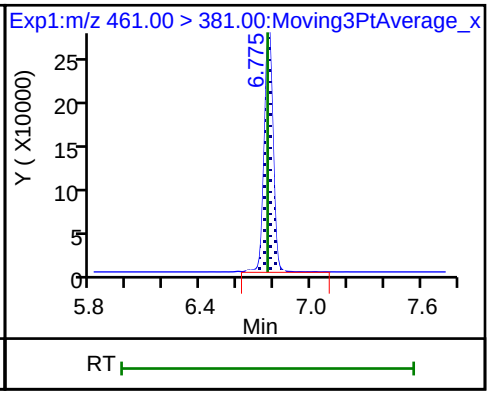
45 8:2FTS



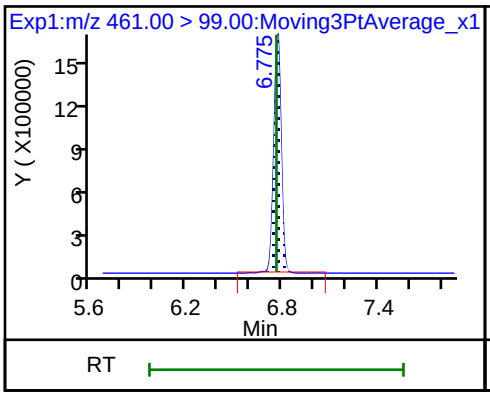
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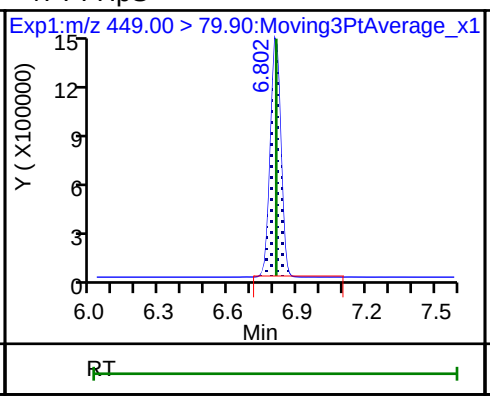
46 PFECHS



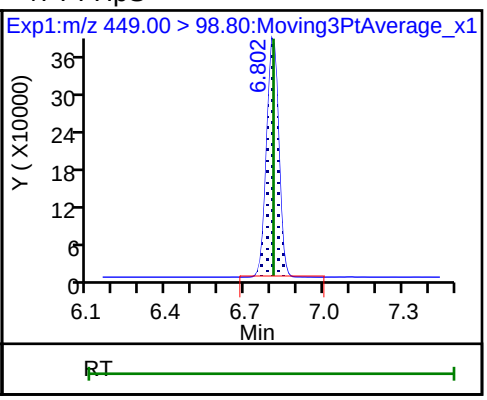
46 PFECHS



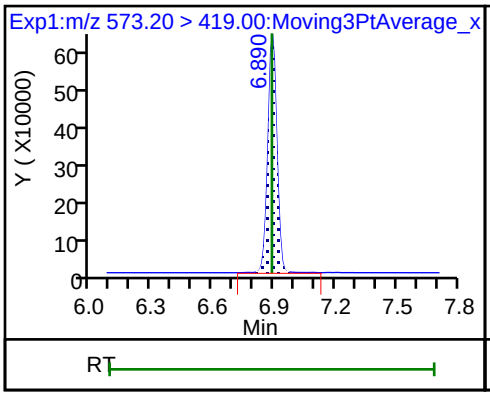
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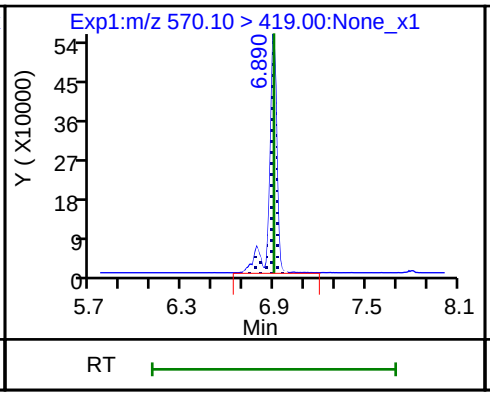
47 PFHpS



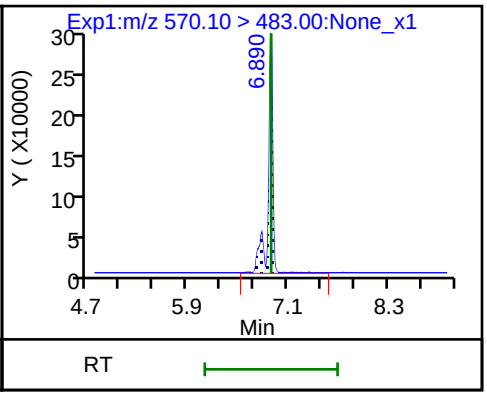
D 49 d3-NMeFOSAA



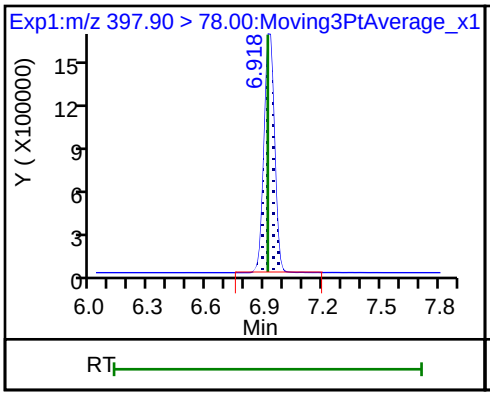
50 NMeFOSAA



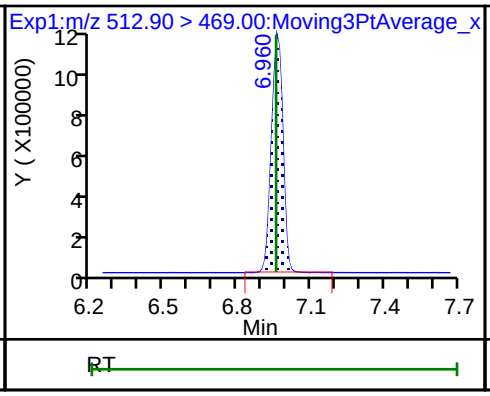
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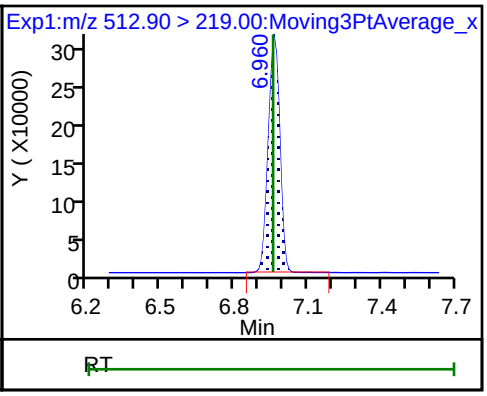
48 FHxSA



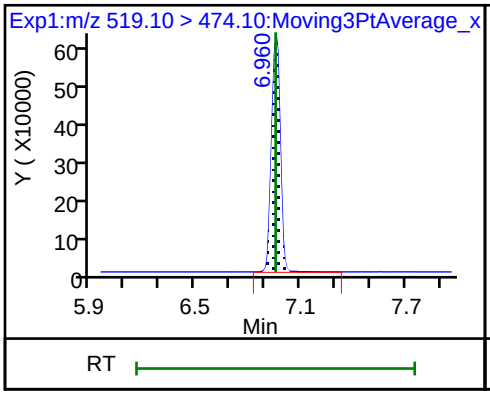
53 PFDA



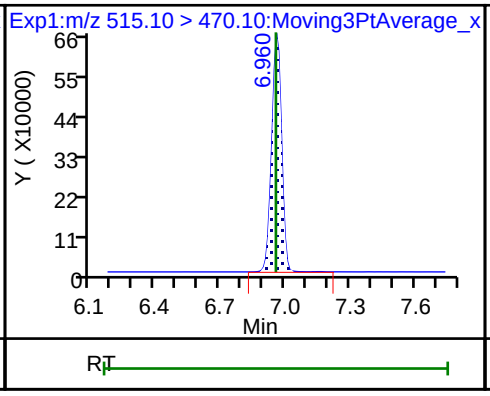
53 PFDA



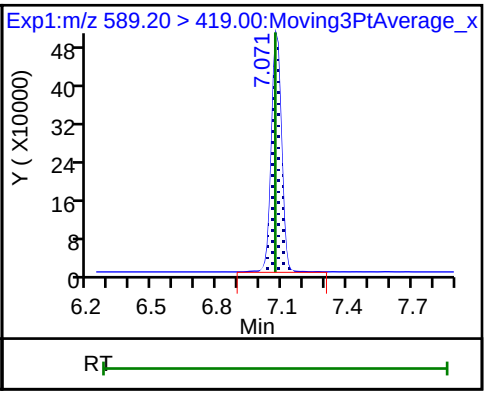
D 52 13C6 PFDA



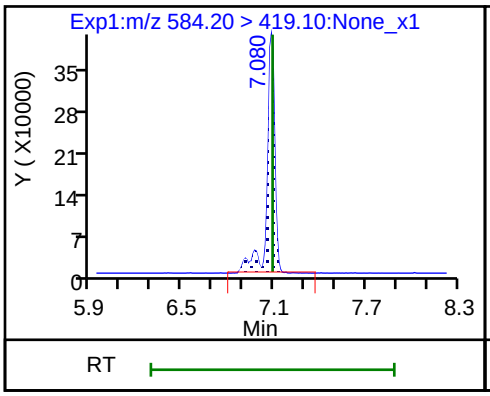
* 51 13C2 PFDA



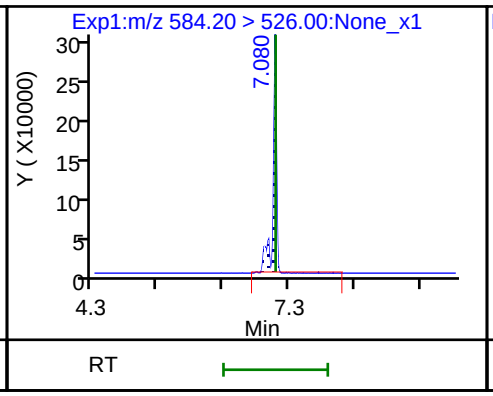
D 54 d5-NEtFOSAA



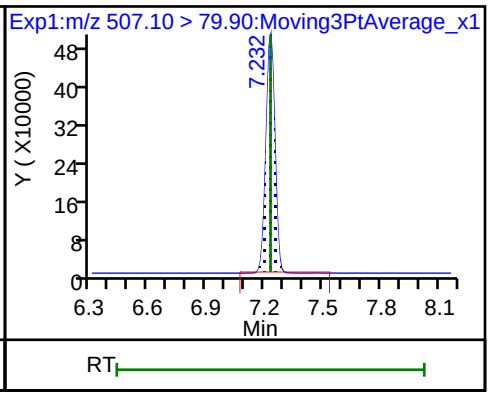
55 NEtFOSAA



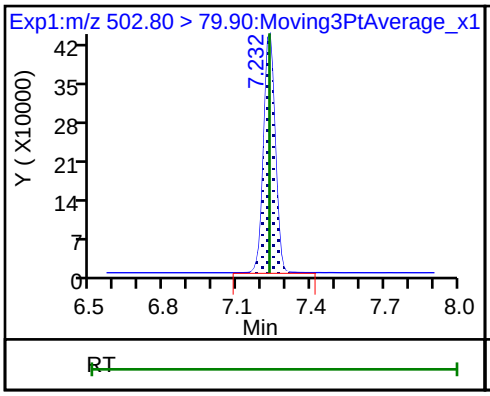
55 NEtFOSAA



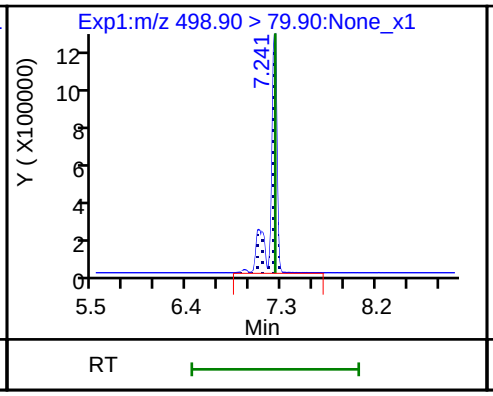
D 56 13C8 PFOS



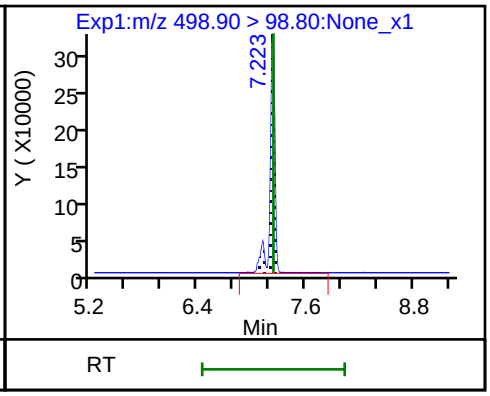
* 57 13C4 PFOS



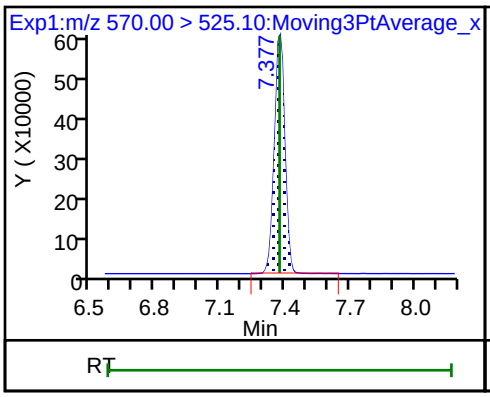
58 PFOS



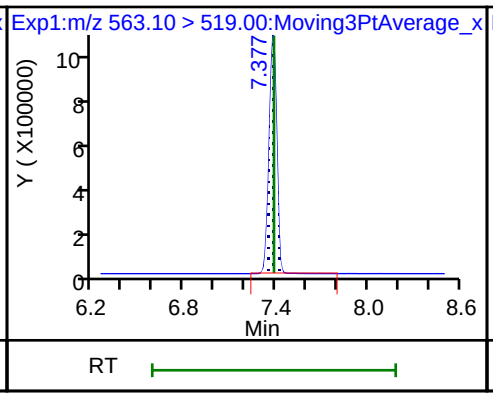
58 PFOS



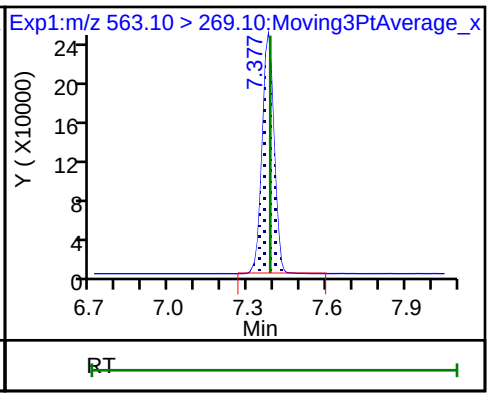
D 59 13C7 PFUnA



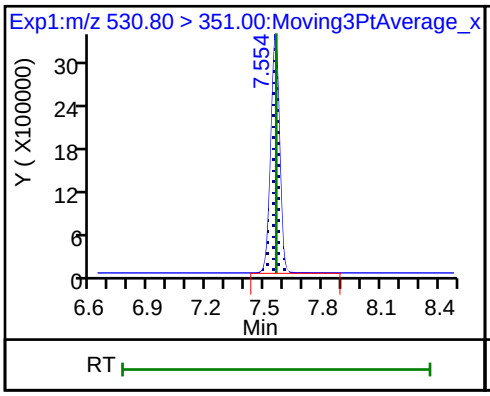
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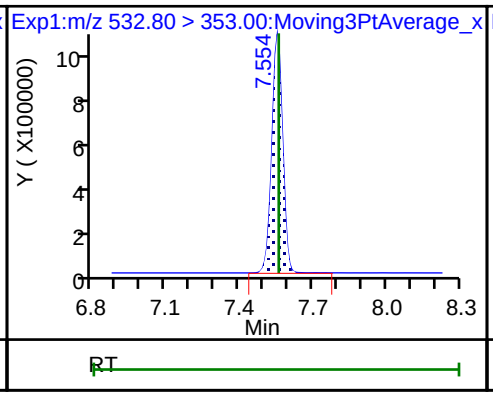
60 PFUnA



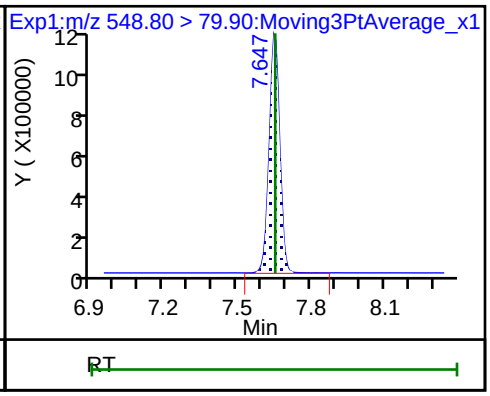
61 9ClFOS



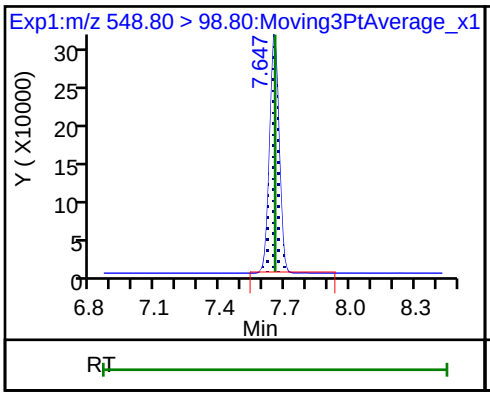
61 9ClFOS



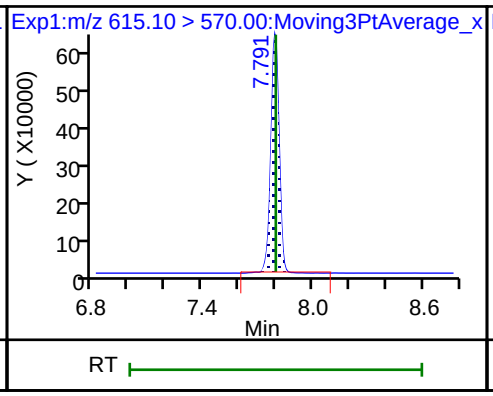
62 PFNS



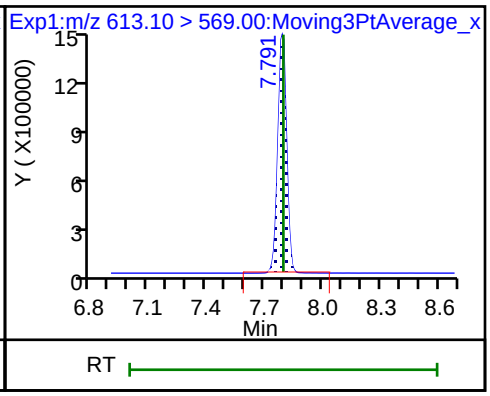
62 PFNS



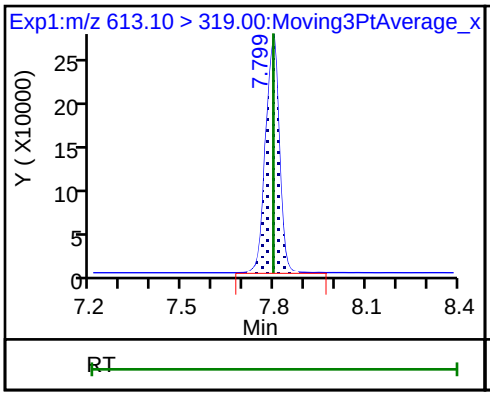
D 81 PFDoA



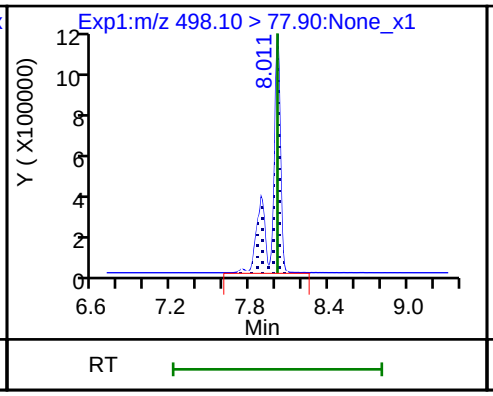
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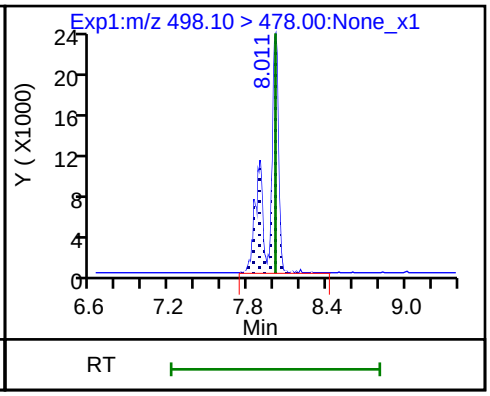
63 PFDoA



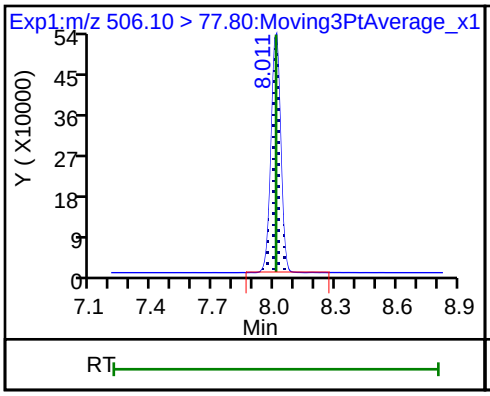
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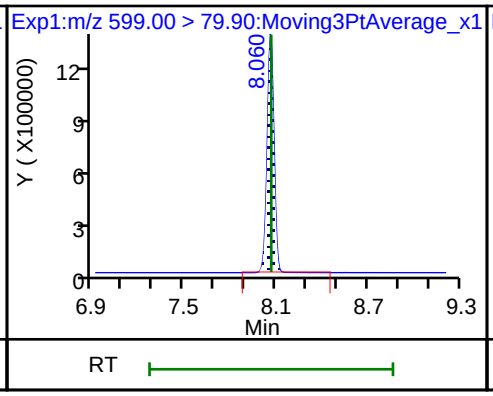
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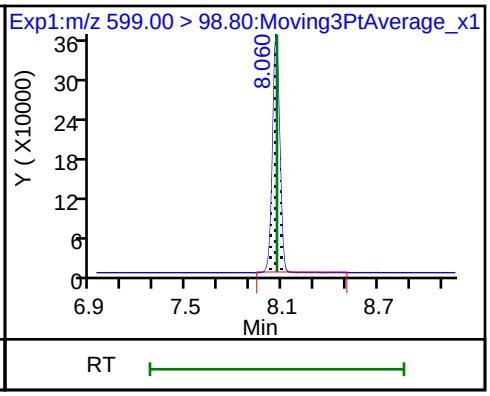
D 65 13C8 FOSA



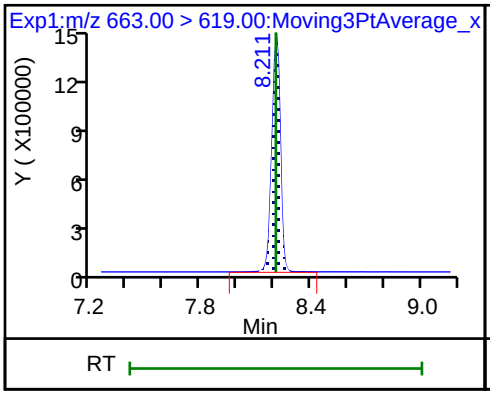
66 PFDS



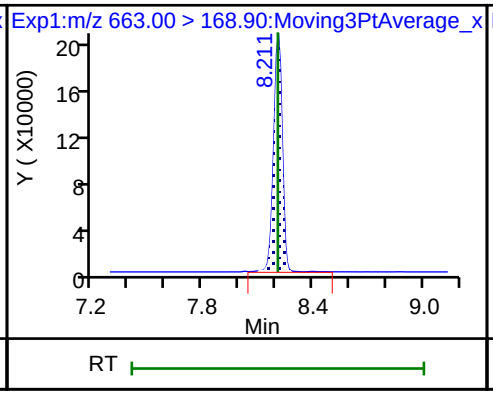
66 PFDS



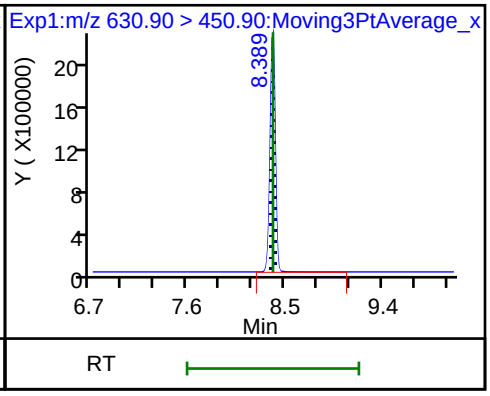
67 PFTrDA



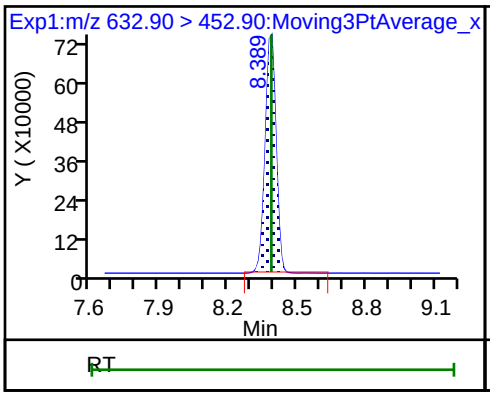
67 PFTrDA



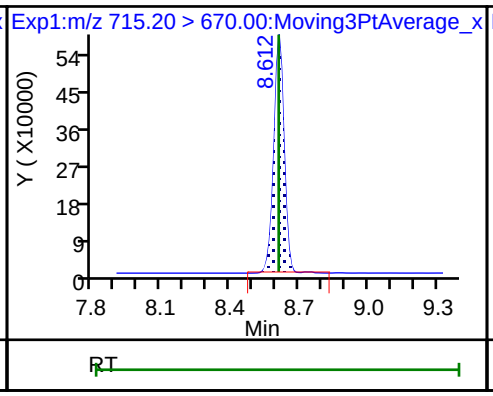
68 11ClFOS



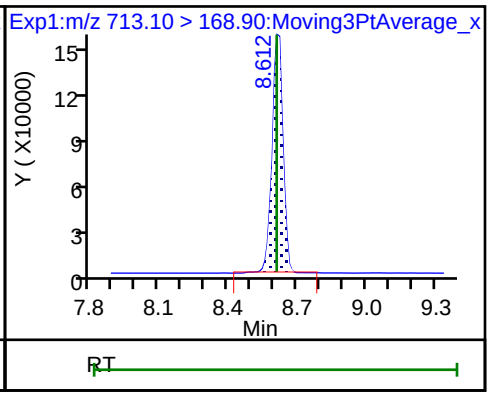
68 11ClFOS



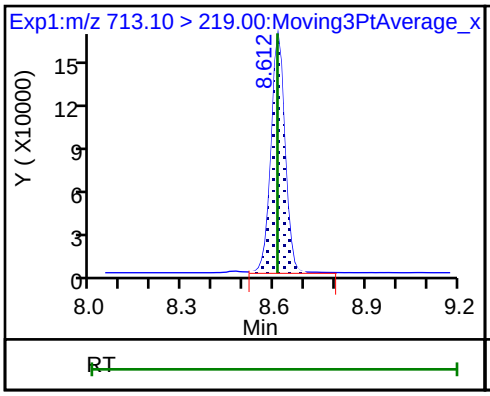
D 70 13C2 PFTeDA



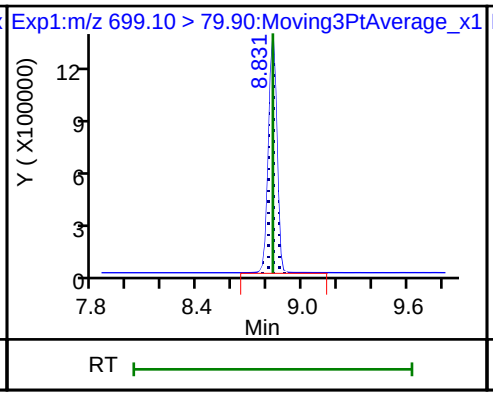
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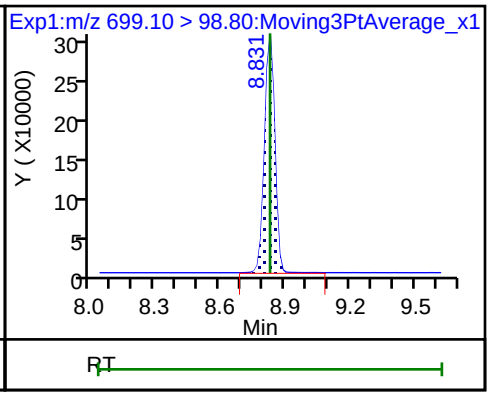
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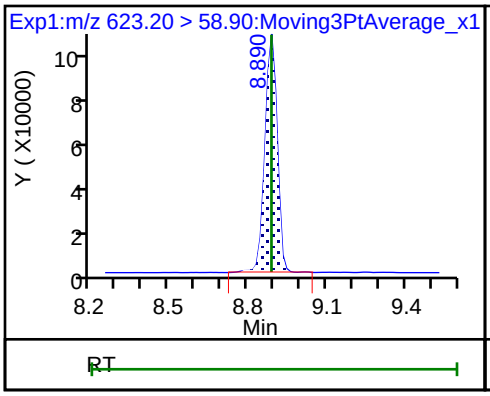
71 PFDoS



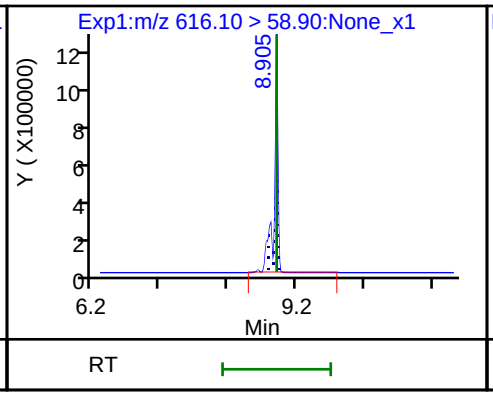
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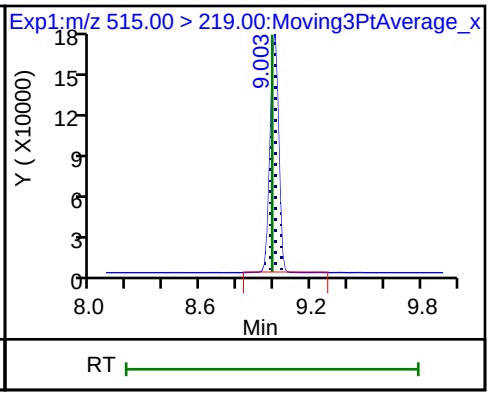
D 72 d7-N-Me-FOSE



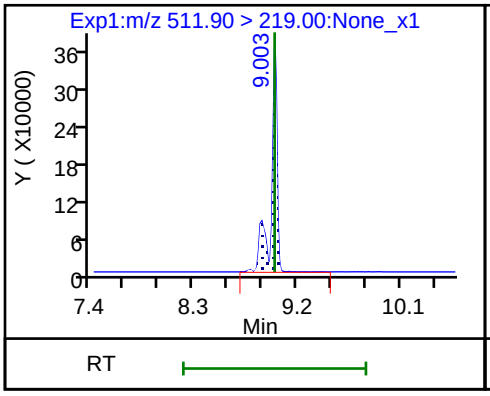
73 N-MeFOSE-M



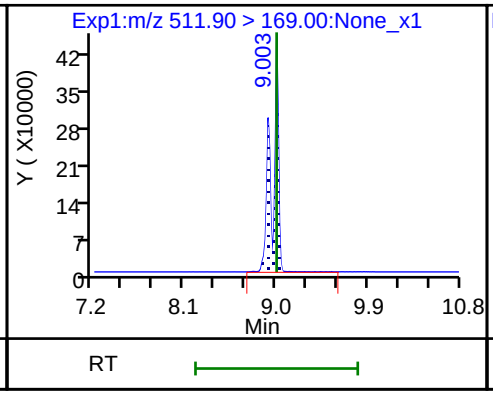
D 75 d3-NMePFOSA



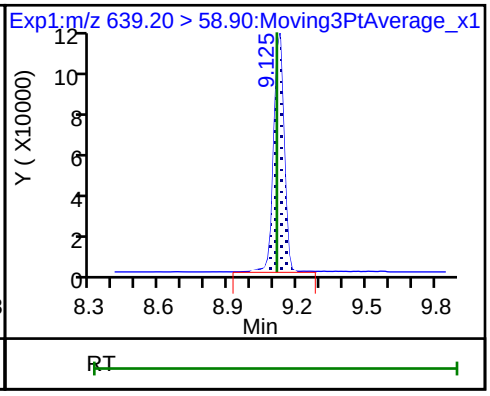
74 NMeFOSA



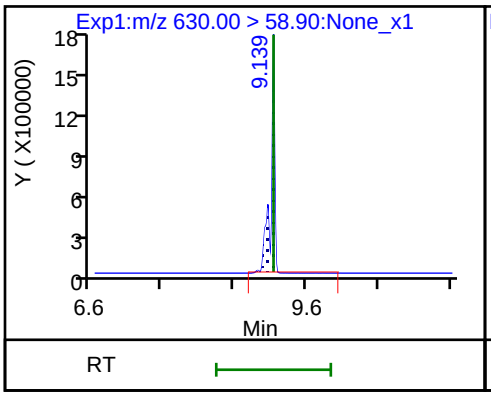
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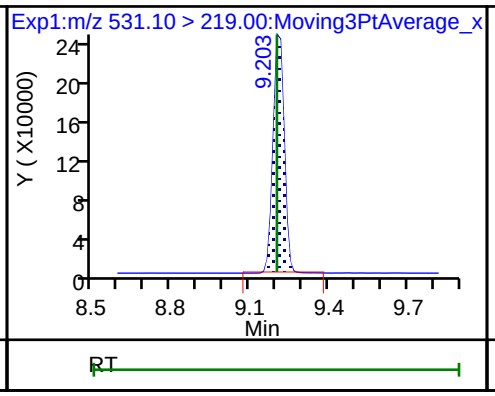
D 76 d9-N-EtFOSE



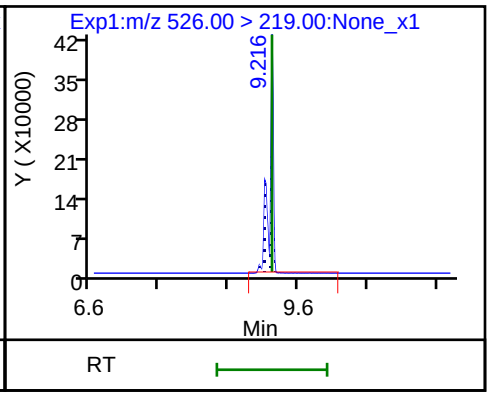
77 N-EtFOSE-M



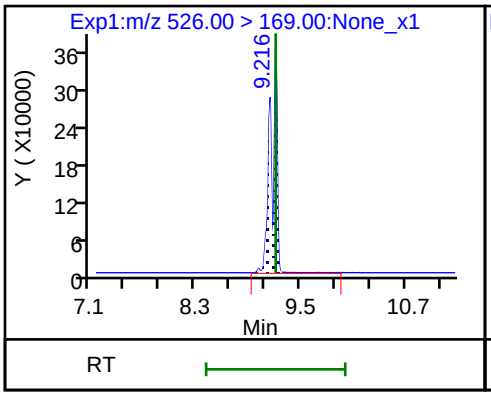
D 78 d5-NEtPFOSA



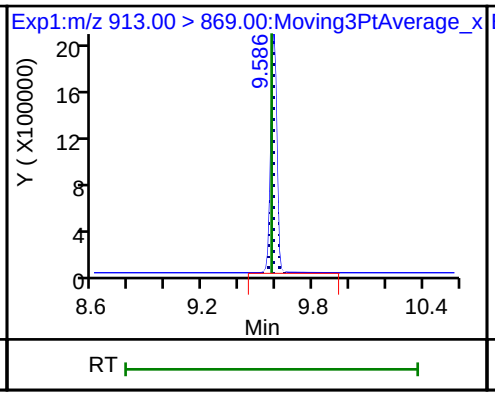
79 N-EtFOSA-M



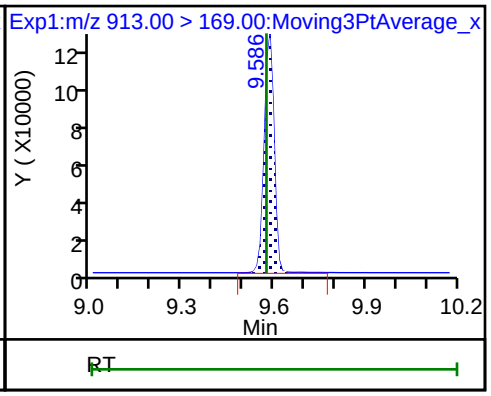
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-07.d
Lims ID: IC CAL 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 04-Feb-2026 11:00:55 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 7
Misc. Info.: Plate: 1 Rack: 1 410-0174606-007
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub12

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 13:00:45 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:31:43
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 13C3PFPrA										
166.00 > 121.00	2.027	2.027	0.0	0.485	1231335	2.01		101	2159	
2 Perfluoropropionic acid										
163.00 > 119.00	2.027	2.035	-0.008	1.000	27872967	49.3		98.6	123126	
3 PFBA										
212.80 > 168.90	4.173	4.173	0.0	0.998	15406616	20.2		101	53017	
D 4 13C4-PFBA										
216.80 > 171.90	4.180	4.173	0.007	1.000	1658805	2.01		100	4661	
* 5 13C3PFBA										
216.00 > 172.00	4.180	4.180	0.0		1612249	2.00			3490	
6 PFMPA										
229.00 > 84.90	4.504	4.503	0.001	0.932	8635205	9.81		98.1	4141	
7 3:3 FTCA										
241.00 > 177.00	4.513	4.512	0.001	0.934	830901	19.6	Target=1.17	98.1	2390	
241.00 > 117.00	4.513	4.512	0.001	0.934	701785		1.18(0.58-1.75)	98.1	2704	
D 8 13C5 PFPeA										
268.30 > 223.00	4.830	4.829	0.001	0.913	1719302	2.12		106	5704	
9 PFPA										
263.00 > 219.00	4.830	4.829	0.001	1.000	9920768	9.67		96.7	8570	
10 PFMBA										
279.00 > 85.10	4.985	4.982	0.003	1.032	11236924	9.65		96.5	4873	
12 4:2FTS										
327.10 > 307.00	5.111	5.099	0.012	1.000	6407144	18.2	Target=1.69	97.0	59793	
327.10 > 80.90	5.111	5.099	0.012	1.000	3840491		1.67(0.85-2.54)	97.0	3430	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.111	5.099	0.012	0.802	892662	4.63		98.8	4004	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.249	5.247	0.002	0.992	2345127	9.43	Target=1.47	94.3	4959	
295.00 > 84.90	5.249	5.247	0.002	0.992	1485464		1.58(0.74-2.21)	94.3	3440	
D 15 13C5 PFHxA										
318.00 > 273.00	5.292	5.280	0.012	1.000	1992540	2.02		101	4724	
* 16 13C2 PFHxA										
315.10 > 270.00	5.292	5.290	0.002		4651138	5.00			5243	
17 PFHxA										
313.00 > 269.00	5.292	5.290	0.002	1.000	8395805	9.75	Target=10.33	97.5	5168	
313.00 > 118.90	5.292	5.290	0.002	1.000	818719		10.25(5.17-15.50)	97.5	1731	
18 5:3 FTCA										
341.00 > 237.10	5.367	5.365	0.002	1.014	6334014	52.7	Target=0.77	105	3496	
341.00 > 217.00	5.367	5.365	0.002	1.014	7956348		0.80(0.38-1.15)	105	4146	
D 19 13C3 PFBS										
302.10 > 79.90	5.428	5.426	0.002	0.852	2067716	2.00		107	7497	
20 PFBS										
298.70 > 79.90	5.437	5.426	0.011	1.002	8578936	8.63	Target=3.28	97.2	5110	
298.70 > 98.80	5.437	5.426	0.011	1.002	2760962		3.11(1.64-4.92)	97.2	5757	
23 HFPO-DA										
284.90 > 168.90	5.476	5.474	0.002	1.000	5648678	7.70	Target=2.47	103	4584	
284.90 > 184.90	5.476	5.474	0.002	1.000	2351897		2.40(1.23-3.70)	103	8626	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.476	5.474	0.002	1.035	1369222	2.04		102	5433	
21 FBSA										
297.90 > 78.00	5.518	5.517	0.001	1.017	8972059	10.2		102	2743	
26 PFEESA										
314.80 > 134.90	5.679	5.667	0.012	1.073	20349028	8.55	Target=12.38	95.8	9851	
314.80 > 82.90	5.679	5.667	0.012	1.073	1693313		12.02(6.19-18.57)	95.8	4007	
27 PFHpA										
363.10 > 319.00	5.722	5.709	0.013	1.002	8331533	9.97	Target=1.90	99.7	4144	
363.10 > 169.00	5.711	5.709	0.002	1.000	4379256		1.90(0.95-2.85)	99.7	7110	
D 28 13C4 PFHpA										
367.10 > 322.00	5.711	5.709	0.002	1.079	1990334	2.07		103	4859	
29 ADONA										
376.90 > 250.90	5.877	5.865	0.012	1.073	22960089	9.61	Target=2.21	102	6849	
376.90 > 84.80	5.877	5.865	0.012	1.073	10351549		2.22(1.10-3.31)	102	7699	
30 PFPeS										
349.10 > 79.90	5.919	5.918	0.001	0.929	9780459	9.22	Target=3.14	98.1	15286	
349.10 > 98.90	5.919	5.918	0.001	0.929	3007355		3.25(1.57-4.71)	98.1	7012	
31 6:2FTS										
427.10 > 407.00	5.919	5.918	0.001	1.000	5002833	18.3	Target=1.66	96.1	4154	
427.10 > 80.90	5.919	5.918	0.001	1.000	3141280		1.59(0.83-2.48)	96.1	3870	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.919	5.918	0.001	0.929	694978	4.27		89.7	2052	
33 BTS										
280.00 > 147.00	6.093	6.091	0.002	0.957	19919634	9.98		102	9649	
* 34 13C4 PFOA										
417.10 > 372.00	6.133	6.121	0.012		6461059	5.00			4674	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.133	6.121	0.012	1.000	2580488	1.96		98.0	4117	
36 PFOA										
413.00 > 369.00	6.133	6.121	0.012	1.000	8238143	10.3	Target=1.85	103	7089	
413.00 > 169.00	6.133	6.121	0.012	1.000	4331480		1.90(0.93-2.78)	103	3454	
37 7:3 FTCA										
441.00 > 316.90	6.214	6.212	0.002	1.174	3246409	56.4	Target=0.30	113	2994	
441.00 > 336.90	6.214	6.212	0.002	1.174	9914474		0.33(0.15-0.45)	113	3970	
40 PFHxS										
398.70 > 79.90	6.369	6.357	0.012	1.000	6320687	8.92	Target=3.16	97.8	8624	
398.70 > 98.90	6.379	6.357	0.022	1.002	2023185		3.12(1.58-4.75)	97.8	3352	
D 38 13C3 PFHxS										
402.10 > 79.90	6.369	6.367	0.002	1.000	1738785	1.99		105	4225	
* 39 18O2 PFHxS										
403.00 > 83.90	6.369	6.367	0.002		1539456	1.90			5352	
* 42 13C5 PFNA										
468.00 > 423.00	6.549	6.535	0.014		1873295	2.00			4283	
D 41 13C9 PFNA										
472.10 > 427.00	6.549	6.535	0.014	1.000	1971079	2.03		102	2656	
43 PFNA										
463.00 > 419.00	6.549	6.546	0.003	1.000	8284001	9.68	Target=2.07	96.8	8442	
463.00 > 219.00	6.538	6.546	-0.008	0.998	4080665		2.03(1.03-3.11)	96.8	3040	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.727	6.725	0.002	1.056	779019	4.63		96.5	3062	
45 8:2FTS										
527.10 > 507.00	6.727	6.725	0.002	1.000	5479669	19.4	Target=1.94	101	4349	
527.10 > 80.80	6.727	6.725	0.002	1.000	2785962		1.97(0.97-2.91)	101	3447	
46 PFECHS										
461.00 > 381.00	6.765	6.763	0.002	1.062	1934194	9.38	Target=0.18	102	1055	
461.00 > 99.00	6.774	6.763	0.011	1.064	10859504		0.18(0.09-0.26)	102	82714	
47 PFHpS										
449.00 > 79.90	6.811	6.808	0.003	0.942	9162028	9.53	Target=3.74	99.9	6051	
449.00 > 98.80	6.811	6.808	0.003	0.942	2521501		3.63(1.87-5.60)	99.9	6346	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.890	6.888	0.002	0.953	1848250	5.01		100	3228	
50 NMeFOSAA										
570.10 > 419.00	6.900	6.897	0.003	1.001	3695119	10.3	Target=1.81	103	1442	
570.10 > 483.00	6.900	6.897	0.003	1.001	2106470		1.75(0.91-2.72)	103	3089	
48 FHxSA										
397.90 > 78.00	6.929	6.916	0.013	1.088	12102997	10.1		101	3724	
53 PFDA										
512.90 > 469.00	6.960	6.957	0.003	1.000	7822174	10.9	Target=3.70	109	14214	
512.90 > 219.00	6.960	6.957	0.003	1.000	2093713		3.74(1.85-5.54)	109	5871	
D 52 13C6 PFDA										
519.10 > 474.10	6.960	6.957	0.003	1.000	1953046	2.00		99.8	4979	
* 51 13C2 PFDA										
515.10 > 470.10	6.960	6.957	0.003		1985750	2.00			4451	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.080	7.068	0.012	0.979	1650215	5.18		104	2794	
55 NEtFOSAA										
584.20 > 419.10	7.080	7.088	-0.008	1.000	2858975	9.87	Target=1.29	98.7	3147	
584.20 > 526.00	7.090	7.088	0.002	1.001	2200418		1.30(0.65-1.94)	98.7	4574	
D 56 13C8 PFOS										
507.10 > 79.90	7.232	7.230	0.002	1.000	1469928	1.85		96.4	5041	
* 57 13C4 PFOS										
502.80 > 79.90	7.232	7.230	0.002		1370112	1.92			6138	
58 PFOS										
498.90 > 79.90	7.232	7.239	-0.007	1.000	9601591	9.24	Target=4.49	99.4	19372	
498.90 > 98.80	7.232	7.239	-0.007	1.000	2124741		4.52(2.24-6.73)	99.4	4895	
D 59 13C7 PFUnA										
570.00 > 525.10	7.387	7.374	0.013	1.061	1936102	1.98		99.2	3414	
60 PFUnA										
563.10 > 519.00	7.377	7.384	-0.007	0.999	6617875	9.74	Target=5.00	97.4	6362	
563.10 > 269.10	7.377	7.384	-0.007	0.999	1407673		4.70(2.50-7.49)	97.4	4201	
61 9ClFOS										
530.80 > 351.00	7.562	7.560	0.002	1.046	20614782	9.76	Target=3.04	105	9285	
532.80 > 353.00	7.553	7.560	-0.007	1.045	7111348		2.90(1.52-4.56)	105	6582	
62 PFNS										
548.80 > 79.90	7.656	7.653	0.003	1.059	6379933	9.72	Target=3.71	101	8024	
548.80 > 98.80	7.656	7.653	0.003	1.059	1763168		3.62(1.85-5.56)	101	6452	
D 81 PFDoA										
615.10 > 570.00	7.798	7.797	0.001	1.121	2011267	2.15		107	2299	
63 PFDoA										
613.10 > 569.00	7.798	7.797	0.001		8545388	9.10	Target=5.74	91.0	6665	
613.10 > 319.00	7.798	7.797	0.001		1629350		5.24(2.87-8.61)	91.0	4444	
64 PFOSA										
498.10 > 77.90	8.019	8.008	0.011	1.000	9292564	10.1	Target=41.30	101	6529	
498.10 > 478.00	8.011	8.008	0.003	0.999	218954		42.44(20.65-61.94)	101	553	
D 65 13C8 FOSA										
506.10 > 77.80	8.019	8.008	0.011	1.109	1671709	2.04		102	4059	
66 PFDS										
599.00 > 79.90	8.068	8.066	0.002	1.116	8258193	9.44	Target=3.87	98.0	7682	
599.00 > 98.80	8.068	8.066	0.002	1.116	2107554		3.92(1.93-5.80)	98.0	6147	
67 PFTrDA										
663.00 > 619.00	8.210	8.208	0.002	0.953	8450329	10.0	Target=6.63	100	5196	
663.00 > 168.90	8.210	8.208	0.002	0.953	1233757		6.85(3.32-9.95)	100	2636	
68 11ClFOS										
630.90 > 450.90	8.389	8.387	0.002	1.160	14701723	10.1	Target=3.04	107	11074	
632.90 > 452.90	8.389	8.387	0.002	1.160	4832451		3.04(1.52-4.56)	107	8826	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.611	8.610	0.001	1.237	1664135	1.97		98.6	4694	
69 PFTeDA										
713.10 > 168.90	8.611	8.610	0.001	1.000	951858	10.2	Target=1.02	102	2154	
713.10 > 219.00	8.611	8.610	0.001	1.000	876233		1.09(0.51-1.53)	102	822	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.815	8.830	-0.015	1.219	8337721	9.70	Target=4.07	100.0	3331	
699.10 > 98.80	8.815	8.830	-0.015	1.219	2063186		4.04(2.04-6.11)	100.0	3673	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.875	8.889	-0.014	1.227	353168	5.36		107	768	
73 N-MeFOSE-M										
616.10 > 58.90	8.889	8.903	-0.014	1.002	8475999	46.9		93.7	5747	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.989	8.988	0.001	1.243	559689	2.15		108	2616	
74 NMeFOSA										
511.90 > 219.00	8.989	9.002	-0.013	1.000	2576670	9.70	Target=0.72	97.0	3018	
511.90 > 169.00	9.003	9.002	0.001	1.002	3637520		0.71(0.36-1.07)	97.0	11356	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.111	9.111	0.0	1.260	373195	5.25		105	861	
77 N-EtFOSE-M										
630.00 > 58.90	9.125	9.138	-0.013	1.001	12479674	50.6		101	10684	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.203	9.202	0.001	1.273	719454	2.15		108	3204	
79 N-EtFOSA-M										
526.00 > 219.00	9.215	9.215	0.0	1.001	3021215	9.66	Target=0.87	96.6	3692	
526.00 > 169.00	9.203	9.215	-0.012	1.000	3428107		0.88(0.43-1.30)	96.6	5170	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.575	9.574	0.0	1.112	8448879	11.0	Target=17.07	110	61763	
913.00 > 169.00	9.575	9.574	0.0	1.112	569753		14.83(8.53-25.60)	110	15082	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL7_00039 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 13:00:48 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-07.d

Injection Date: 04-Feb-2026 11:00:55 Instrument ID: 30577

Lims ID: IC CAL 7

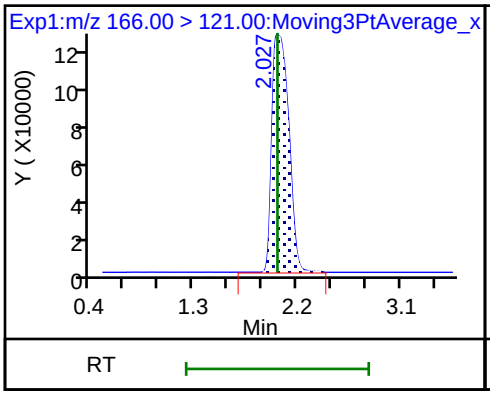
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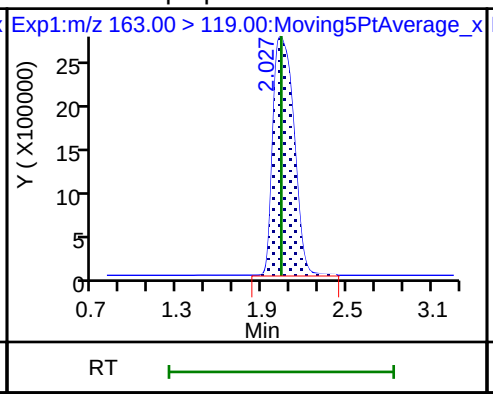
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Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

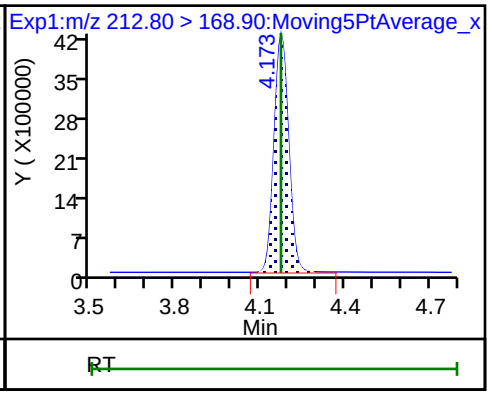
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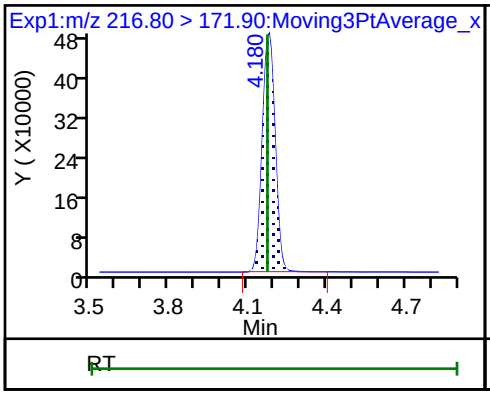
2 Perfluoropropionic acid



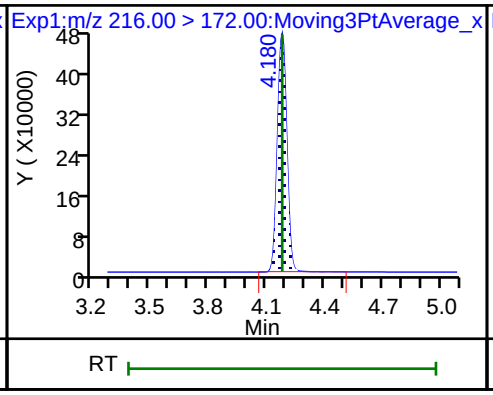
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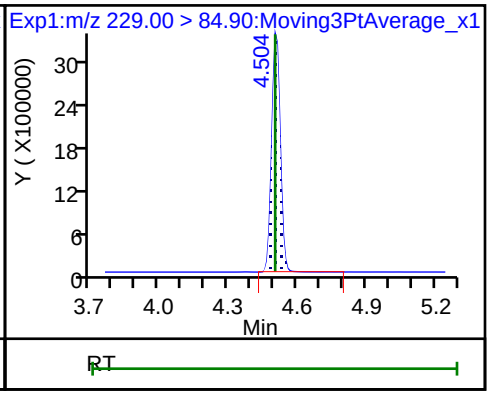
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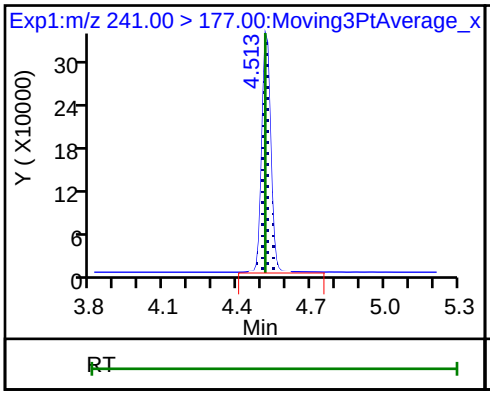
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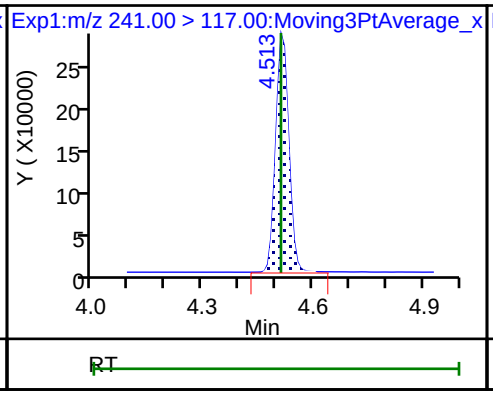
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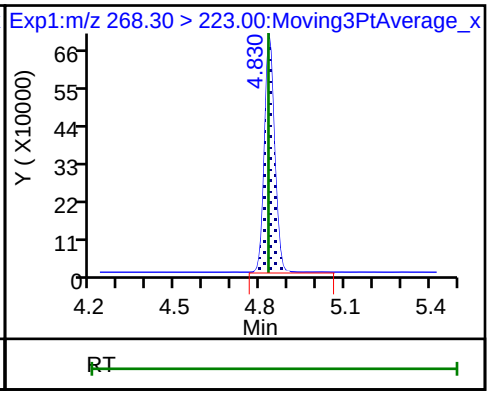
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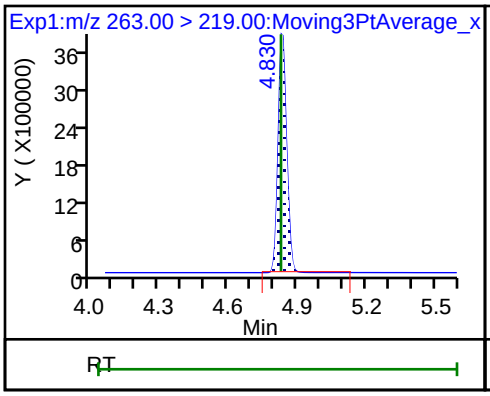
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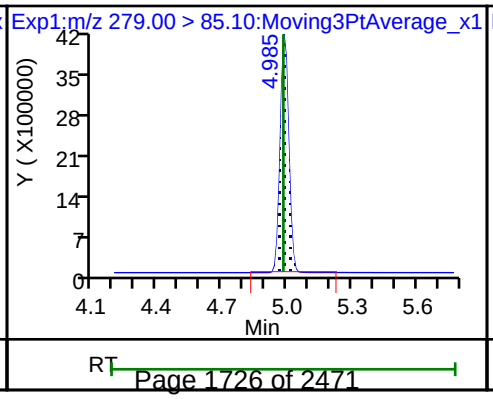
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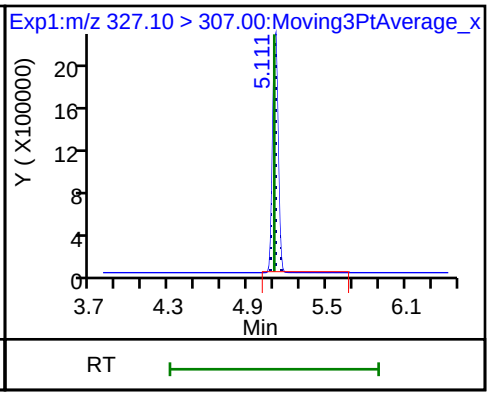
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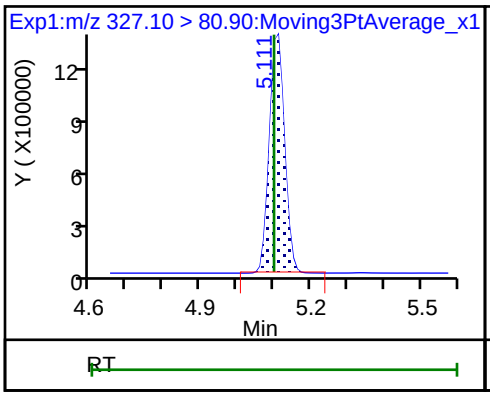
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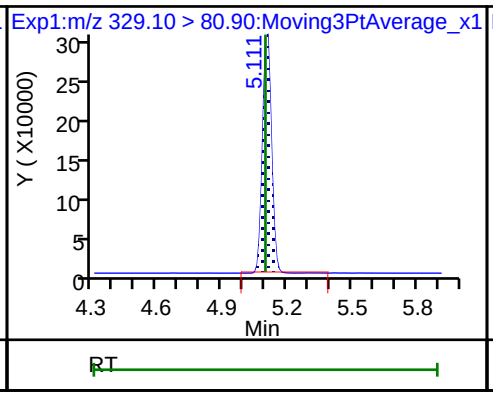
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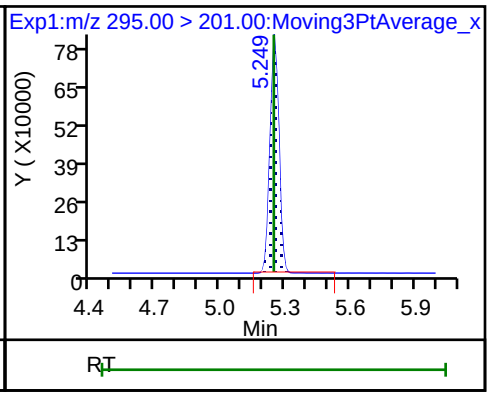
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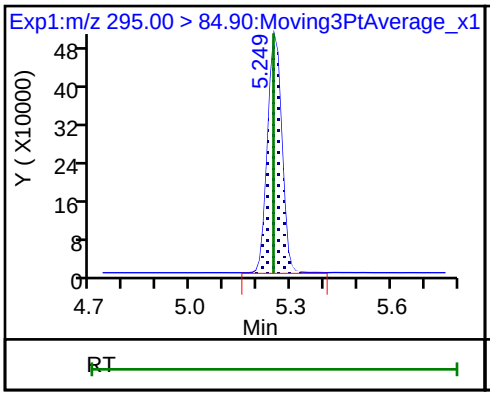
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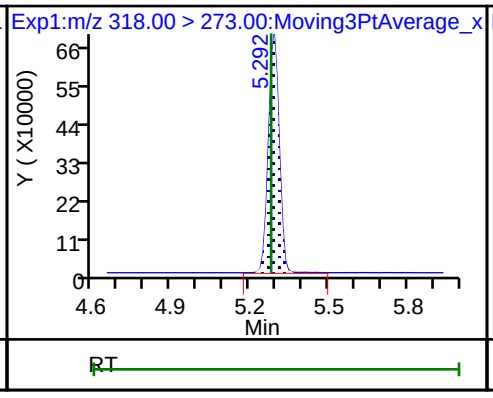
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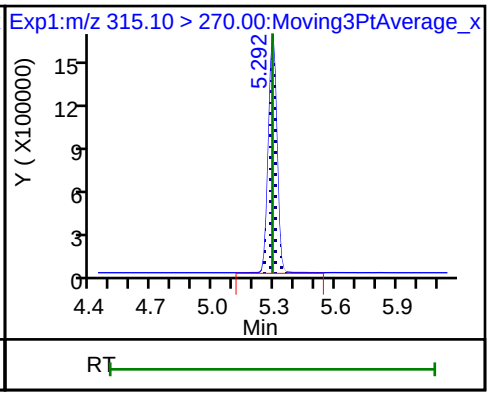
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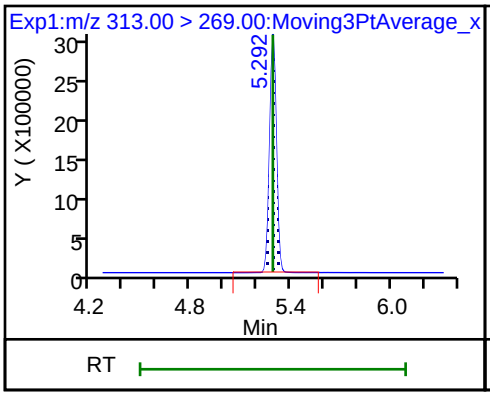
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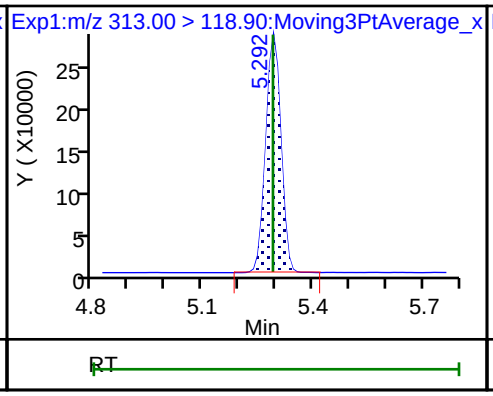
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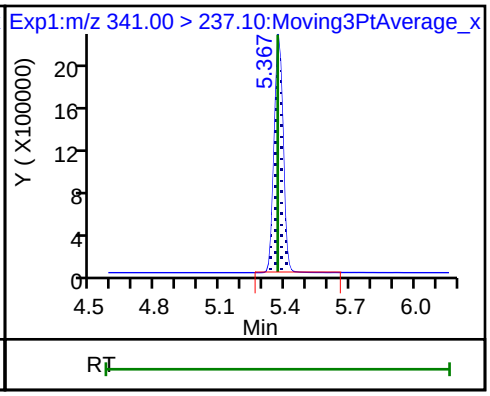
17 PFHxA



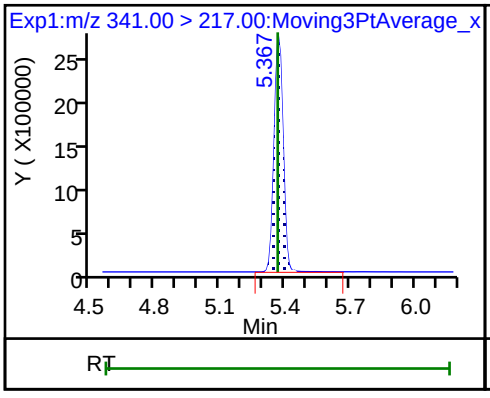
17 PFHxA



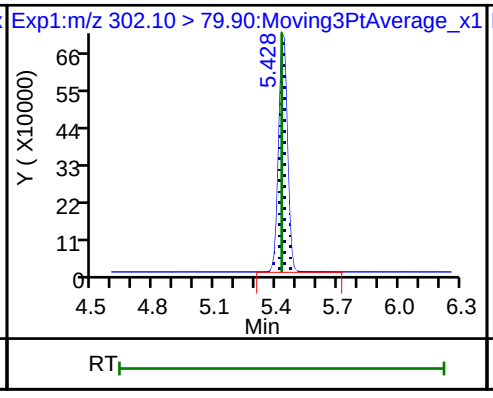
18 5:3 FTCA



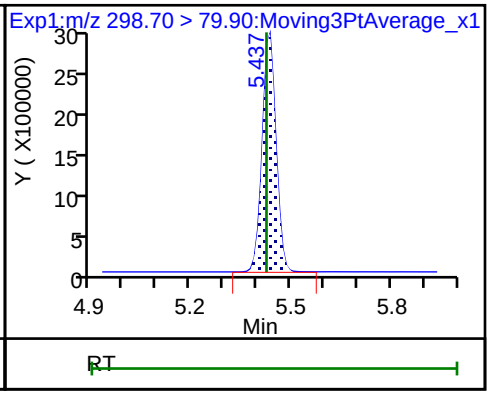
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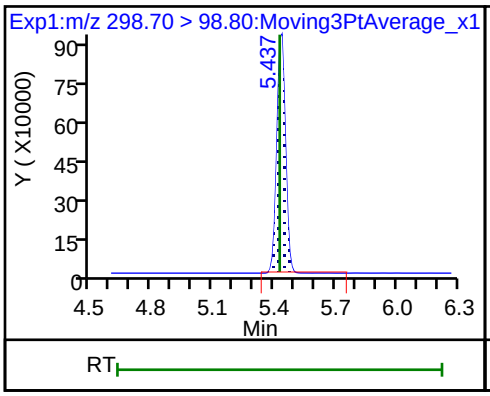
D 19 13C3 PFBS



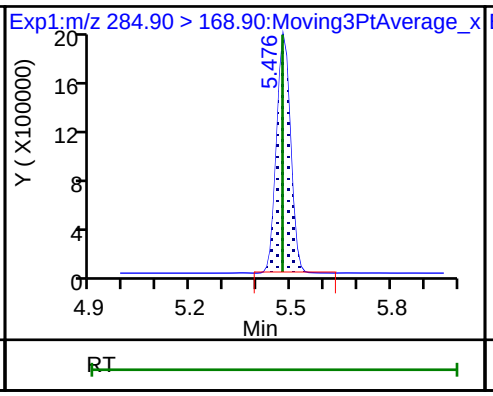
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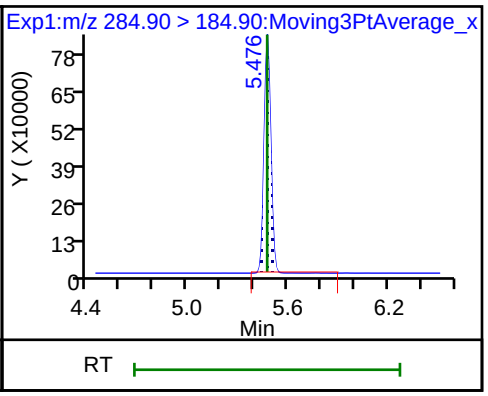
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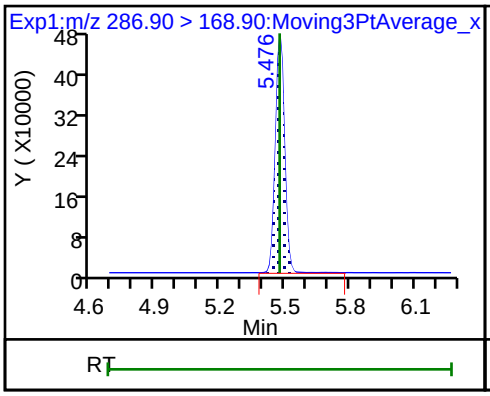
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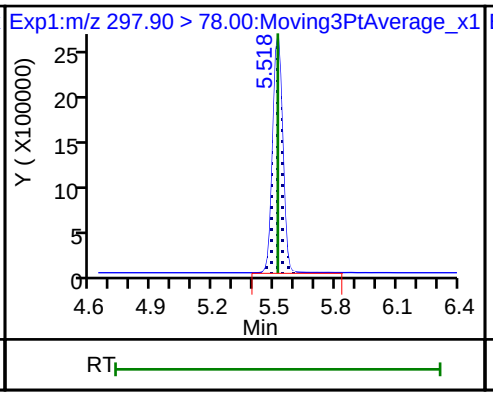
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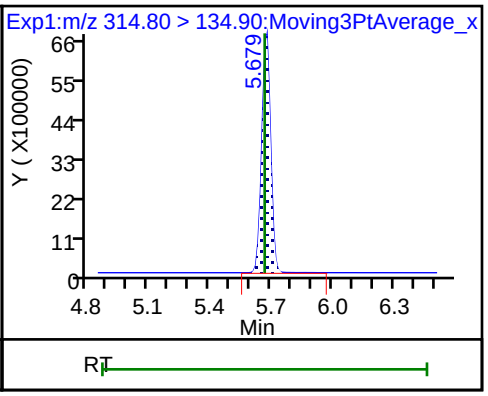
D 22 13C3 HFPO-DA



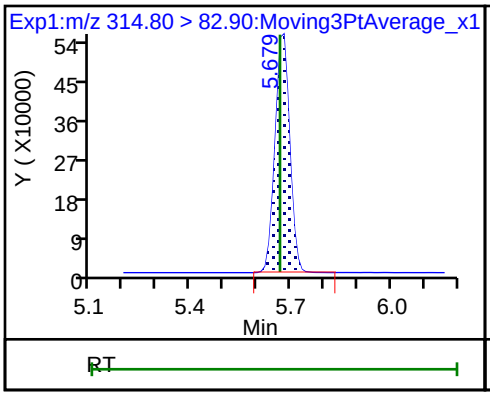
21 FBSA



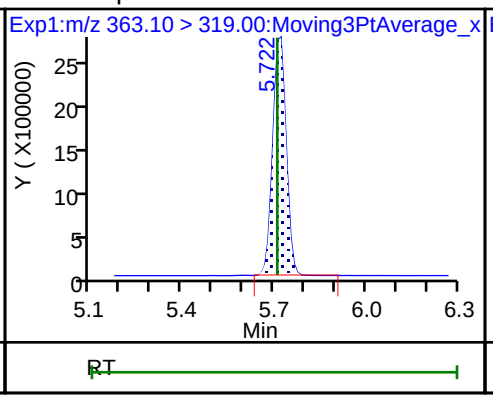
26 PFEESA



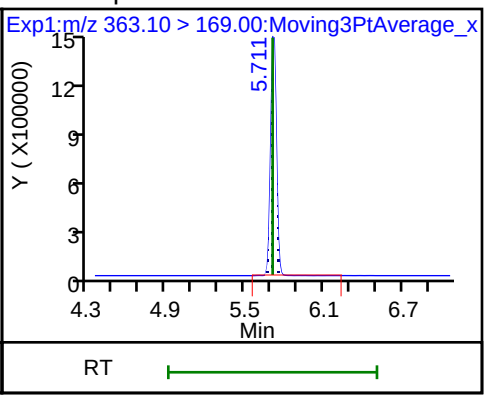
26 PFEESA



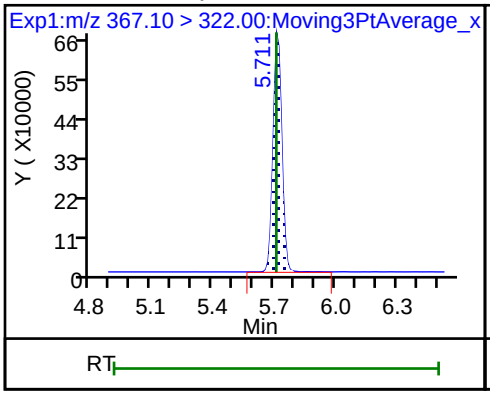
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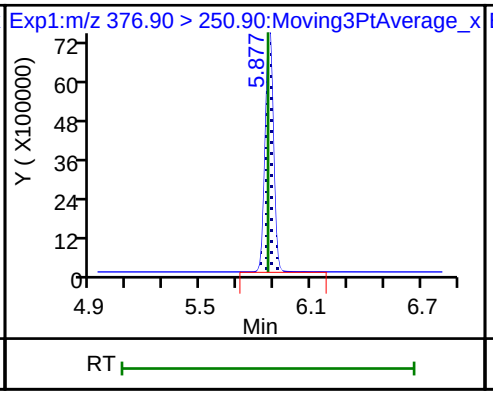
27 PFHpA



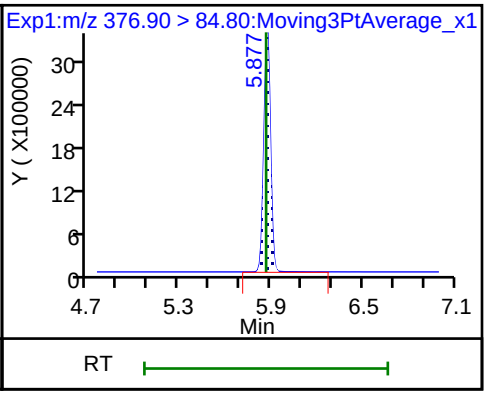
D 28 13C4 PFHpA



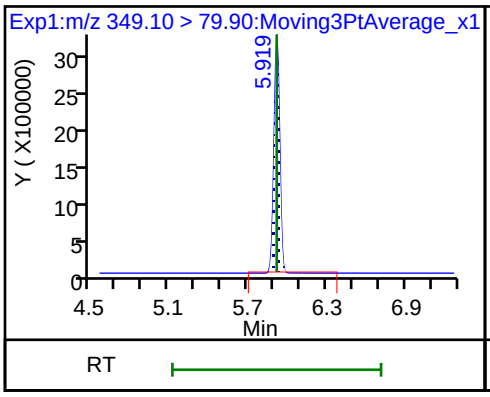
29 ADONA



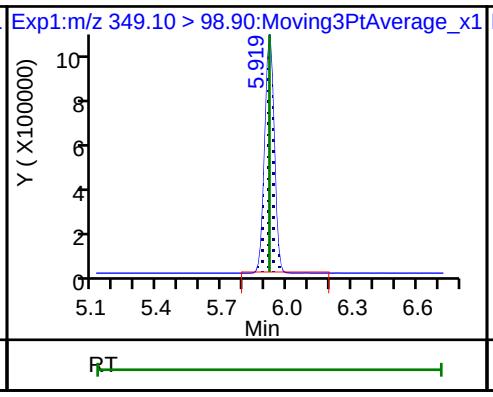
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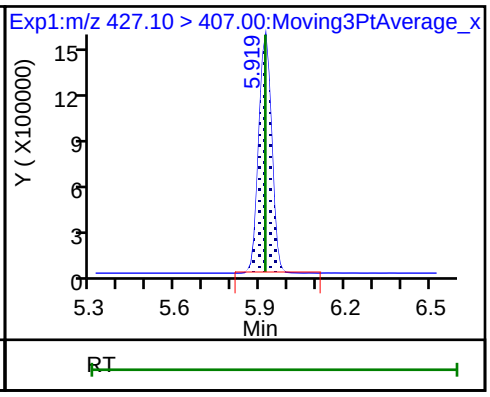
30 PFPeS



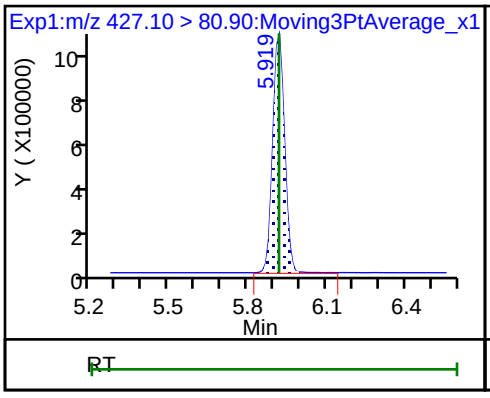
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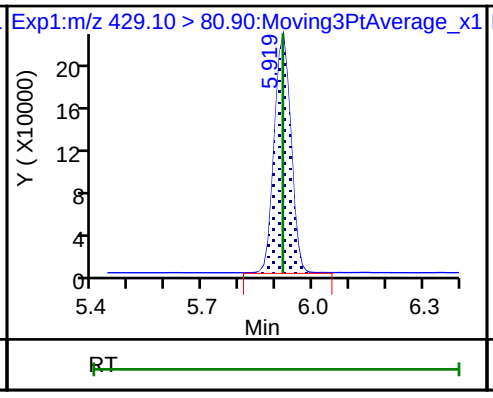
31 6:2FTS



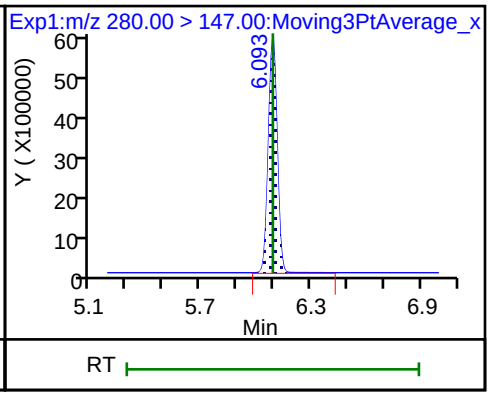
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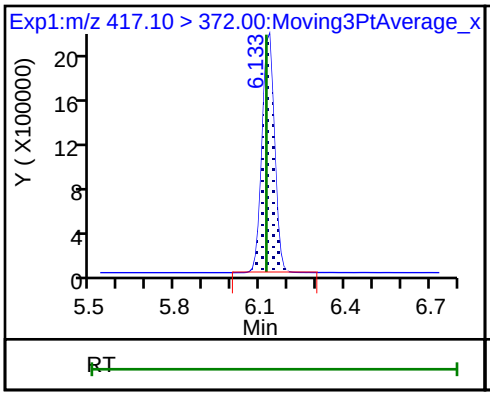
D 32 13C2-6:2FTS



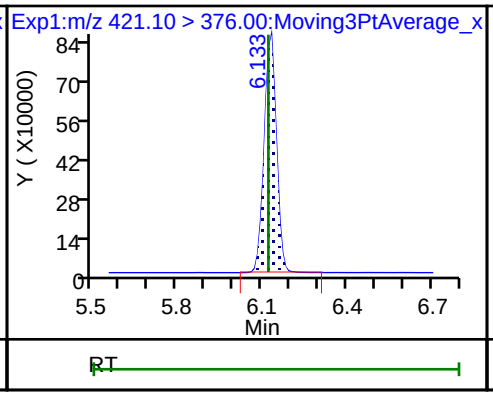
33 BTS



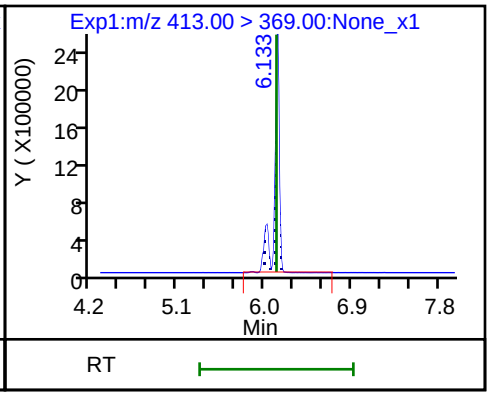
* 34 13C4 PFOA



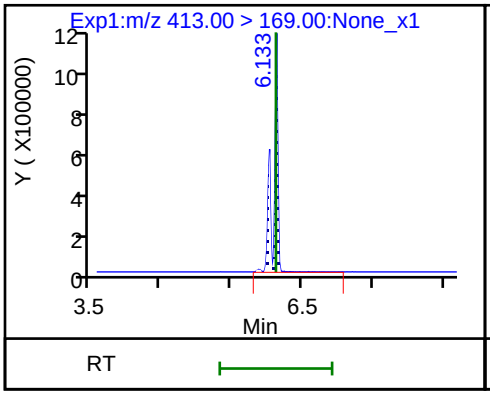
D 35 13C8 PFOA



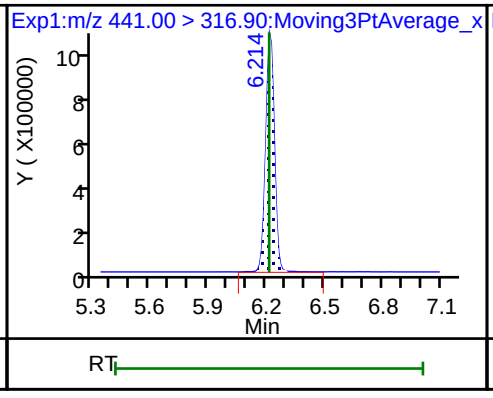
36 PFOA



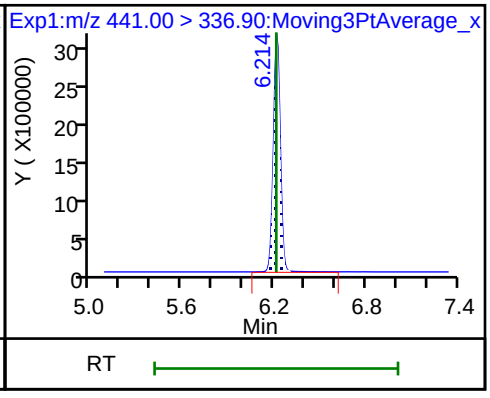
36 PFOA



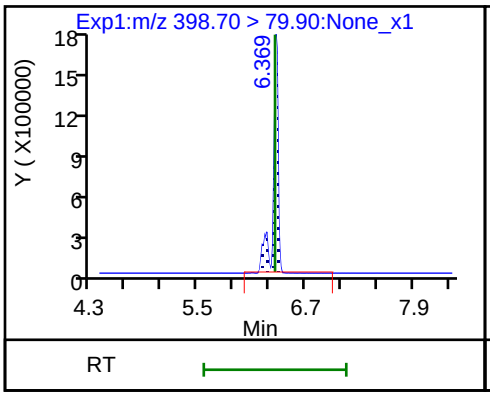
37 7:3 FTCA



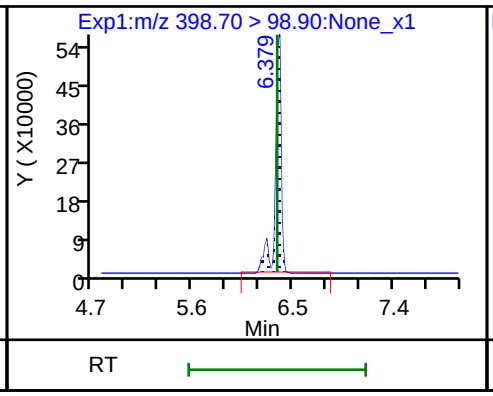
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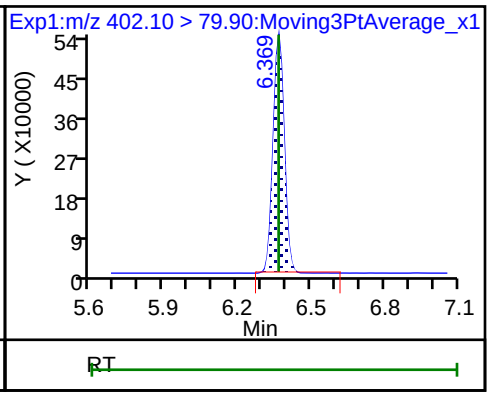
40 PFHxS



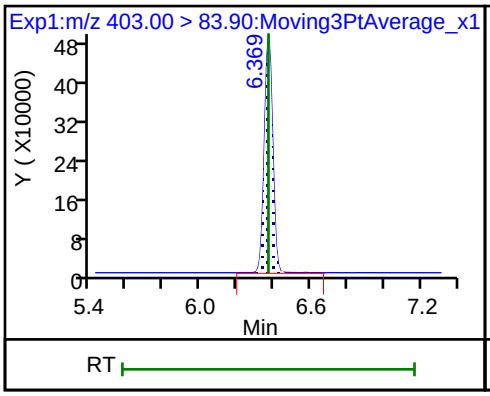
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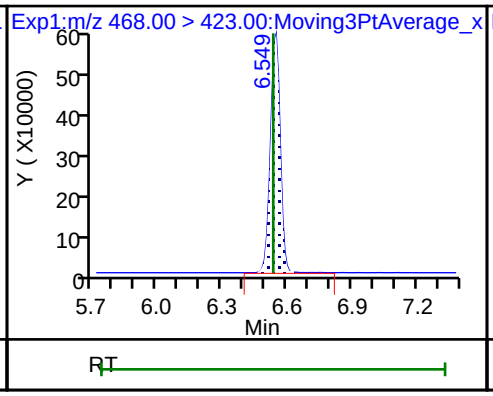
D 38 13C3 PFHxS



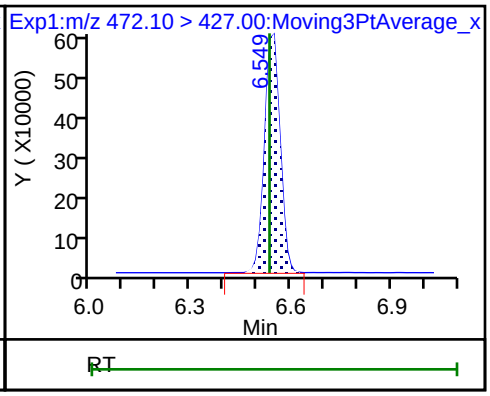
* 39 18O2 PFHxS



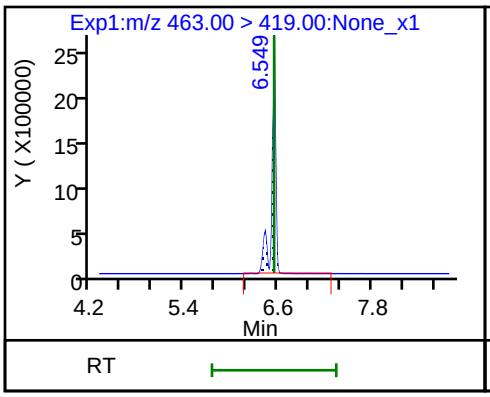
* 42 13C5 PFNA



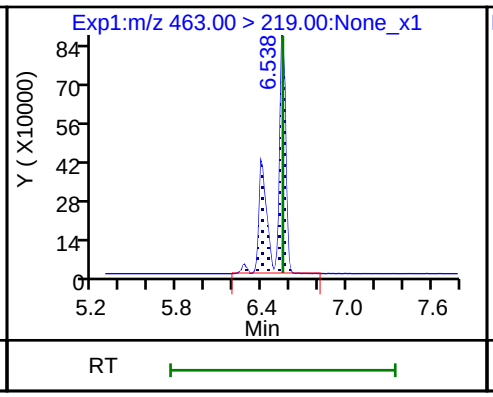
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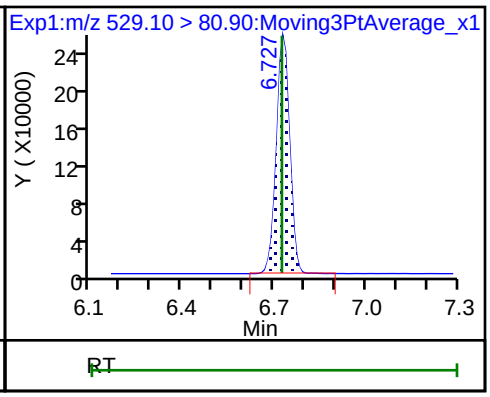
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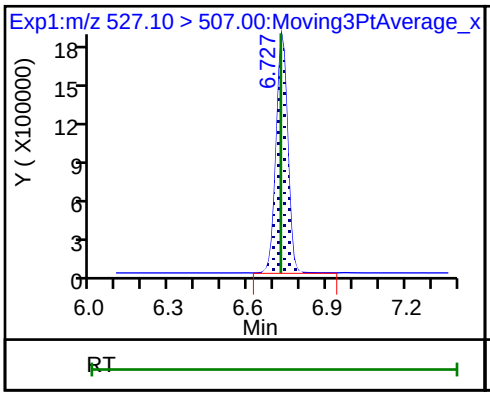
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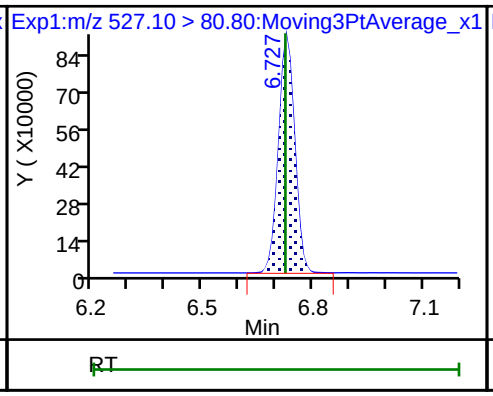
D 44 13C2-8:2FTS



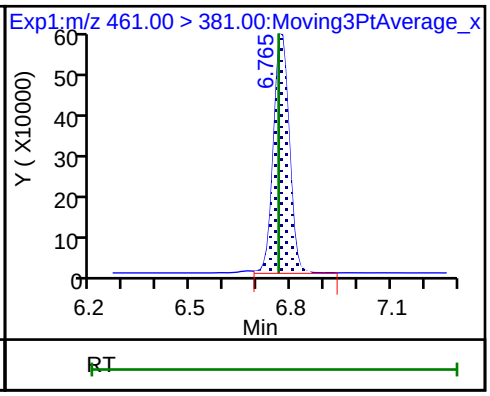
45 8:2FTS



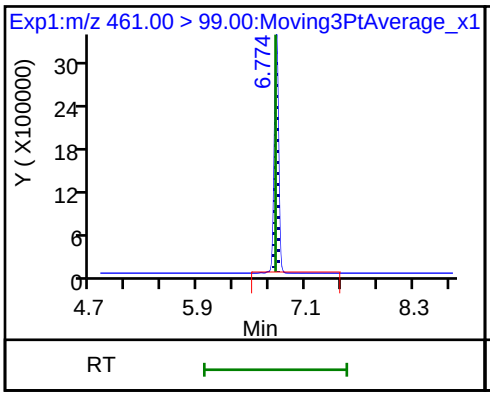
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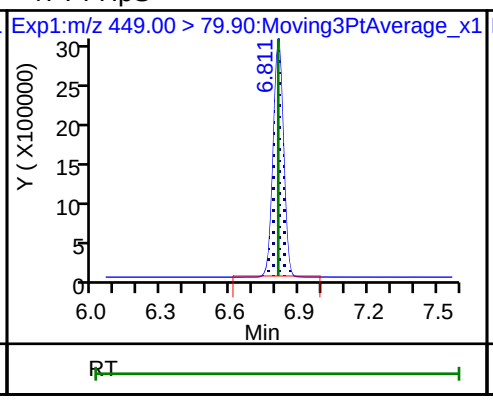
46 PFECHS



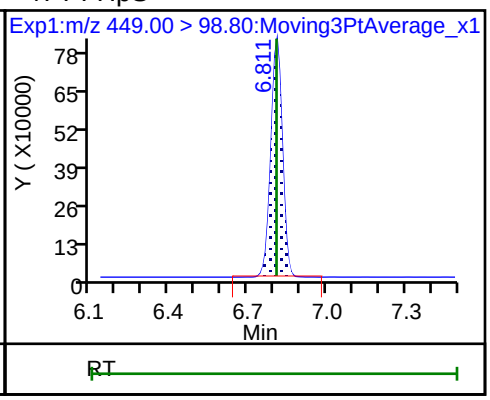
46 PFECHS



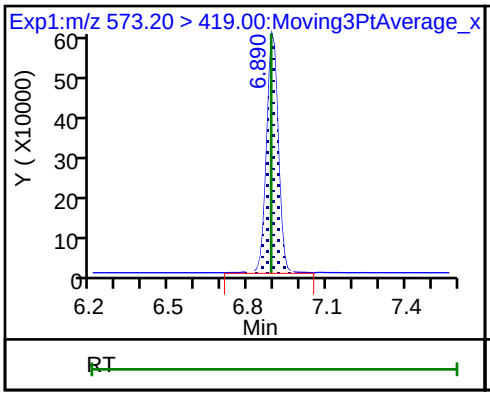
47 PFHpS



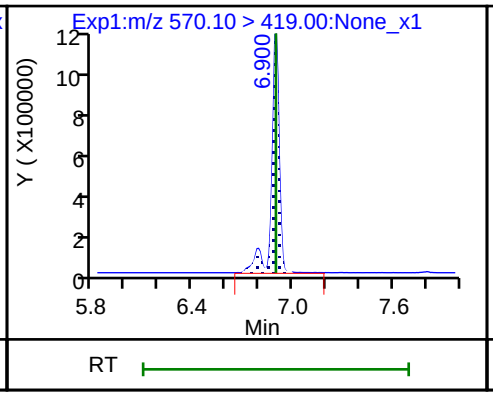
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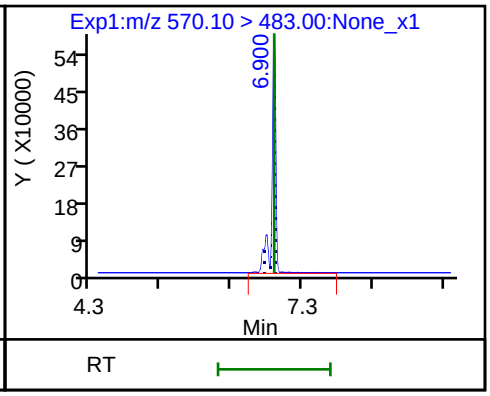
D 49 d3-NMeFOSAA



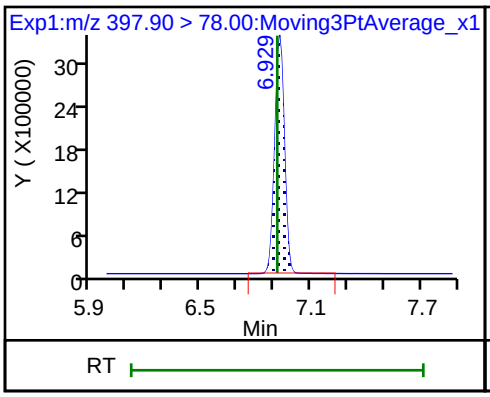
50 NMeFOSAA



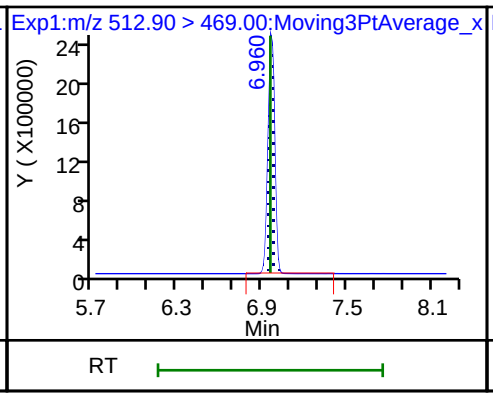
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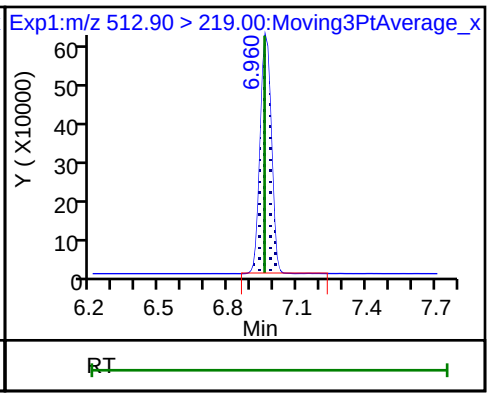
48 FHxSA



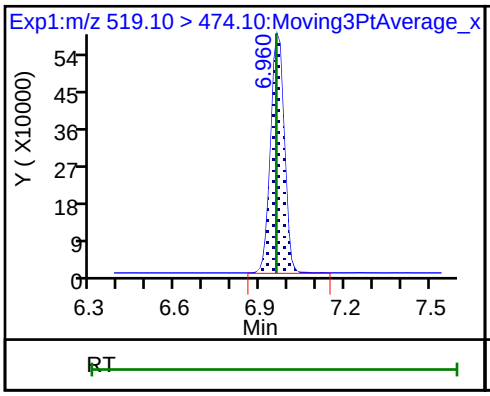
53 PFDA



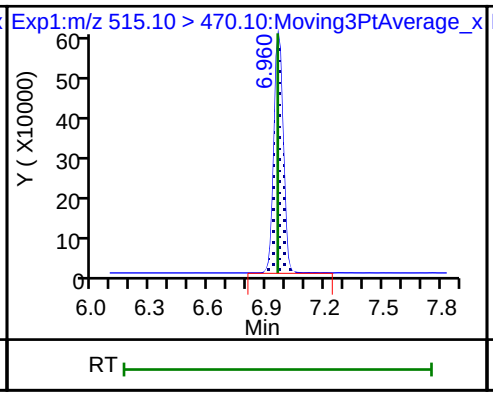
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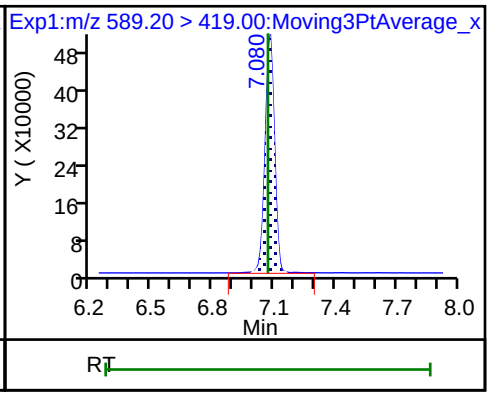
D 52 13C6 PFDA



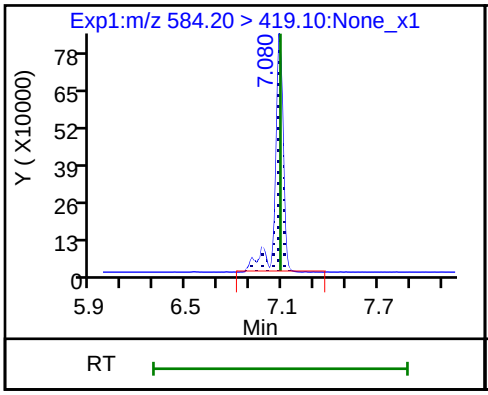
* 51 13C2 PFDA



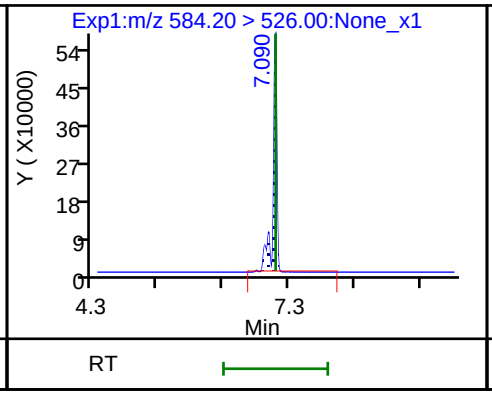
D 54 d5-NEtFOSAA



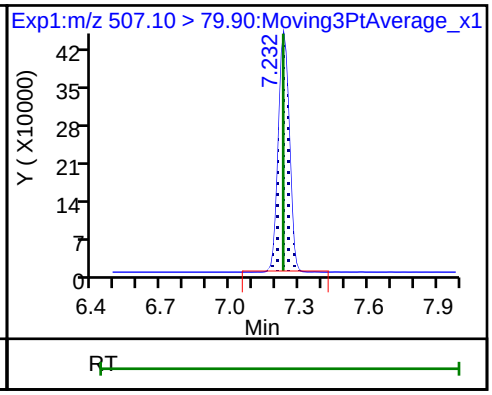
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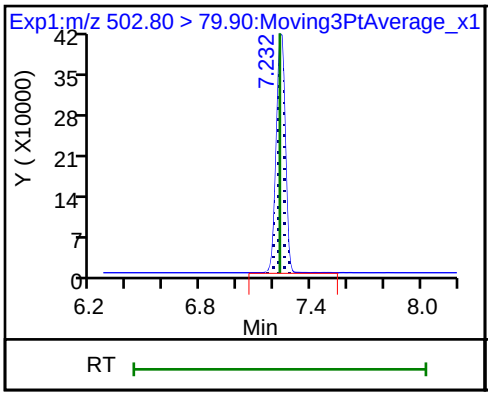
55 NEtFOSAA



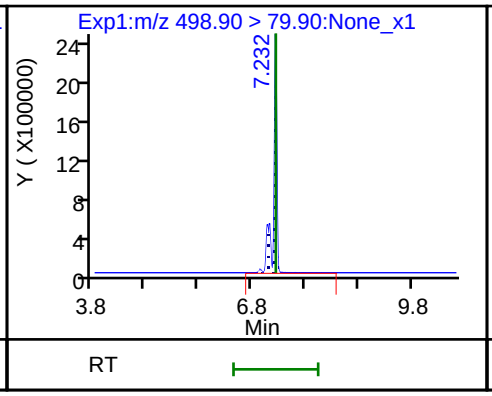
D 56 13C8 PFOS



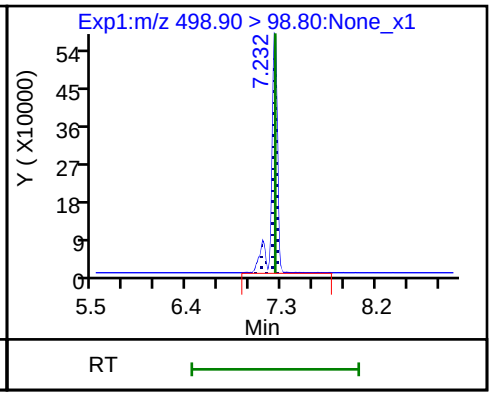
* 57 13C4 PFOS



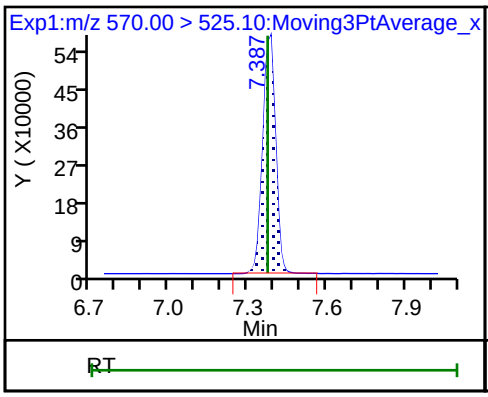
58 PFOS



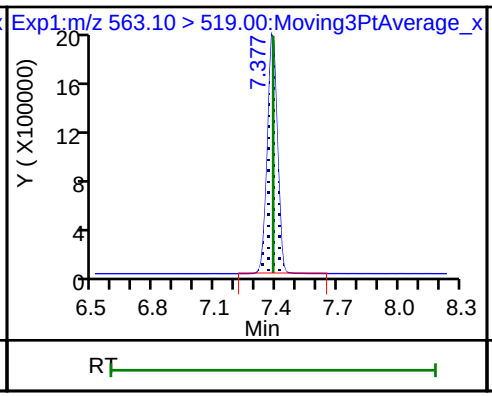
58 PFOS



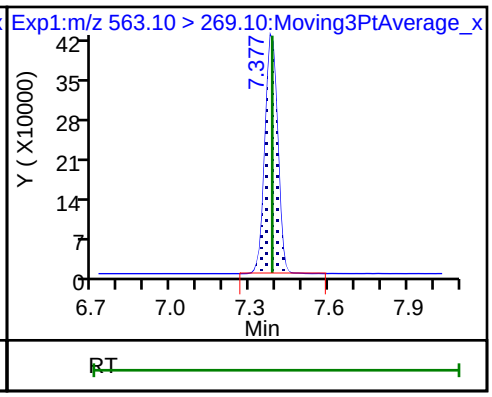
D 59 13C7 PFUnA



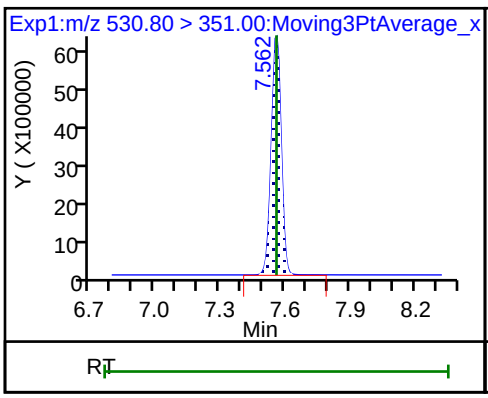
60 PFUnA



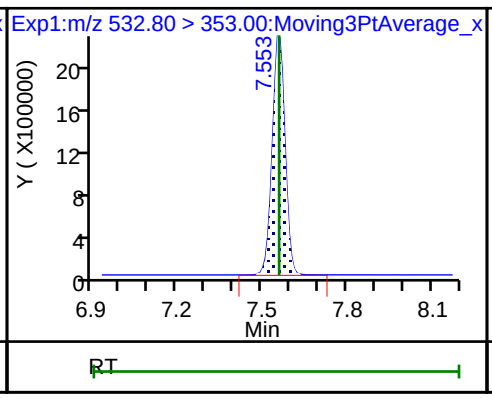
60 PFUnA



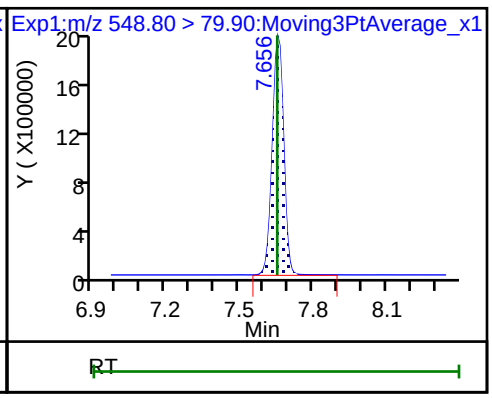
61 9ClFOS



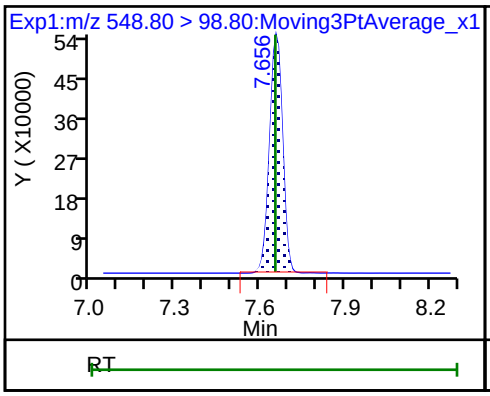
61 9ClFOS



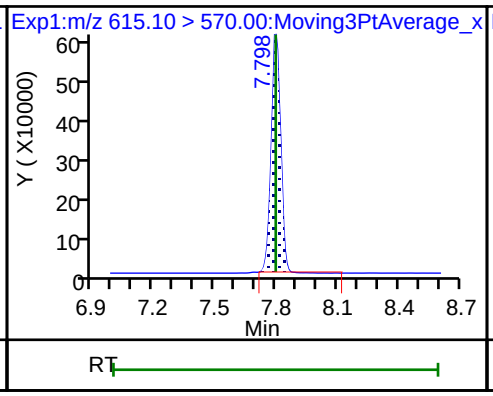
62 PFNS



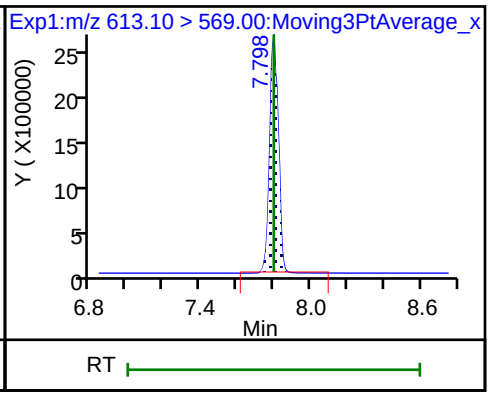
62 PFNS



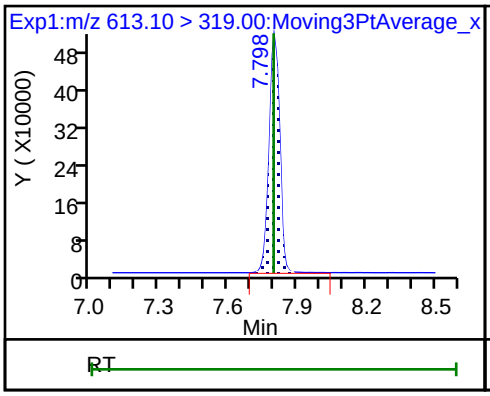
D 81 PFDoA



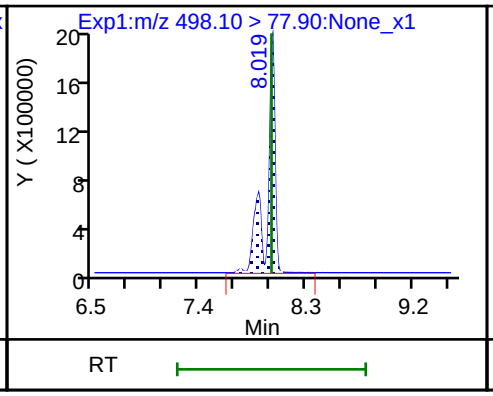
63 PFDoA



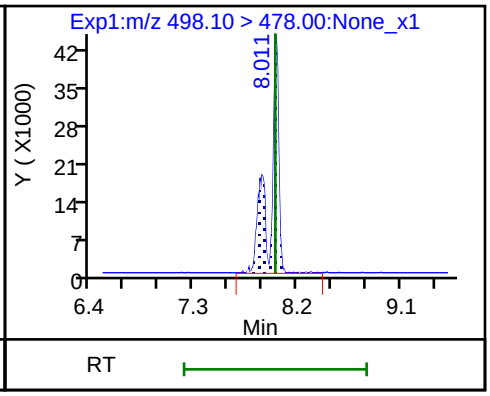
63 PFDoA



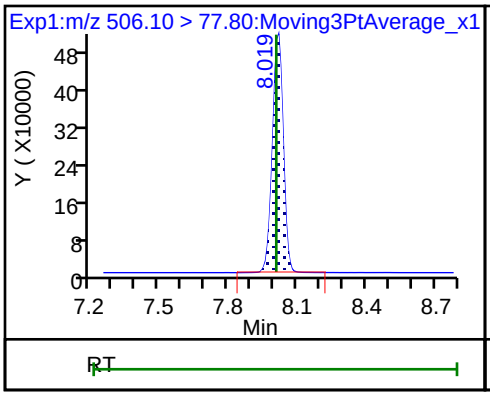
64 PFOSA



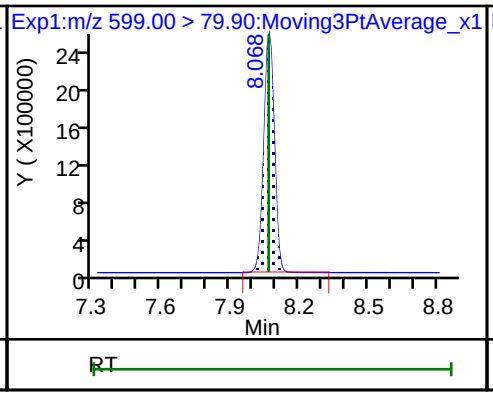
64 PFOSA



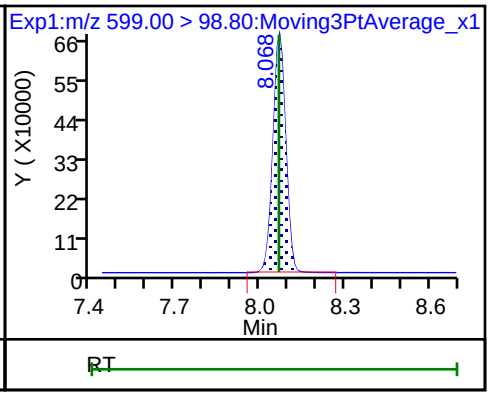
D 65 13C8 FOSA



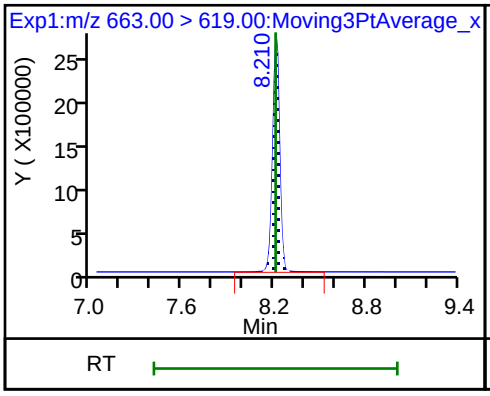
66 PFDS



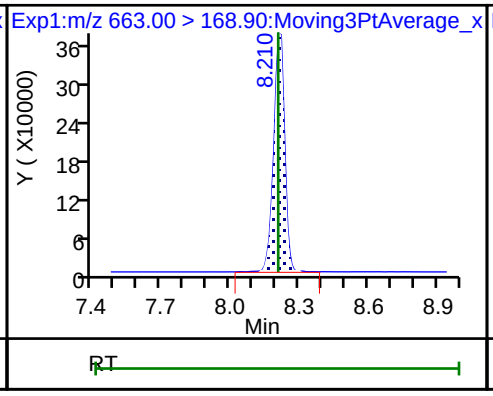
66 PFDS



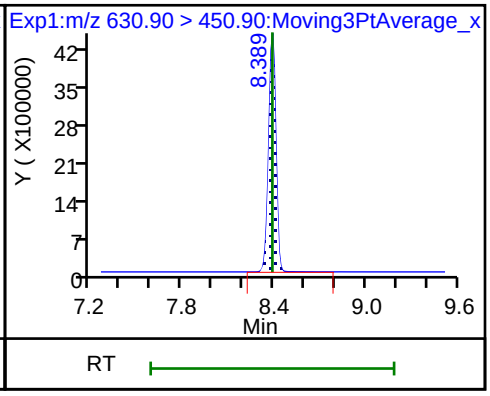
67 PFTrDA



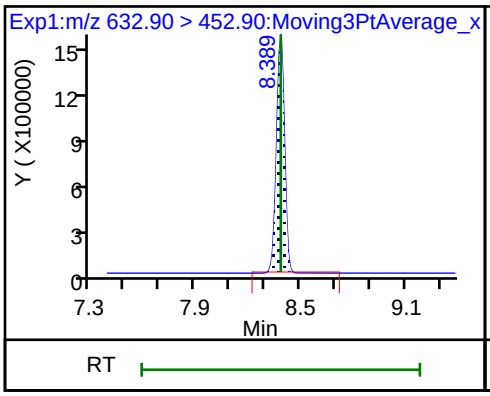
67 PFTrDA



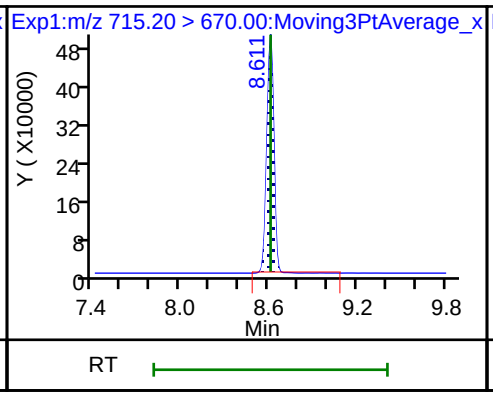
68 11ClFOS



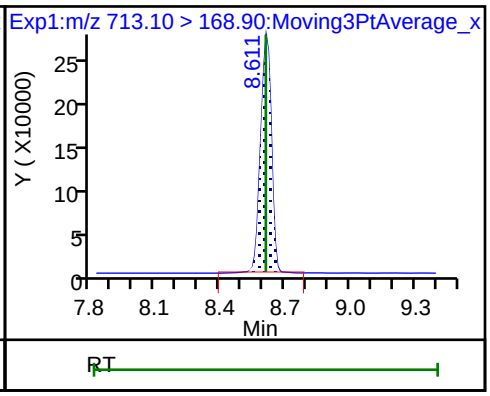
68 11ClFOS



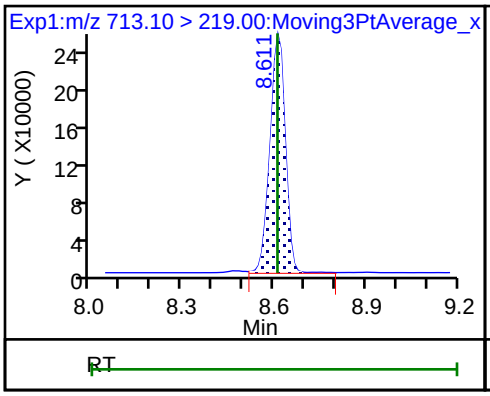
D 70 13C2 PFTeDA



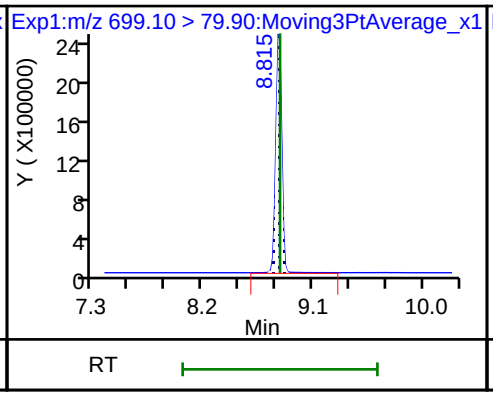
69 PFTeDA



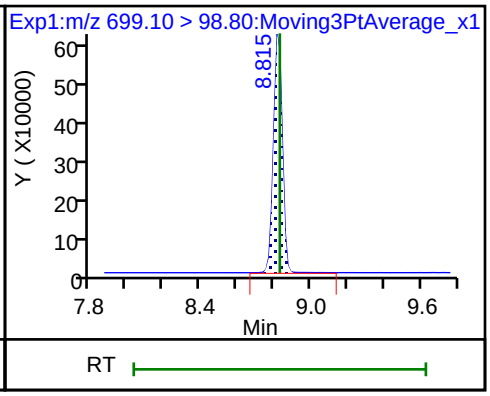
69 PFTeDA



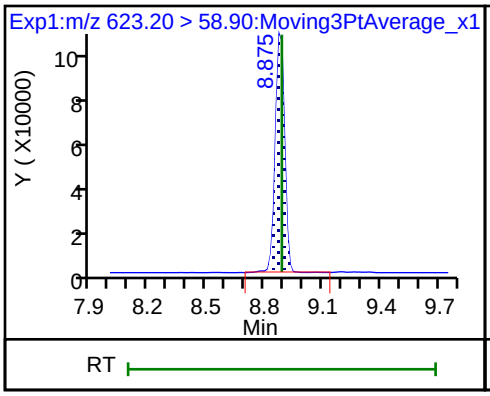
71 PFDoS



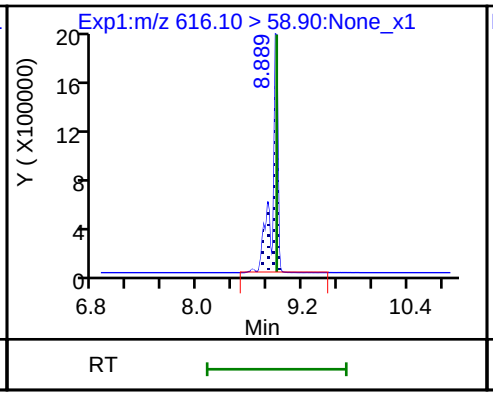
71 PFDoS



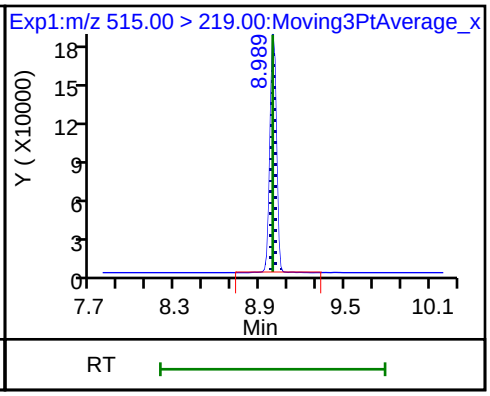
D 72 d7-N-Me-FOSE



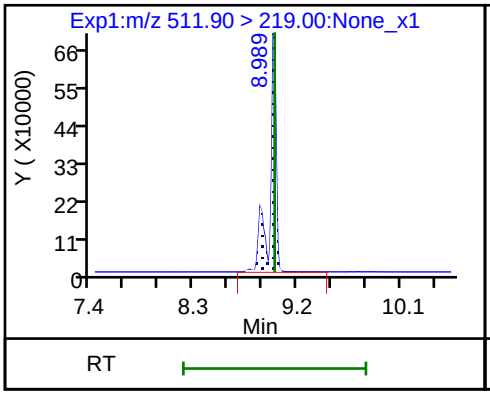
73 N-MeFOSE-M



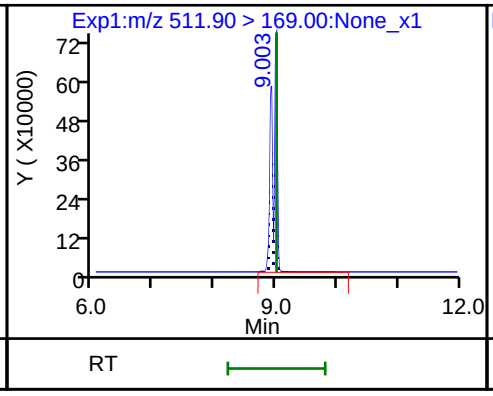
D 75 d3-NMePFOSA



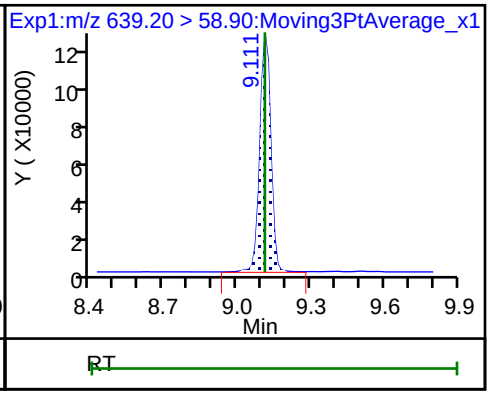
74 NMeFOSA



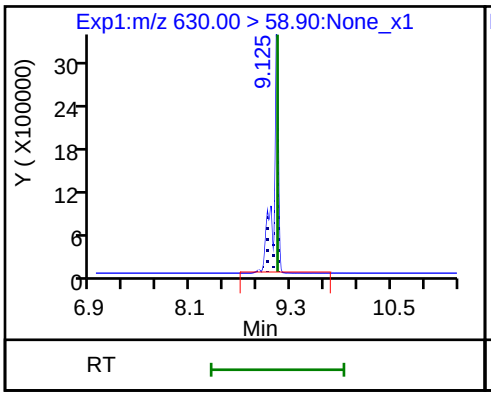
74 NMeFOSA



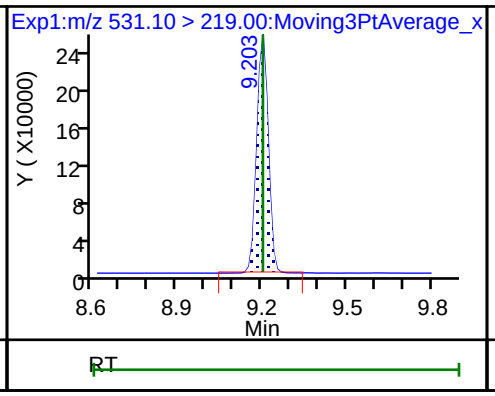
D 76 d9-N-EtFOSE



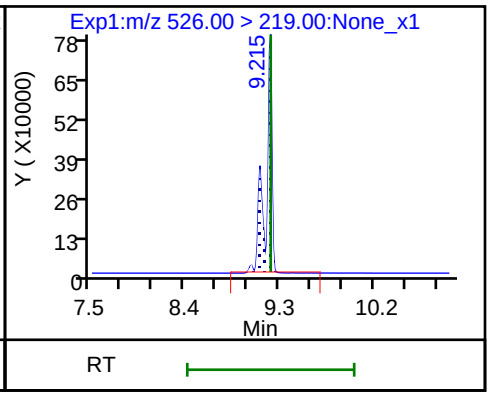
77 N-EtFOSE-M



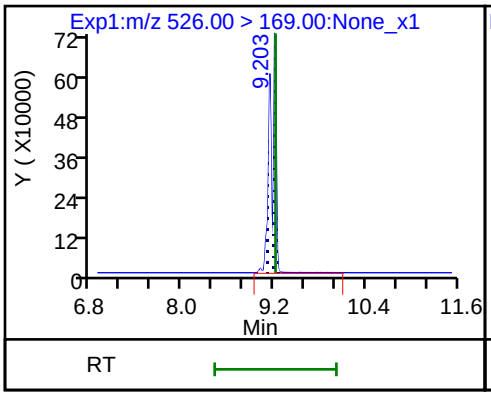
D 78 d5-NEtPFOSA



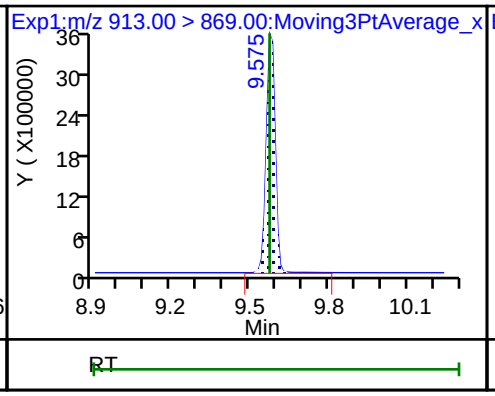
79 N-EtFOSA-M



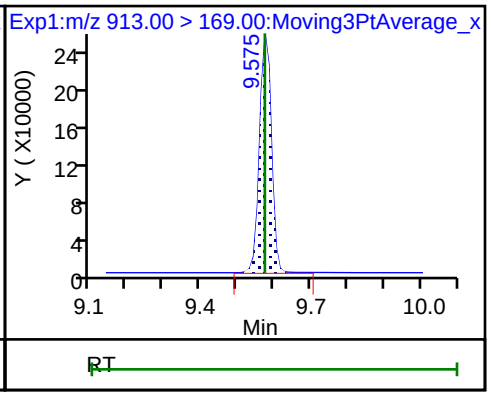
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d
Lims ID: IC CAL 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 04-Feb-2026 11:14:30 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 8
Misc. Info.: Plate: 1 Rack: 1 410-0174606-008
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub12

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 13:00:57 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:32:38
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 13C3PFPrA										
166.00 > 121.00	2.002	2.027	-0.025	0.480	1332342	2.93		146	2332	
3 PFBA										
212.80 > 168.90	4.166	4.173	-0.007	1.000	51360982	91.7		91.7	114073	
D 4 13C4-PFBA										
216.80 > 171.90	4.166	4.173	-0.007	0.998	1219352	1.98		99.1	4582	
* 5 13C3PFBA										
216.00 > 172.00	4.173	4.180	-0.007		1199297	2.00			2163	
D 8 13C5 PFPeA										
268.30 > 223.00	4.829	4.829	0.0	0.913	1322005	1.80		90.2	3204	
9 PFPA										
263.00 > 219.00	4.829	4.829	0.0	1.000	37054471	47.0		93.9	5787	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.099	5.099	0.0	0.802	1051917	6.58		140	7453	
D 15 13C5 PFHxA										
318.00 > 273.00	5.291	5.280	0.011	1.000	1760060	1.98		98.8	2679	
* 16 13C2 PFHxA										
315.10 > 270.00	5.291	5.290	0.001		4203030	5.00			6196	
17 PFHxA										
313.00 > 269.00	5.291	5.290	0.001	1.000	33489856	44.0	Target=10.33	88.1	8585	
313.00 > 118.90	5.291	5.290	0.001	1.000	3287160		10.19(5.17-15.50)	88.1	2902	
D 19 13C3 PFBS										
302.10 > 79.90	5.426	5.426	0.0	0.854	1503894	1.75		94.0	6030	
20 PFBS										
298.70 > 79.90	5.426	5.426	0.0	1.000	30197543	41.8	Target=3.28	94.1	6624	
298.70 > 98.80	5.426	5.426	0.0	1.000	9783537		3.09(1.64-4.92)	94.1	12157	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
23 HFPO-DA										
284.90 > 168.90	5.475	5.474	0.001	1.000	28896701	45.6	Target=2.47	91.1	4766	
284.90 > 184.90	5.475	5.474	0.001	1.000	11983657		2.41(1.23-3.70)	91.1	85804	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.475	5.474	0.001	1.035	1183788	1.95		97.6	3248	
27 PFHpA										
363.10 > 319.00	5.710	5.709	0.001	1.000	33334805	46.9	Target=1.90	93.8	4198	
363.10 > 169.00	5.710	5.709	0.001	1.000	16859591		1.98(0.95-2.85)	93.8	13756	
D 28 13C4 PFHpA										
367.10 > 322.00	5.710	5.709	0.001	1.079	1693366	1.95		97.4	6554	
29 ADONA										
376.90 > 250.90	5.865	5.865	0.0	1.071	62648413	30.3	Target=2.21	85.5	5975	
376.90 > 84.80	5.865	5.865	0.0	1.071	31629358		1.98(1.10-3.31)	85.5	7366	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.918	5.918	0.0	0.931	522011	3.86		81.1	1294	
30 PFPeS										
349.10 > 79.90	5.918	5.918	0.0	0.931	35158639	41.5	Target=3.14	88.3	6841	
349.10 > 98.90	5.918	5.918	0.0	0.931	11525776		3.05(1.57-4.71)	88.3	6359	
* 34 13C4 PFOA										
417.10 > 372.00	6.122	6.121	0.001		5872854	5.00			3529	
D 35 13C8 PFOA										
421.10 > 376.00	6.122	6.121	0.001	1.000	2376639	1.99		99.3	5526	
36 PFOA										
413.00 > 369.00	6.122	6.121	0.001	1.000	33818886	45.9	Target=1.85	91.8	29589	
413.00 > 169.00	6.122	6.121	0.001	1.000	18881047		1.79(0.93-2.78)	91.8	7620	
40 PFHxS										
398.70 > 79.90	6.357	6.357	0.0	1.000	23712112	41.9	Target=3.16	91.9	21487	
398.70 > 98.90	6.368	6.357	0.011	1.002	7814701		3.03(1.58-4.75)	91.9	10723	
D 38 13C3 PFHxS										
402.10 > 79.90	6.357	6.367	-0.010	1.000	1387840	1.91		101	6778	
* 39 18O2 PFHxS										
403.00 > 83.90	6.357	6.367	-0.010		1278459	1.90			3680	
* 42 13C5 PFNA										
468.00 > 423.00	6.535	6.535	0.0		1602451	2.00			2912	
D 41 13C9 PFNA										
472.10 > 427.00	6.535	6.535	0.0	1.000	1709573	2.06		103	2914	
43 PFNA										
463.00 > 419.00	6.546	6.546	0.0	1.002	34174548	46.0	Target=2.07	92.1	35604	
463.00 > 219.00	6.535	6.546	-0.011	1.000	17693730		1.93(1.03-3.11)	92.1	5907	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.725	6.725	0.0	1.058	887690	6.36		132	5042	
47 PFHpS										
449.00 > 79.90	6.799	6.808	-0.009	0.942	33123622	44.1	Target=3.74	92.4	8321	
449.00 > 98.80	6.799	6.808	-0.009	0.942	9361819		3.54(1.87-5.60)	92.4	7001	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.879	6.888	-0.009	0.953	1918387	6.82		136	3793	
D 52 13C6 PFDA										
519.10 > 474.10	6.957	6.957	0.0	1.000	2259986	1.96		98.2	4626	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 51 13C2 PFDA										
515.10 > 470.10	6.957	6.957	0.0		2333767	2.00			7425	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.068	7.068	0.0	0.979	1592004	6.55		131	2101	
D 56 13C8 PFOS										
507.10 > 79.90	7.221	7.230	-0.009	1.000	1149156	1.89		98.8	4197	
* 57 13C4 PFOS										
502.80 > 79.90	7.221	7.230	-0.009		1044957	1.92			2912	
58 PFOS										
498.90 > 79.90	7.230	7.239	-0.009	1.001	36327050	44.7	Target=4.49	96.2	58121	
498.90 > 98.80	7.230	7.239	-0.009	1.001	7843492		4.63(2.24-6.73)	96.2	21923	
D 59 13C7 PFUnA										
570.00 > 525.10	7.374	7.374	0.0	1.060	2469591	2.15		108	5992	
D 81 PFDoA										
615.10 > 570.00	7.790	7.797	-0.007	1.120	2194248	1.99		99.6	2581	
D 65 13C8 FOSA										
506.10 > 77.80	8.008	8.008	0.0	1.109	1742110	2.78		139	3045	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.610	8.610	0.0	1.238	1858543	1.87		93.7	4404	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.874	8.889	-0.015	1.229	338035	6.72		134	835	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.988	8.988	0.0	1.245	543323	2.74		137	2505	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.111	9.111	0.0	1.262	356636	6.58		132	916	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.202	9.202	0.0	1.274	675436	2.65		132	2553	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL8_00034 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 13:00:59 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Injection Date: 04-Feb-2026 11:14:30 Instrument ID: 30577

Lims ID: IC CAL 8

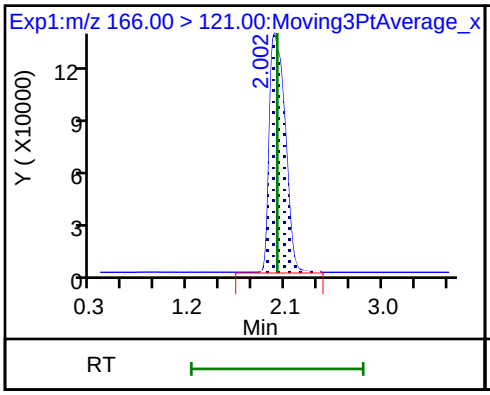
Client ID:

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 9 Worklist Smp#: 8

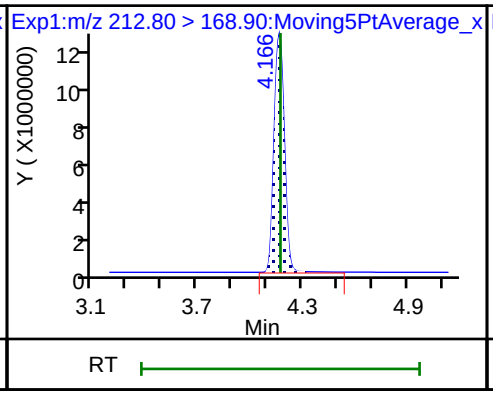
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

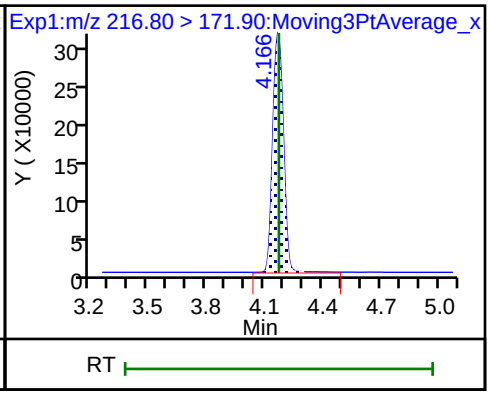
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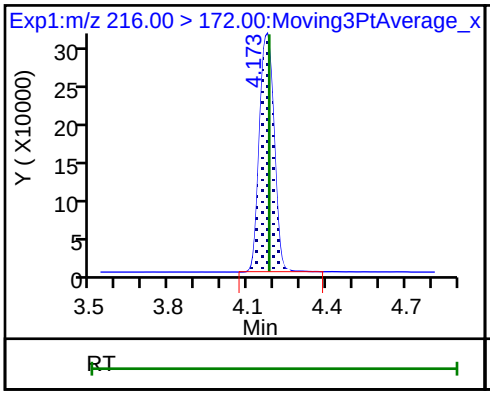
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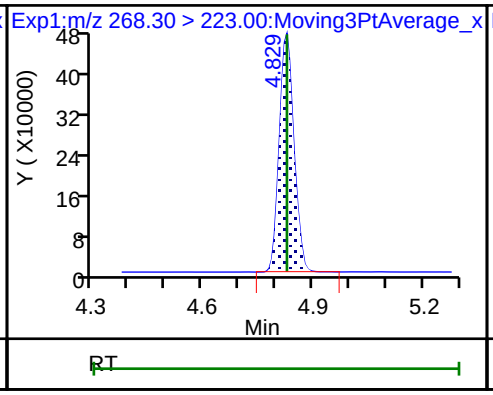
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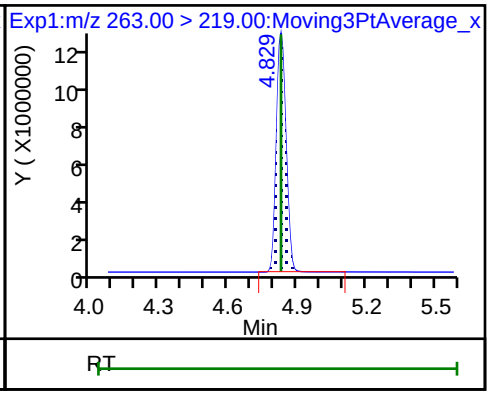
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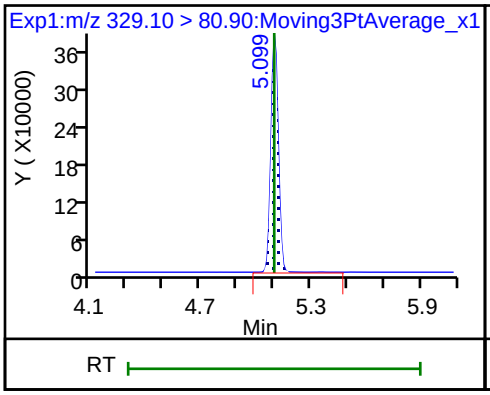
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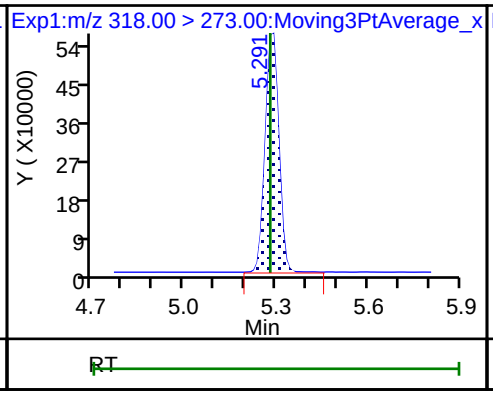
9 PFPA



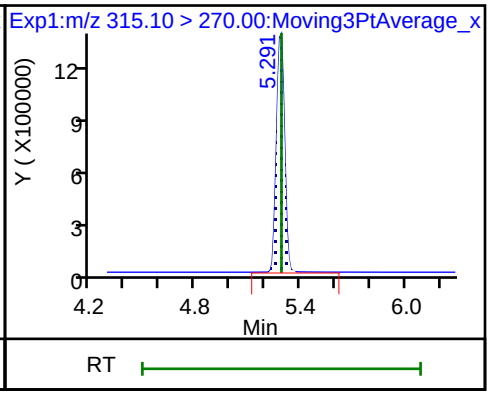
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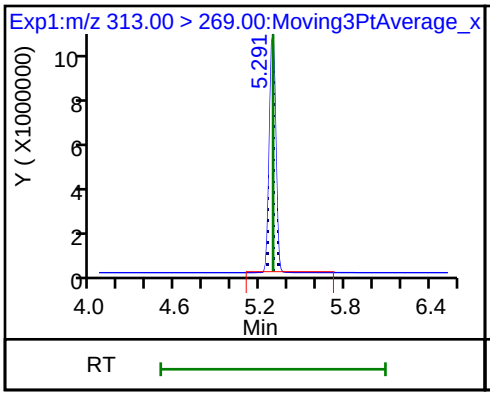
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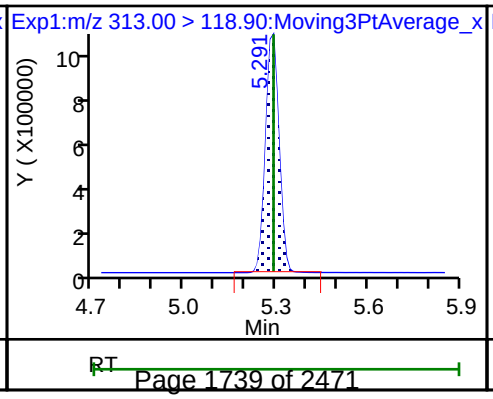
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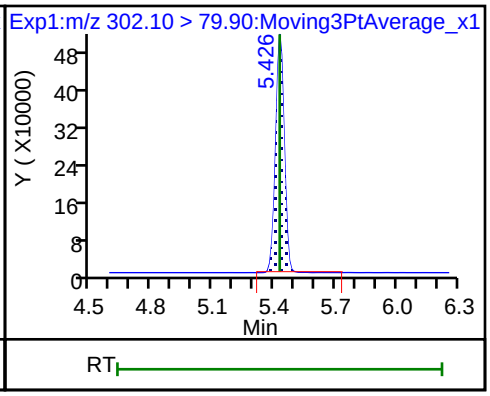
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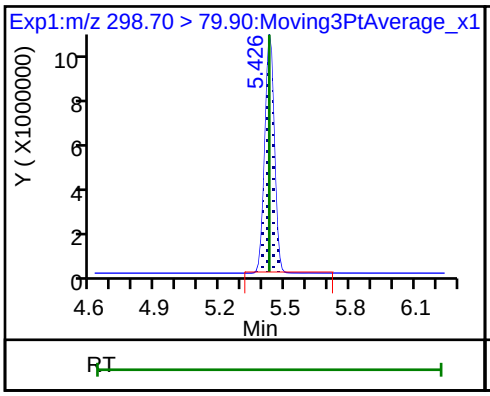
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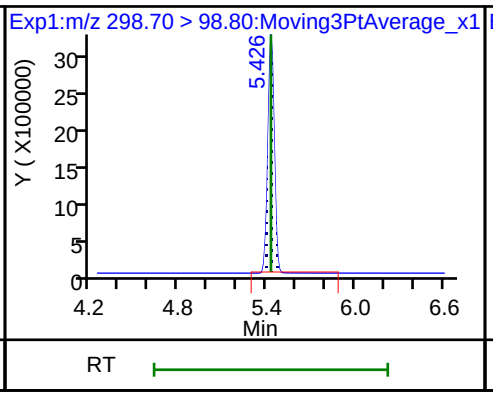
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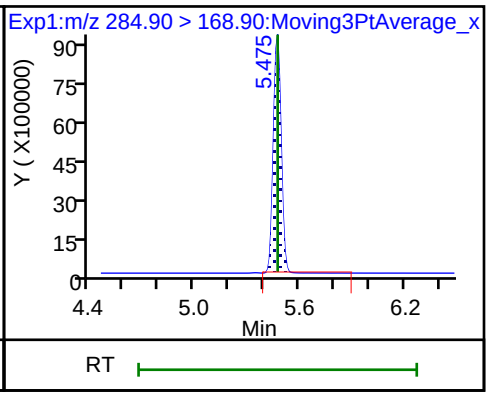
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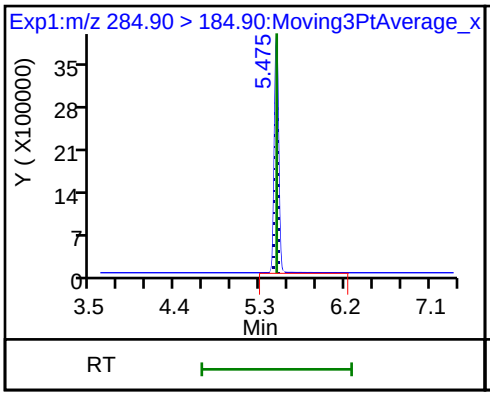
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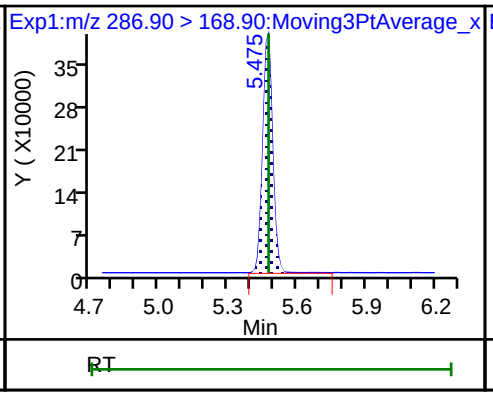
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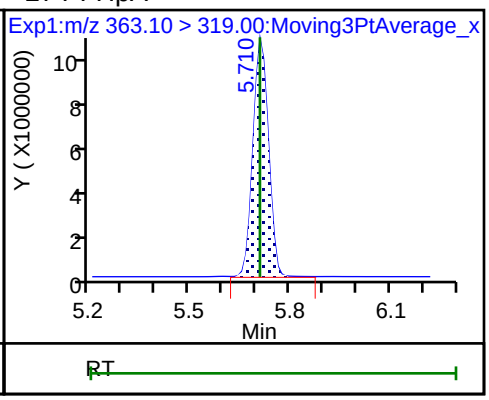
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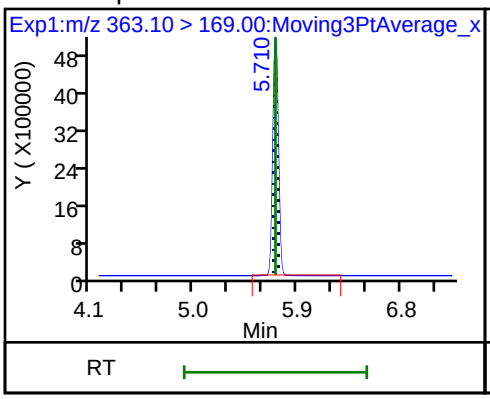
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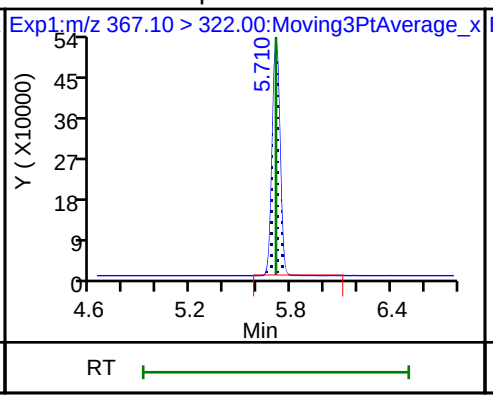
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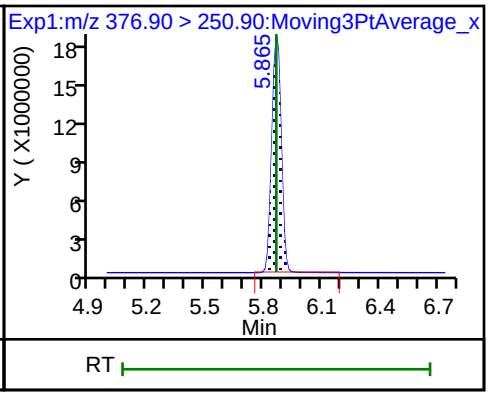
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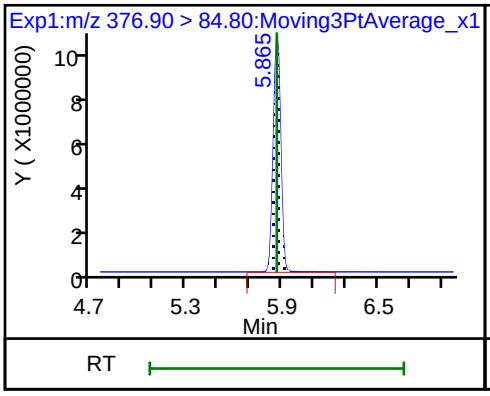
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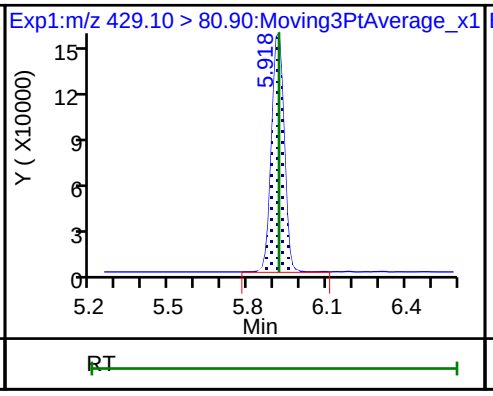
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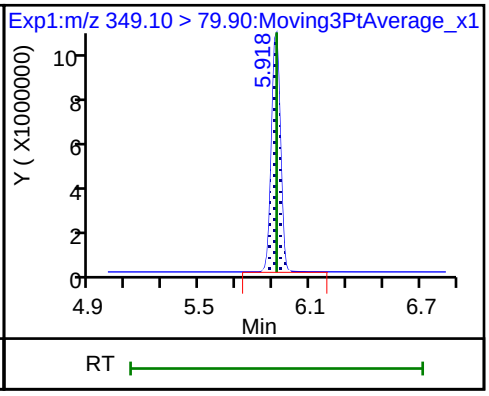
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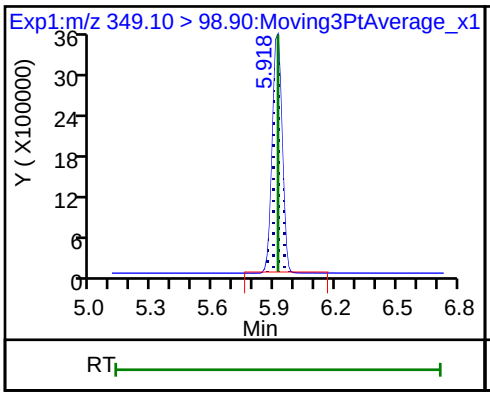
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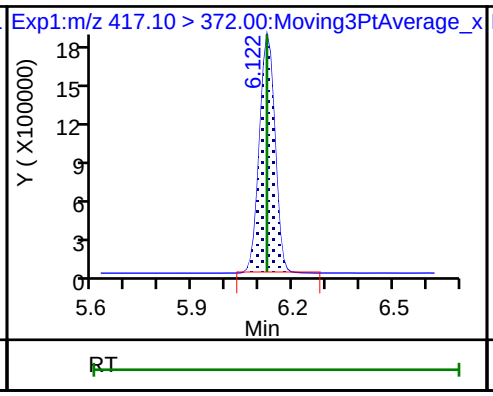
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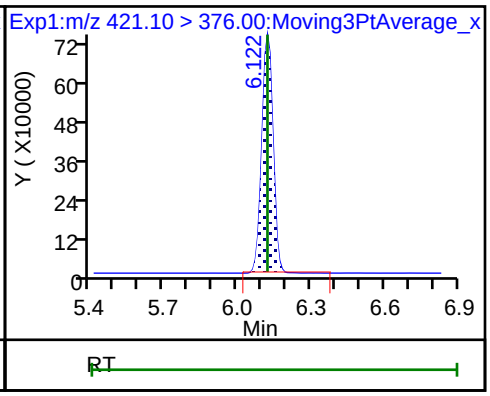
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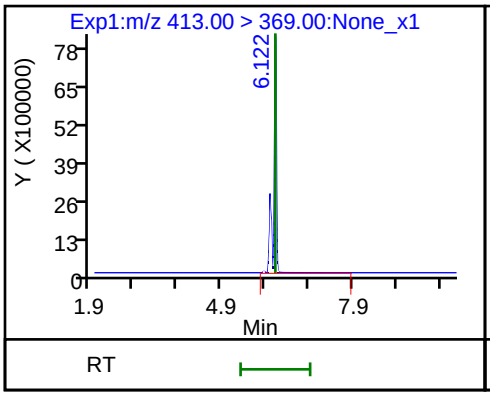
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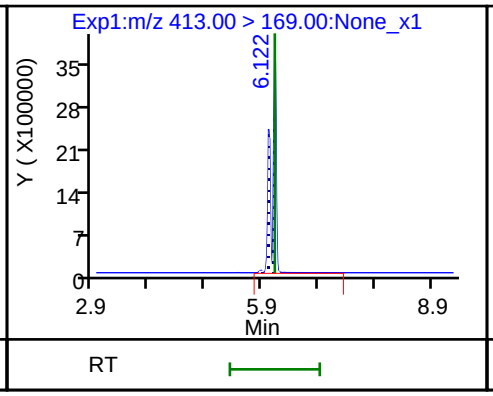
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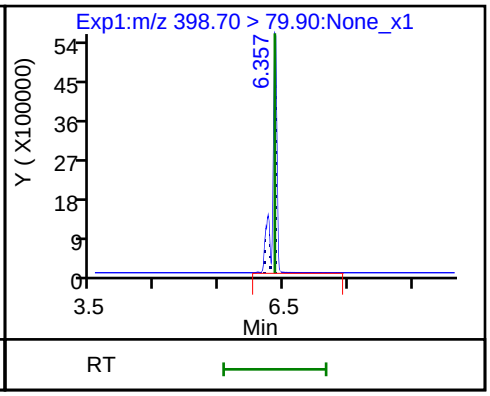
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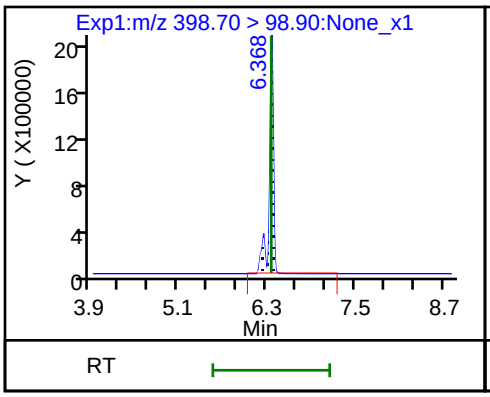
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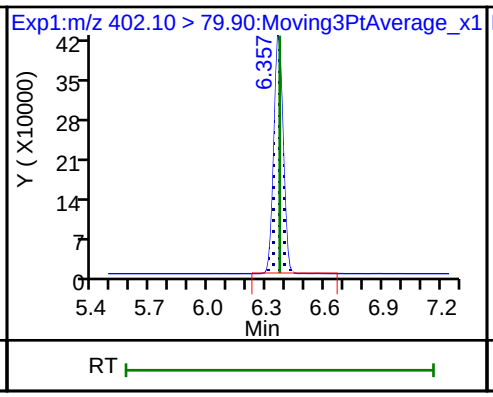
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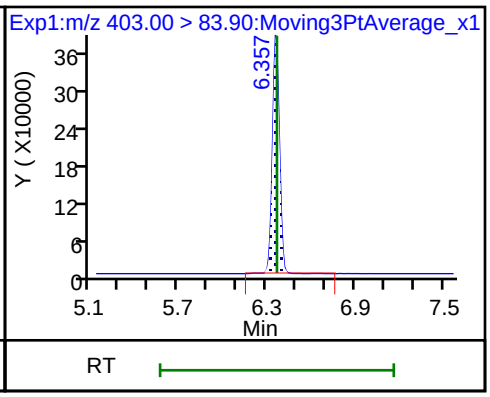
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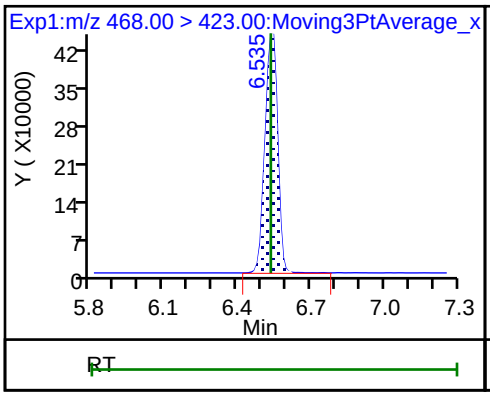
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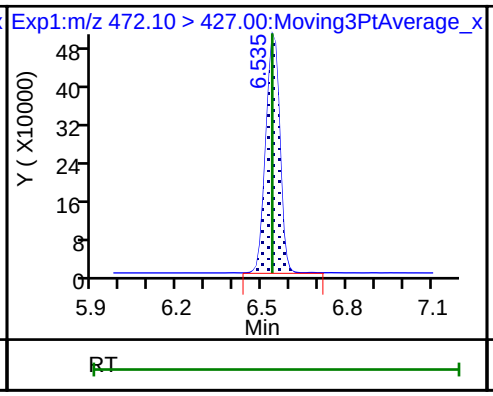
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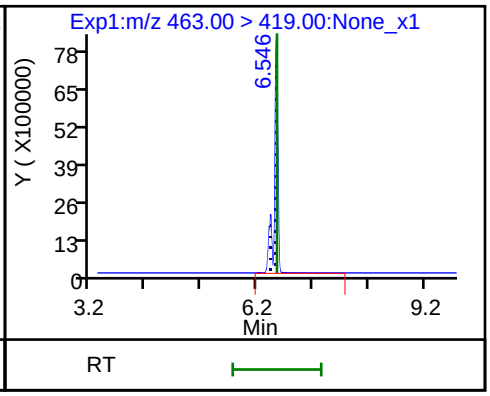
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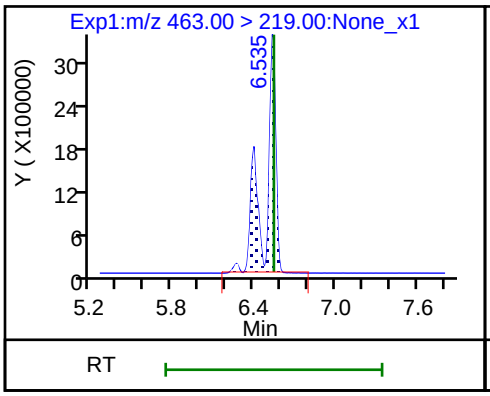
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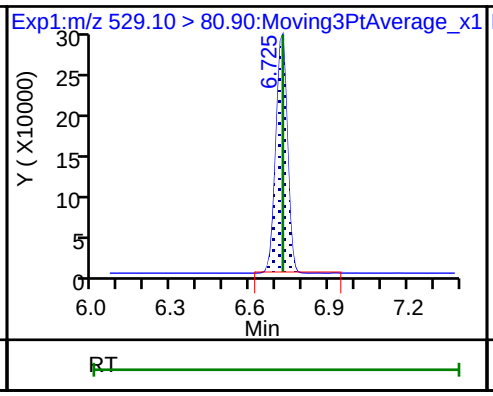
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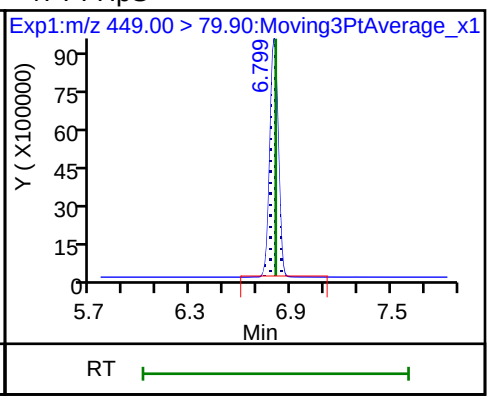
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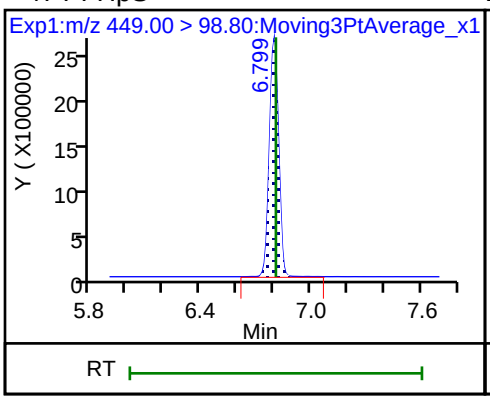
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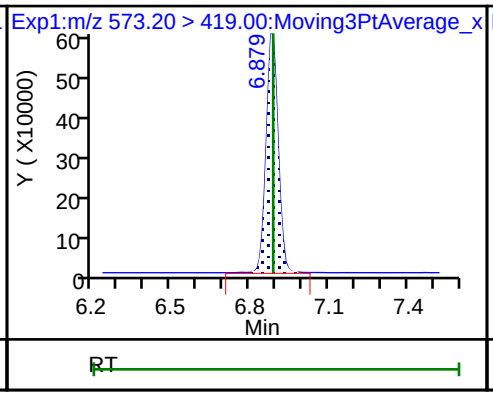
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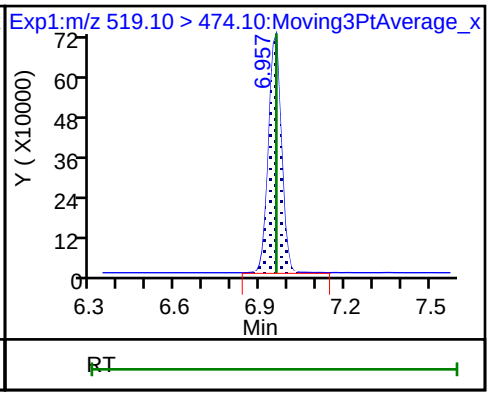
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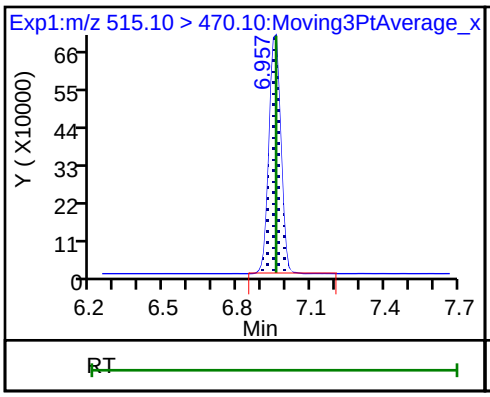
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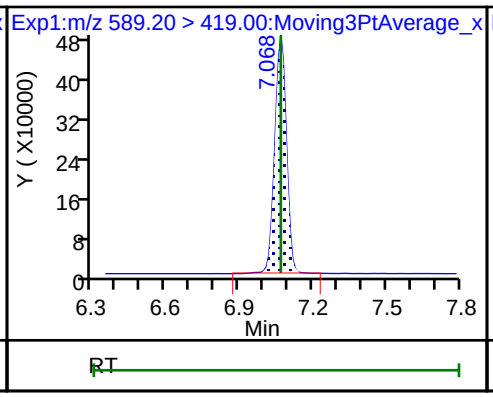
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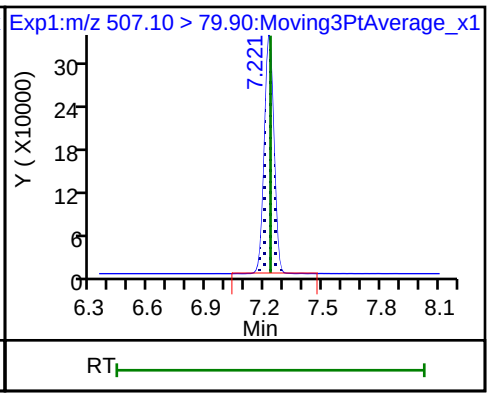
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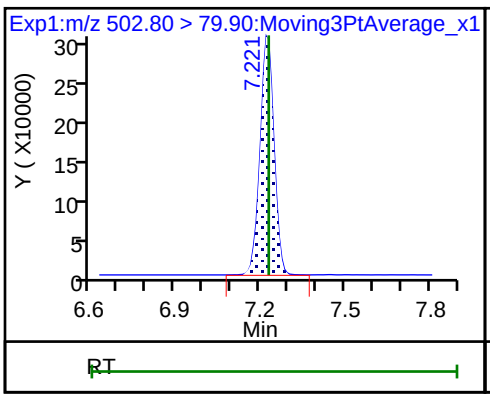
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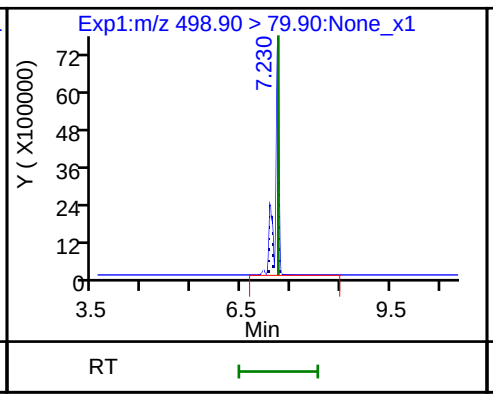
D 56 13C8 PFOS



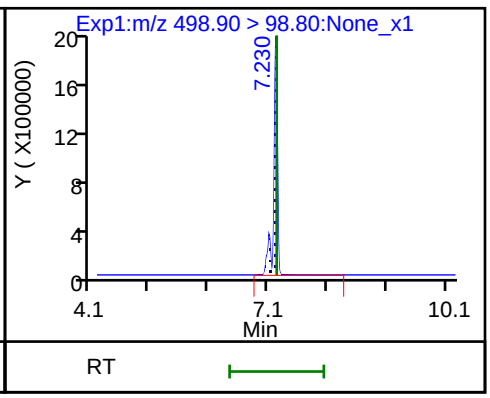
* 57 13C4 PFOS



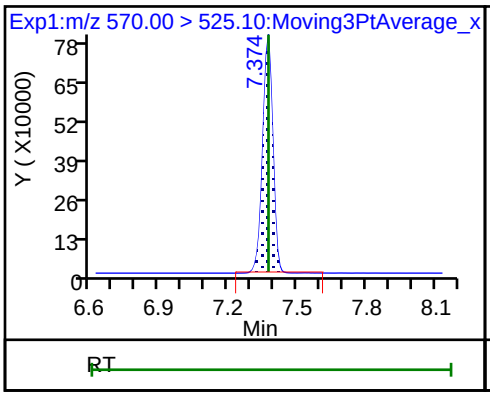
58 PFOS



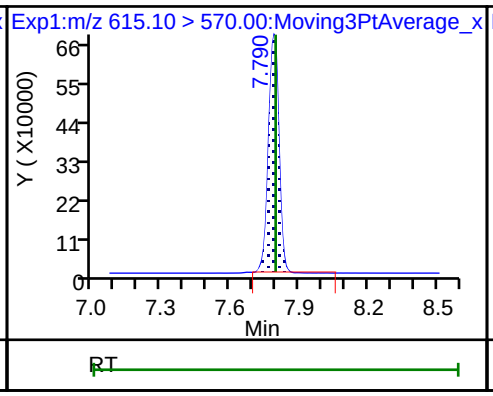
58 PFOS



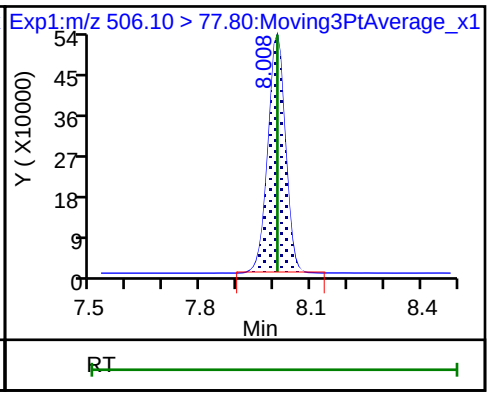
D 59 13C7 PFUnA



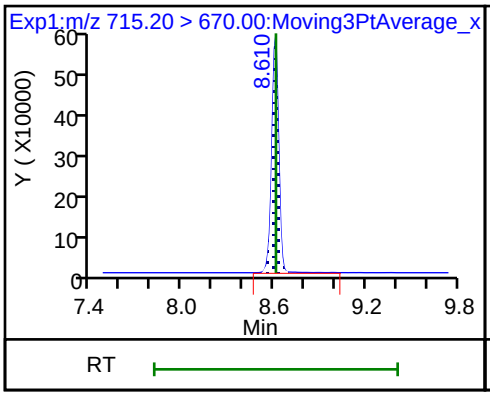
D 81 PFDoA



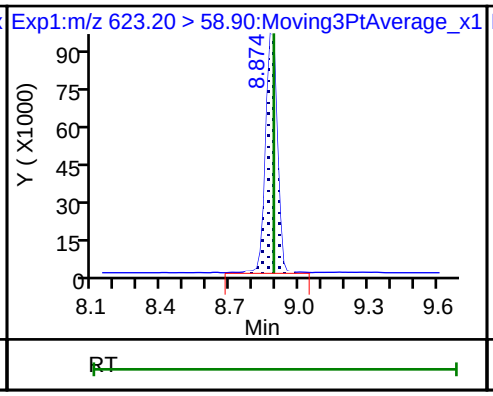
D 65 13C8 FOSA



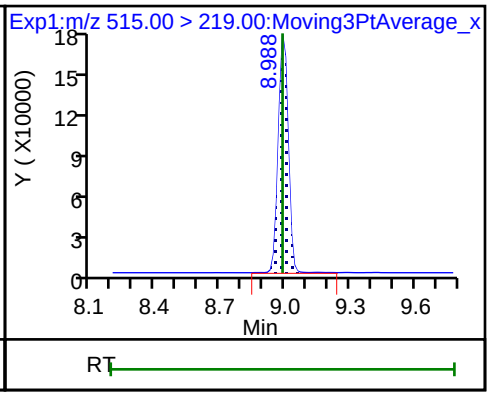
D 70 13C2 PFTeDA



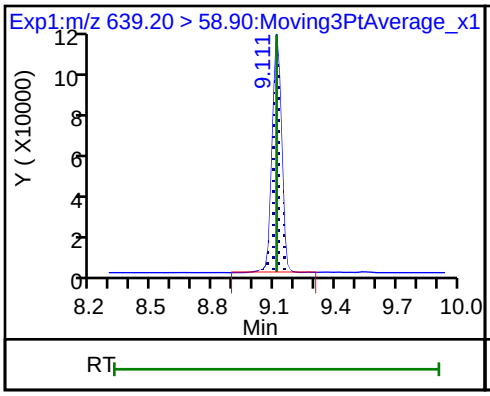
D 72 d7-N-Me-FOSE



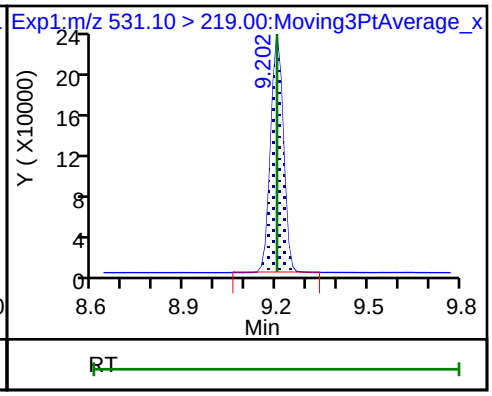
D 75 d3-NMePFOSA



D 76 d9-N-EtFOSE



D 78 d5-NEtPFOSA



Calibration / Perfluoropropionic acid

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

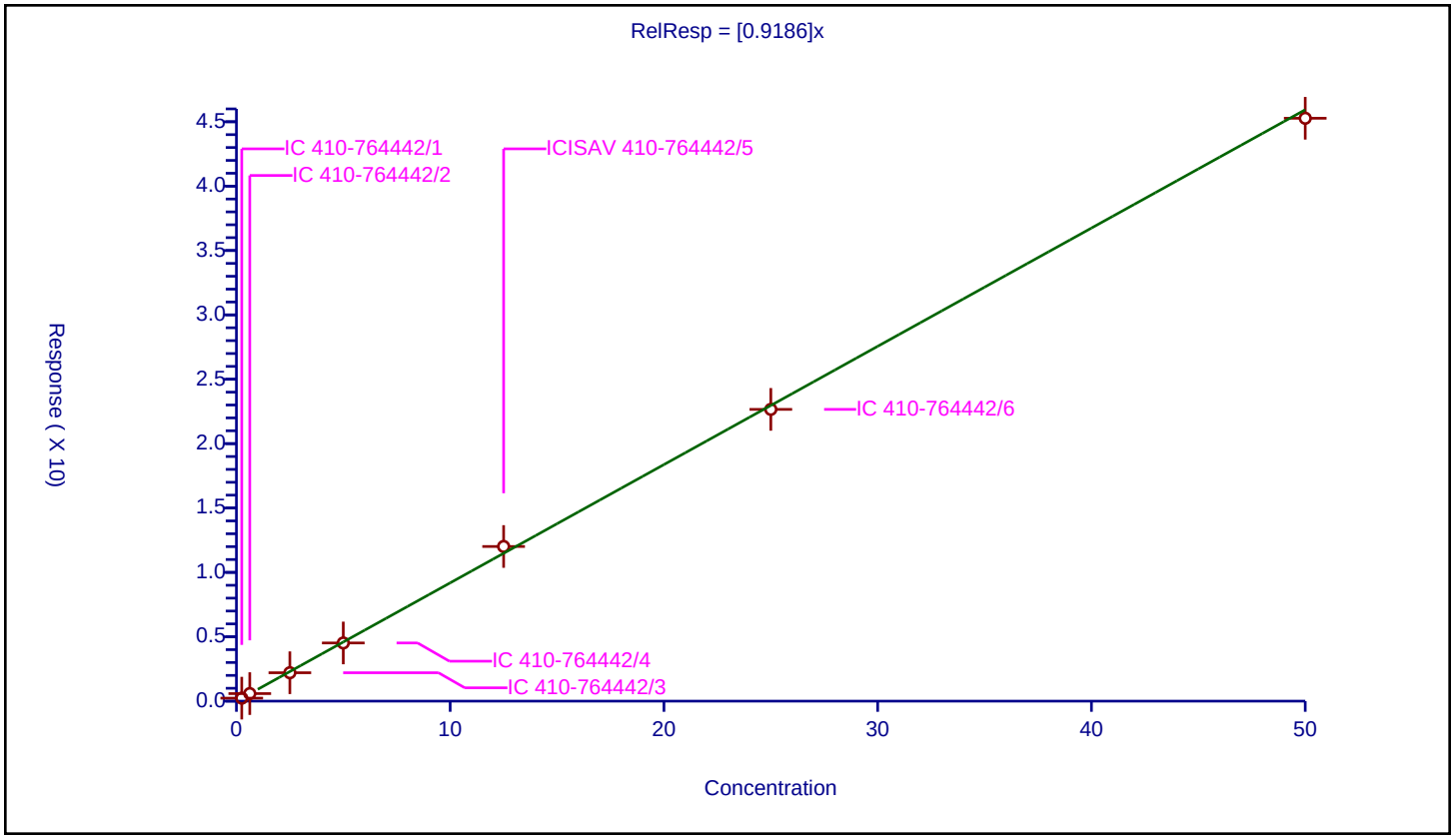
Curve Coefficients

Intercept:	0
Slope:	0.9186

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.25	0.233059	2.0	1354473.0	0.932236	Y
2	IC 410-764442/2	0.625	0.587073	2.0	1338726.0	0.939317	Y
3	IC 410-764442/3	2.5	2.205813	2.0	1368914.0	0.882325	Y
4	IC 410-764442/4	5.0	4.518511	2.0	1388419.0	0.903702	Y
5	ICISAV 410-764442/5	12.5	12.012031	2.0	1313151.0	0.960962	Y
6	IC 410-764442/6	25.0	22.66068	2.0	1221950.0	0.906427	Y
7	IC 410-764442/7	50.0	45.27276	2.0	1231335.0	0.905455	Y



Calibration / Perfluorobutanoic acid

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

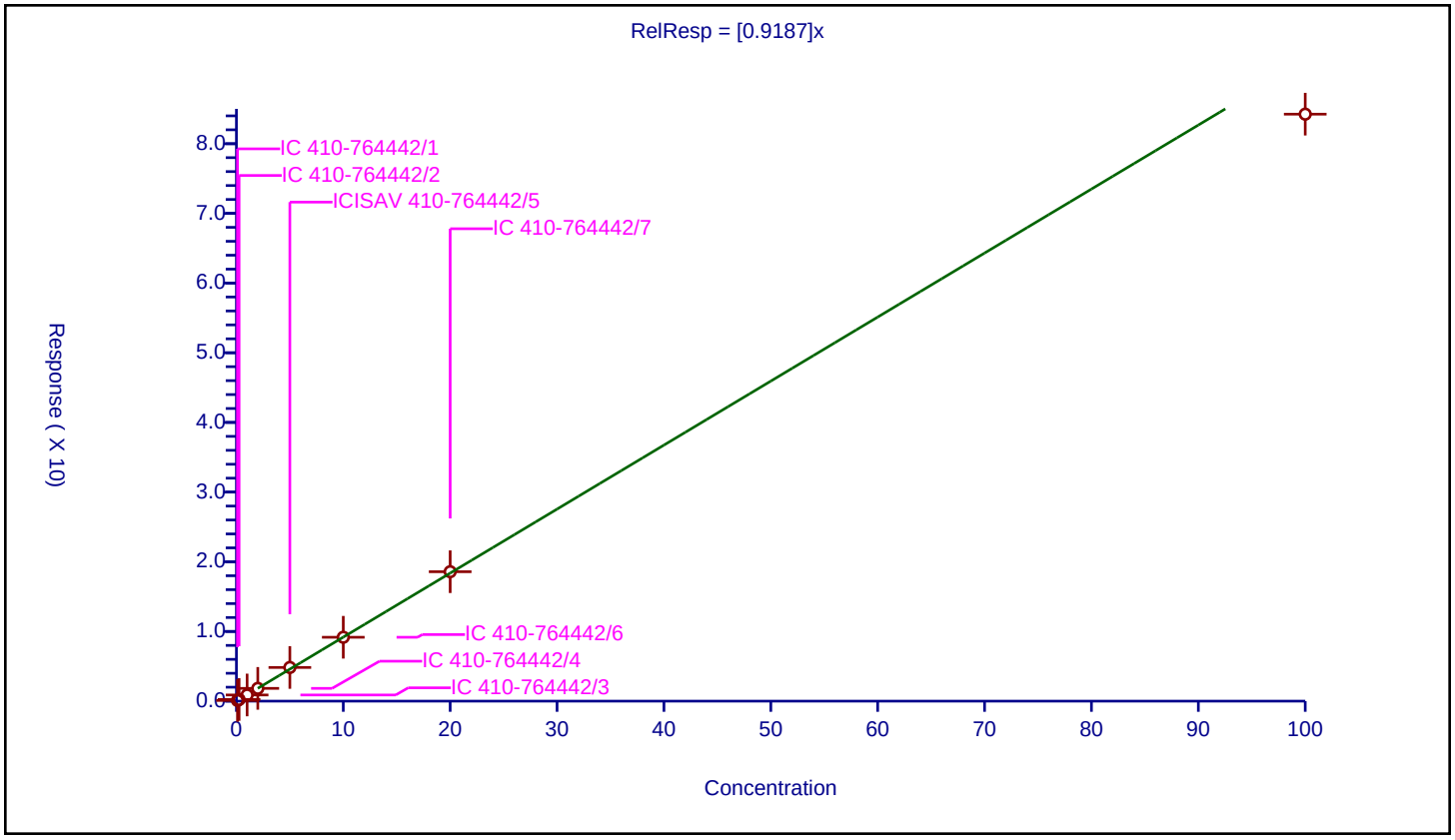
Curve Coefficients

Intercept:	0
Slope:	0.9187

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.1	0.095631	2.0	1821694.0	0.956308	Y
2	IC 410-764442/2	0.25	0.234385	2.0	1839284.0	0.937539	Y
3	IC 410-764442/3	1.0	0.884216	2.0	1844138.0	0.884216	Y
4	IC 410-764442/4	2.0	1.832932	2.0	1862879.0	0.916466	Y
5	ICISAV 410-764442/5	5.0	4.833398	2.0	1749814.0	0.96668	Y
6	IC 410-764442/6	10.0	9.169563	2.0	1708120.0	0.916956	Y
7	IC 410-764442/7	20.0	18.57556	2.0	1658805.0	0.928778	Y
8	IC 410-764442/8	100.0	84.243077	2.0	1219352.0	0.842431	Y



Calibration / Perfluoro-3-methoxypropanoic acid

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

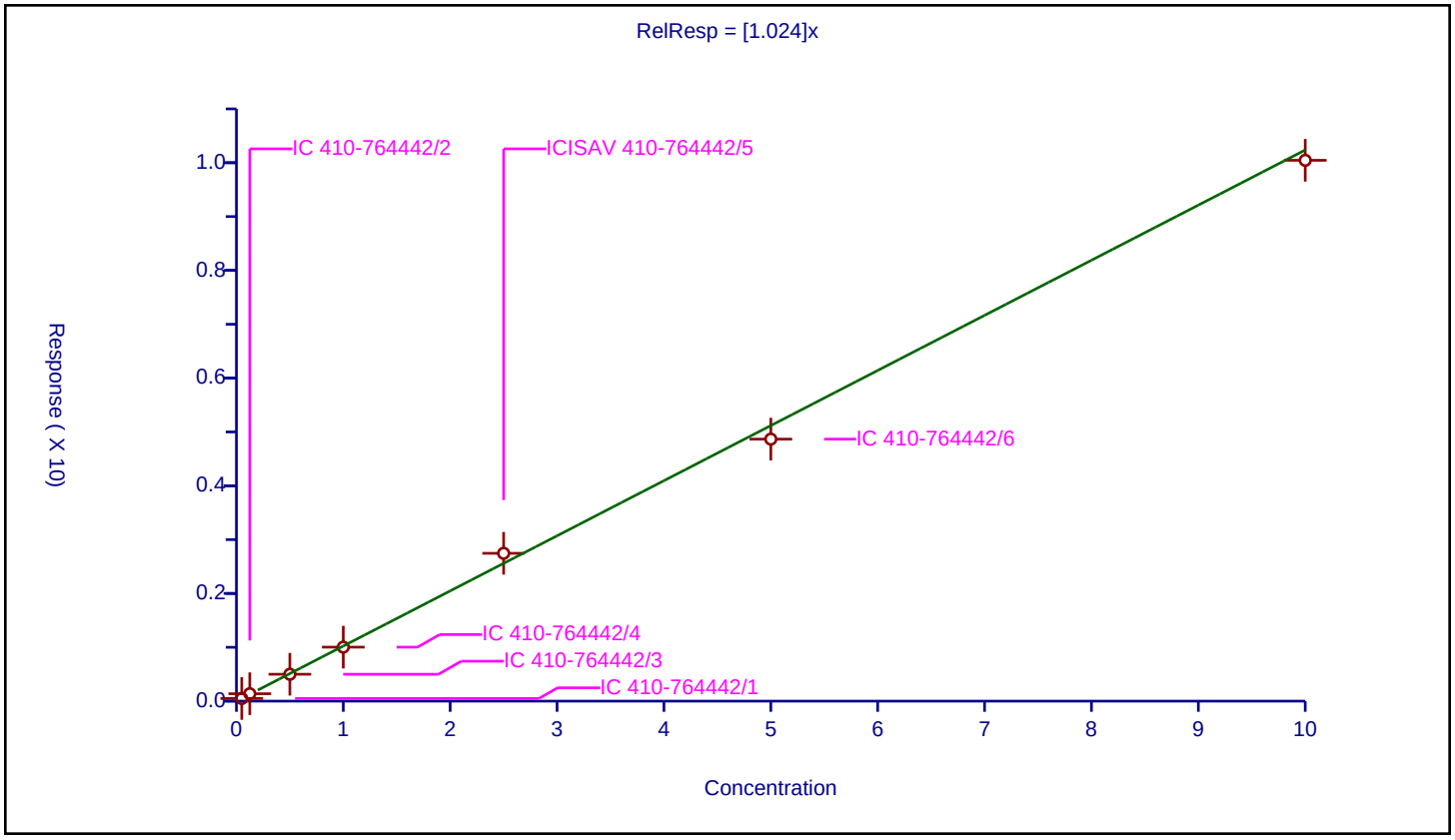
Curve Coefficients

Intercept:	0
Slope:	1.024

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.049325	2.0	1817250.0	0.986502	Y
2	IC 410-764442/2	0.125	0.137609	2.0	1747761.0	1.100874	Y
3	IC 410-764442/3	0.5	0.499548	2.0	1674813.0	0.999097	Y
4	IC 410-764442/4	1.0	1.002736	2.0	1799757.0	1.002736	Y
5	ICISAV 410-764442/5	2.5	2.74565	2.0	1678287.0	1.09826	Y
6	IC 410-764442/6	5.0	4.866399	2.0	1686294.0	0.97328	Y
7	IC 410-764442/7	10.0	10.045012	2.0	1719302.0	1.004501	Y



Calibration / 3:3 FTCA

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

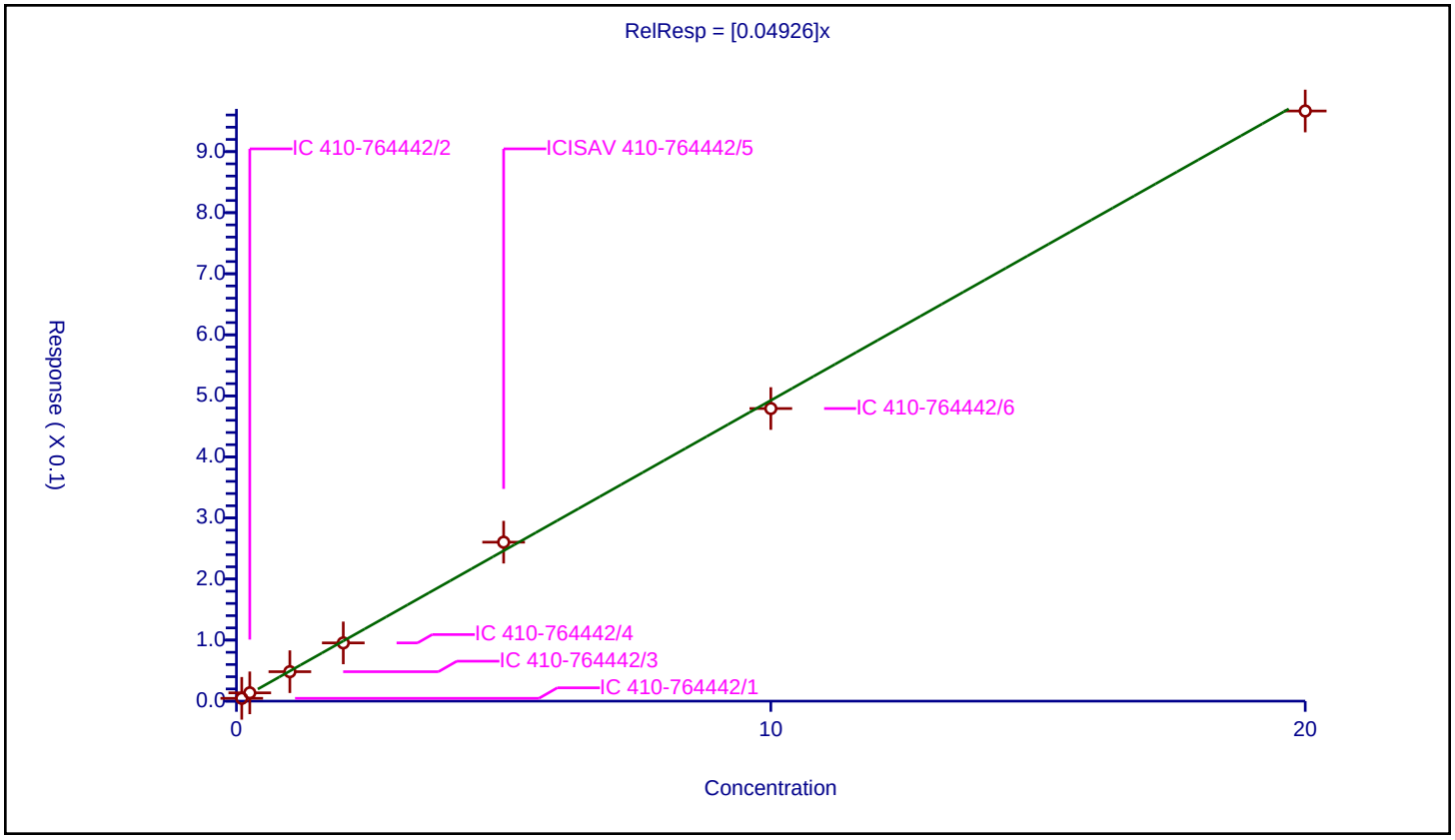
Curve Coefficients

Intercept:	0
Slope:	0.04926

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.1	0.004621	2.0	1817250.0	0.046213	Y
2	IC 410-764442/2	0.25	0.013587	2.0	1747761.0	0.054346	Y
3	IC 410-764442/3	1.0	0.048233	2.0	1674813.0	0.048233	Y
4	IC 410-764442/4	2.0	0.095383	2.0	1799757.0	0.047691	Y
5	ICISAV 410-764442/5	5.0	0.260337	2.0	1678287.0	0.052067	Y
6	IC 410-764442/6	10.0	0.479241	2.0	1686294.0	0.047924	Y
7	IC 410-764442/7	20.0	0.966556	2.0	1719302.0	0.048328	Y



Calibration / Perfluoropentanoic acid

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

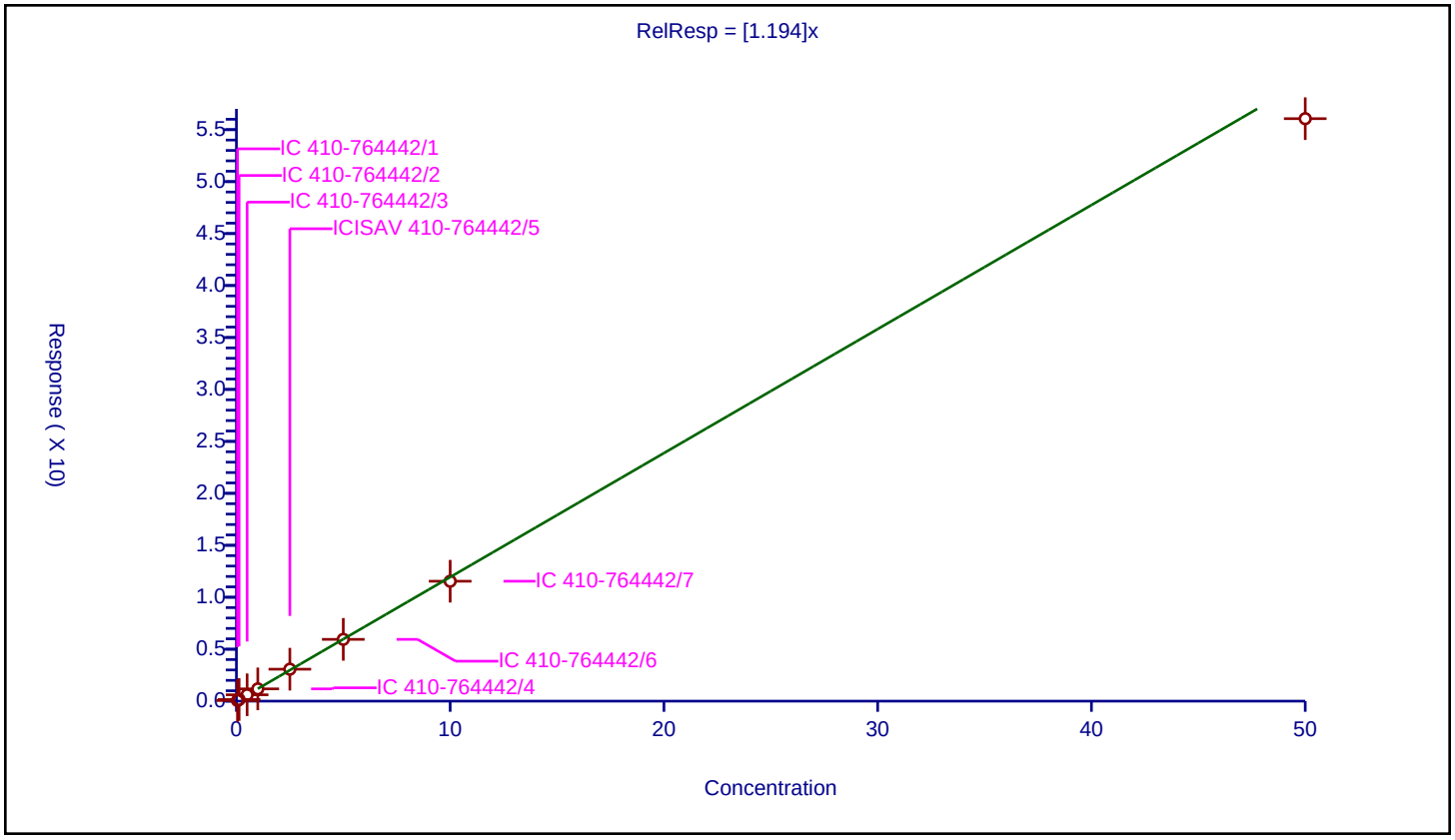
Curve Coefficients

Intercept:	0
Slope:	1.194

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.060531	2.0	1817250.0	1.21062	Y
2	IC 410-764442/2	0.125	0.155329	2.0	1747761.0	1.242632	Y
3	IC 410-764442/3	0.5	0.610135	2.0	1674813.0	1.22027	Y
4	IC 410-764442/4	1.0	1.180595	2.0	1799757.0	1.180595	Y
5	ICISAV 410-764442/5	2.5	3.075917	2.0	1678287.0	1.230367	Y
6	IC 410-764442/6	5.0	5.946572	2.0	1686294.0	1.189314	Y
7	IC 410-764442/7	10.0	11.54046	2.0	1719302.0	1.154046	Y
8	IC 410-764442/8	50.0	56.057989	2.0	1322005.0	1.12116	Y



Calibration / Perfluoro(4-methoxybutanoic acid)

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

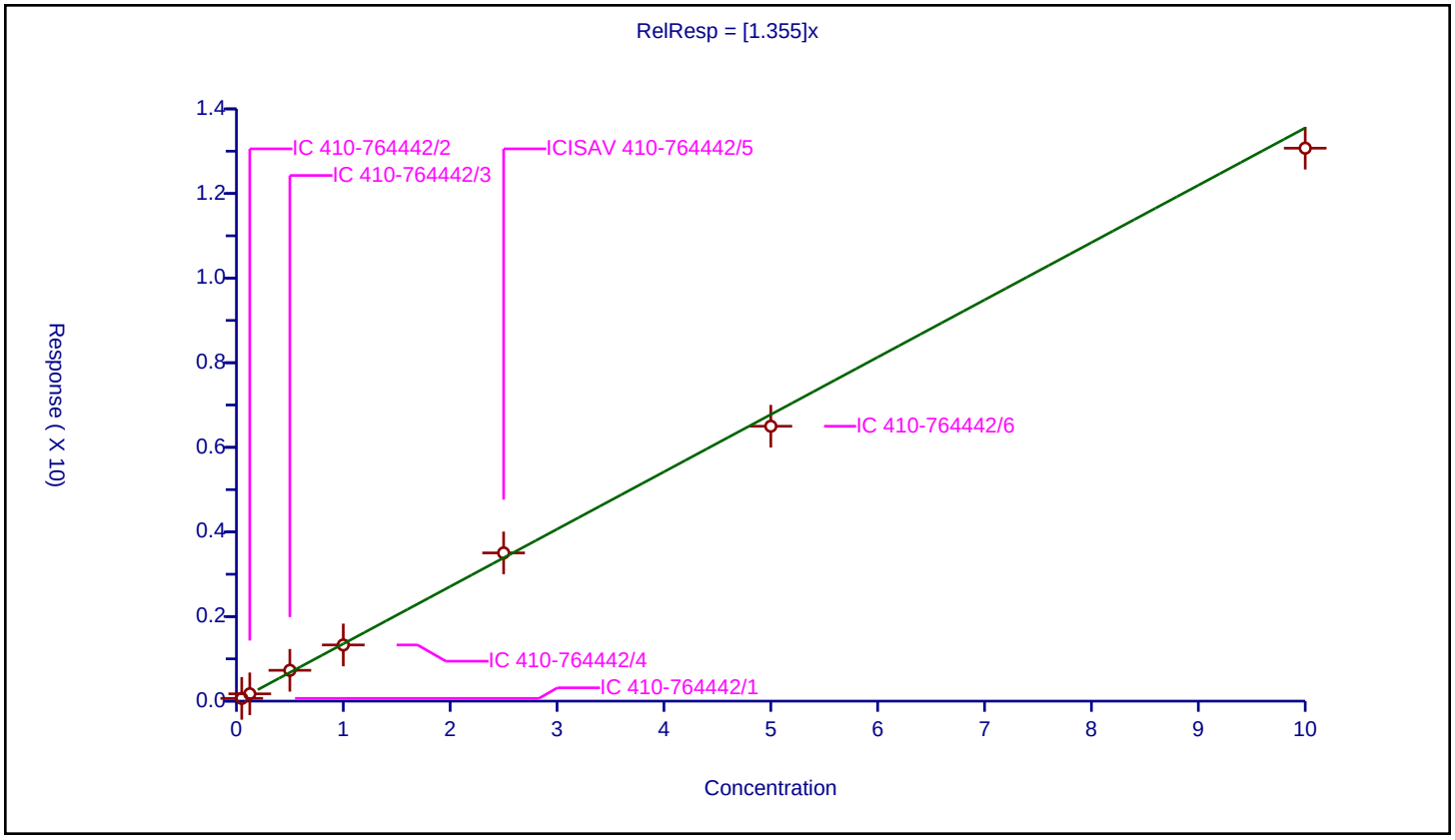
Curve Coefficients

Intercept:	0
Slope:	1.355

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.065305	2.0	1817250.0	1.306105	Y
2	IC 410-764442/2	0.125	0.173104	2.0	1747761.0	1.38483	Y
3	IC 410-764442/3	0.5	0.728912	2.0	1674813.0	1.457825	Y
4	IC 410-764442/4	1.0	1.327853	2.0	1799757.0	1.327853	Y
5	ICISAV 410-764442/5	2.5	3.504196	2.0	1678287.0	1.401678	Y
6	IC 410-764442/6	5.0	6.498612	2.0	1686294.0	1.299722	Y
7	IC 410-764442/7	10.0	13.071495	2.0	1719302.0	1.30715	Y



Calibration / 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

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

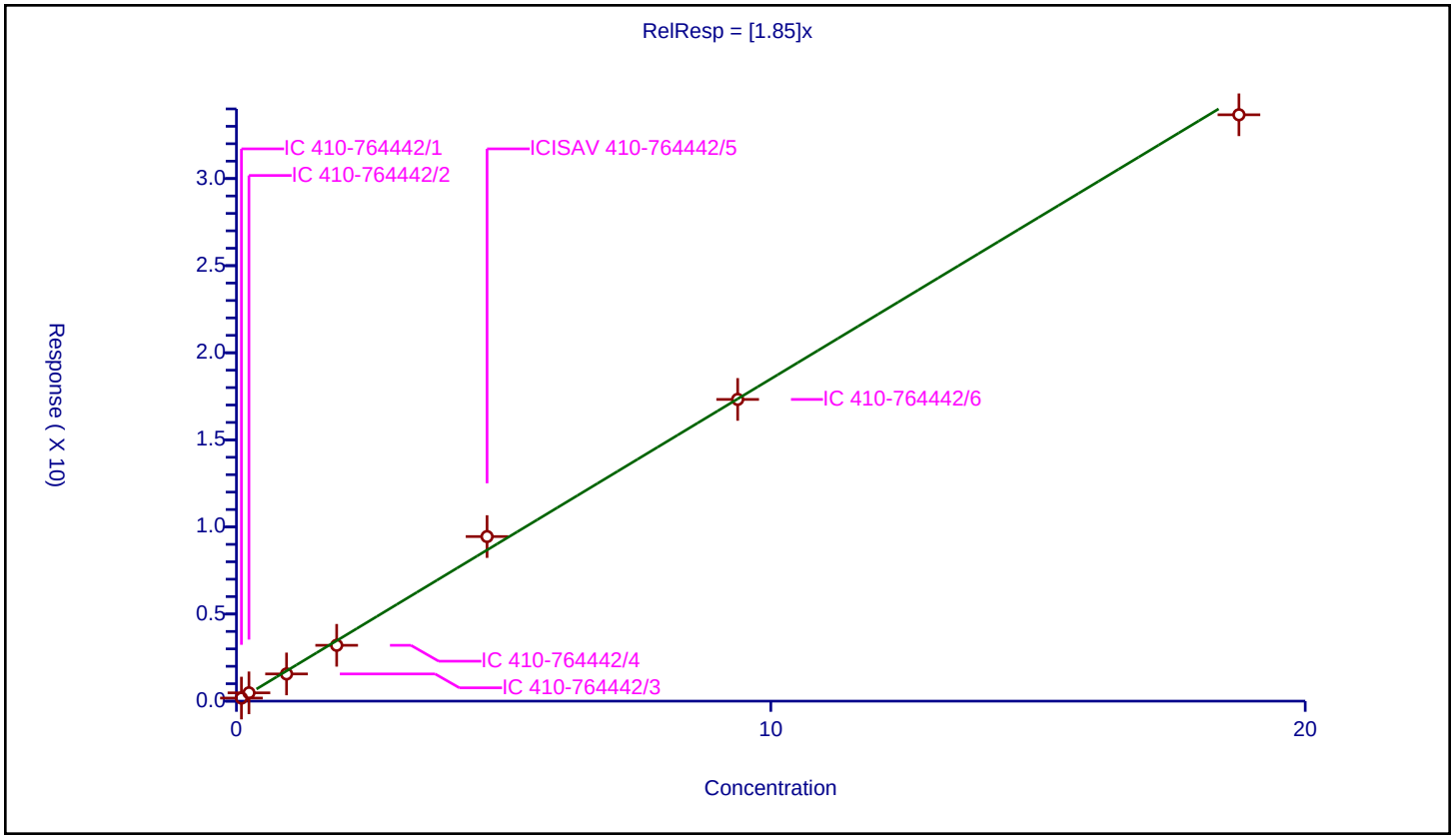
Curve Coefficients

Intercept:	0
Slope:	1.85

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0938	0.177047	4.69	1027842.0	1.887498	Y
2	IC 410-764442/2	0.2345	0.476236	4.69	1063964.0	2.030858	Y
3	IC 410-764442/3	0.938	1.562518	4.69	1050107.0	1.665797	Y
4	IC 410-764442/4	1.876	3.206283	4.69	1050444.0	1.709106	Y
5	ICISAV 410-764442/5	4.69	9.448044	4.69	955447.0	2.014508	Y
6	IC 410-764442/6	9.38	17.32215	4.69	927027.0	1.846711	Y
7	IC 410-764442/7	18.76	33.662803	4.69	892662.0	1.794393	Y



Calibration / Perfluoro-3,6-dioxaheptanoic acid

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

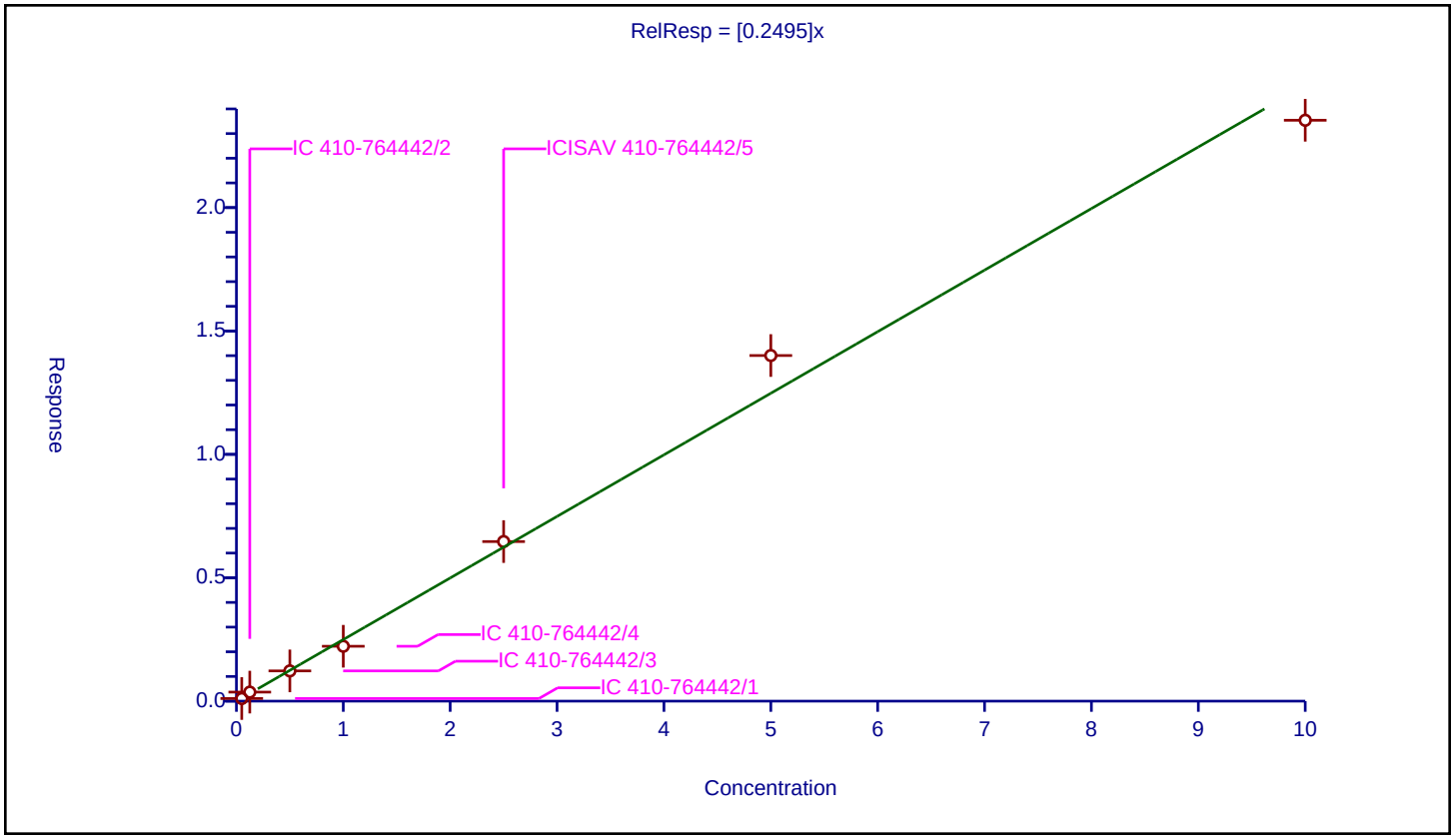
Curve Coefficients

Intercept:	0
Slope:	0.2495

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.010599	2.0	2125006.0	0.211971	Y
2	IC 410-764442/2	0.125	0.036635	2.0	2154530.0	0.293083	Y
3	IC 410-764442/3	0.5	0.12251	2.0	2050169.0	0.24502	Y
4	IC 410-764442/4	1.0	0.222399	2.0	2227308.0	0.222399	Y
5	ICISAV 410-764442/5	2.5	0.646703	2.0	2050674.0	0.258681	Y
6	IC 410-764442/6	5.0	1.400516	2.0	1969261.0	0.280103	Y
7	IC 410-764442/7	10.0	2.353907	2.0	1992540.0	0.235391	Y



Calibration / Perfluorohexanoic acid

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

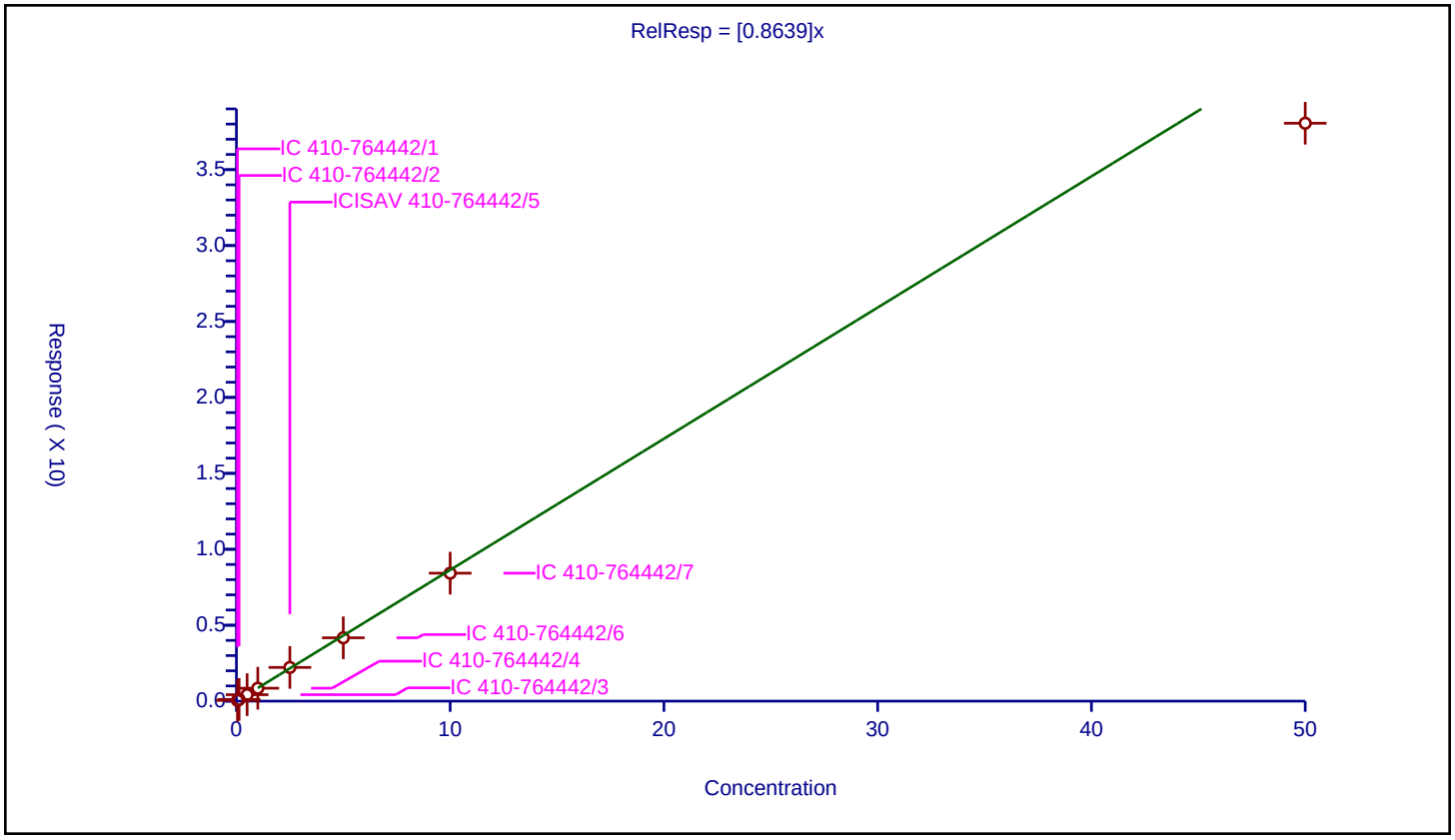
Curve Coefficients

Intercept:	0
Slope:	0.8639

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.049421	2.0	2125006.0	0.988421	Y
2	IC 410-764442/2	0.125	0.111837	2.0	2154530.0	0.894695	Y
3	IC 410-764442/3	0.5	0.425785	2.0	2050169.0	0.851571	Y
4	IC 410-764442/4	1.0	0.851135	2.0	2227308.0	0.851135	Y
5	ICISAV 410-764442/5	2.5	2.219043	2.0	2050674.0	0.887617	Y
6	IC 410-764442/6	5.0	4.170908	2.0	1969261.0	0.834182	Y
7	IC 410-764442/7	10.0	8.427239	2.0	1992540.0	0.842724	Y
8	IC 410-764442/8	50.0	38.055357	2.0	1760060.0	0.761107	Y



Calibration / 5:3 FTCA

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

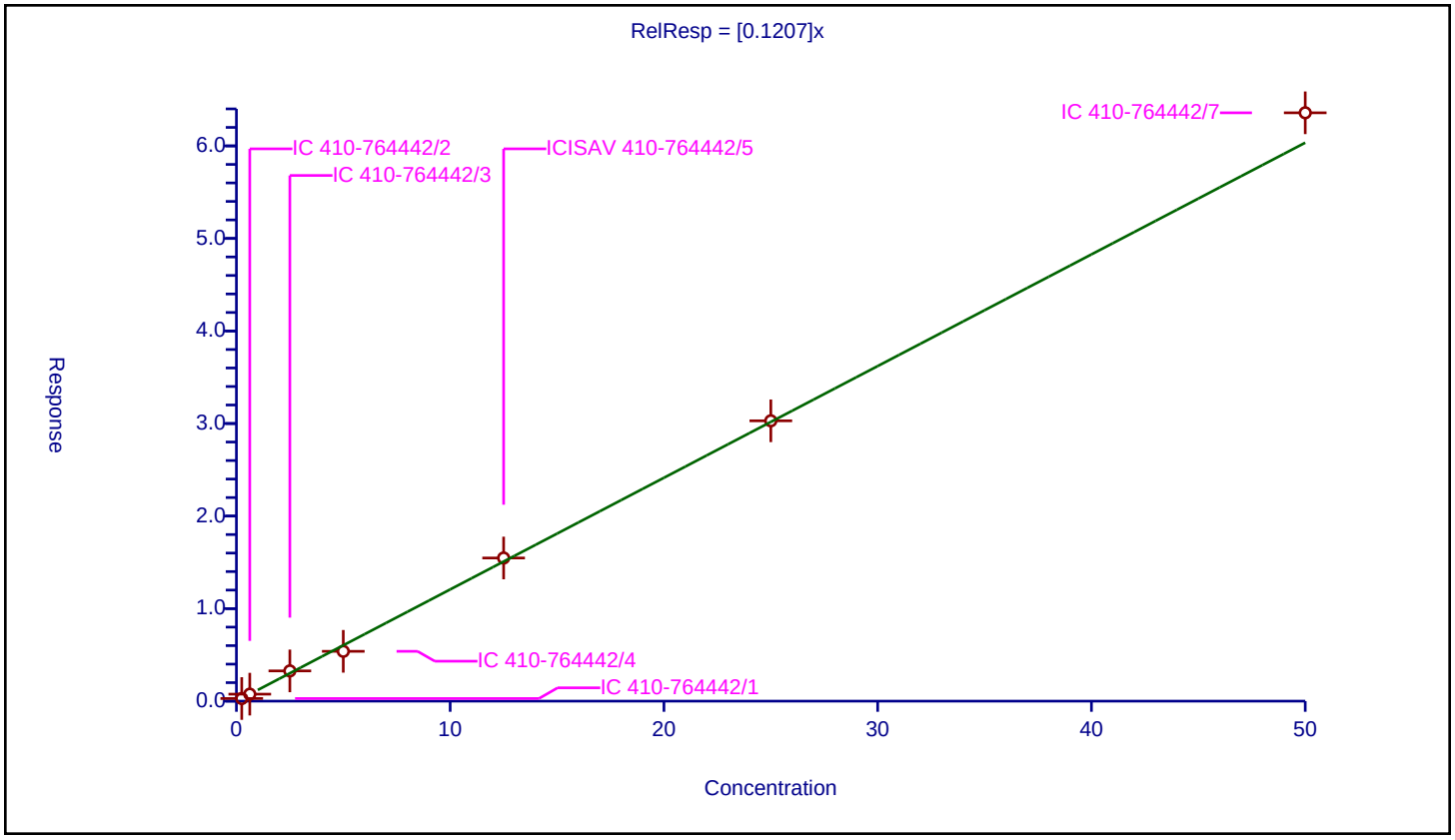
Curve Coefficients

Intercept:	0
Slope:	0.1207

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.25	0.028377	2.0	2125006.0	0.113509	Y
2	IC 410-764442/2	0.625	0.075547	2.0	2154530.0	0.120875	Y
3	IC 410-764442/3	2.5	0.326734	2.0	2050169.0	0.130694	Y
4	IC 410-764442/4	5.0	0.538295	2.0	2227308.0	0.107659	Y
5	ICISAV 410-764442/5	12.5	1.546927	2.0	2050674.0	0.123754	Y
6	IC 410-764442/6	25.0	3.029324	2.0	1969261.0	0.121173	Y
7	IC 410-764442/7	50.0	6.357728	2.0	1992540.0	0.127155	Y



Calibration / Perfluorobutanesulfonic acid

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

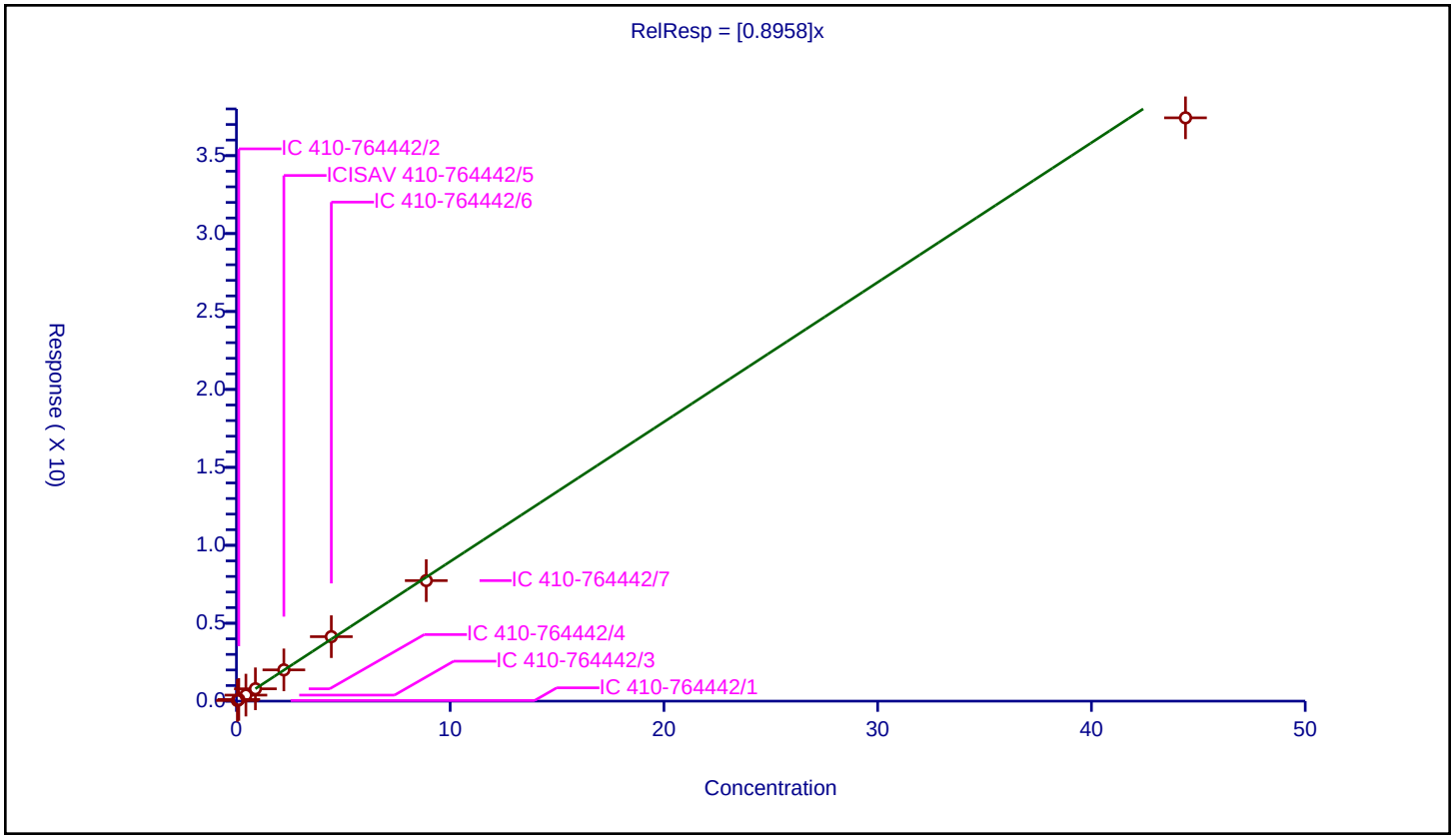
Curve Coefficients

Intercept:	0
Slope:	0.8958

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0444	0.03957	1.864	2168069.0	0.891217	Y
2	IC 410-764442/2	0.111	0.106964	1.864	2171131.0	0.963644	Y
3	IC 410-764442/3	0.444	0.386668	1.864	2124156.0	0.870874	Y
4	IC 410-764442/4	0.888	0.792267	1.864	2199170.0	0.892192	Y
5	ICISAV 410-764442/5	2.22	2.004672	1.864	2191444.0	0.903005	Y
6	IC 410-764442/6	4.44	4.135545	1.864	2042659.0	0.931429	Y
7	IC 410-764442/7	8.88	7.73372	1.864	2067716.0	0.870914	Y
8	IC 410-764442/8	44.4	37.428316	1.864	1503894.0	0.84298	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

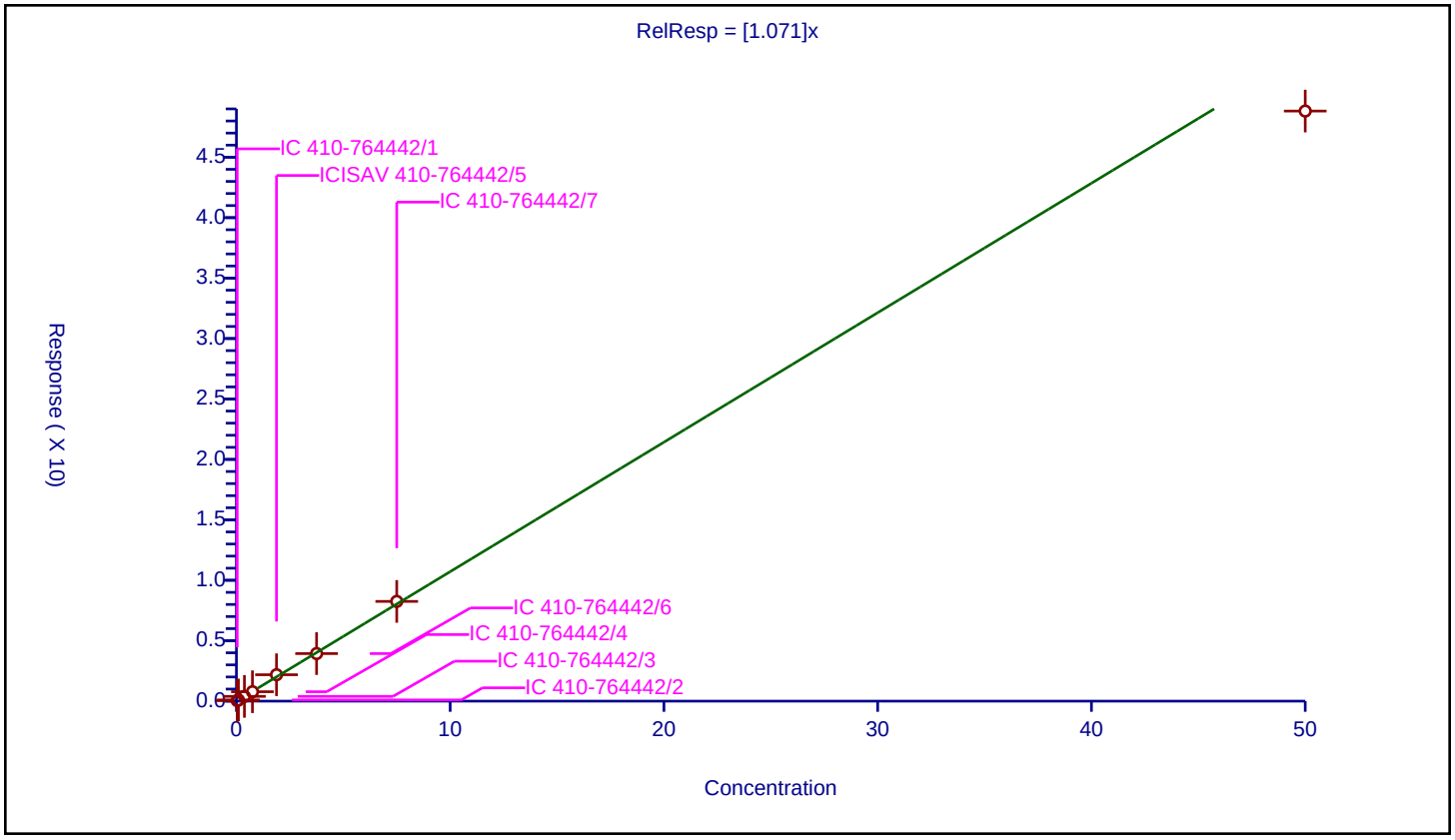
Curve Coefficients

Intercept:	0
Slope:	1.071

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0375	0.043166	2.0	1448764.0	1.151105	Y
2	IC 410-764442/2	0.09375	0.097603	2.0	1504764.0	1.041102	Y
3	IC 410-764442/3	0.375	0.393662	2.0	1391661.0	1.049765	Y
4	IC 410-764442/4	0.75	0.778117	2.0	1545729.0	1.037489	Y
5	ICISAV 410-764442/5	1.875	2.183778	2.0	1392637.0	1.164682	Y
6	IC 410-764442/6	3.75	3.935574	2.0	1287185.0	1.049486	Y
7	IC 410-764442/7	7.5	8.250931	2.0	1369222.0	1.100124	Y
8	IC 410-764442/8	50.0	48.820736	2.0	1183788.0	0.976415	Y



Calibration / FBSA

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

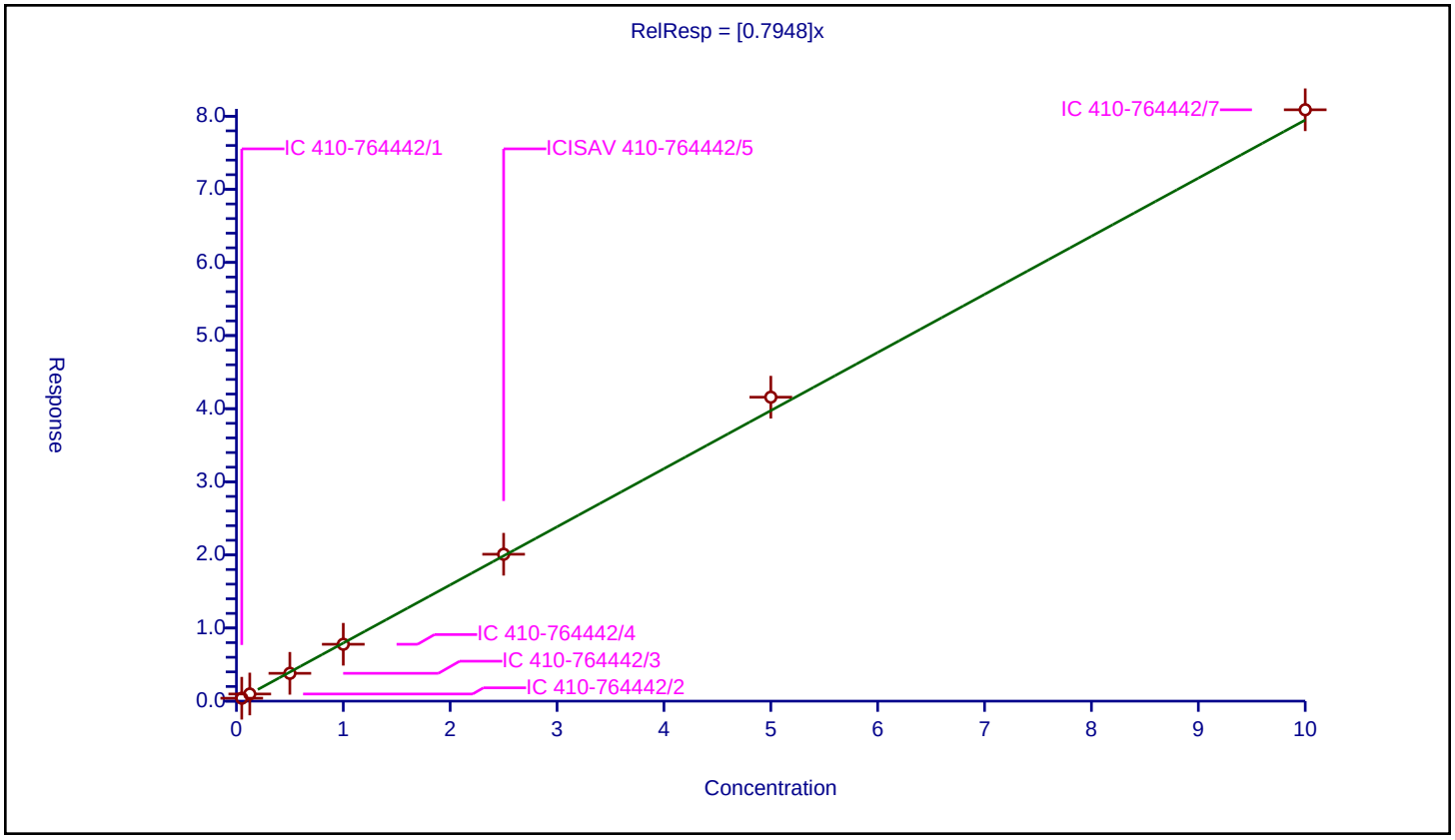
Curve Coefficients

Intercept:	0
Slope:	0.7948

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.039912	1.864	2168069.0	0.798245	Y
2	IC 410-764442/2	0.125	0.097849	1.864	2171131.0	0.782795	Y
3	IC 410-764442/3	0.5	0.380313	1.864	2124156.0	0.760626	Y
4	IC 410-764442/4	1.0	0.778006	1.864	2199170.0	0.778006	Y
5	ICISAV 410-764442/5	2.5	2.009022	1.864	2191444.0	0.803609	Y
6	IC 410-764442/6	5.0	4.157107	1.864	2042659.0	0.831421	Y
7	IC 410-764442/7	10.0	8.088112	1.864	2067716.0	0.808811	Y



Calibration / Perfluoro (2-ethoxyethane) sulfonic acid

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

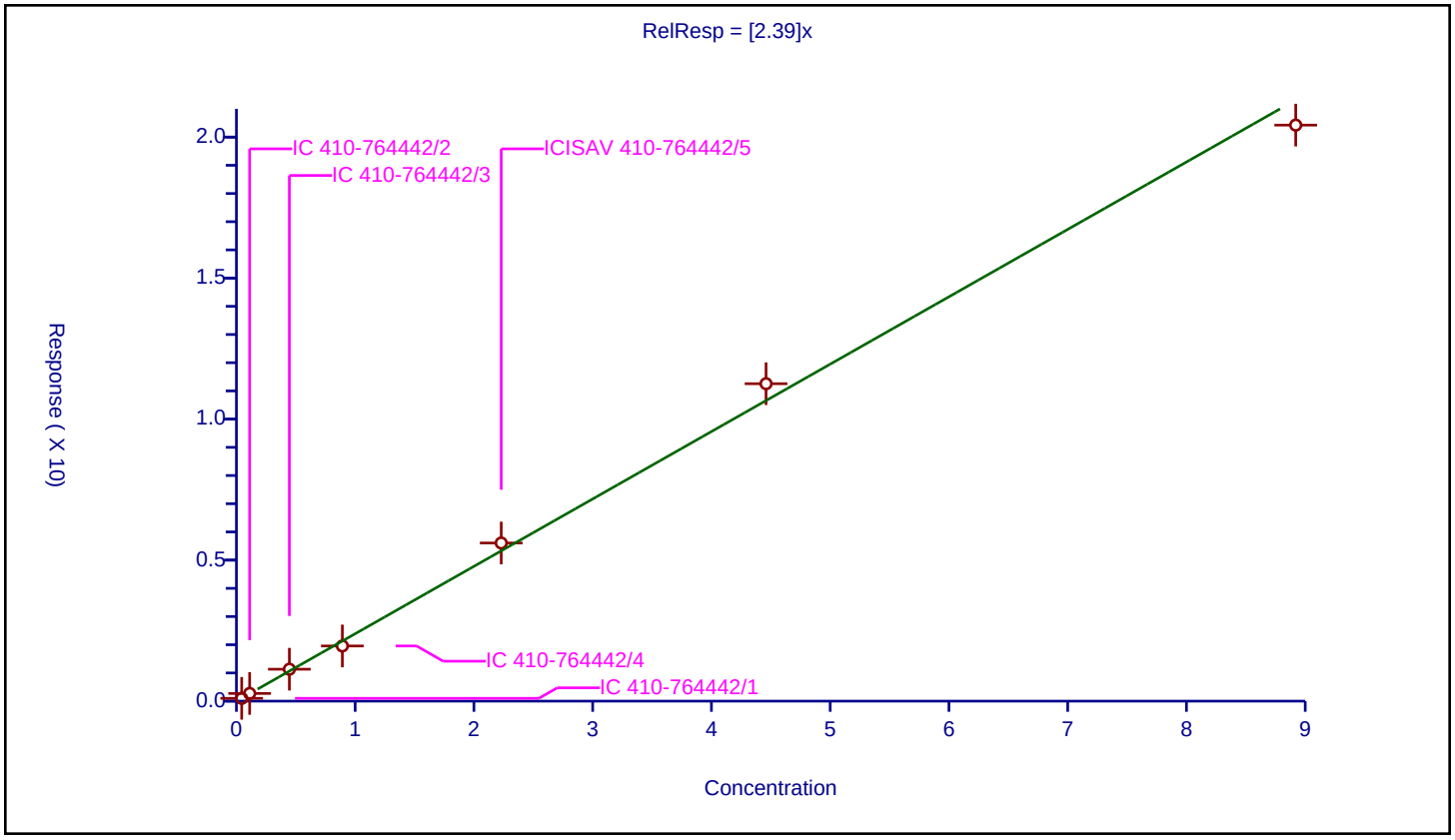
Curve Coefficients

Intercept:	0
Slope:	2.39

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0446	0.099261	2.0	2125006.0	2.225581	Y
2	IC 410-764442/2	0.1115	0.272477	2.0	2154530.0	2.44374	Y
3	IC 410-764442/3	0.446	1.13148	2.0	2050169.0	2.536952	Y
4	IC 410-764442/4	0.892	1.956362	2.0	2227308.0	2.193231	Y
5	ICISAV 410-764442/5	2.23	5.606881	2.0	2050674.0	2.514297	Y
6	IC 410-764442/6	4.46	11.255645	2.0	1969261.0	2.523687	Y
7	IC 410-764442/7	8.92	20.425214	2.0	1992540.0	2.289822	Y



Calibration / Perfluoroheptanoic acid

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

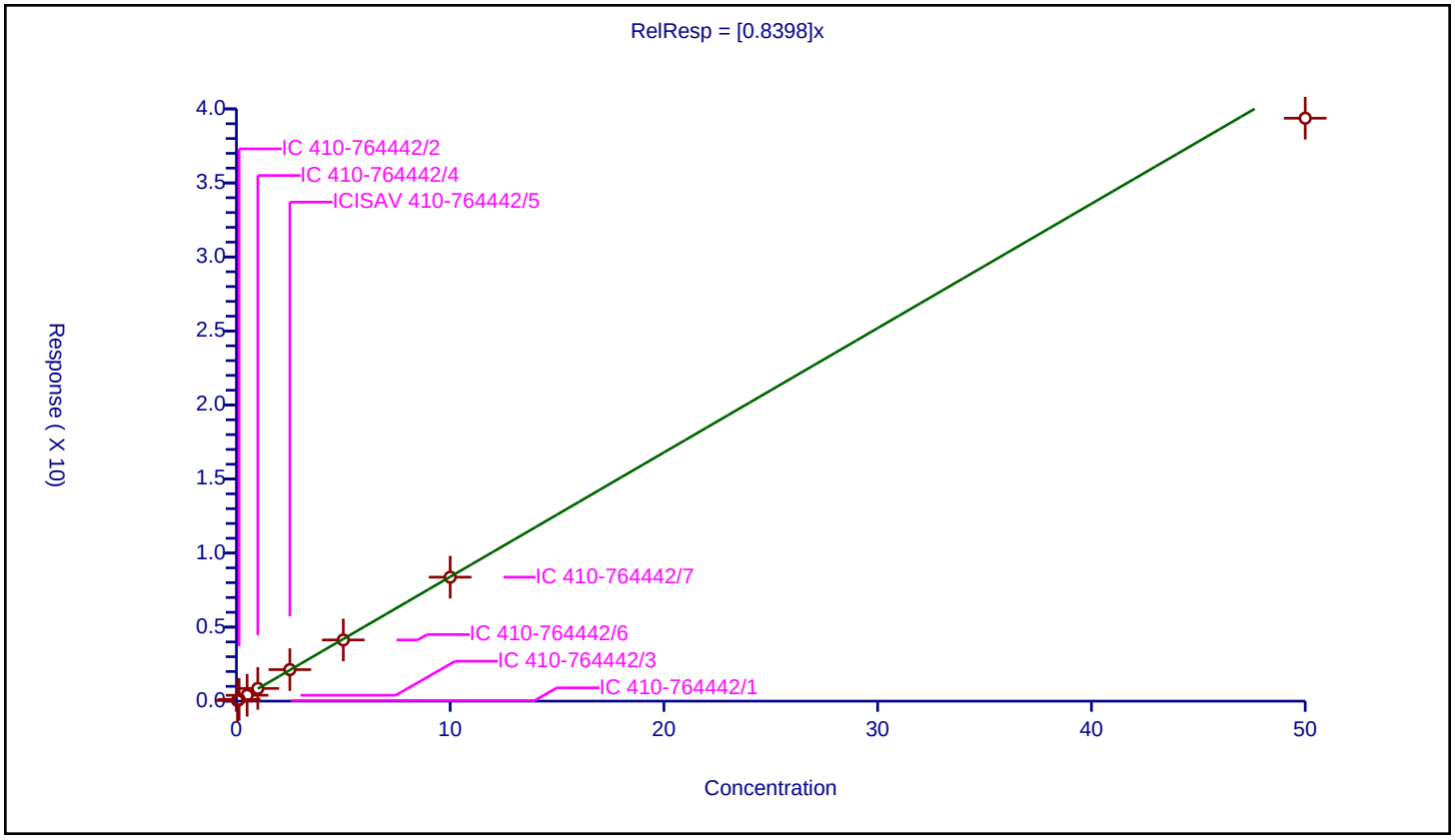
Curve Coefficients

Intercept:	0
Slope:	0.8398

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.041552	2.0	2040507.0	0.831048	Y
2	IC 410-764442/2	0.125	0.116661	2.0	2034433.0	0.933284	Y
3	IC 410-764442/3	0.5	0.396736	2.0	2086011.0	0.793472	Y
4	IC 410-764442/4	1.0	0.858276	2.0	2017593.0	0.858276	Y
5	ICISAV 410-764442/5	2.5	2.128058	2.0	2010853.0	0.851223	Y
6	IC 410-764442/6	5.0	4.13243	2.0	2051571.0	0.826486	Y
7	IC 410-764442/7	10.0	8.371995	2.0	1990334.0	0.837199	Y
8	IC 410-764442/8	50.0	39.371057	2.0	1693366.0	0.787421	Y



Calibration / DONA

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

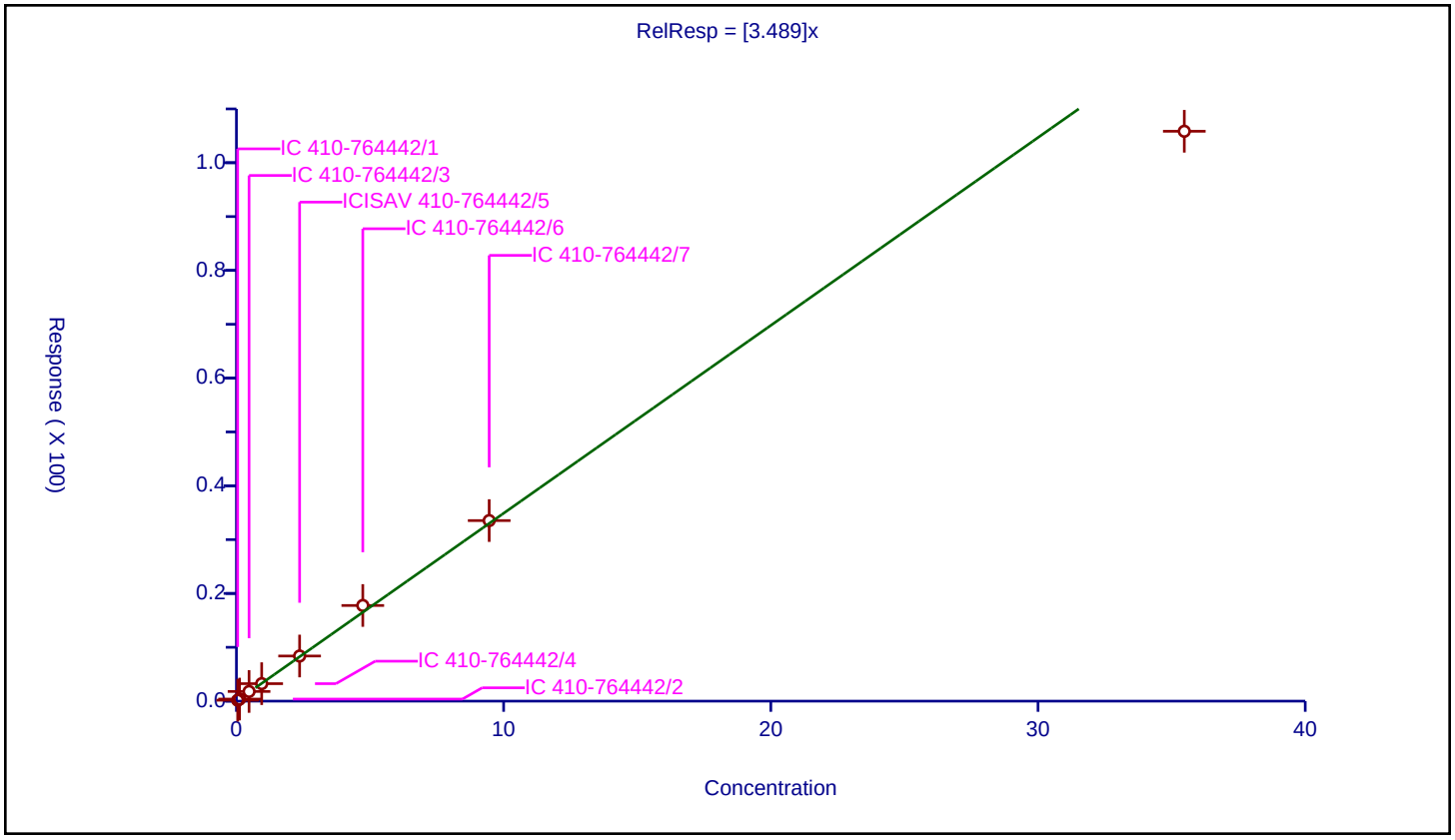
Curve Coefficients

Intercept:	0
Slope:	3.489

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0473	0.170748	2.0	1448764.0	3.609901	Y
2	IC 410-764442/2	0.11825	0.3838	2.0	1504764.0	3.245664	Y
3	IC 410-764442/3	0.473	1.796455	2.0	1391661.0	3.798002	Y
4	IC 410-764442/4	0.946	3.246274	2.0	1545729.0	3.431579	Y
5	ICISAV 410-764442/5	2.365	8.382736	2.0	1392637.0	3.544497	Y
6	IC 410-764442/6	4.73	17.764918	2.0	1287185.0	3.755797	Y
7	IC 410-764442/7	9.46	33.537423	2.0	1369222.0	3.545182	Y
8	IC 410-764442/8	35.475	105.843974	2.0	1183788.0	2.983622	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

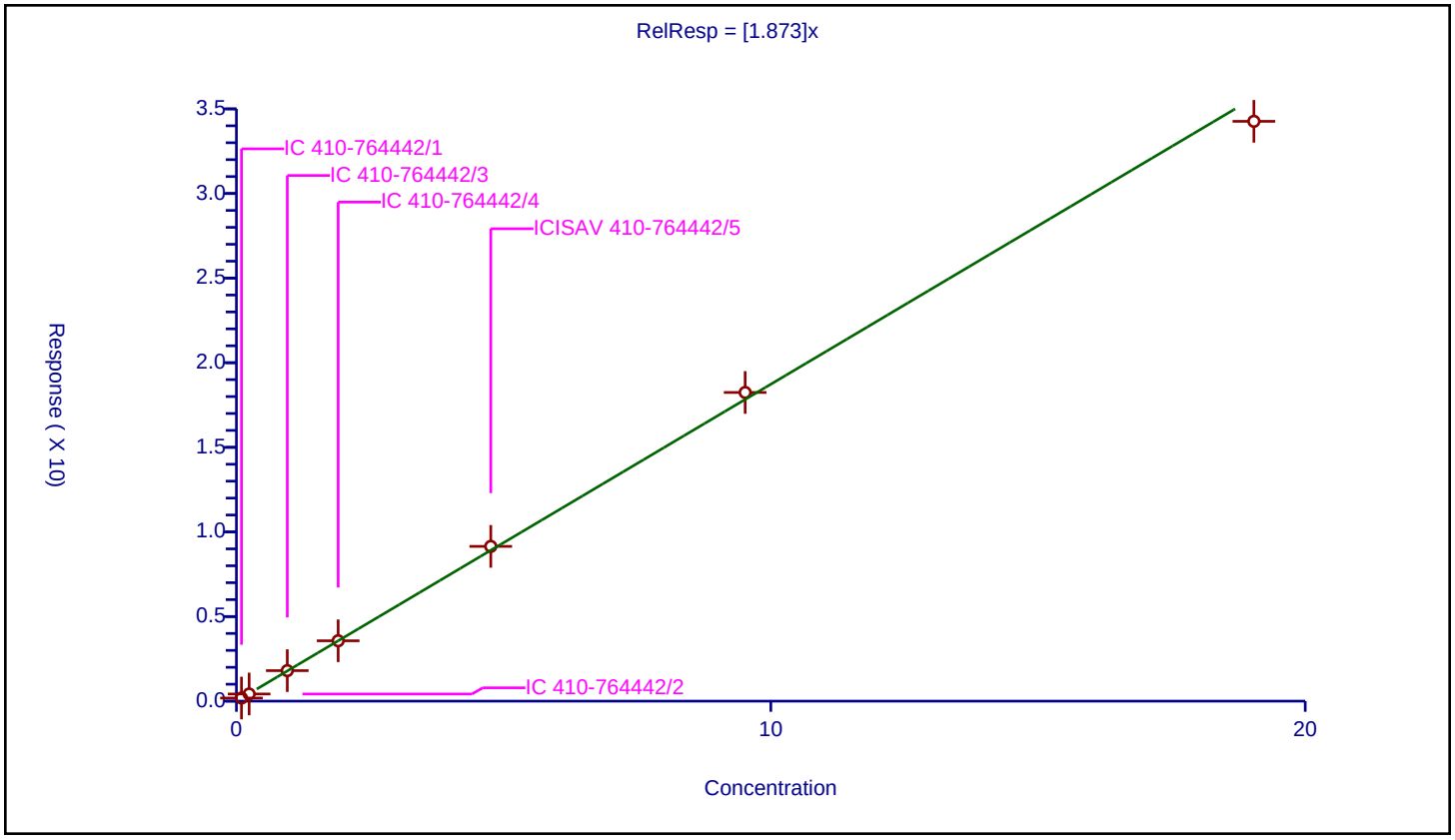
Curve Coefficients

Intercept:	0
Slope:	1.873

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0952	0.183459	4.76	957766.0	1.927089	Y
2	IC 410-764442/2	0.238	0.423249	4.76	937720.0	1.778356	Y
3	IC 410-764442/3	0.952	1.802358	4.76	926687.0	1.893234	Y
4	IC 410-764442/4	1.904	3.56757	4.76	929550.0	1.873724	Y
5	ICISAV 410-764442/5	4.76	9.146257	4.76	793696.0	1.921483	Y
6	IC 410-764442/6	9.52	18.241745	4.76	751792.0	1.91615	Y
7	IC 410-764442/7	19.04	34.265092	4.76	694978.0	1.799637	Y



Calibration / Perfluoropentanesulfonic acid

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

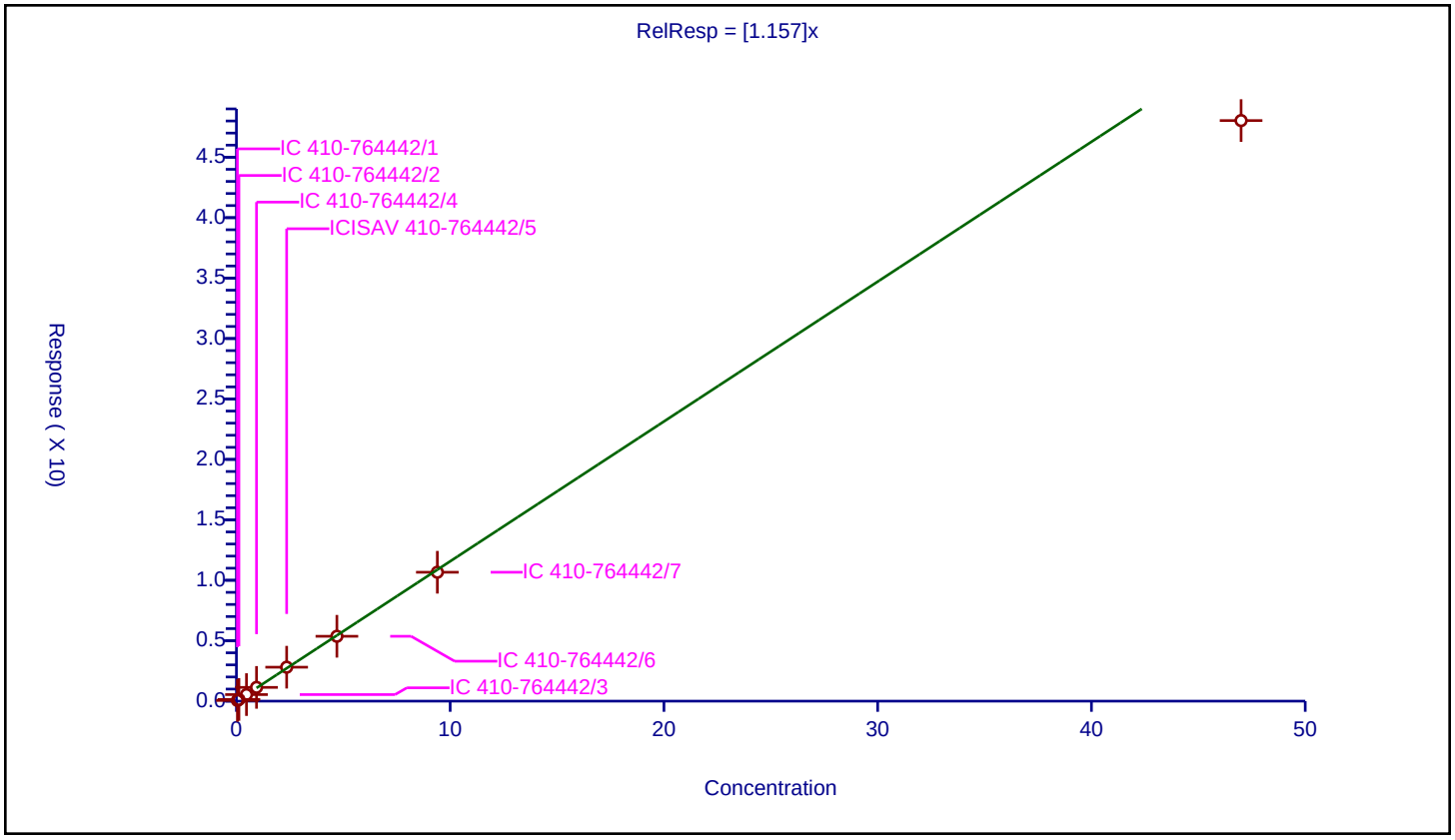
Curve Coefficients

Intercept:	0
Slope:	1.157

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.047	0.057183	1.896	1906099.0	1.216668	Y
2	IC 410-764442/2	0.1175	0.138709	1.896	1834765.0	1.180501	Y
3	IC 410-764442/3	0.47	0.542134	1.896	1814092.0	1.153478	Y
4	IC 410-764442/4	0.94	1.139194	1.896	1896586.0	1.211908	Y
5	ICISAV 410-764442/5	2.35	2.807408	1.896	1798668.0	1.194641	Y
6	IC 410-764442/6	4.7	5.365867	1.896	1765298.0	1.141674	Y
7	IC 410-764442/7	9.4	10.664775	1.896	1738785.0	1.13455	Y
8	IC 410-764442/8	47.0	48.032035	1.896	1387840.0	1.021958	Y



Calibration / bis(trifluoromethane)sulfonimide

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

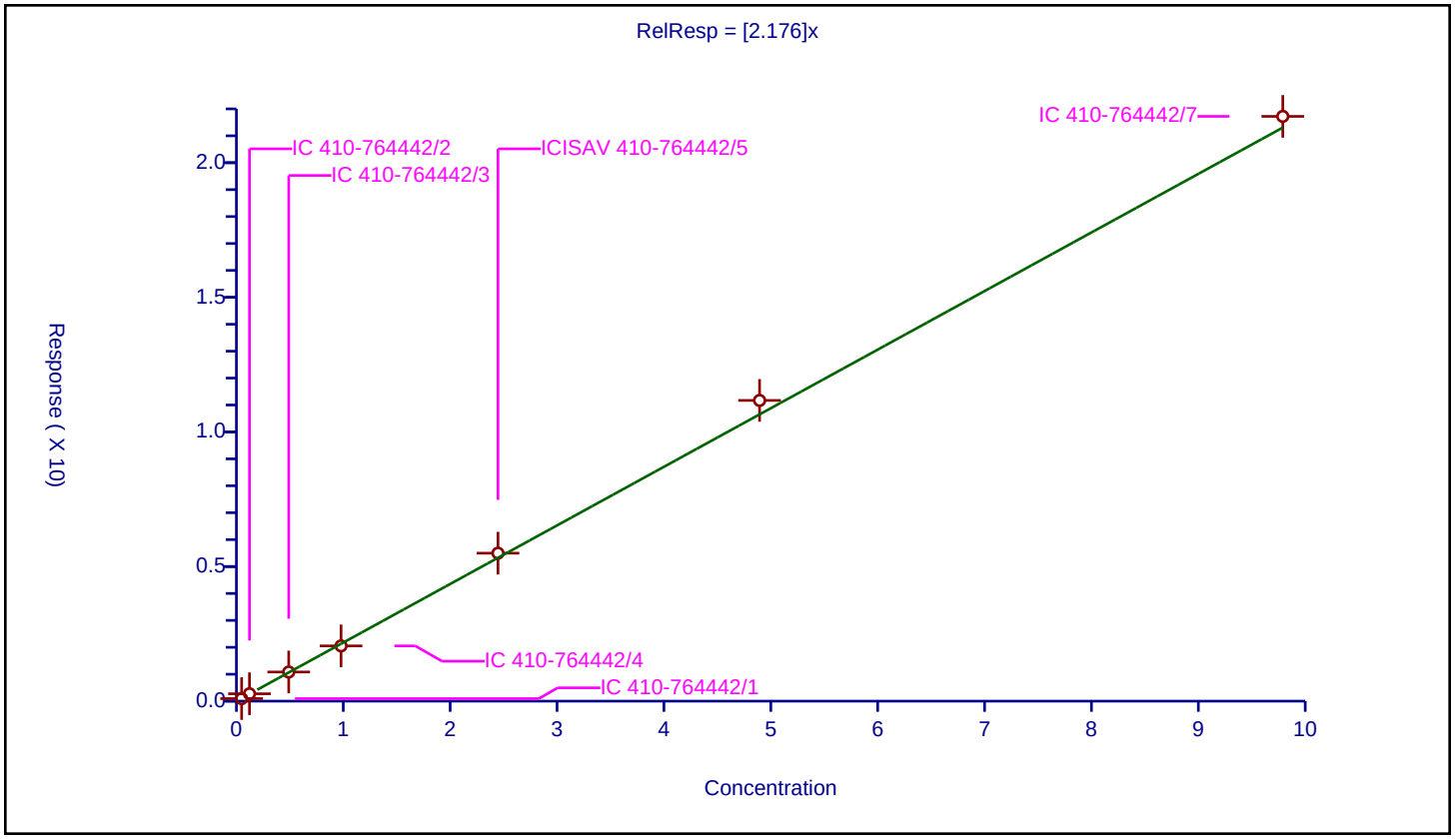
Curve Coefficients

Intercept:	0
Slope:	2.176

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.04895	0.094547	1.896	1906099.0	1.93151	Y
2	IC 410-764442/2	0.122375	0.274921	1.896	1834765.0	2.246546	Y
3	IC 410-764442/3	0.4895	1.082995	1.896	1814092.0	2.212451	Y
4	IC 410-764442/4	0.979	2.051964	1.896	1896586.0	2.095979	Y
5	ICISAV 410-764442/5	2.4475	5.496143	1.896	1798668.0	2.245615	Y
6	IC 410-764442/6	4.895	11.169974	1.896	1765298.0	2.281915	Y
7	IC 410-764442/7	9.79	21.720699	1.896	1738785.0	2.218662	Y



Calibration / Perfluorooctanoic acid

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

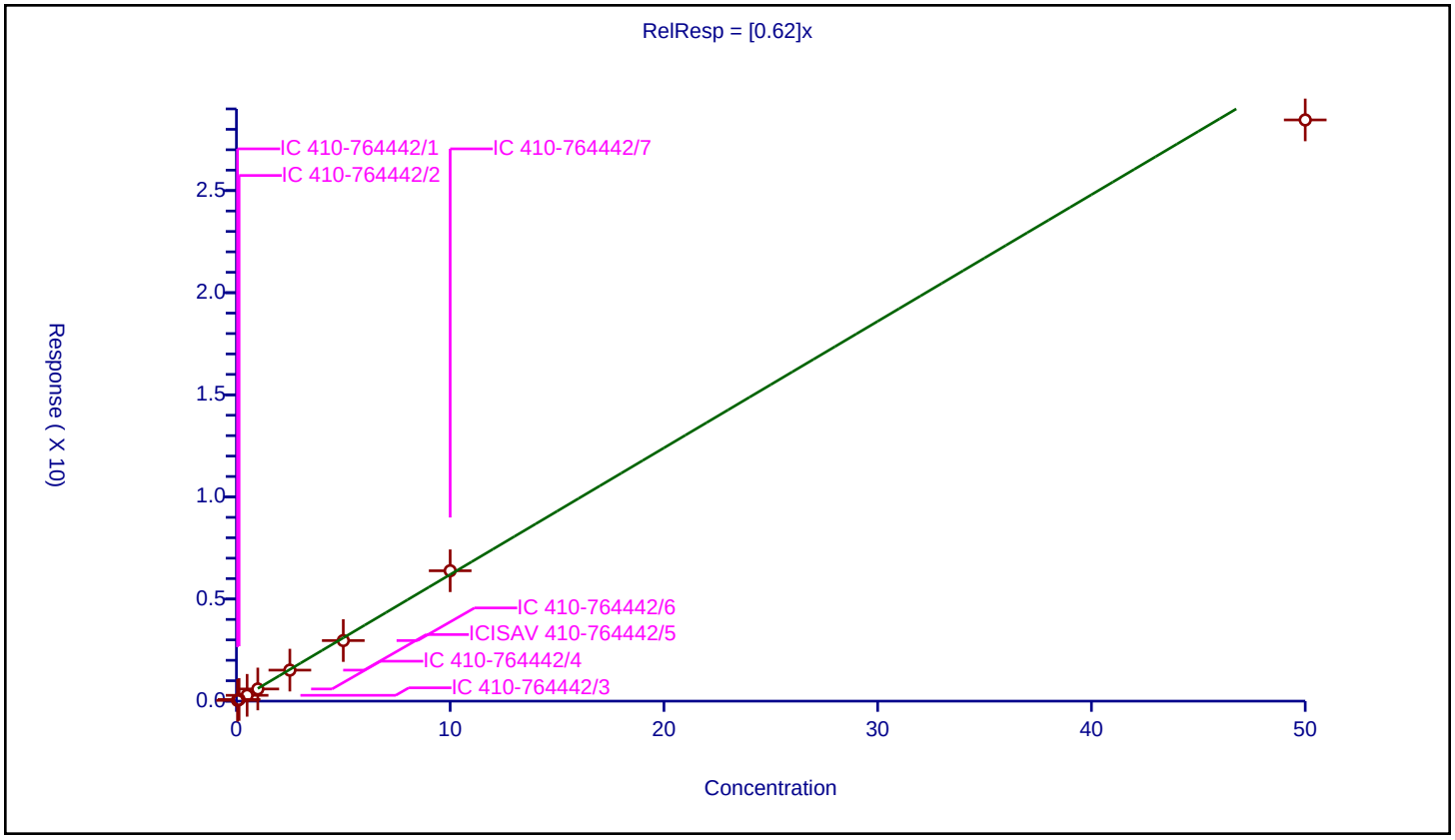
Curve Coefficients

Intercept:	0
Slope:	0.62

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.037102	2.0	2684320.0	0.742043	Y
2	IC 410-764442/2	0.125	0.080529	2.0	2857409.0	0.644231	Y
3	IC 410-764442/3	0.5	0.285285	2.0	2858973.0	0.57057	Y
4	IC 410-764442/4	1.0	0.594955	2.0	2924058.0	0.594955	Y
5	ICISAV 410-764442/5	2.5	1.518092	2.0	2820480.0	0.607237	Y
6	IC 410-764442/6	5.0	2.965659	2.0	2680380.0	0.593132	Y
7	IC 410-764442/7	10.0	6.38495	2.0	2580488.0	0.638495	Y
8	IC 410-764442/8	50.0	28.459422	2.0	2376639.0	0.569188	Y



Calibration / 7:3 FTCA

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

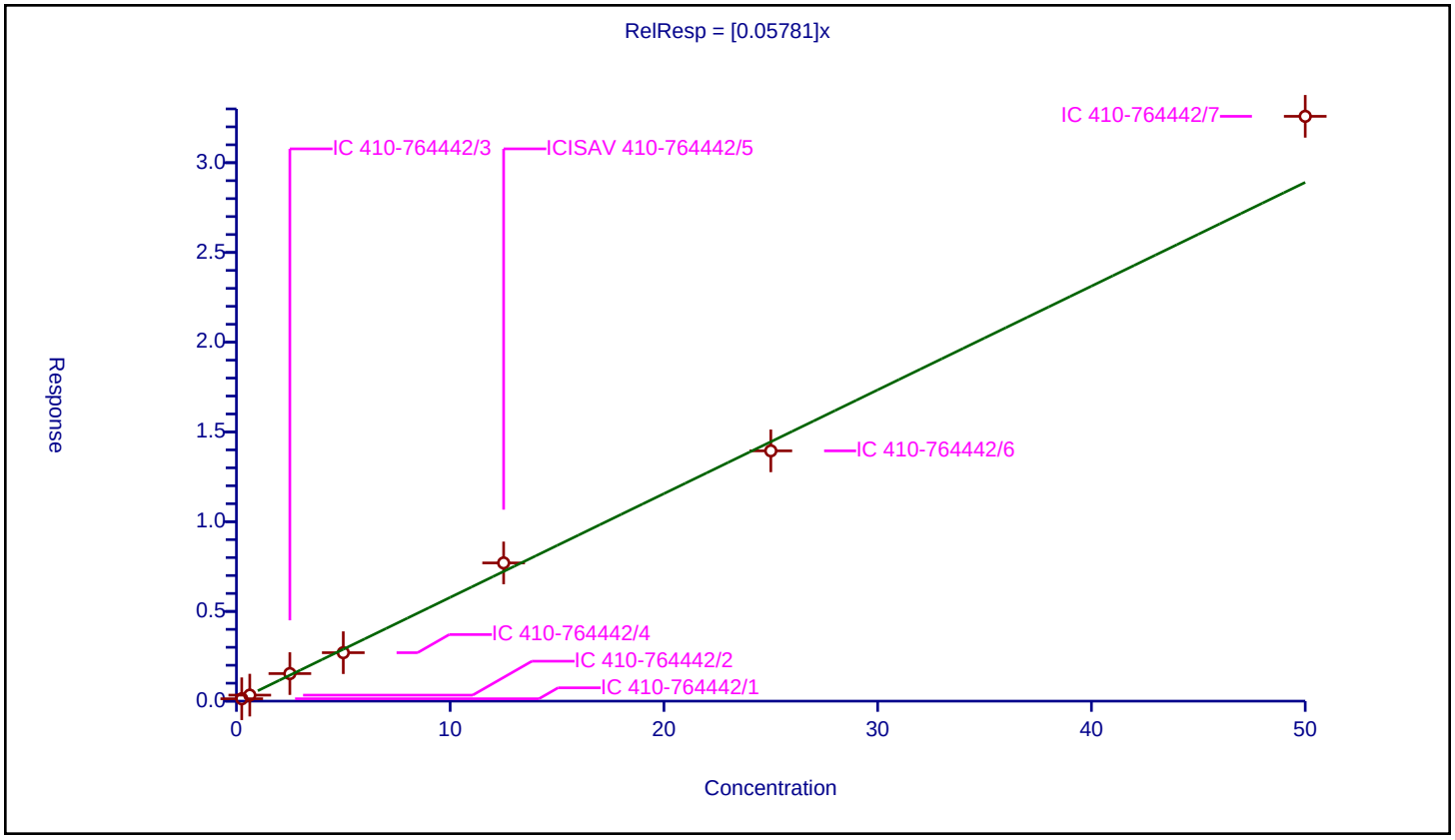
Curve Coefficients

Intercept:	0
Slope:	0.05781

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.25	0.013275	2.0	2125006.0	0.053101	Y
2	IC 410-764442/2	0.625	0.033507	2.0	2154530.0	0.053611	Y
3	IC 410-764442/3	2.5	0.153473	2.0	2050169.0	0.061389	Y
4	IC 410-764442/4	5.0	0.270021	2.0	2227308.0	0.054004	Y
5	ICISAV 410-764442/5	12.5	0.770109	2.0	2050674.0	0.061609	Y
6	IC 410-764442/6	25.0	1.39463	2.0	1969261.0	0.055785	Y
7	IC 410-764442/7	50.0	3.258563	2.0	1992540.0	0.065171	Y



Calibration / Perfluorohexanesulfonic acid

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

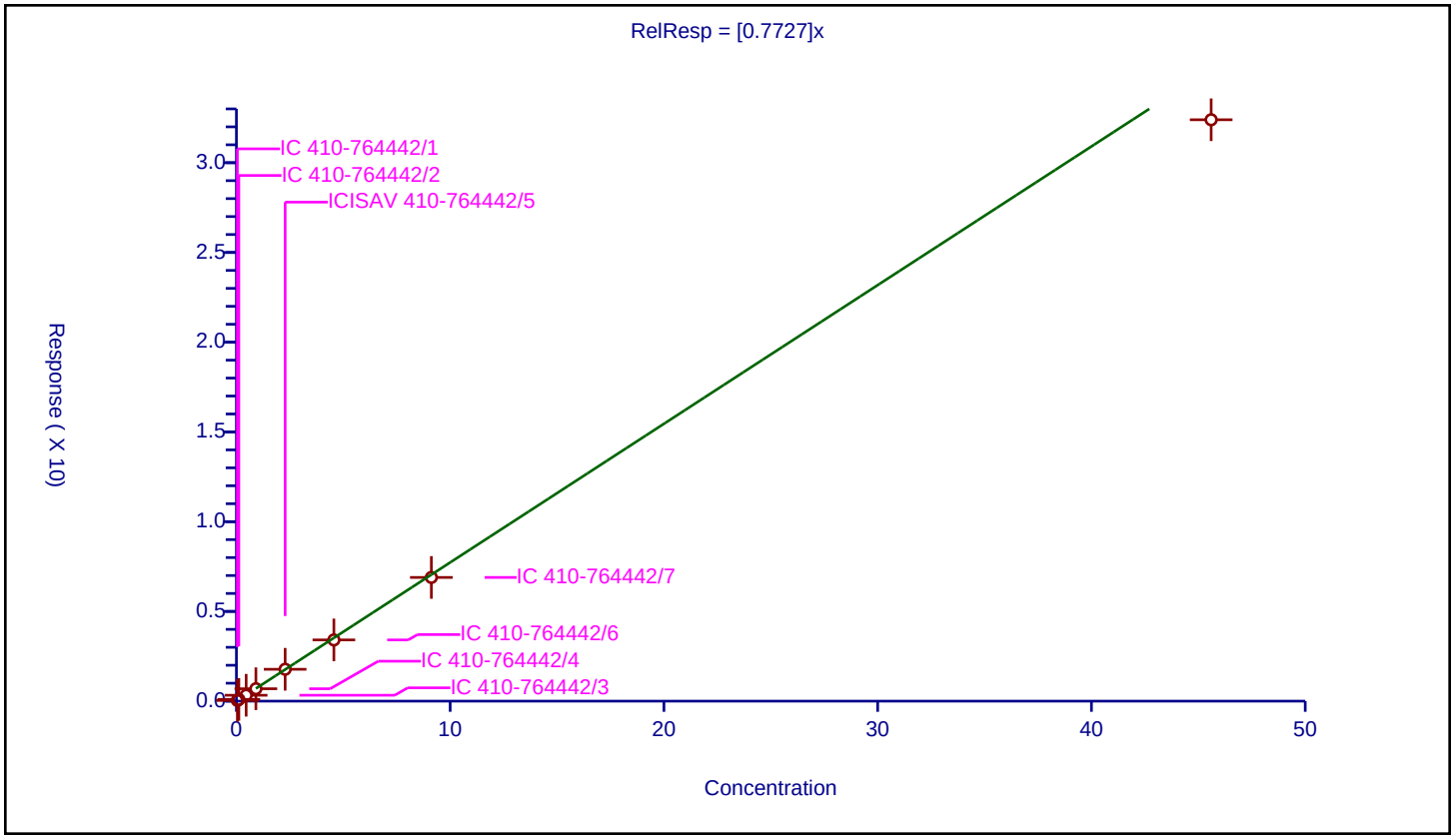
Curve Coefficients

Intercept:	0
Slope:	0.7727

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0456	0.038919	1.896	1906099.0	0.85348	Y
2	IC 410-764442/2	0.114	0.09774	1.896	1834765.0	0.857366	Y
3	IC 410-764442/3	0.456	0.328158	1.896	1814092.0	0.719644	Y
4	IC 410-764442/4	0.912	0.691512	1.896	1896586.0	0.758237	Y
5	ICISAV 410-764442/5	2.28	1.775627	1.896	1798668.0	0.778784	Y
6	IC 410-764442/6	4.56	3.410983	1.896	1765298.0	0.748023	Y
7	IC 410-764442/7	9.12	6.892182	1.896	1738785.0	0.755722	Y
8	IC 410-764442/8	45.6	32.394343	1.896	1387840.0	0.710402	Y



Calibration / Perfluorononanoic acid

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

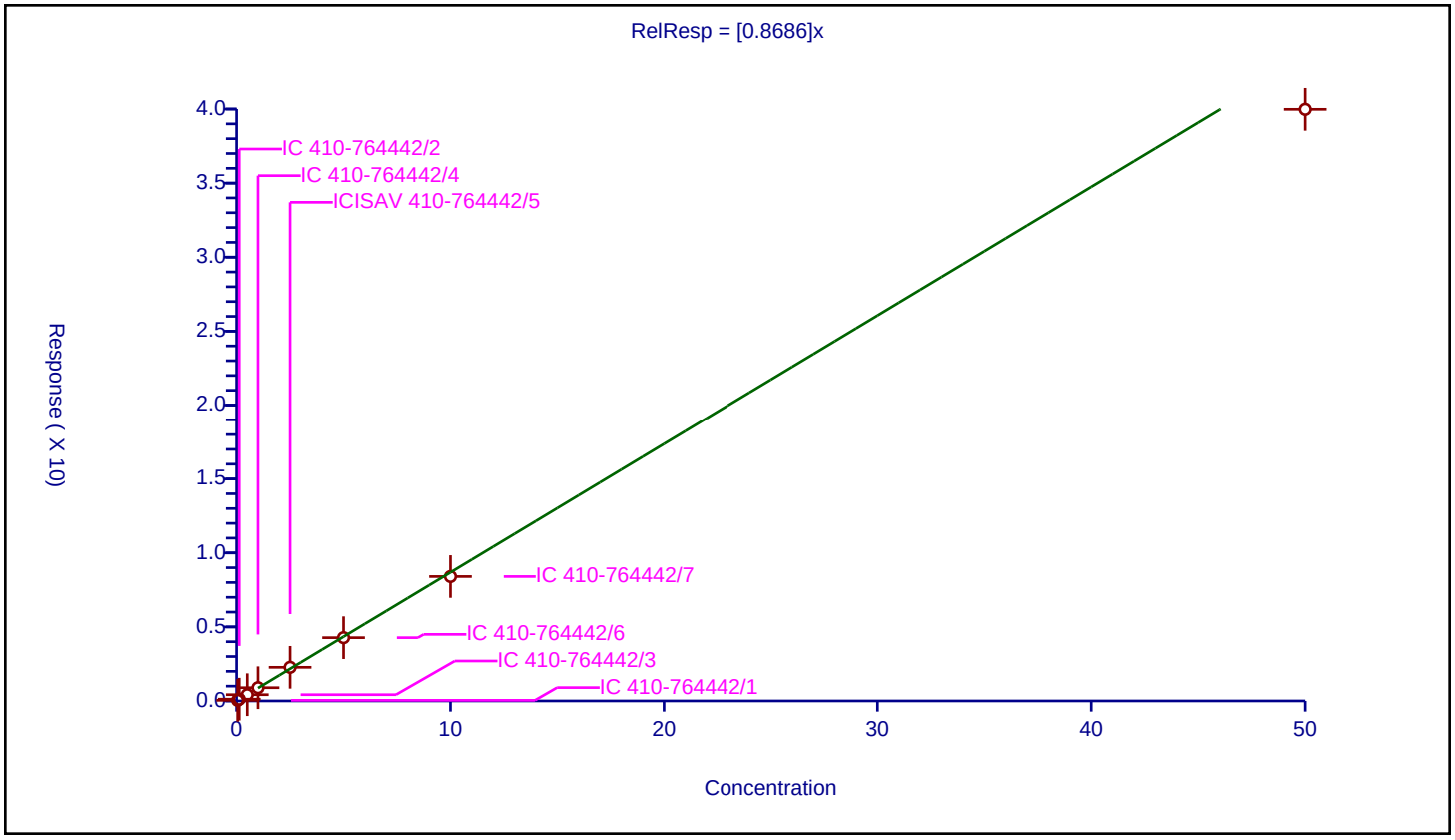
Curve Coefficients

Intercept:	0
Slope:	0.8686

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.042845	2.0	2251923.0	0.856903	Y
2	IC 410-764442/2	0.125	0.118903	2.0	2159229.0	0.951221	Y
3	IC 410-764442/3	0.5	0.421827	2.0	2027864.0	0.843654	Y
4	IC 410-764442/4	1.0	0.893761	2.0	2172609.0	0.893761	Y
5	ICISAV 410-764442/5	2.5	2.270643	2.0	1974145.0	0.908257	Y
6	IC 410-764442/6	5.0	4.273169	2.0	2020573.0	0.854634	Y
7	IC 410-764442/7	10.0	8.405549	2.0	1971079.0	0.840555	Y
8	IC 410-764442/8	50.0	39.980215	2.0	1709573.0	0.799604	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

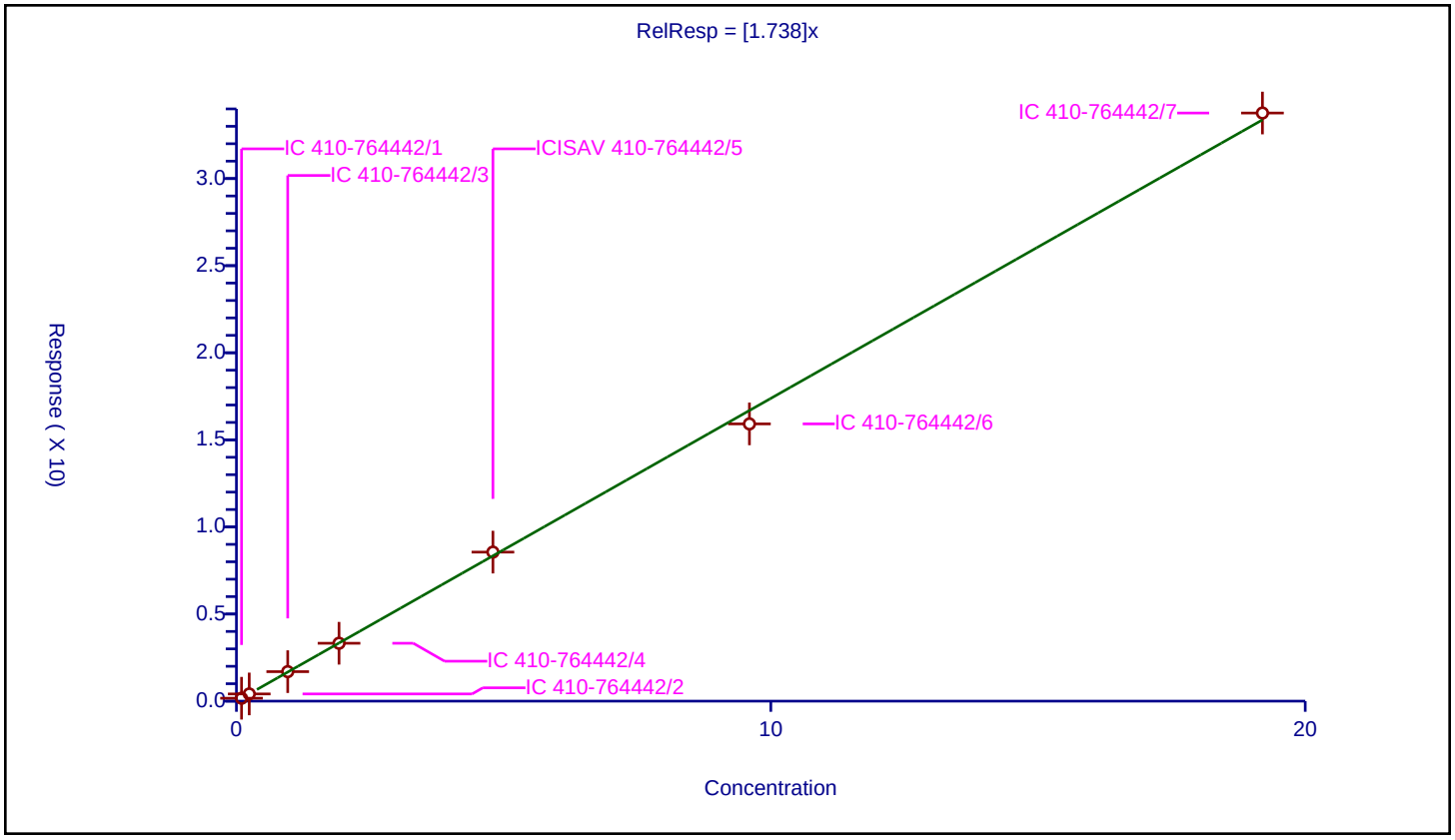
Curve Coefficients

Intercept:	0
Slope:	1.738

Error Coefficients

Relative Standard Deviation:	2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.096	0.167713	4.8	971376.0	1.747006	Y
2	IC 410-764442/2	0.24	0.41404	4.8	950610.0	1.725166	Y
3	IC 410-764442/3	0.96	1.693972	4.8	899791.0	1.764554	Y
4	IC 410-764442/4	1.92	3.322829	4.8	909477.0	1.73064	Y
5	ICISAV 410-764442/5	4.8	8.555394	4.8	866472.0	1.782374	Y
6	IC 410-764442/6	9.6	15.915811	4.8	852524.0	1.657897	Y
7	IC 410-764442/7	19.2	33.763504	4.8	779019.0	1.758516	Y



Calibration / PFECHS

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

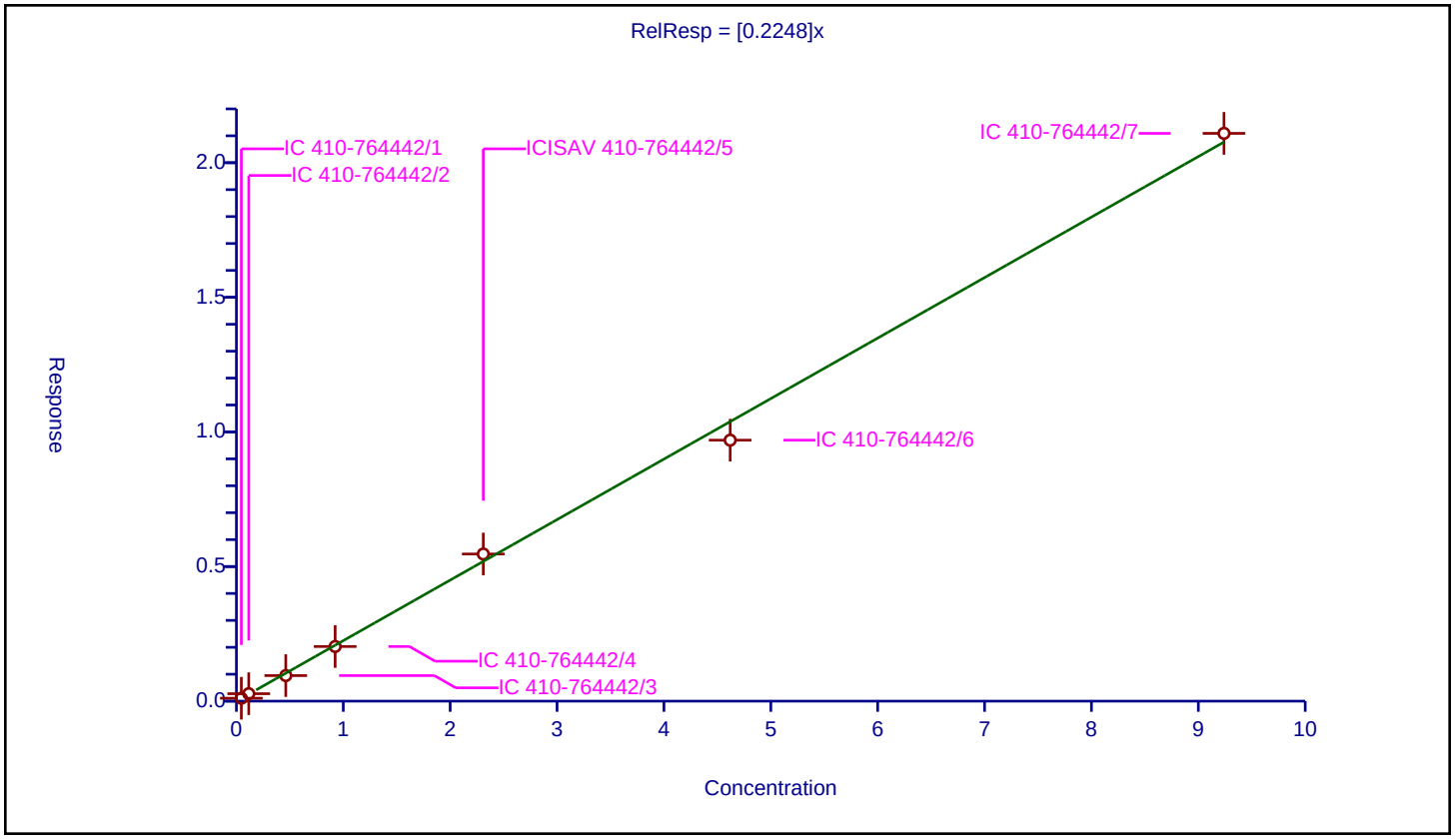
Curve Coefficients

Intercept:	0
Slope:	0.2248

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0462	0.010812	1.896	1906099.0	0.234035	Y
2	IC 410-764442/2	0.1155	0.027659	1.896	1834765.0	0.239475	Y
3	IC 410-764442/3	0.462	0.094935	1.896	1814092.0	0.205488	Y
4	IC 410-764442/4	0.924	0.202944	1.896	1896586.0	0.219637	Y
5	ICISAV 410-764442/5	2.31	0.546605	1.896	1798668.0	0.236626	Y
6	IC 410-764442/6	4.62	0.969387	1.896	1765298.0	0.209824	Y
7	IC 410-764442/7	9.24	2.109077	1.896	1738785.0	0.228255	Y



Calibration / Perfluoroheptanesulfonic acid

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

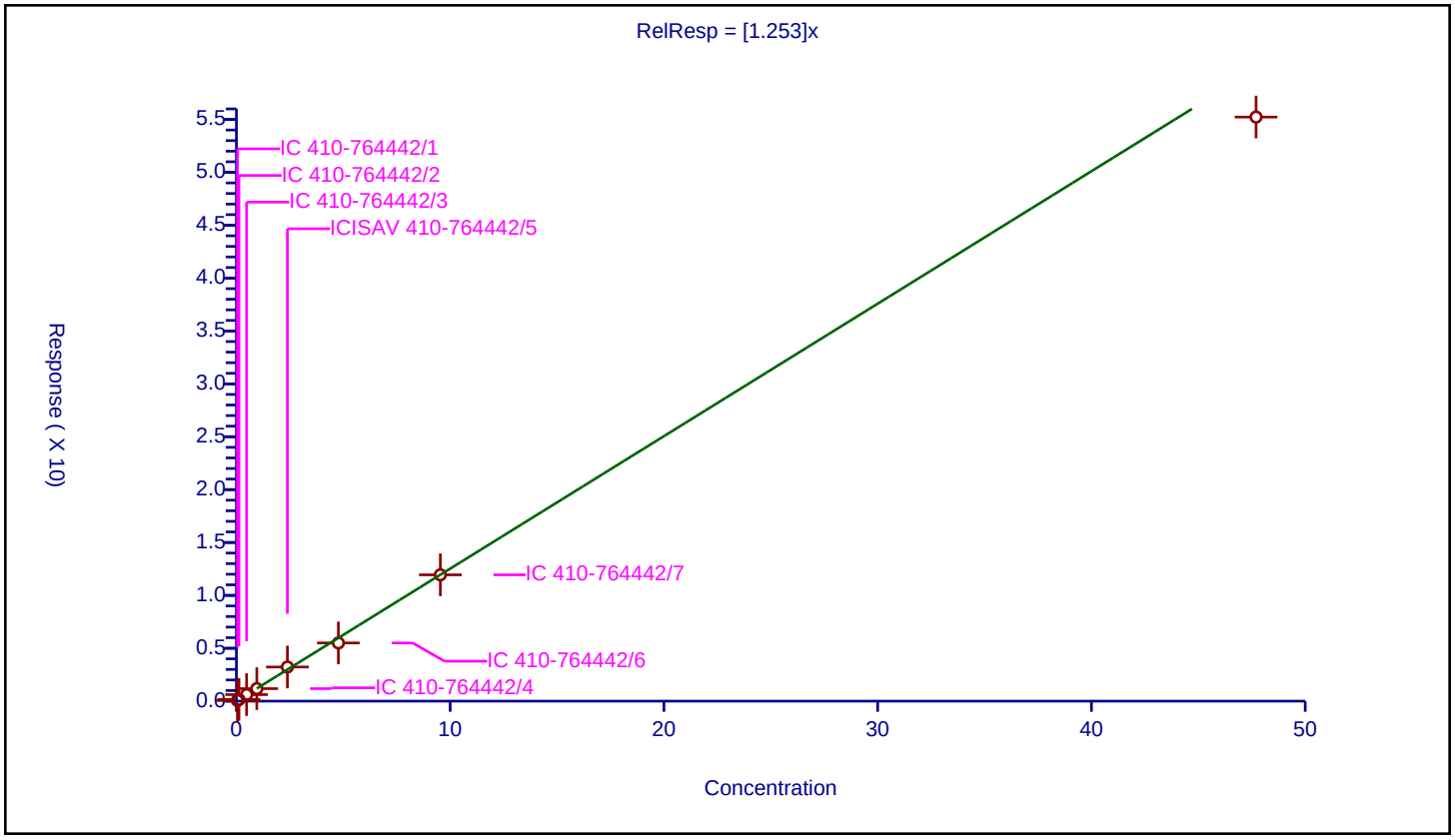
Curve Coefficients

Intercept:	0
Slope:	1.253

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0477	0.061803	1.916	1661672.0	1.295652	Y
2	IC 410-764442/2	0.11925	0.151698	1.916	1646445.0	1.272099	Y
3	IC 410-764442/3	0.477	0.619039	1.916	1565652.0	1.297775	Y
4	IC 410-764442/4	0.954	1.183276	1.916	1628209.0	1.240331	Y
5	ICISAV 410-764442/5	2.385	3.226801	1.916	1599873.0	1.352957	Y
6	IC 410-764442/6	4.77	5.500682	1.916	1607412.0	1.153183	Y
7	IC 410-764442/7	9.54	11.942385	1.916	1469928.0	1.251822	Y
8	IC 410-764442/8	47.7	55.227367	1.916	1149156.0	1.157806	Y



Calibration / N-methylperfluorooctanesulfonamidoacetic acid

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

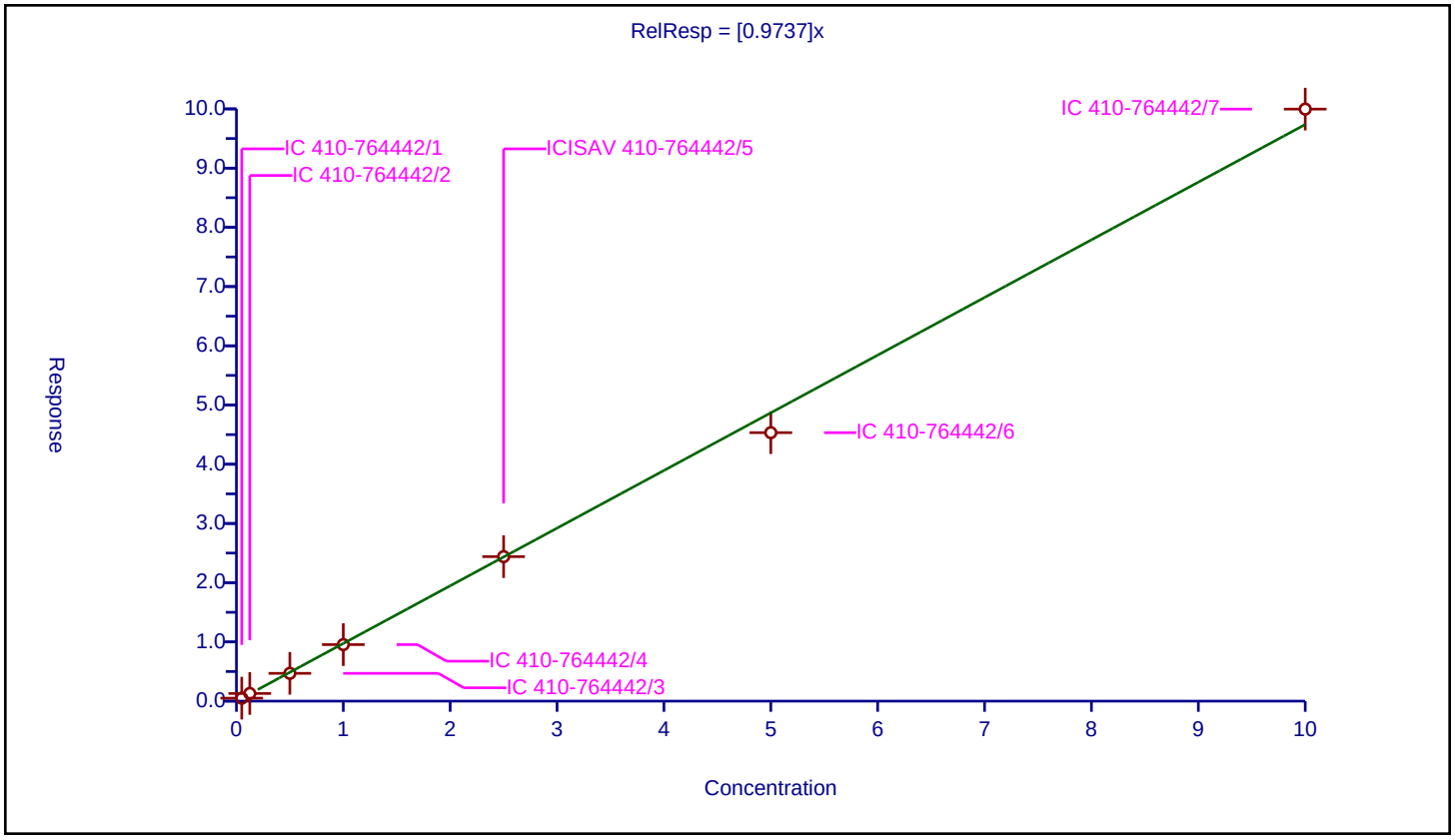
Curve Coefficients

Intercept:	0
Slope:	0.9737

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.05023	5.0	1915605.0	1.004591	Y
2	IC 410-764442/2	0.125	0.129456	5.0	1917674.0	1.03565	Y
3	IC 410-764442/3	0.5	0.469445	5.0	1956894.0	0.938891	Y
4	IC 410-764442/4	1.0	0.954427	5.0	1971309.0	0.954427	Y
5	ICISAV 410-764442/5	2.5	2.439685	5.0	1926542.0	0.975874	Y
6	IC 410-764442/6	5.0	4.533128	5.0	1955238.0	0.906626	Y
7	IC 410-764442/7	10.0	9.996264	5.0	1848250.0	0.999626	Y



Calibration / FHxSA

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

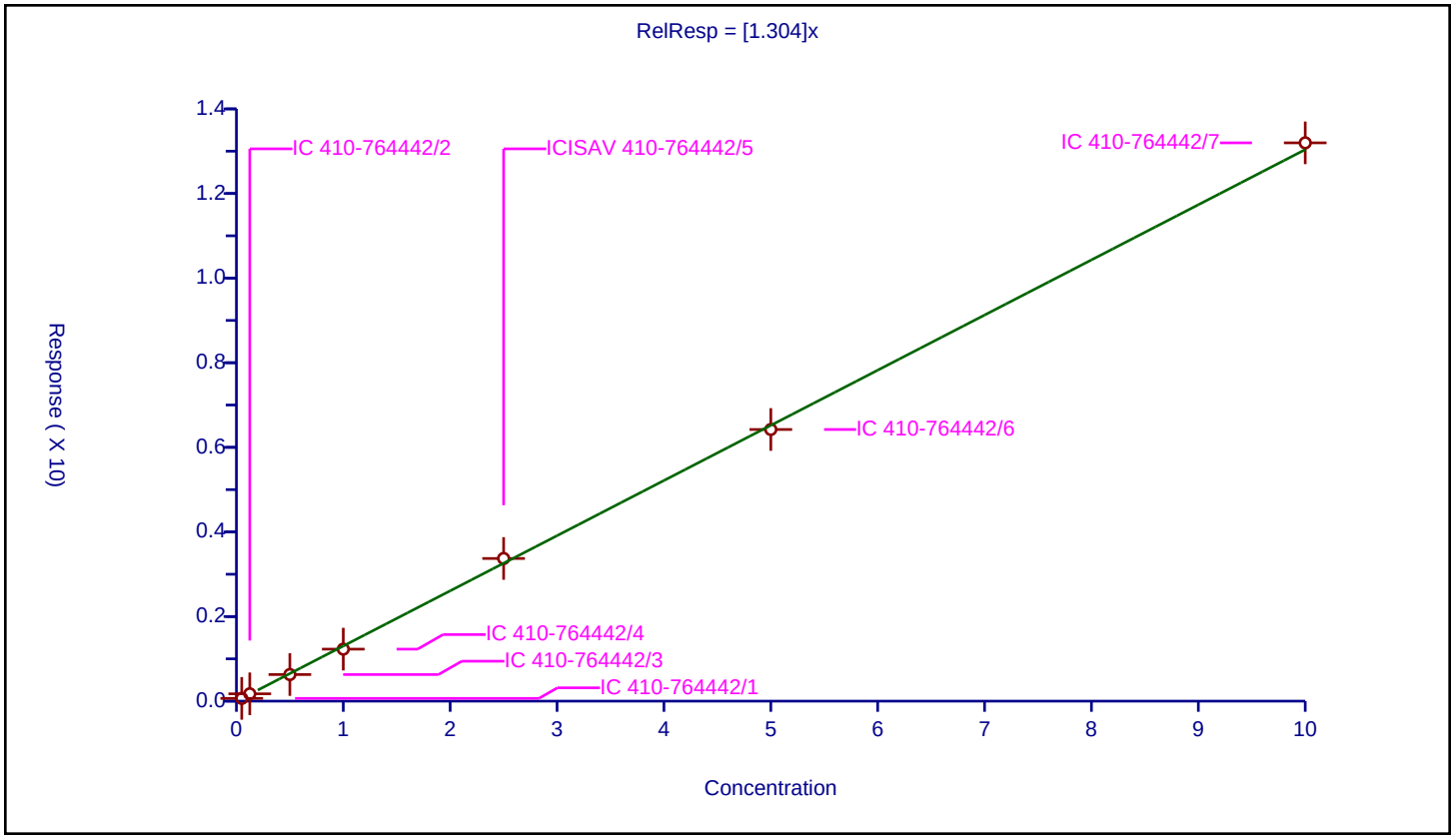
Curve Coefficients

Intercept:	0
Slope:	1.304

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.06511	1.896	1906099.0	1.302204	Y
2	IC 410-764442/2	0.125	0.17316	1.896	1834765.0	1.385276	Y
3	IC 410-764442/3	0.5	0.628526	1.896	1814092.0	1.257051	Y
4	IC 410-764442/4	1.0	1.228991	1.896	1896586.0	1.228991	Y
5	ICISAV 410-764442/5	2.5	3.372702	1.896	1798668.0	1.349081	Y
6	IC 410-764442/6	5.0	6.421267	1.896	1765298.0	1.284253	Y
7	IC 410-764442/7	10.0	13.197309	1.896	1738785.0	1.319731	Y



Calibration / Perfluorodecanoic acid

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

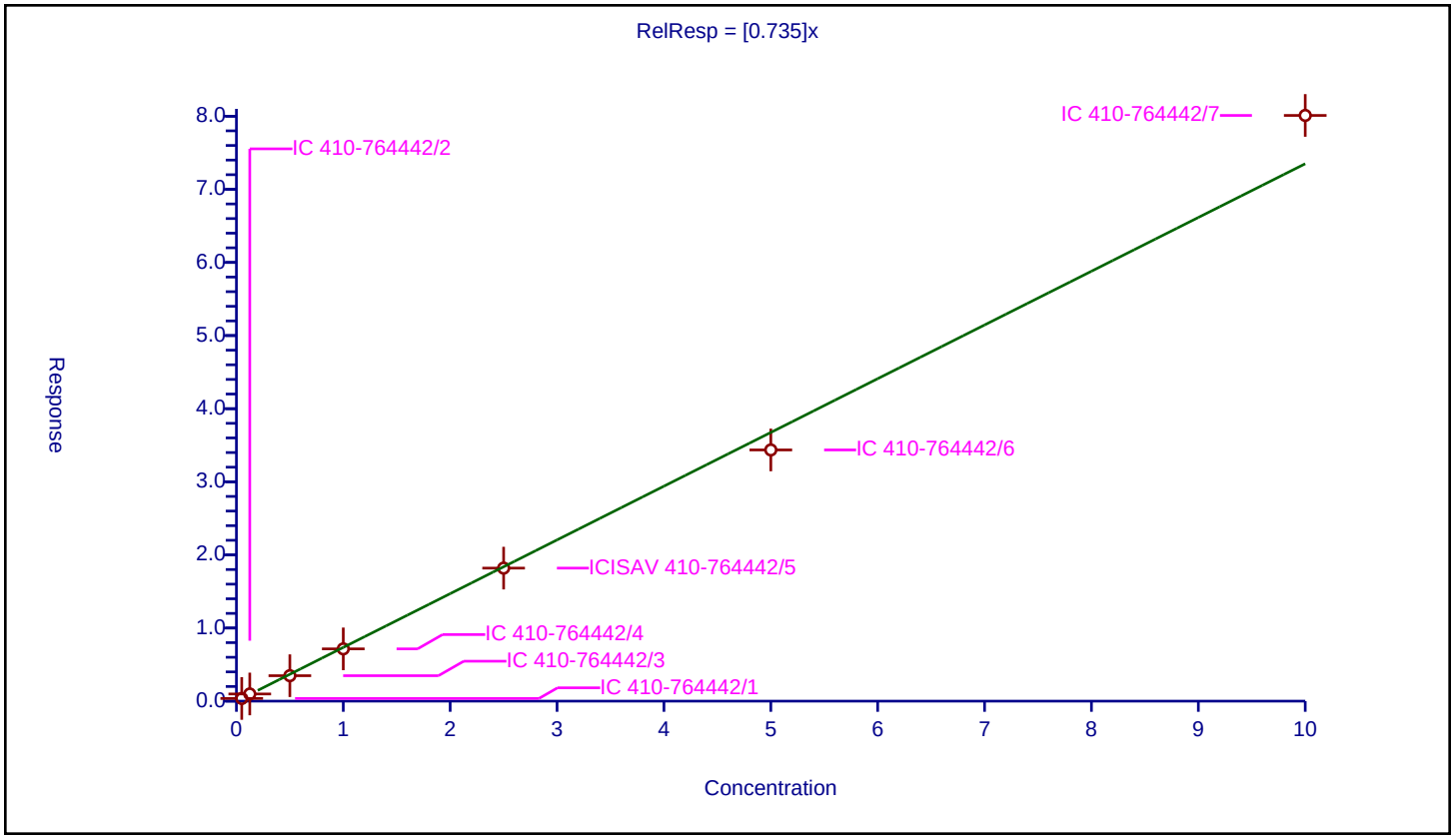
Curve Coefficients

Intercept:	0
Slope:	0.735

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.036648	2.0	2341872.0	0.732969	Y
2	IC 410-764442/2	0.125	0.098177	2.0	2303371.0	0.785416	Y
3	IC 410-764442/3	0.5	0.347916	2.0	2213198.0	0.695831	Y
4	IC 410-764442/4	1.0	0.714737	2.0	2392090.0	0.714737	Y
5	ICISAV 410-764442/5	2.5	1.819304	2.0	2173026.0	0.727721	Y
6	IC 410-764442/6	5.0	3.435621	2.0	2160338.0	0.687124	Y
7	IC 410-764442/7	10.0	8.01023	2.0	1953046.0	0.801023	Y



Calibration / N-ethylperfluorooctanesulfonamidoacetic acid

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

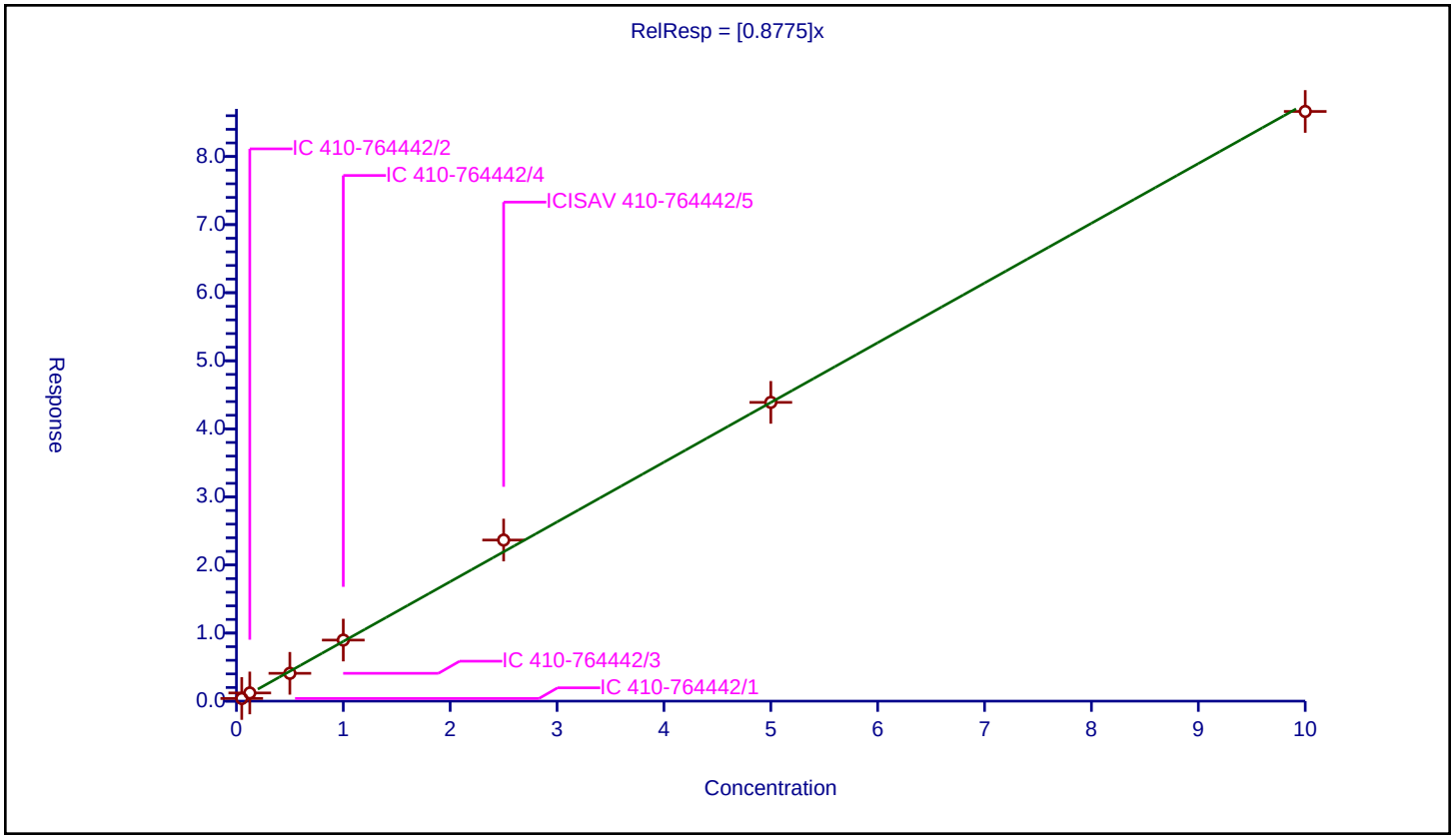
Curve Coefficients

Intercept:	0
Slope:	0.8775

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.038779	5.0	1752247.0	0.775576	Y
2	IC 410-764442/2	0.125	0.12021	5.0	1676820.0	0.961677	Y
3	IC 410-764442/3	0.5	0.408741	5.0	1677455.0	0.817482	Y
4	IC 410-764442/4	1.0	0.89702	5.0	1697755.0	0.89702	Y
5	ICISAV 410-764442/5	2.5	2.366368	5.0	1564224.0	0.946547	Y
6	IC 410-764442/6	5.0	4.388877	5.0	1626768.0	0.877775	Y
7	IC 410-764442/7	10.0	8.662432	5.0	1650215.0	0.866243	Y



Calibration / Perfluorooctanesulfonic acid

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

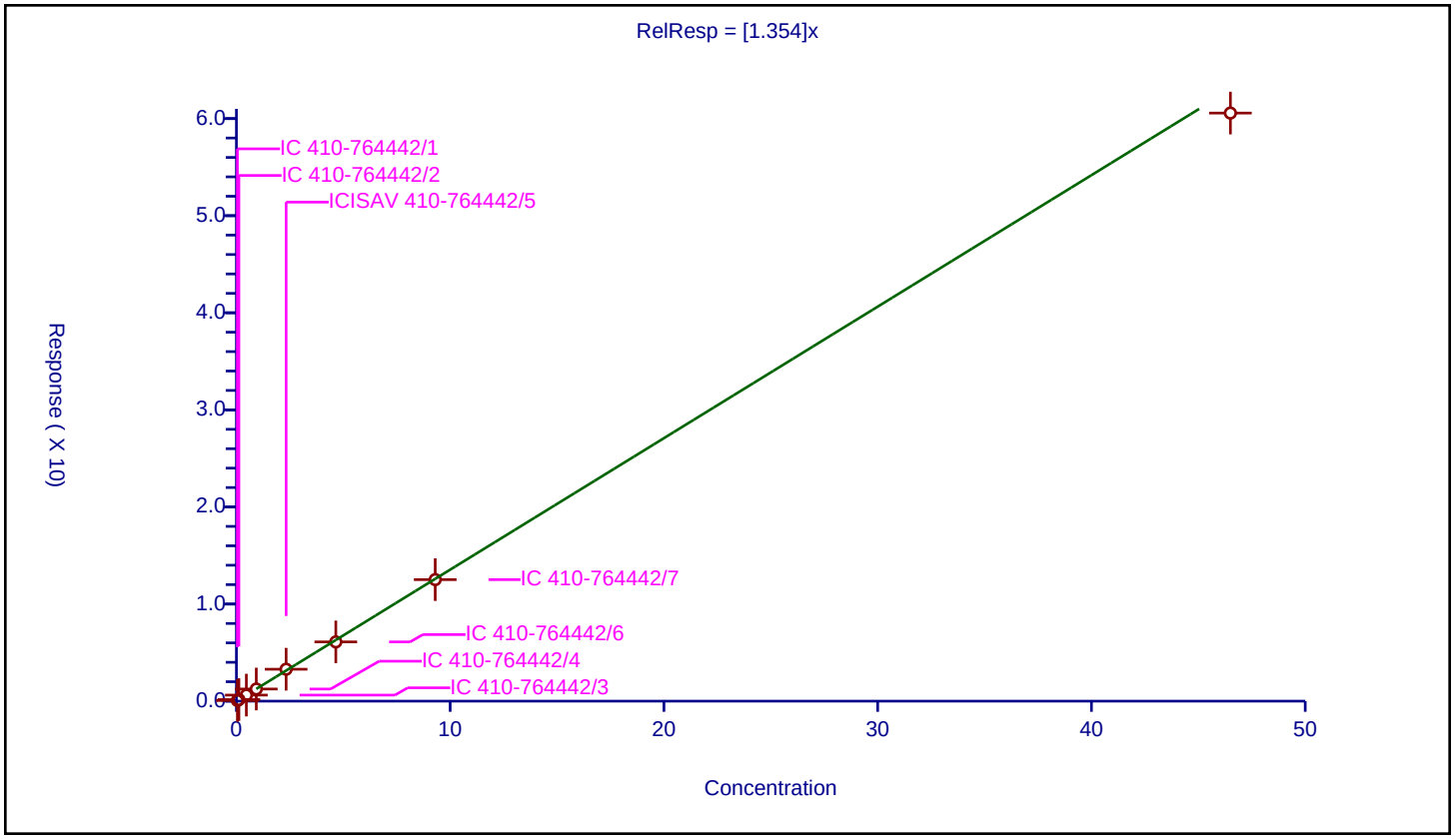
Curve Coefficients

Intercept:	0
Slope:	1.354

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0465	0.065193	1.916	1661672.0	1.401991	Y
2	IC 410-764442/2	0.11625	0.159915	1.916	1646445.0	1.375611	Y
3	IC 410-764442/3	0.465	0.622931	1.916	1565652.0	1.339637	Y
4	IC 410-764442/4	0.93	1.248436	1.916	1628209.0	1.342405	Y
5	ICISAV 410-764442/5	2.325	3.287946	1.916	1599873.0	1.41417	Y
6	IC 410-764442/6	4.65	6.103331	1.916	1607412.0	1.312544	Y
7	IC 410-764442/7	9.3	12.51534	1.916	1469928.0	1.345735	Y
8	IC 410-764442/8	46.5	60.568476	1.916	1149156.0	1.302548	Y



Calibration / Perfluoroundecanoic acid

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

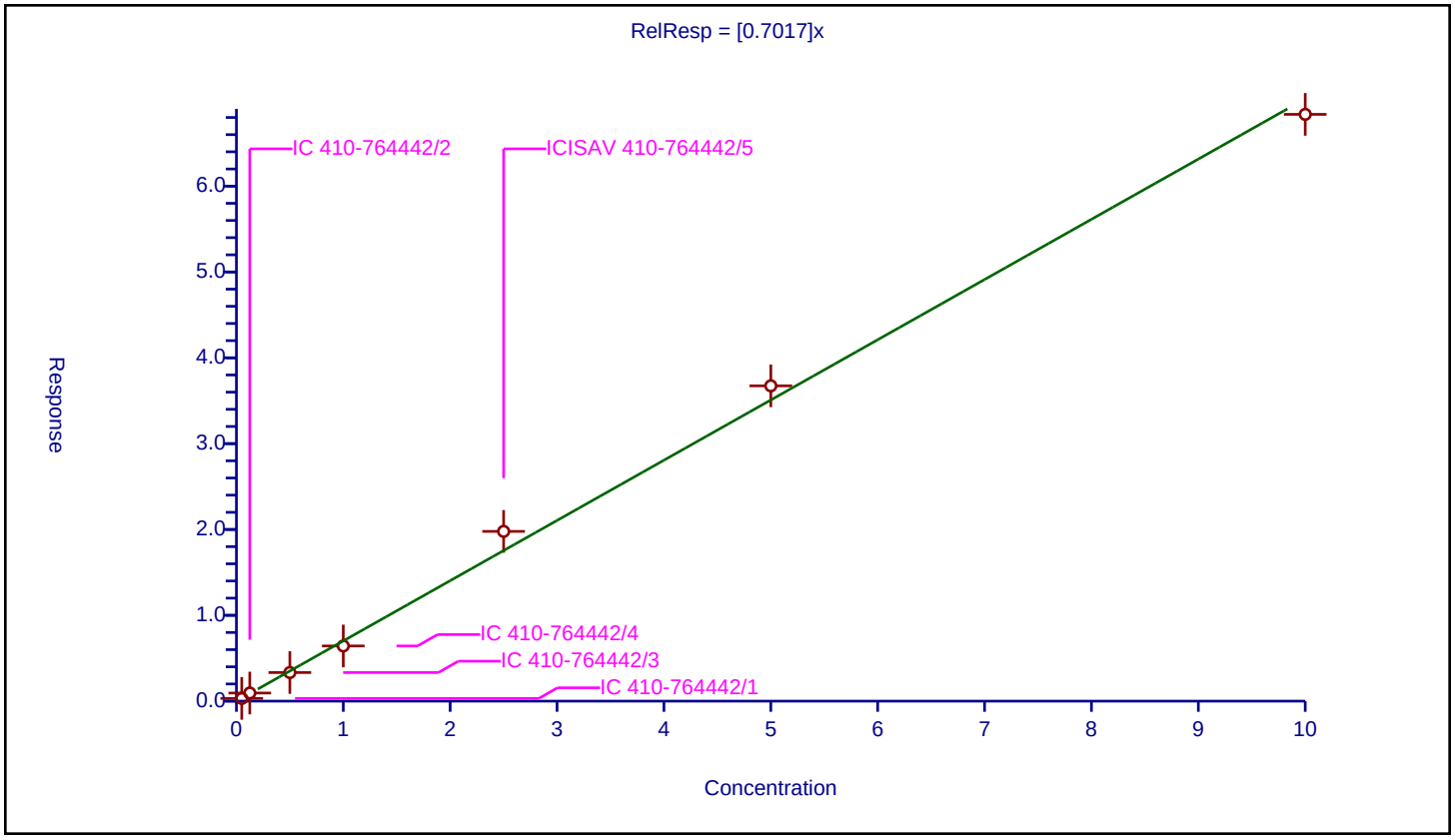
Curve Coefficients

Intercept:	0
Slope:	0.7017

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.031826	2.0	2419195.0	0.636526	Y
2	IC 410-764442/2	0.125	0.094618	2.0	2172557.0	0.756948	Y
3	IC 410-764442/3	0.5	0.333195	2.0	2310642.0	0.66639	Y
4	IC 410-764442/4	1.0	0.642648	2.0	2394229.0	0.642648	Y
5	ICISAV 410-764442/5	2.5	1.977686	2.0	2025991.0	0.791074	Y
6	IC 410-764442/6	5.0	3.673419	2.0	2018855.0	0.734684	Y
7	IC 410-764442/7	10.0	6.836288	2.0	1936102.0	0.683629	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

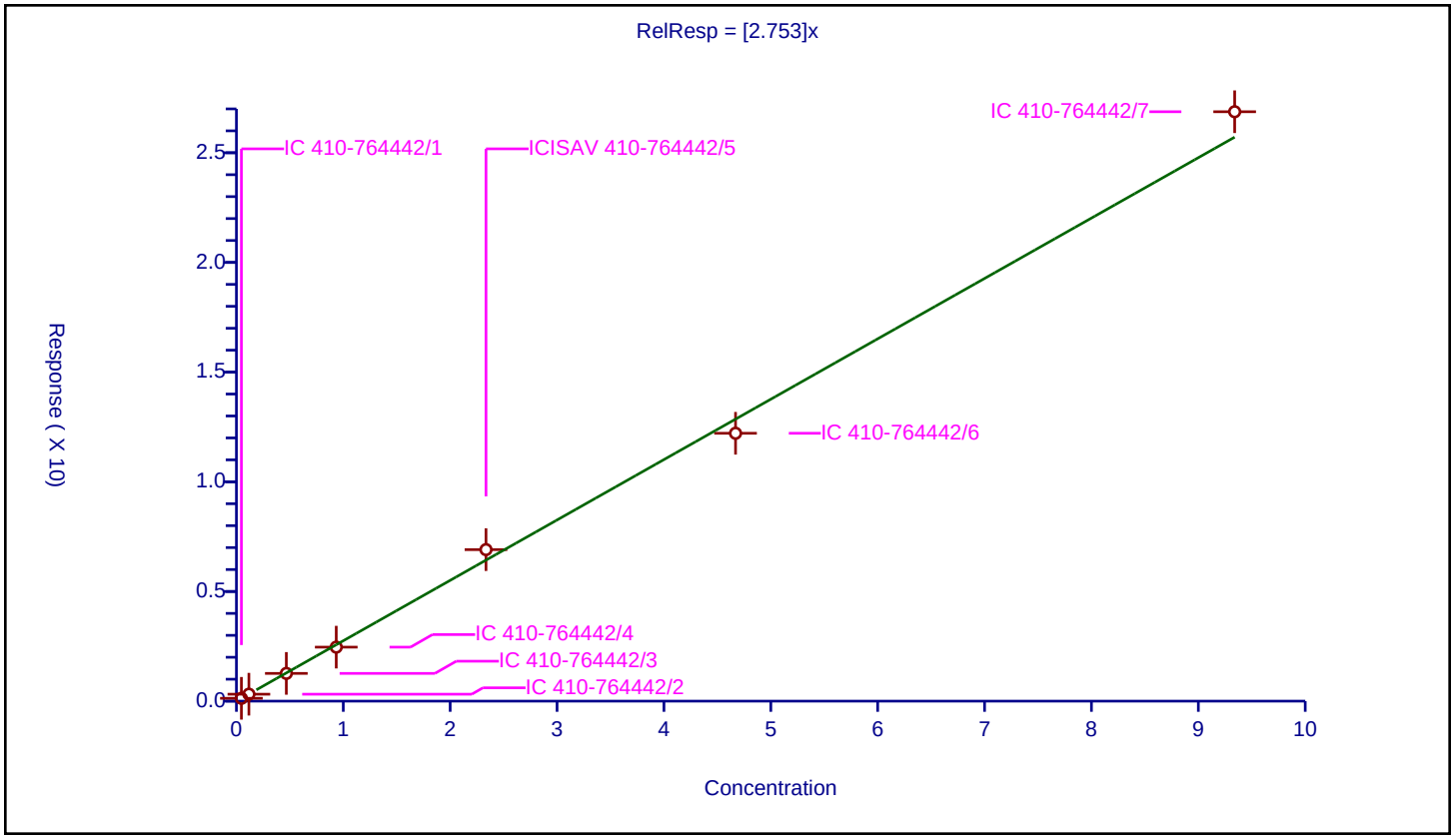
Curve Coefficients

Intercept:	0
Slope:	2.753

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0467	0.129108	1.916	1661672.0	2.764617	Y
2	IC 410-764442/2	0.11675	0.316659	1.916	1646445.0	2.712279	Y
3	IC 410-764442/3	0.467	1.264054	1.916	1565652.0	2.706754	Y
4	IC 410-764442/4	0.934	2.46237	1.916	1628209.0	2.63637	Y
5	ICISAV 410-764442/5	2.335	6.906647	1.916	1599873.0	2.957879	Y
6	IC 410-764442/6	4.67	12.211872	1.916	1607412.0	2.614962	Y
7	IC 410-764442/7	9.34	26.870651	1.916	1469928.0	2.876943	Y



Calibration / Perfluorononanesulfonic acid

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

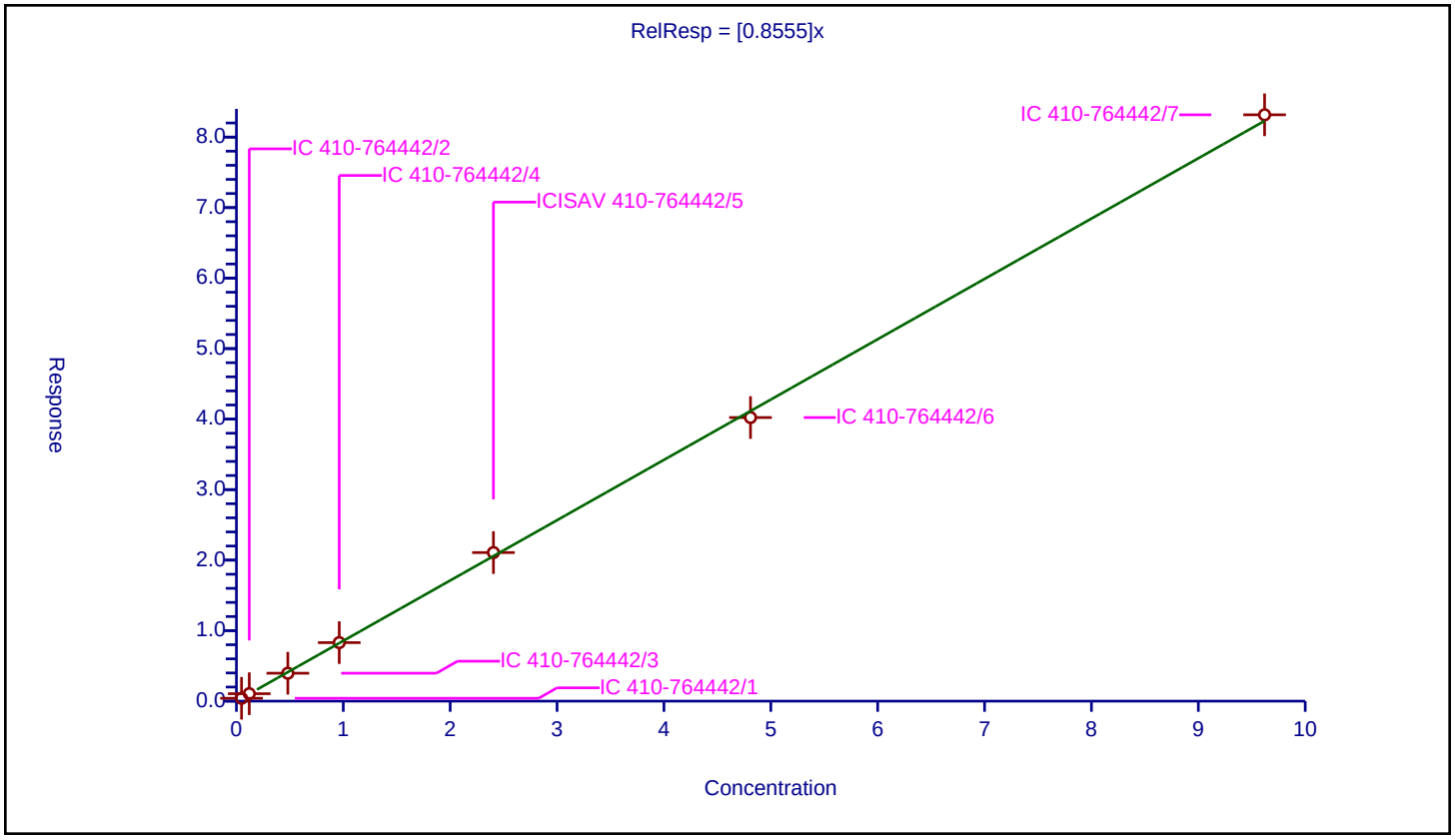
Curve Coefficients

Intercept:	0
Slope:	0.8555

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0481	0.04077	1.916	1661672.0	0.847604	Y
2	IC 410-764442/2	0.12025	0.105576	1.916	1646445.0	0.877972	Y
3	IC 410-764442/3	0.481	0.39589	1.916	1565652.0	0.823056	Y
4	IC 410-764442/4	0.962	0.830085	1.916	1628209.0	0.862874	Y
5	ICISAV 410-764442/5	2.405	2.107158	1.916	1599873.0	0.876157	Y
6	IC 410-764442/6	4.81	4.022649	1.916	1607412.0	0.836309	Y
7	IC 410-764442/7	9.62	8.316021	1.916	1469928.0	0.864451	Y



Calibration / Perfluorododecanoic acid

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

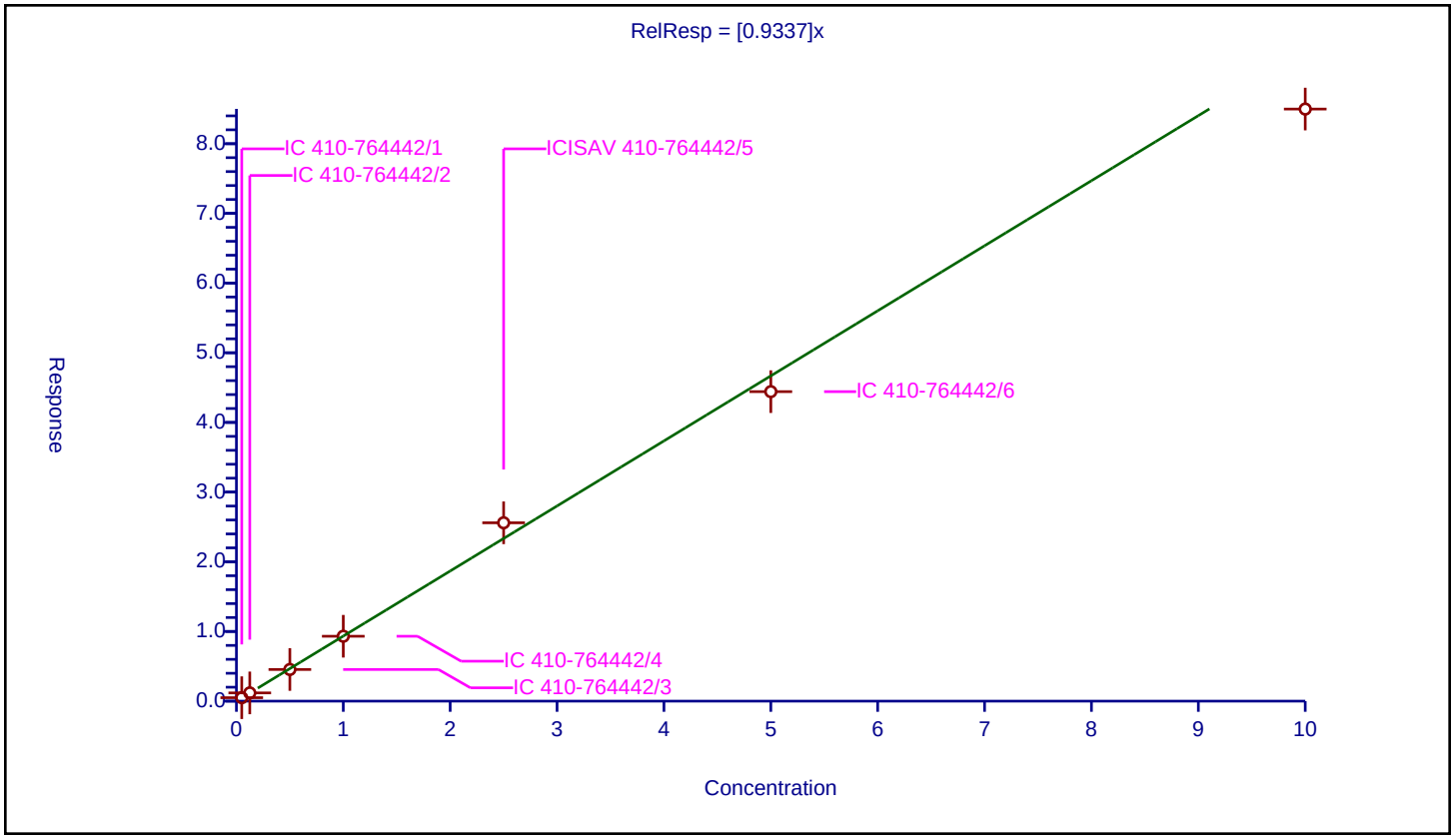
Curve Coefficients

Intercept:	0
Slope:	0.9337

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.049375	2.0	2171847.0	0.987491	Y
2	IC 410-764442/2	0.125	0.118254	2.0	2139215.0	0.946029	Y
3	IC 410-764442/3	0.5	0.454325	2.0	2202802.0	0.90865	Y
4	IC 410-764442/4	1.0	0.931473	2.0	2260704.0	0.931473	Y
5	ICISAV 410-764442/5	2.5	2.559832	2.0	2002866.0	1.023933	Y
6	IC 410-764442/6	5.0	4.441936	2.0	2038532.0	0.888387	Y
7	IC 410-764442/7	10.0	8.497517	2.0	2011267.0	0.849752	Y



Calibration / Perfluorooctanesulfonamide

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

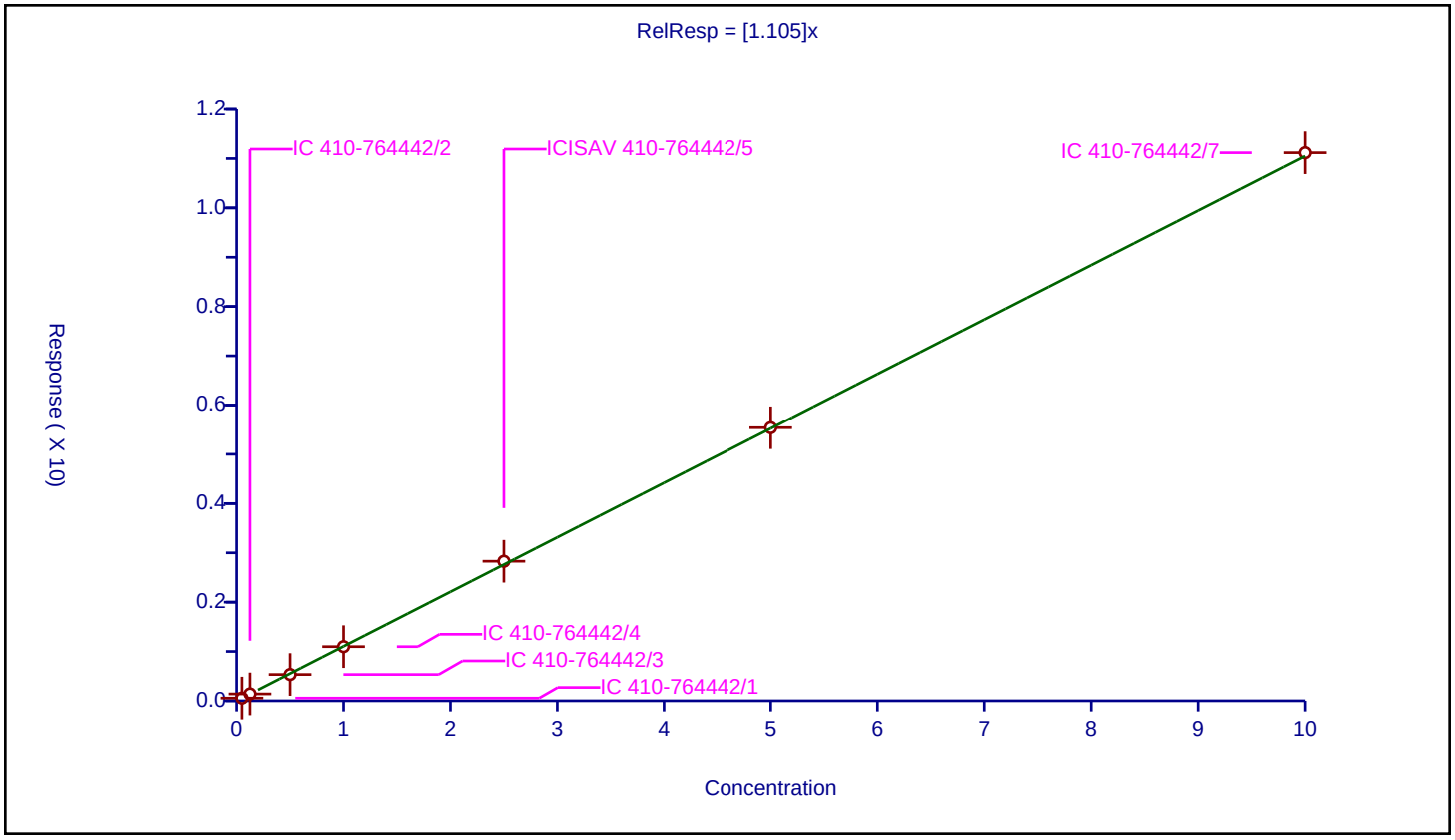
Curve Coefficients

Intercept:	0
Slope:	1.105

Error Coefficients

Relative Standard Deviation:	1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.055062	2.0	1784995.0	1.101247	Y
2	IC 410-764442/2	0.125	0.139754	2.0	1727560.0	1.118035	Y
3	IC 410-764442/3	0.5	0.533108	2.0	1690468.0	1.066216	Y
4	IC 410-764442/4	1.0	1.0979	2.0	1737945.0	1.0979	Y
5	ICISAV 410-764442/5	2.5	2.829764	2.0	1662121.0	1.131906	Y
6	IC 410-764442/6	5.0	5.539458	2.0	1736098.0	1.107892	Y
7	IC 410-764442/7	10.0	11.117442	2.0	1671709.0	1.111744	Y



Calibration / Perfluorodecanesulfonic acid

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

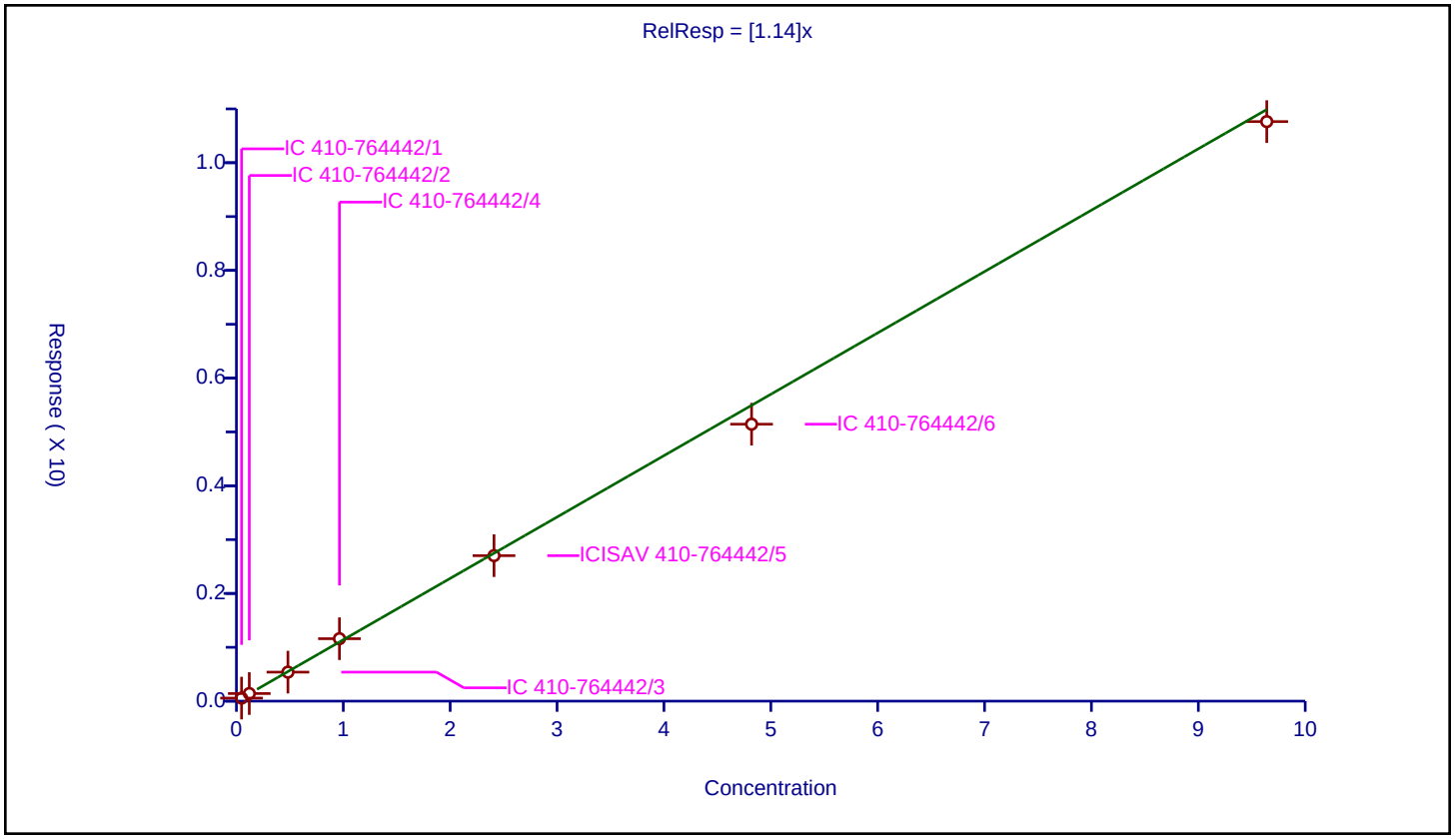
Curve Coefficients

Intercept:	0
Slope:	1.14

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0482	0.056831	1.916	1661672.0	1.179059	Y
2	IC 410-764442/2	0.1205	0.141407	1.916	1646445.0	1.173502	Y
3	IC 410-764442/3	0.482	0.538869	1.916	1565652.0	1.117986	Y
4	IC 410-764442/4	0.964	1.159863	1.916	1628209.0	1.203178	Y
5	ICISAV 410-764442/5	2.41	2.702069	1.916	1599873.0	1.12119	Y
6	IC 410-764442/6	4.82	5.143991	1.916	1607412.0	1.067218	Y
7	IC 410-764442/7	9.64	10.764267	1.916	1469928.0	1.116625	Y



Calibration / Perfluorotridecanoic acid

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

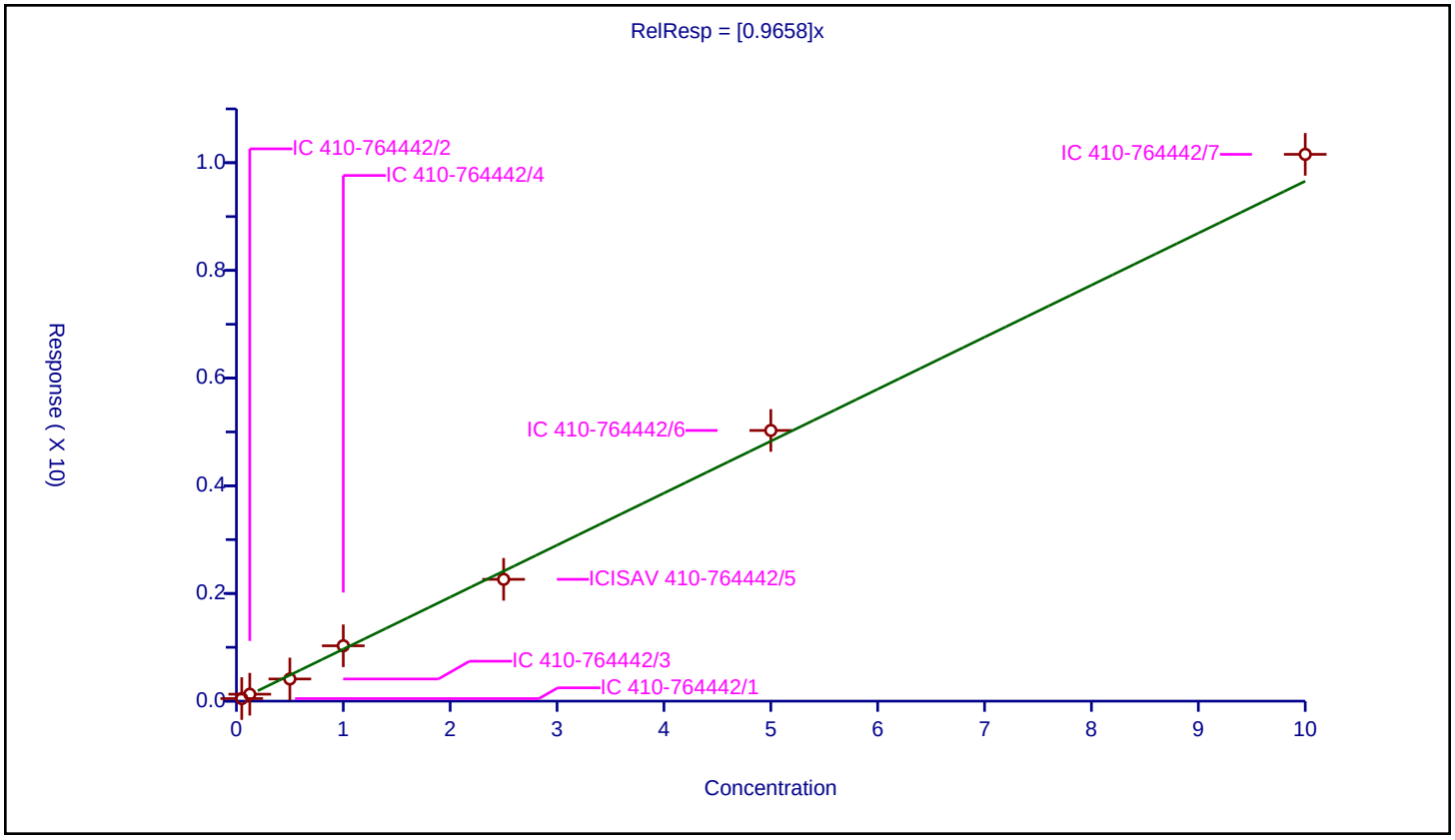
Curve Coefficients

Intercept:	0
Slope:	0.9658

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.047519	2.0	1983357.0	0.950389	Y
2	IC 410-764442/2	0.125	0.129027	2.0	2063104.0	1.032216	Y
3	IC 410-764442/3	0.5	0.411801	2.0	2113678.0	0.823601	Y
4	IC 410-764442/4	1.0	1.028009	2.0	1932305.0	1.028009	Y
5	ICISAV 410-764442/5	2.5	2.262565	2.0	1884769.0	0.905026	Y
6	IC 410-764442/6	5.0	5.027577	2.0	1827510.0	1.005515	Y
7	IC 410-764442/7	10.0	10.155821	2.0	1664135.0	1.015582	Y



Calibration / 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

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

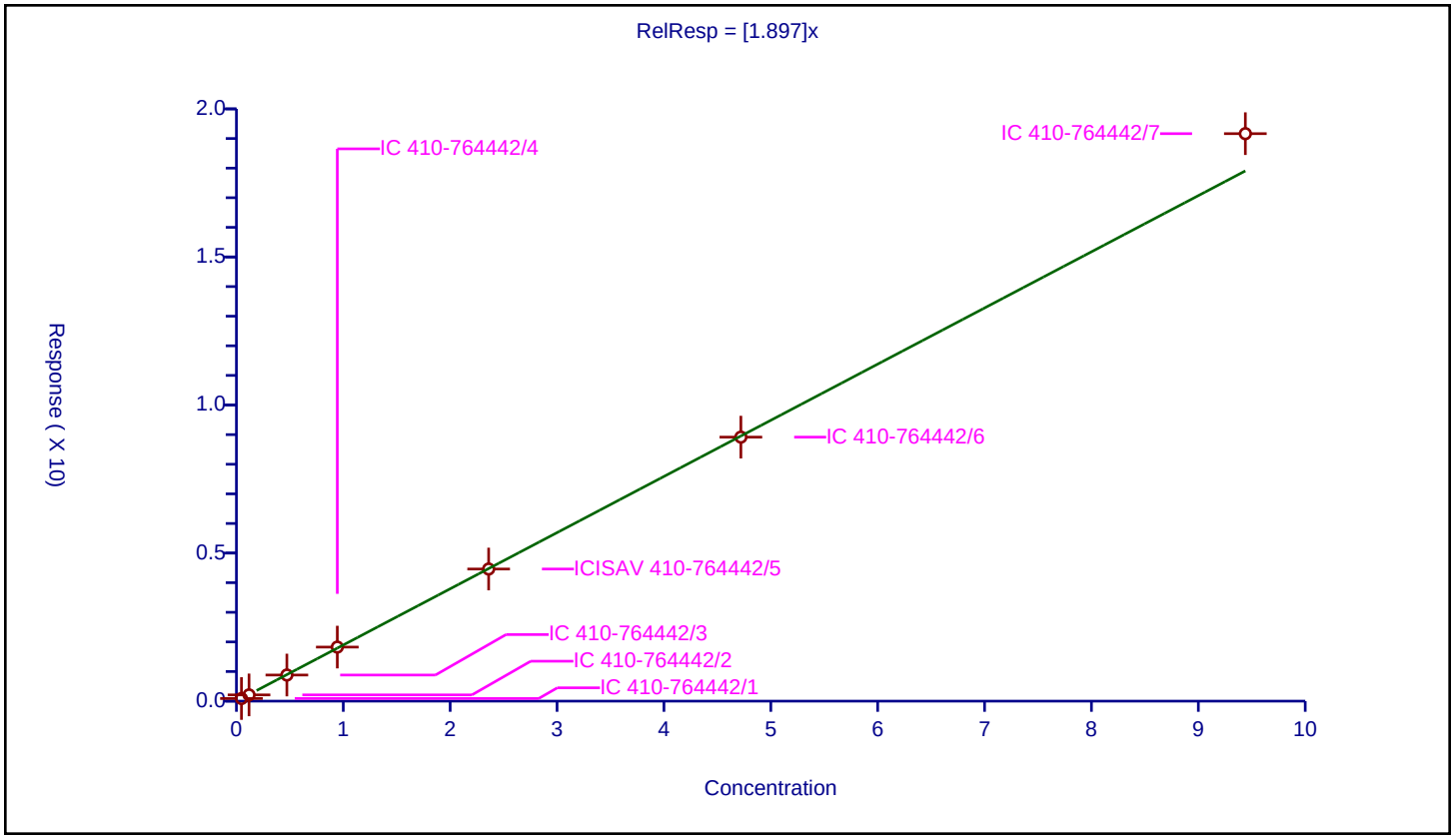
Curve Coefficients

Intercept:	0
Slope:	1.897

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0472	0.088711	1.916	1661672.0	1.87948	Y
2	IC 410-764442/2	0.118	0.210909	1.916	1646445.0	1.787365	Y
3	IC 410-764442/3	0.472	0.881607	1.916	1565652.0	1.867812	Y
4	IC 410-764442/4	0.944	1.825069	1.916	1628209.0	1.933336	Y
5	ICISAV 410-764442/5	2.36	4.461984	1.916	1599873.0	1.890671	Y
6	IC 410-764442/6	4.72	8.915638	1.916	1607412.0	1.888906	Y
7	IC 410-764442/7	9.44	19.163184	1.916	1469928.0	2.029998	Y



Calibration / Perfluorotetradecanoic acid

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

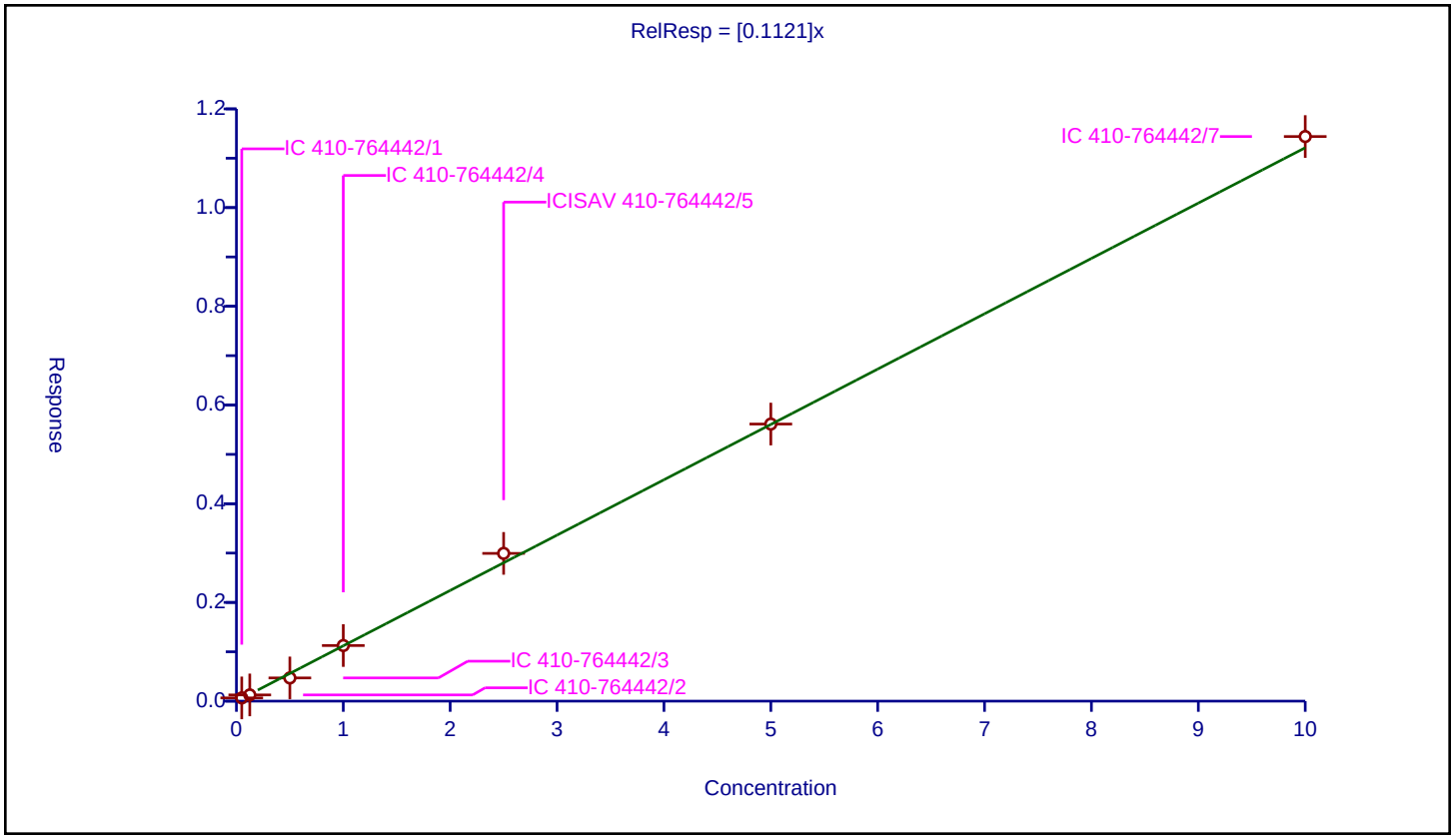
Curve Coefficients

Intercept:	0
Slope:	0.1121

Error Coefficients

Relative Standard Deviation:	10.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.006539	2.0	1983357.0	0.130788	Y
2	IC 410-764442/2	0.125	0.012627	2.0	2063104.0	0.101013	Y
3	IC 410-764442/3	0.5	0.047011	2.0	2113678.0	0.094022	Y
4	IC 410-764442/4	1.0	0.112627	2.0	1932305.0	0.112627	Y
5	ICISAV 410-764442/5	2.5	0.299389	2.0	1884769.0	0.119756	Y
6	IC 410-764442/6	5.0	0.56144	2.0	1827510.0	0.112288	Y
7	IC 410-764442/7	10.0	1.143967	2.0	1664135.0	0.114397	Y



Calibration / Perfluorododecanesulfonic acid (PFDoS)

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

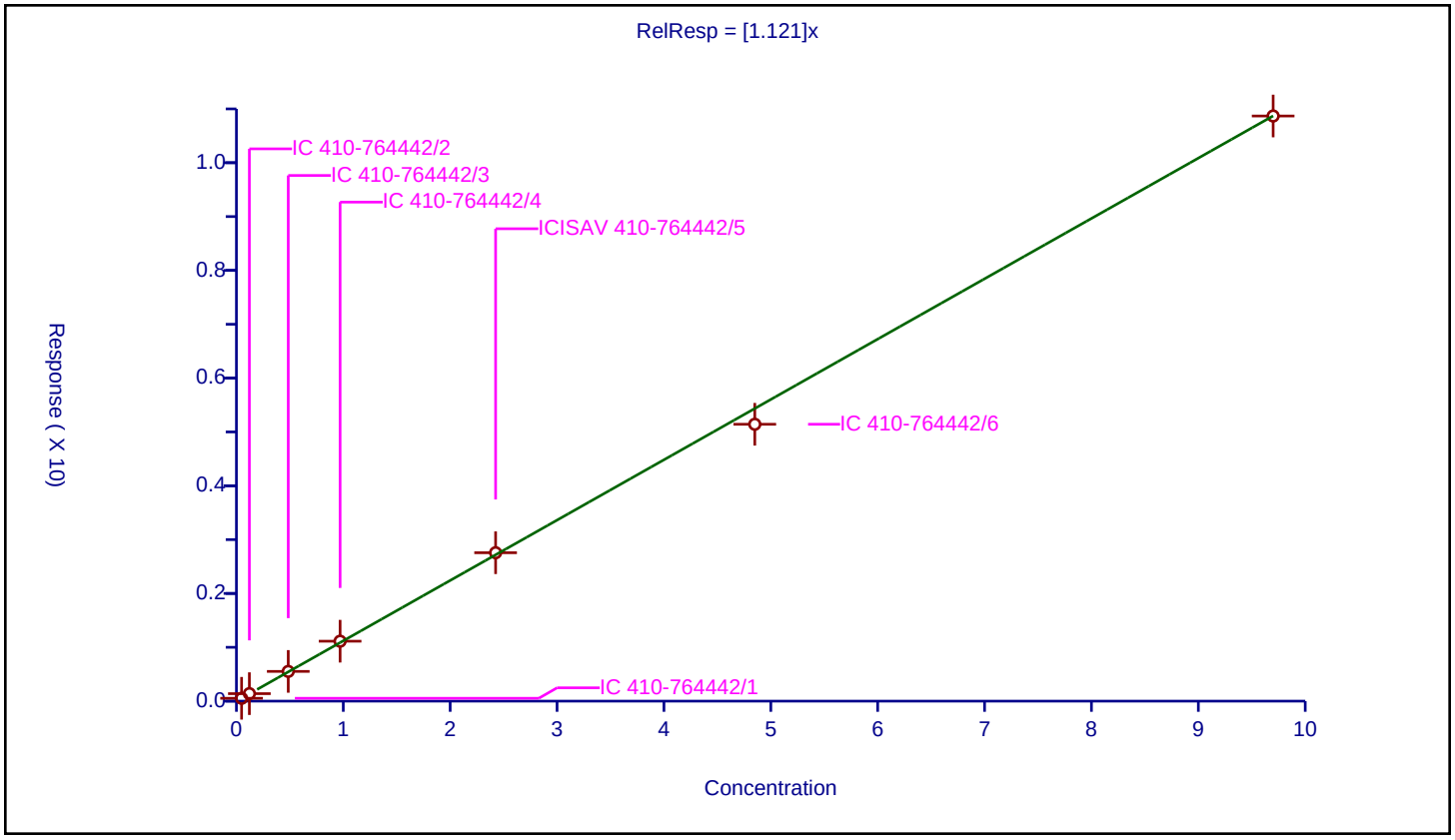
Curve Coefficients

Intercept:	0
Slope:	1.121

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.0485	0.052936	1.916	1661672.0	1.091456	Y
2	IC 410-764442/2	0.12125	0.139227	1.916	1646445.0	1.148267	Y
3	IC 410-764442/3	0.485	0.552505	1.916	1565652.0	1.139185	Y
4	IC 410-764442/4	0.97	1.113466	1.916	1628209.0	1.147903	Y
5	ICISAV 410-764442/5	2.425	2.756781	1.916	1599873.0	1.136817	Y
6	IC 410-764442/6	4.85	5.142549	1.916	1607412.0	1.060319	Y
7	IC 410-764442/7	9.7	10.867929	1.916	1469928.0	1.120405	Y



Calibration / 2-(N-methylperfluoro-1-octanesulfonamido) ethanol

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

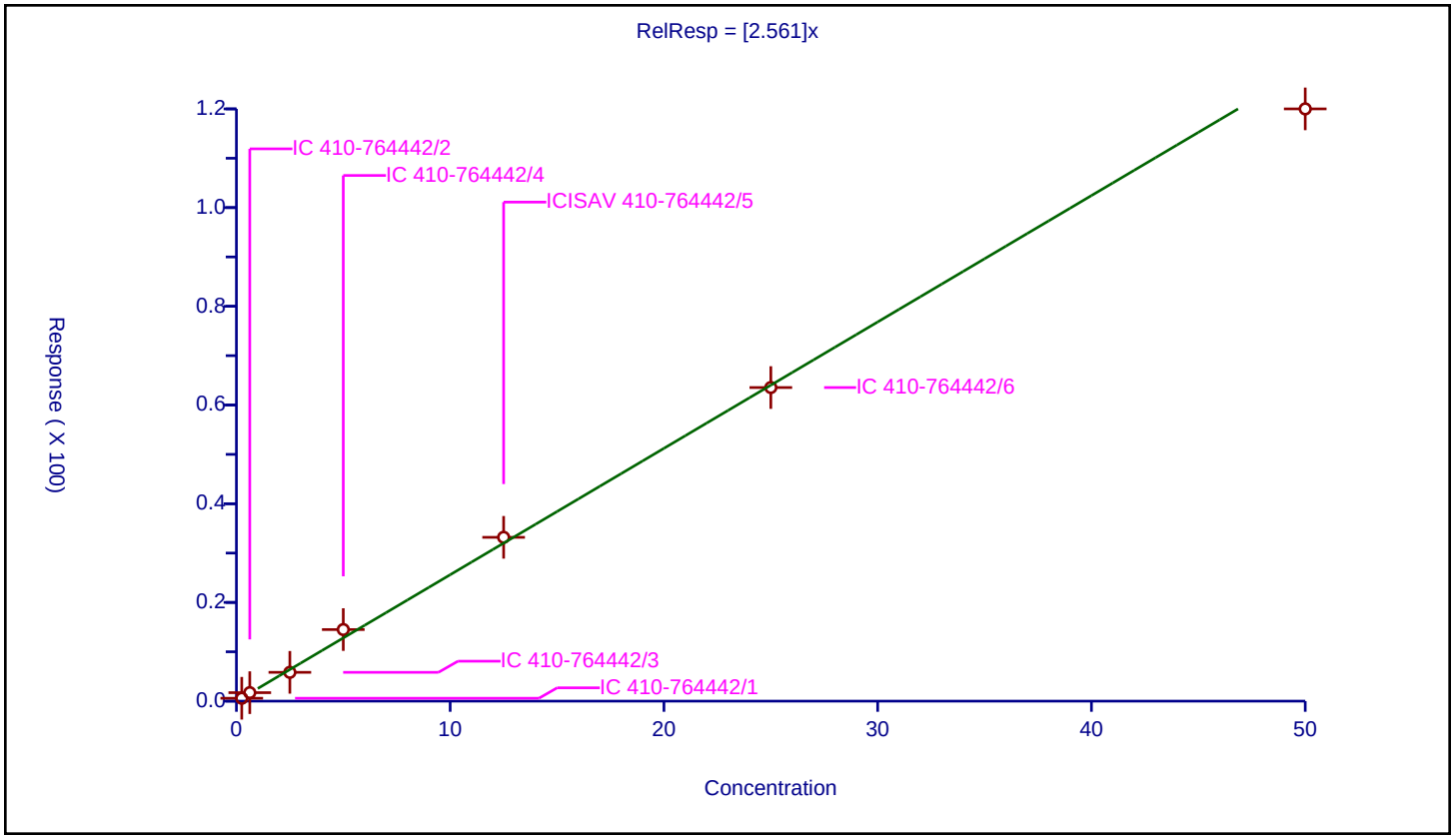
Curve Coefficients

Intercept:	0
Slope:	2.561

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.25	0.586706	5.0	360811.0	2.346824	Y
2	IC 410-764442/2	0.625	1.717681	5.0	337161.0	2.748289	Y
3	IC 410-764442/3	2.5	5.834624	5.0	373773.0	2.33385	Y
4	IC 410-764442/4	5.0	14.503581	5.0	305810.0	2.900716	Y
5	ICISAV 410-764442/5	12.5	33.190567	5.0	337744.0	2.655245	Y
6	IC 410-764442/6	25.0	63.539284	5.0	341093.0	2.541571	Y
7	IC 410-764442/7	50.0	119.999533	5.0	353168.0	2.399991	Y



Calibration / NMeFOSA

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

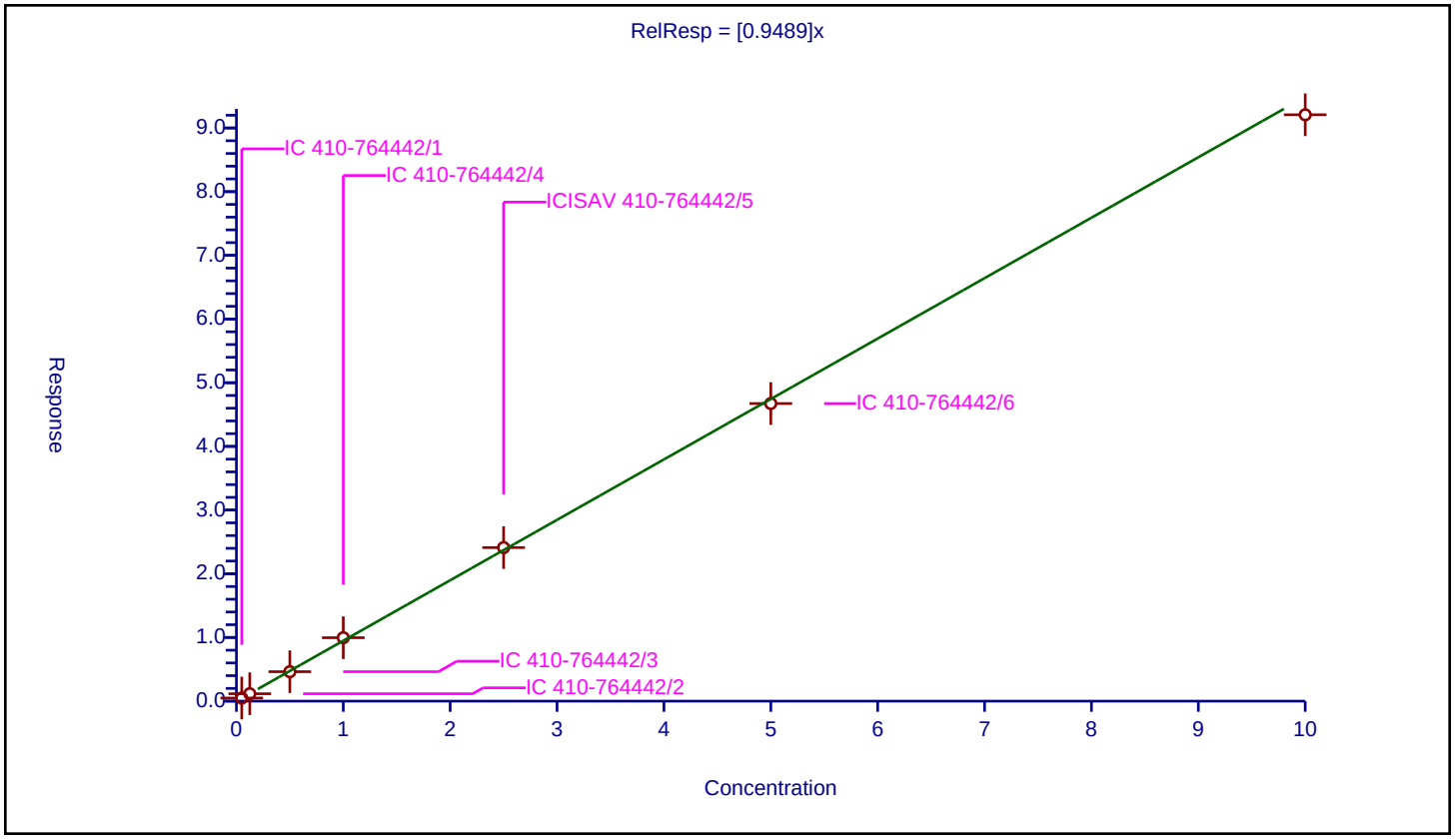
Curve Coefficients

Intercept:	0
Slope:	0.9489

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.048636	2.0	549842.0	0.972716	Y
2	IC 410-764442/2	0.125	0.116087	2.0	540338.0	0.928693	Y
3	IC 410-764442/3	0.5	0.462475	2.0	516063.0	0.924949	Y
4	IC 410-764442/4	1.0	0.995844	2.0	535307.0	0.995844	Y
5	ICISAV 410-764442/5	2.5	2.411302	2.0	554921.0	0.964521	Y
6	IC 410-764442/6	5.0	4.673223	2.0	551897.0	0.934645	Y
7	IC 410-764442/7	10.0	9.207506	2.0	559689.0	0.920751	Y



Calibration / 2-(N-ethylperfluoro-1-octanesulfonamido) ethanol

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

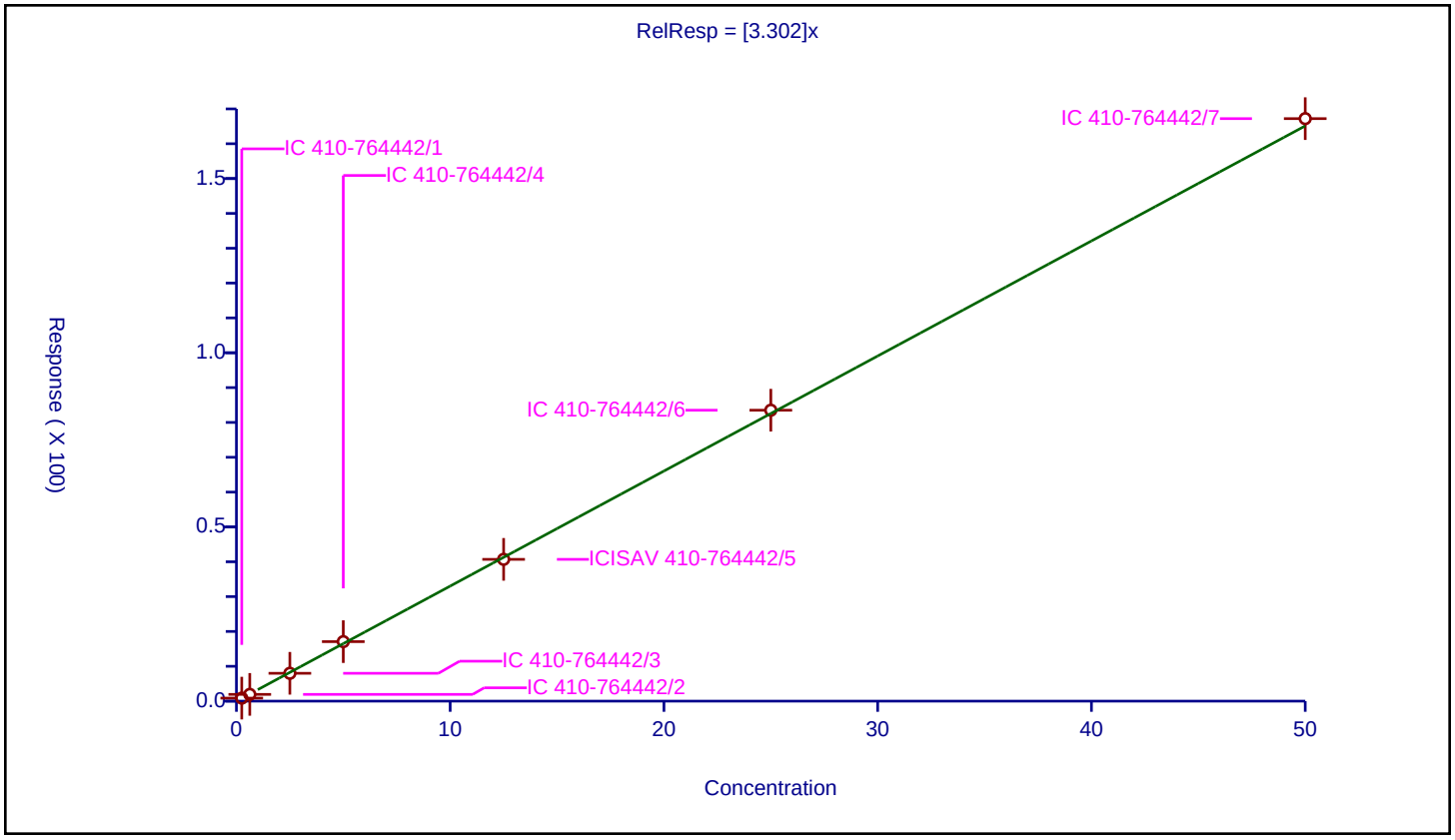
Curve Coefficients

Intercept:	0
Slope:	3.302

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.25	0.866198	5.0	358082.0	3.464793	Y
2	IC 410-764442/2	0.625	1.936657	5.0	399805.0	3.098651	Y
3	IC 410-764442/3	2.5	7.991332	5.0	372416.0	3.196533	Y
4	IC 410-764442/4	5.0	17.080888	5.0	354899.0	3.416178	Y
5	ICISAV 410-764442/5	12.5	40.699633	5.0	381993.0	3.255971	Y
6	IC 410-764442/6	25.0	83.507593	5.0	358813.0	3.340304	Y
7	IC 410-764442/7	50.0	167.200445	5.0	373195.0	3.344009	Y



Calibration / N-ethylperfluoro-1-octanesulfonamide

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

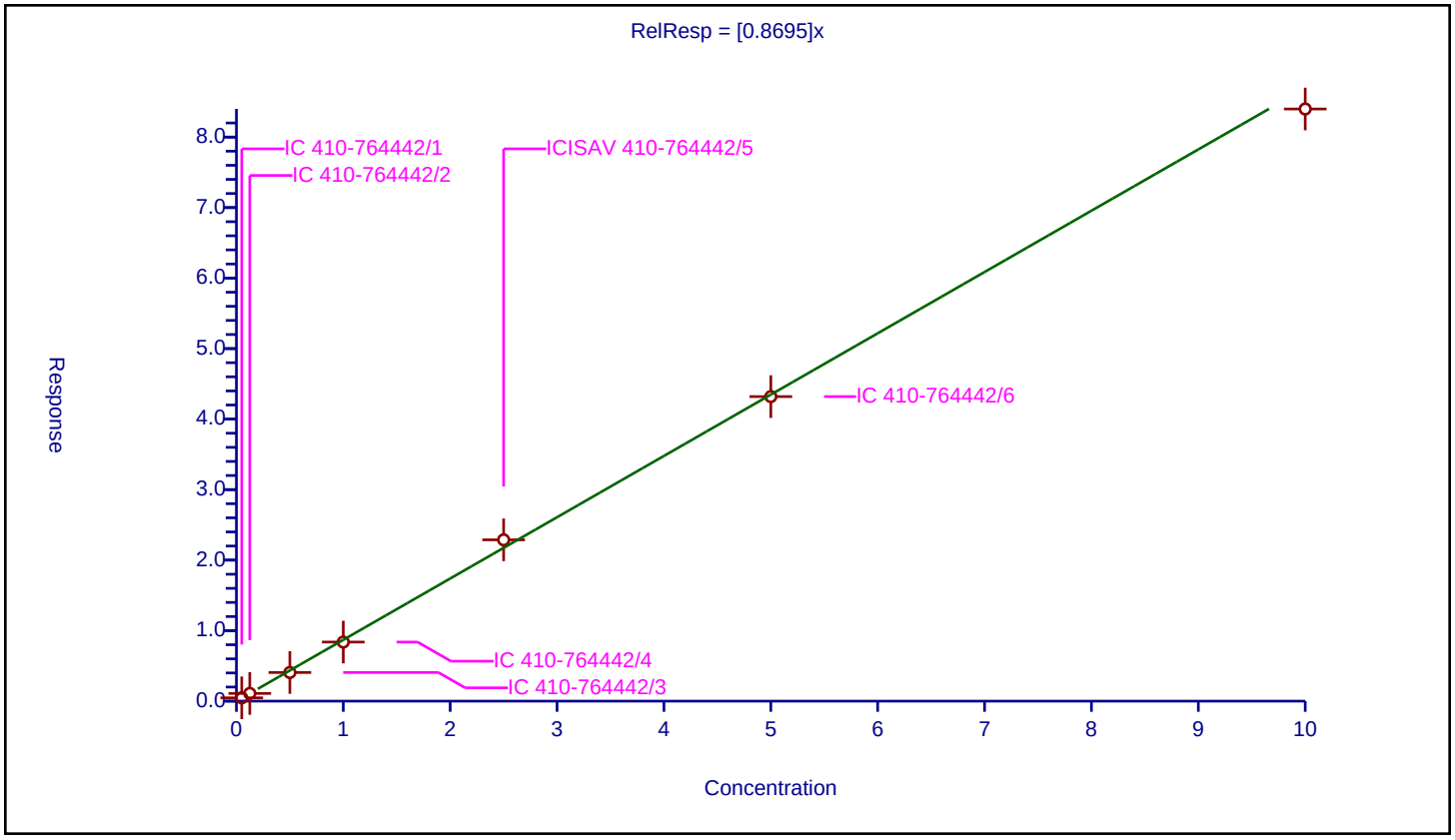
Curve Coefficients

Intercept:	0
Slope:	0.8695

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.047138	2.0	676189.0	0.942754	Y
2	IC 410-764442/2	0.125	0.109255	2.0	705817.0	0.87404	Y
3	IC 410-764442/3	0.5	0.406281	2.0	683694.0	0.812562	Y
4	IC 410-764442/4	1.0	0.838113	2.0	717507.0	0.838113	Y
5	ICISAV 410-764442/5	2.5	2.287698	2.0	680436.0	0.915079	Y
6	IC 410-764442/6	5.0	4.319387	2.0	710787.0	0.863877	Y
7	IC 410-764442/7	10.0	8.398633	2.0	719454.0	0.839863	Y



Calibration / Perfluorooctadecanoic acid

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

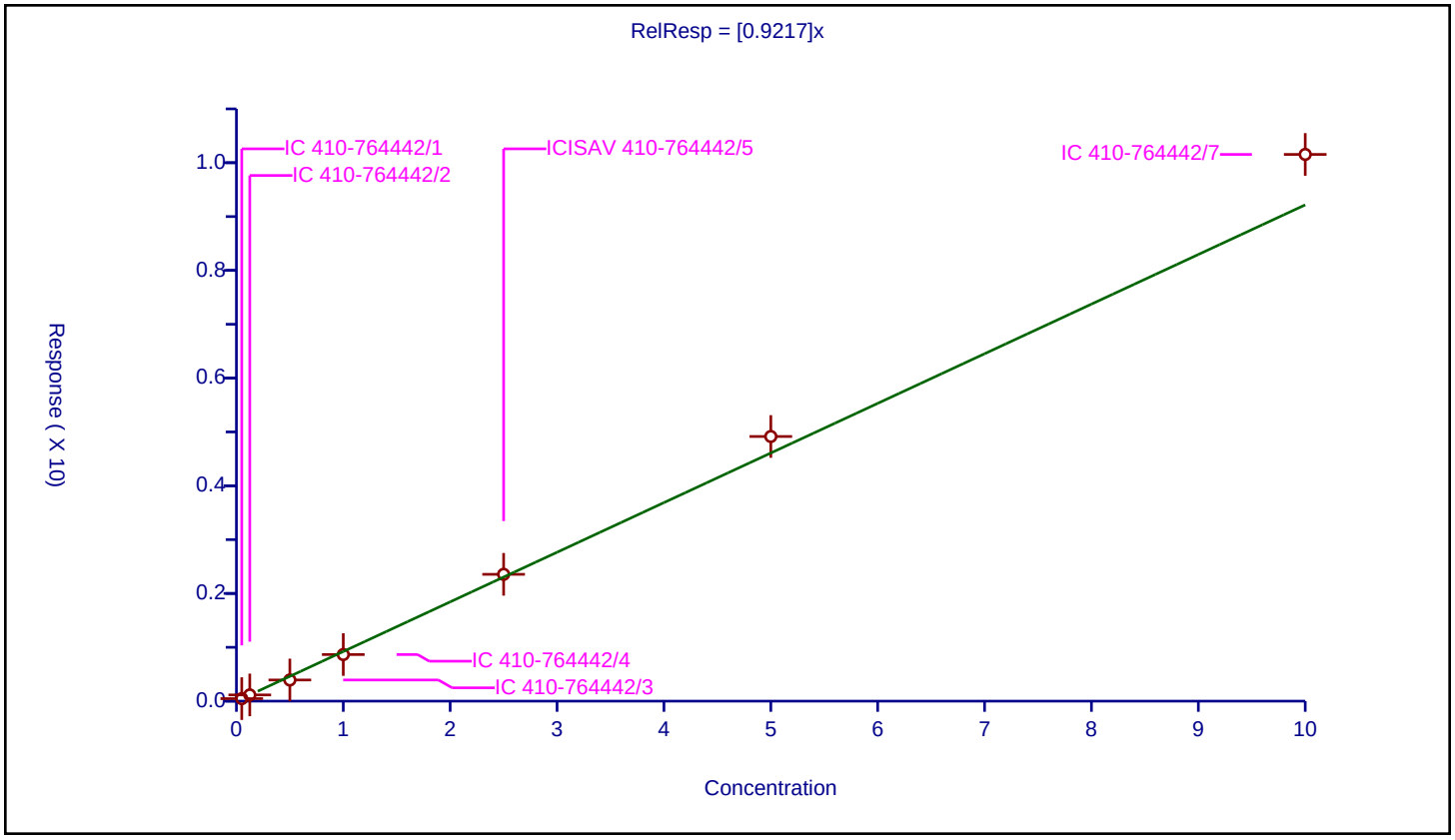
Curve Coefficients

Intercept:	0
Slope:	0.9217

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-764442/1	0.05	0.046853	2.0	1983357.0	0.937058	Y
2	IC 410-764442/2	0.125	0.11541	2.0	2063104.0	0.923277	Y
3	IC 410-764442/3	0.5	0.39293	2.0	2113678.0	0.78586	Y
4	IC 410-764442/4	1.0	0.86534	2.0	1932305.0	0.86534	Y
5	ICISAV 410-764442/5	2.5	2.355253	2.0	1884769.0	0.942101	Y
6	IC 410-764442/6	5.0	4.915242	2.0	1827510.0	0.983048	Y
7	IC 410-764442/7	10.0	10.154079	2.0	1664135.0	1.015408	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: ICV 410-763424/10 Calibration Date: 02/02/2026 17:07

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb02CAL-62.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9286	0.8074		2.17	2.50	-13.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9389	0.9195		4.90	5.00	-2.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.070	1.092		2.55	2.50	2.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0516	0.0471		5.71	6.25	-9.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.139	1.101		2.42	2.50	-3.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	1.289	1.196		2.32	2.50	-7.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.734	1.643		4.44	4.69	-5.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.3928	0.4070		2.59	2.50	4.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9603	0.9929		1.29	1.25	3.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1225	0.1196		30.5	31.3	-2.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9056	0.8716		1.07	1.11	-4.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	0.7960	0.6516		2.05	2.50	-18.0	30.0
Hexafluoropropylene oxide dimer acid (HFPO DA)	AveID	0.9588	0.9582		5.00	5.00	0.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.095	2.256		2.40	2.23	8.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9803	0.9936		1.27	1.25	1.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.269	3.318		4.80	4.73	1.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.314	1.425		1.27	1.18	8.0	30.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	AveID	2.083	2.135		4.88	4.76	3.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.154	2.033		4.62	4.90	-6.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.7584	0.7602		1.26	1.25	0.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.1114	0.1129		31.7	31.3	1.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.281	1.267		1.13	1.14	-1.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.8768	0.8199		1.17	1.25	-6.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.642	1.578		4.61	4.80	-4.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.3327	0.2972		2.06	2.31	-11.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.207	1.243		1.23	1.19	3.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.370	1.234		2.25	2.50	-10.0	30.0
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	1.118	1.075		1.20	1.25	-4.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: ICV 410-763424/10 Calibration Date: 02/02/2026 17:07

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb02CAL-62.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.8375	0.8474		1.27	1.25	1.0	30.0
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8212	0.8270		1.26	1.25	1.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.442	1.485		1.19	1.16	3.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7396	0.7280		1.23	1.25	-2.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.850	2.873		4.70	4.67	1.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.150	1.144		1.19	1.20	-1.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.8922	0.9253		1.30	1.25	4.0	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9173	0.9209		1.26	1.26	0.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.170	1.205		1.24	1.21	3.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	1.214	1.218		1.25	1.25	0.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	2.203	2.246		4.81	4.72	2.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1745	0.1677		1.20	1.25	-4.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.6932	0.7400		1.29	1.21	7.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	2.687	2.613		12.2	12.5	-3.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	1.023	1.025		1.25	1.25	0.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	3.951	3.706		11.8	12.5	-6.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9421	0.9392		1.25	1.25	0.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9489	0.7719		2.03	2.50	-19.0	30.0
13C3-PFPrA	Ave	0.7248	0.7182		1.98	2.00	-1.0	30.0
13C4 PFBA	Ave	1.208	1.188		1.97	2.00	-2.0	30.0
13C5 PFPeA	Ave	0.8198	0.8170		1.99	2.00	0.0	30.0
M2-4:2 FTS	Ave	0.2529	0.2308		4.28	4.69	-9.0	30.0
13C5 PFHxA	Ave	1.156	1.086		1.88	2.00	-6.0	30.0
13C3 PFBS	Ave	1.273	1.315		1.93	1.86	3.0	30.0
13C3 HFPO-DA	Ave	0.7911	0.7647		1.93	2.00	-3.0	30.0
13C4 PFHpA	Ave	1.133	1.125		1.99	2.00	-1.0	30.0
M2-6:2 FTS	Ave	0.1501	0.1506		4.78	4.76	0.0	30.0
13C8 PFOA	Ave	1.000	0.9523		1.91	2.00	-5.0	30.0
13C3 PFHxS	Ave	1.001	0.997		1.89	1.90	0.0	30.0
13C9 PFNA	Ave	1.004	0.9883		1.97	2.00	-2.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: ICV 410-763424/10 Calibration Date: 02/02/2026 17:07

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb02CAL-62.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
M2-8:2 FTS	Ave	0.1462	0.1474		4.84	4.80	1.0	30.0
d3-NMeFOSAA	Ave	0.3721	0.3885		5.22	5.00	4.0	30.0
13C6 PFDA	Ave	1.020	0.9719		1.91	2.00	-5.0	30.0
d5-NEtFOSAA	Ave	0.3287	0.3355		5.10	5.00	2.0	30.0
13C8 PFOS	Ave	0.9257	0.8972		1.86	1.92	-3.0	30.0
13C7 PFUnA	Ave	1.226	1.256		2.05	2.00	2.0	30.0
13C2 PFDoA	Ave	1.087	1.053		1.94	2.00	-3.0	30.0
13C8 FOSA	Ave	1.143	1.101		1.93	2.00	-4.0	30.0
13C2 PFTeDA	Ave	0.6001	0.6269		2.09	2.00	4.0	30.0
d7-N-MeFOSE-M	Ave	0.1675	0.1620		4.84	5.00	-3.0	30.0
d3-NMePFOSA	Ave	0.2599	0.2533		1.95	2.00	-3.0	30.0
d9-N-EtFOSE-M	Ave	0.1704	0.1759		5.16	5.00	3.0	30.0
d5-NEtPFOSA	Ave	0.3171	0.3083		1.95	2.00	-3.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-62.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 02-Feb-2026 17:07:22 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist:

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:58:27 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: LDU5 Date: 02-Feb-2026 17:27:14
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										M
163.00 > 119.00	2.120	2.098	0.022	1.007	1614806	2.17			98.0	M
D 2 13C3PFPrA										
166.00 > 121.00	2.105	2.114	-0.009	0.484	1600011	1.98		99.1	940	
5 PFBA										
212.80 > 168.90	4.340	4.330	0.010	1.000	6085459	4.90			2499	
D 6 13C4-PFBA										
216.80 > 171.90	4.340	4.338	0.002	0.998	2647182	1.97		98.4	8030	
* 7 13C3PFBA										
216.00 > 172.00	4.348	4.338	0.010		2227718	2.00			5777	
9 PFMPA										
229.00 > 84.90	4.639	4.627	0.012	0.933	2765144	2.55			8700	
10 3:3 FTCA										
241.00 > 177.00	4.649	4.637	0.012	0.935	298422	5.71	Target=1.28		1309	
241.00 > 117.00	4.639	4.637	0.002	0.933	242137		1.23(0.64-1.92)		1446	
D 11 13C5 PFPeA										
268.30 > 223.00	4.970	4.955	0.015	0.917	2025850	1.99		99.7	6361	
12 PFPA										
263.00 > 219.00	4.970	4.968	0.002	1.000	2786976	2.41			1874	
13 PFMBA										
279.00 > 85.10	5.128	5.112	0.016	1.032	3028693	2.32			7623	
15 4:2FTS										
327.10 > 307.00	5.243	5.240	0.003	1.000	1627936	4.44	Target=1.67		8325	
327.10 > 80.90	5.243	5.240	0.003	1.000	1032165		1.58(0.83-2.50)		1303	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.243	5.240	0.003	0.812	992137	4.28		91.3	7251	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.381	5.378	0.003	0.992	1370254	2.59	Target=1.57		3804	
295.00 > 84.90	5.395	5.378	0.017	0.995	941084		1.46(0.78-2.35)		2570	
D 17 13C5 PFHxA										
318.00 > 273.00	5.422	5.418	0.004	1.000	2693183	1.88		94.0	5452	
* 18 13C2 PFHxA										
315.10 > 270.00	5.422	5.432	-0.010		6198879	5.00			21153	
19 PFHxA										
313.00 > 269.00	5.437	5.432	0.005	1.003	1671248	1.29	Target=12.08		1891	
313.00 > 118.90	5.422	5.432	-0.010	1.000	138754		12.04(6.04-18.11)		774	
22 5:3 FTCA										
341.00 > 237.10	5.505	5.500	0.005	1.015	5032628	30.5	Target=0.89		25787	
341.00 > 217.00	5.505	5.500	0.005	1.015	5515073		0.91(0.45-1.34)		37449	
21 PFBS										
298.70 > 79.90	5.560	5.568	-0.008	1.000	1165953	1.07	Target=3.03		5124	
298.70 > 98.80	5.560	5.568	-0.008	1.000	399401		2.92(1.52-4.55)		1953	
D 20 13C3 PFBS										
302.10 > 79.90	5.560	5.568	-0.008	0.862	2246479	1.93		103	15056	
28 FBSA										
297.90 > 78.00	5.574	5.582	-0.008	1.003	1963147	2.05			1949	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.617	5.611	0.006	1.036	1896078	1.93		96.7	3519	
24 HFPO-DA										
284.90 > 168.90	5.617	5.611	0.006	1.000	4542073	5.00	Target=2.32		3472	
284.90 > 184.90	5.617	5.611	0.006	1.000	1936812		2.35(1.16-3.48)		4423	
25 PFEESA										
314.80 > 134.90	5.797	5.791	0.006	1.069	6773358	2.40	Target=13.29		16524	
314.80 > 82.90	5.797	5.791	0.006	1.069	523439		12.94(6.64-19.93)		2508	
27 PFHpA										
363.10 > 319.00	5.849	5.845	0.004	1.000	1732421	1.27	Target=2.38		1923	
363.10 > 169.00	5.849	5.845	0.004	1.000	716557		2.42(1.19-3.58)		1234	
D 26 13C4 PFHpA										
367.10 > 322.00	5.849	5.845	0.004	1.079	2789683	1.99		99.3	5207	
29 ADONA										
376.90 > 250.90	5.992	5.988	0.004	1.067	14864149	4.80	Target=1.85		11383	
376.90 > 84.80	5.992	5.988	0.004	1.067	8080895		1.84(0.92-2.77)		11092	
32 PFPeS										
349.10 > 79.90	6.026	6.033	-0.007	0.934	1529842	1.27	Target=3.35		8982	
349.10 > 98.90	6.026	6.033	-0.007	0.934	451552		3.39(1.68-5.03)		2291	
31 6:2FTS										
427.10 > 407.00	6.037	6.033	0.004	1.000	1401579	4.88	Target=1.88		3719	
427.10 > 80.90	6.037	6.033	0.004	1.000	721810		1.94(0.94-2.83)		2515	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.037	6.033	0.004	0.935	657049	4.78		100	3764	
33 BTS										
280.00 > 147.00	6.183	6.189	-0.006	0.958	9089001	4.62			21463	
D 35 13C8 PFOA										
421.10 > 376.00	6.238	6.233	0.005	1.000	3387369	1.91		95.3	5699	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.238	6.233	0.005		8892572	5.00			11049	
36 PFOA										
413.00 > 369.00	6.238	6.233	0.005	1.000	1611438	1.25	Target=2.16		67475	
413.00 > 169.00	6.227	6.233	-0.006	0.998	762731		2.11(1.08-3.25)		86949	
39 7:3 FTCA										
441.00 > 316.90	6.301	6.296	0.005	1.162	4752625	31.7	Target=0.79		2112	
441.00 > 336.90	6.301	6.296	0.005	1.162	5879664		0.81(0.39-1.18)		12251	
40 PFHxS										
398.70 > 79.90	6.454	6.460	-0.006	1.000	1320344	1.13	Target=3.45		2137	
398.70 > 98.90	6.454	6.460	-0.006	1.000	397195		3.32(1.73-5.18)		969	
* 38 18O2 PFHxS										
403.00 > 83.90	6.454	6.460	-0.006		1737635	1.90			9165	
D 37 13C3 PFHxS										
402.10 > 79.90	6.454	6.460	-0.006	1.000	1731994	1.89		99.5	6605	
43 PFNA										
463.00 > 419.00	6.625	6.620	0.005	1.000	1601699	1.17	Target=2.87		76846	
463.00 > 219.00	6.625	6.620	0.005	1.000	590481		2.71(1.44-4.31)		142312	
D 42 13C9 PFNA										
472.10 > 427.00	6.625	6.620	0.005	1.000	3128195	1.97		98.4	7214	
* 41 13C5 PFNA										
468.00 > 423.00	6.625	6.620	0.005		3165149	2.00			9061	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.794	6.790	0.004	1.053	648481	4.84		101	4232	
45 8:2FTS										
527.10 > 507.00	6.794	6.790	0.004	1.000	1023439	4.61	Target=1.57		2188	
527.10 > 80.80	6.794	6.790	0.004	1.000	644145		1.59(0.79-2.36)		4173	
46 PFECHS										
461.00 > 381.00	6.828	6.824	0.004	1.058	627221	2.06	Target=0.30		2377	
461.00 > 99.00	6.828	6.824	0.004	1.058	2083405		0.30(0.15-0.45)		5122	
47 PFHpS										
449.00 > 79.90	6.862	6.857	0.005	0.945	1159838	1.23	Target=3.53		6417	
449.00 > 98.80	6.862	6.857	0.005	0.945	309934		3.74(1.76-5.29)		2015	
53 FHxSA										
397.90 > 78.00	6.873	6.869	0.004	1.065	2817928	2.25			4450	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.945	6.940	0.005	0.957	1697298	5.22		104	4441	
49 NMeFOSAA										
570.10 > 419.00	6.945	6.940	0.005	1.000	455954	1.20	Target=1.75		953	
570.10 > 483.00	6.945	6.940	0.005	1.000	253539		1.80(0.87-2.62)		266	
D 50 13C6 PFDA										
519.10 > 474.10	7.006	7.015	-0.009	1.000	3063011	1.91		95.3	7983	
* 52 13C2 PFDA										
515.10 > 470.10	7.006	7.015	-0.009		3151614	2.00			9975	
51 PFDA										
512.90 > 469.00	7.006	7.015	-0.009	1.000	1622274	1.26	Target=4.54		4195	
512.90 > 219.00	7.006	7.015	-0.009	1.000	356194		4.55(2.27-6.81)		1126	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.115	7.124	-0.009	0.980	1465986	5.10		102	3851	
55 NEtFOSAA										
584.20 > 419.10	7.129	7.124	0.005	1.002	303462	1.26	Target=1.38		275	
584.20 > 526.00	7.129	7.124	0.005	1.002	226517		1.34(0.69-2.07)		161	
58 PFOS										
498.90 > 79.90	7.259	7.255	0.004	1.000	1350202	1.19	Target=4.26		353529	
498.90 > 98.80	7.259	7.255	0.004	1.000	323031		4.18(2.13-6.40)		859	
D 56 13C8 PFOS										
507.10 > 79.90	7.259	7.267	-0.008	1.000	1502231	1.86		96.9	338	
* 57 13C4 PFOS										
502.80 > 79.90	7.259	7.267	-0.008		1674342	1.92			10315	
D 59 13C7 PFUnA										
570.00 > 525.10	7.402	7.409	-0.007	1.057	3957106	2.05		102	8506	
60 PFUnA										
563.10 > 519.00	7.402	7.409	-0.007	1.000	1800564	1.23	Target=5.23		3730	
563.10 > 269.10	7.402	7.409	-0.007	1.000	355996		5.06(2.62-7.85)		1347	
61 9ClFOS										
530.80 > 351.00	7.560	7.566	-0.006	1.041	10507558	4.70	Target=3.05		22902	
532.80 > 353.00	7.560	7.566	-0.006	1.041	3366841		3.12(1.53-4.58)		19460	
62 PFNS										
548.80 > 79.90	7.660	7.656	0.004	1.055	1076798	1.19	Target=3.70		5444	
548.80 > 98.80	7.650	7.656	-0.006	1.054	314101		3.43(1.85-5.56)		1837	
D 81 PFDoA										
615.10 > 570.00	7.785	7.801	-0.016	1.111	3317487	1.94		96.8	7886	
63 PFDoA										
613.10 > 569.00	7.795	7.801	-0.006		1918486	1.30	Target=5.66		5375	
613.10 > 319.00	7.795	7.801	-0.006		338830		5.66(2.83-8.49)		3091	
64 PFOSA										
498.10 > 77.90	7.960	7.947	0.013	1.000	1111430	1.26	Target=43.43		2276	
498.10 > 478.00	7.960	7.947	0.013	1.000	24825		44.77(21.71-65.14)		84.4	
D 65 13C8 FOSA										
506.10 > 77.80	7.960	7.957	0.003	1.097	1923441	1.93		96.3	7115	
66 PFDS										
599.00 > 79.90	8.023	8.031	-0.008	1.105	1138105	1.24	Target=3.54		7044	
599.00 > 98.80	8.023	8.031	-0.008	1.105	312734		3.64(1.77-5.31)		4670	
67 PFTrDA										
663.00 > 619.00	8.162	8.170	-0.008	0.962	2015483	1.25	Target=5.76		6253	
663.00 > 168.90	8.162	8.170	-0.008	0.962	355580		5.67(2.88-8.64)		3132	
68 11ClFOS										
630.90 > 450.90	8.305	8.314	-0.009	1.144	8301149	4.81	Target=3.06		15732	
632.90 > 452.90	8.305	8.314	-0.009	1.144	2726851		3.04(1.53-4.59)		7100	
70 PFTeDA										
713.10 > 168.90	8.496	8.494	0.002	1.002	207052	1.20	Target=1.07		2121	
713.10 > 219.00	8.496	8.494	0.002	1.002	189605		1.09(0.54-1.61)		2085	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.482	8.494	-0.012	1.211	1975782	2.09		104	4753	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.656	8.667	-0.011	1.192	701988	1.29	Target=4.17		6136	
699.10 > 98.80	8.656	8.667	-0.011	1.192	170332		4.12(2.09-6.26)		1775	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.726	8.723	0.003	1.202	707817	4.84		96.7	598	
72 N-MeFOSE-M										
616.10 > 58.90	8.740	8.737	0.003	1.002	4629426	12.2			1252824	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.813	8.809	0.004	1.214	442691	1.95		97.5	3227	
75 NMeFOSA										
511.90 > 219.00	8.813	8.809	0.004	1.000	283777	1.25	Target=0.69		1735	
511.90 > 169.00	8.813	8.809	0.004	1.000	404686		0.70(0.34-1.03)		1554	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.900	8.897	0.003	1.226	768640	5.16		103	1187	
77 N-EtFOSE-M										
630.00 > 58.90	8.914	8.911	0.003	1.002	7144967	11.8			2280355	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.970	8.967	0.003	1.236	538901	1.94		97.2	2378	
79 N-EtFOSA-M										
526.00 > 219.00	8.984	8.981	0.003	1.002	316974	1.25	Target=0.78		2964	
526.00 > 169.00	8.984	8.981	0.003	1.002	410385		0.77(0.39-1.17)		2656	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.217	9.238	-0.021	1.087	1906469	2.03	Target=11.85		91334	
913.00 > 169.00	9.217	9.238	-0.021	1.087	147555		12.92(5.92-17.77)		6394	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_ICV_00032 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 17:58:31 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-62.d

Injection Date: 02-Feb-2026 17:07:22 Instrument ID: 30575

Lims ID: ICV

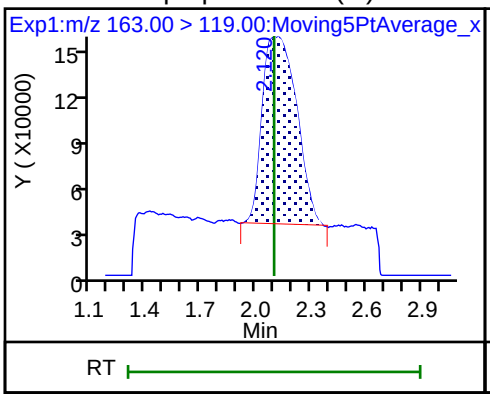
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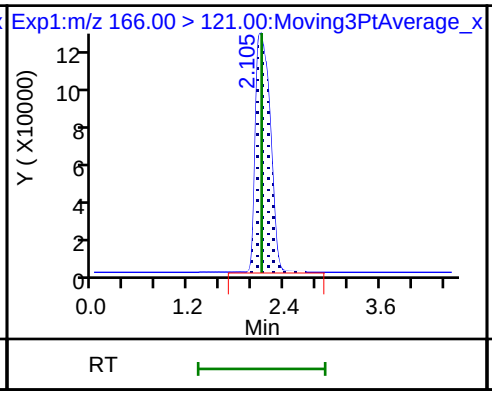
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

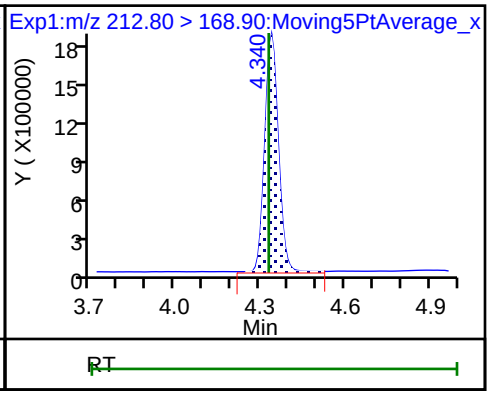
1 Perfluoropropionic acid (M)



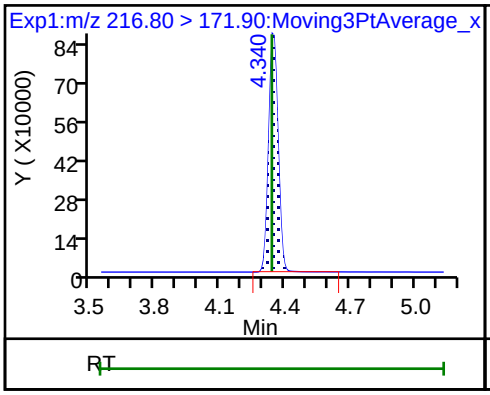
D 2 13C3PFPrA



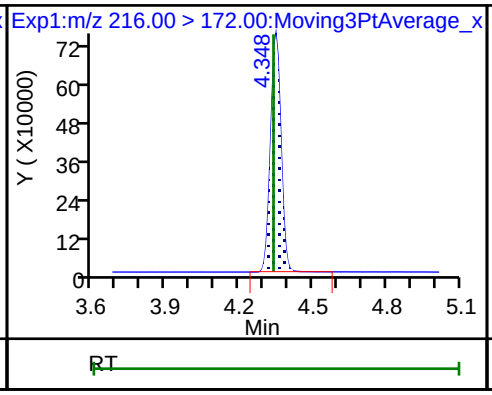
5 PFBA



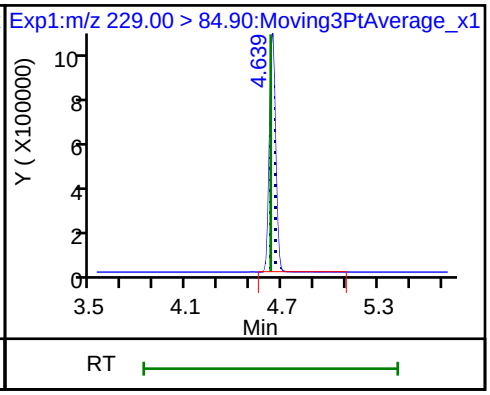
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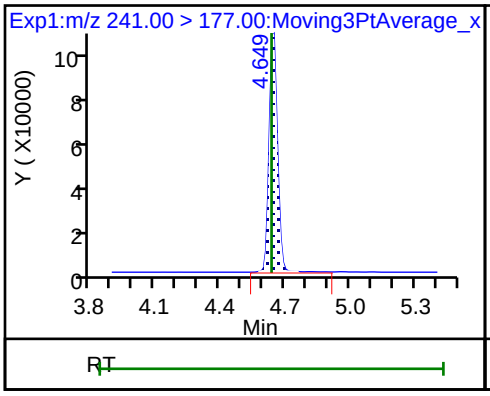
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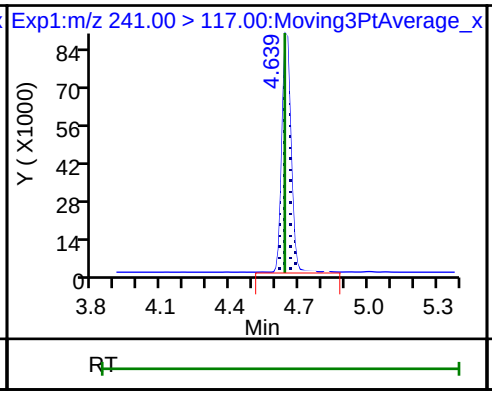
9 PFMPA



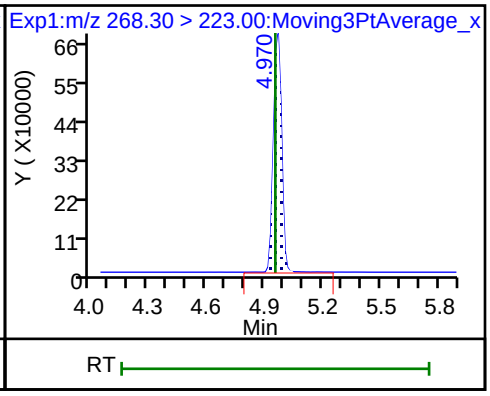
10 3:3 FTCA



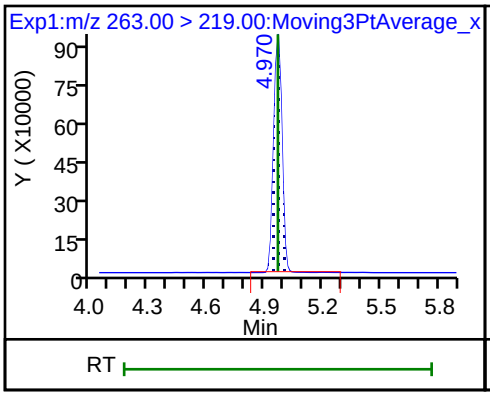
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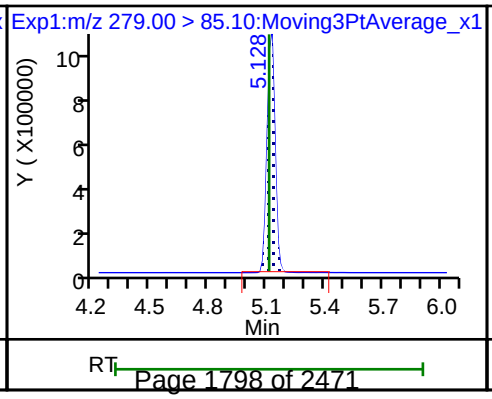
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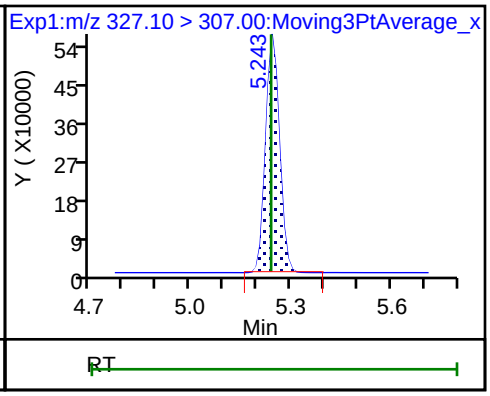
12 PFPA



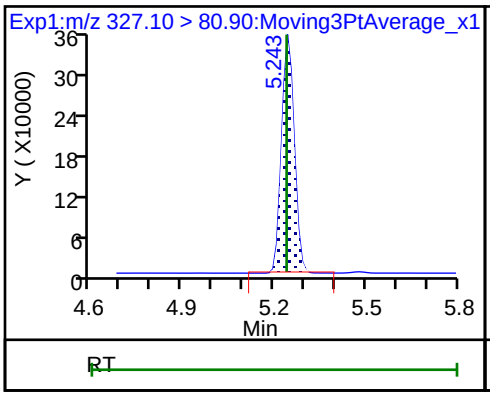
13 PFMBA



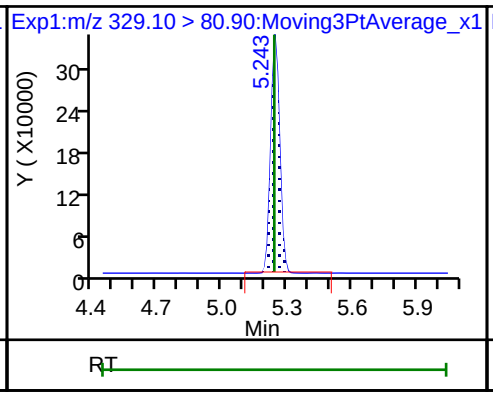
15 4:2FTS



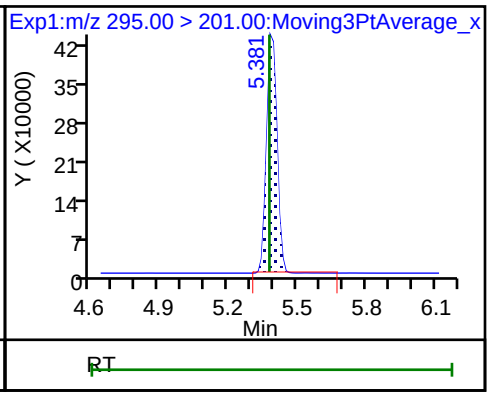
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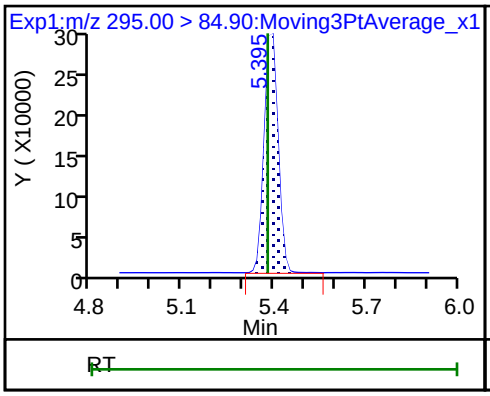
D 14 13C2-4:2FTS



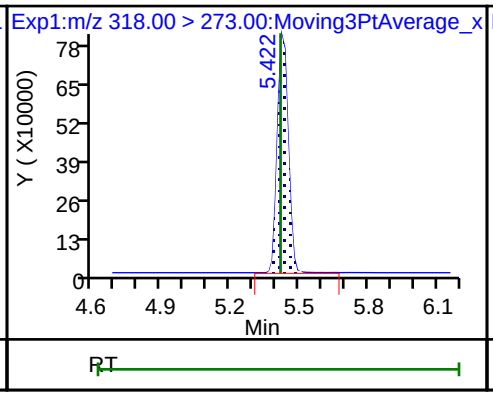
16 NFDHA



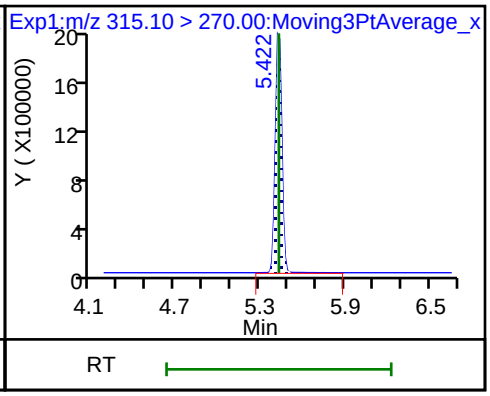
16 NFDHA



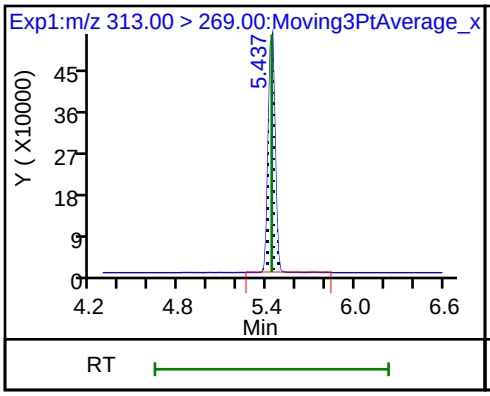
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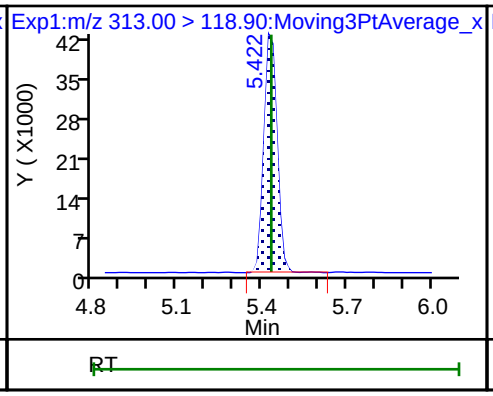
* 18 13C2 PFHxA



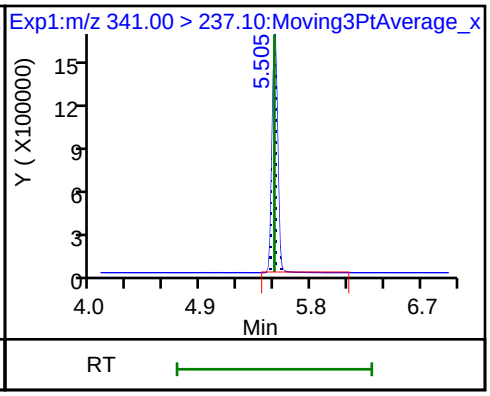
19 PFHxA



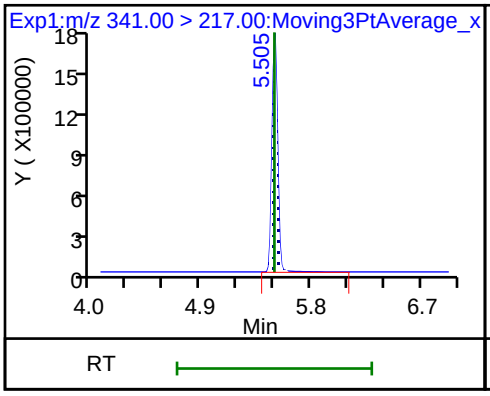
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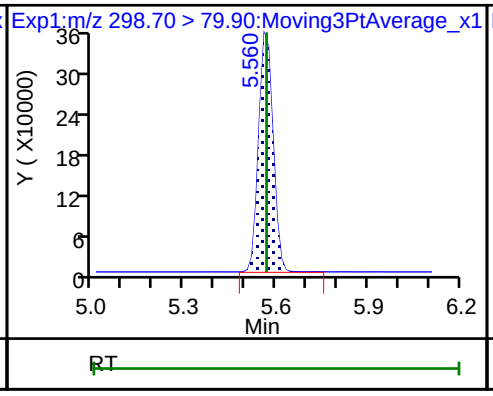
22 5:3 FTCA



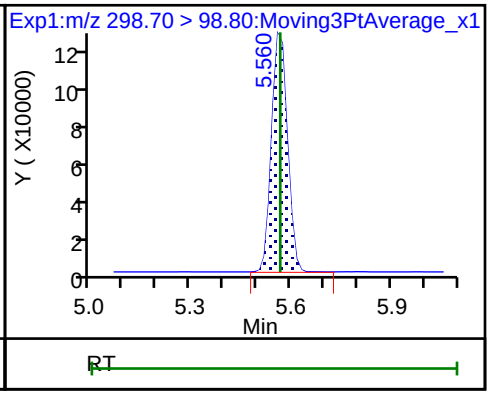
22 5:3 FTCA



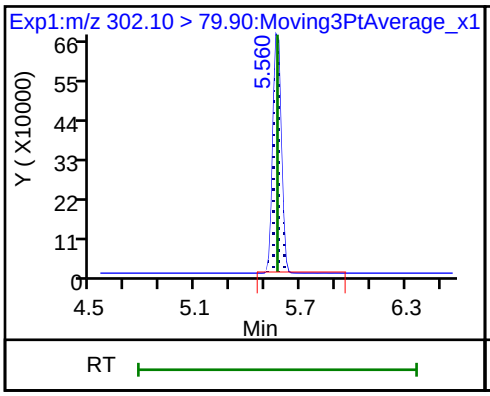
21 PFBS



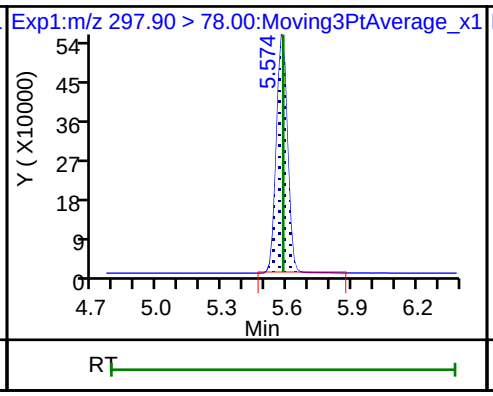
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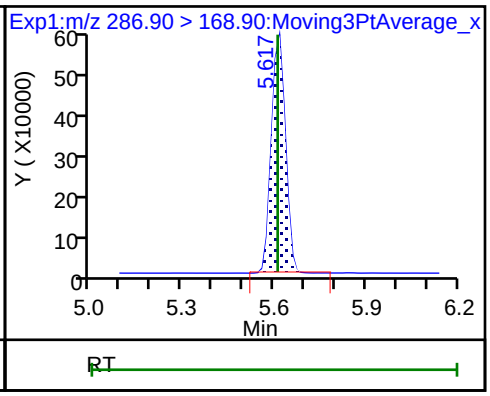
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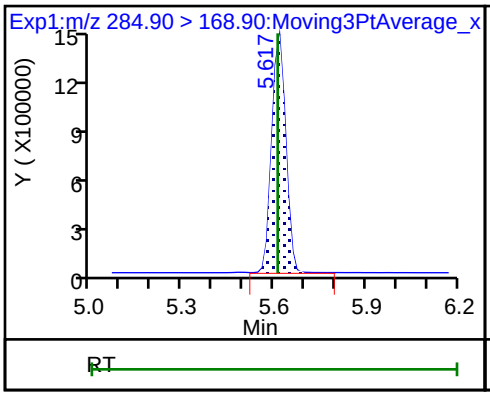
28 FBSA



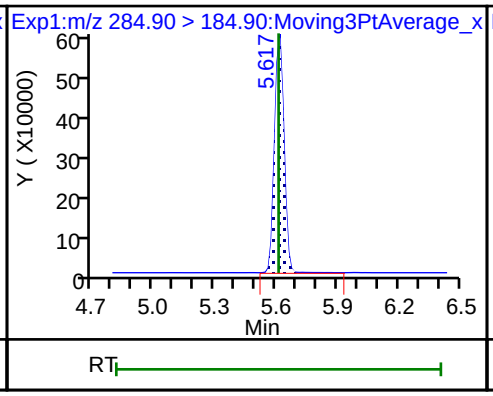
D 23 13C3 HFPO-DA



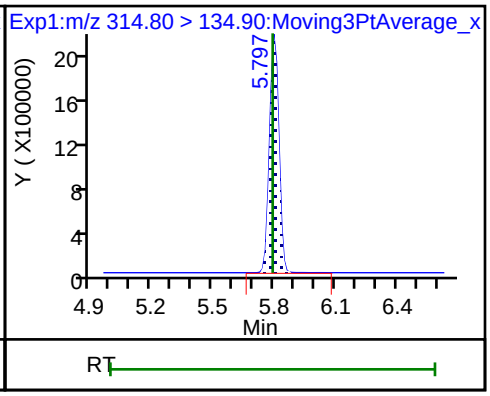
24 HFPO-DA



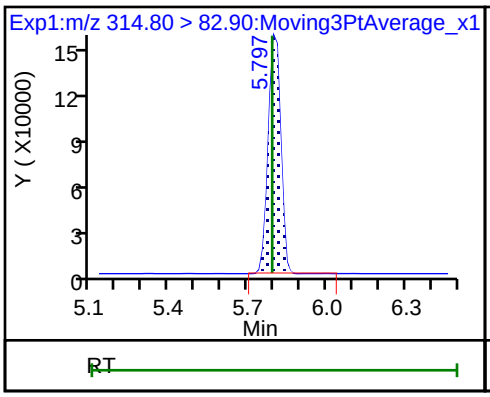
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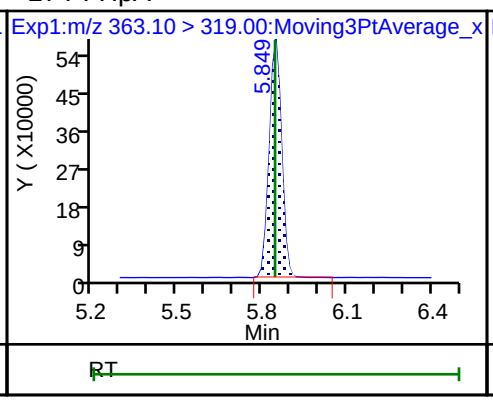
25 PFEESA



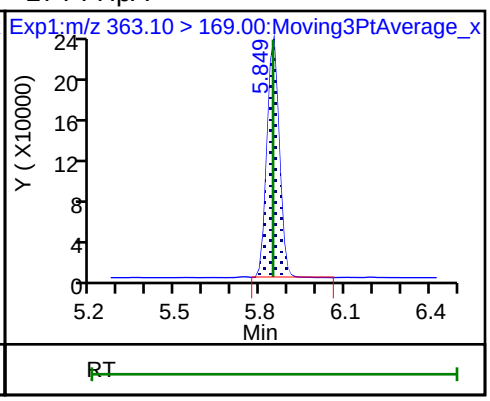
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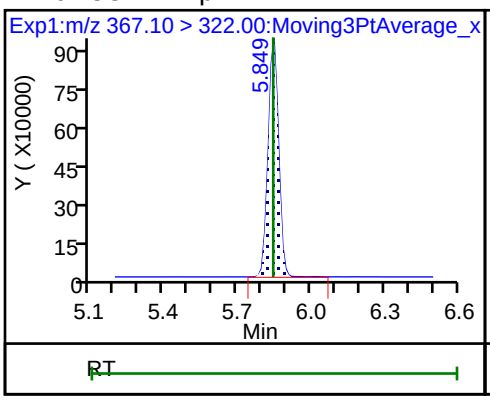
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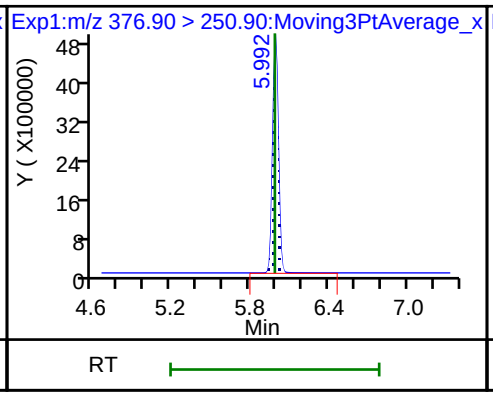
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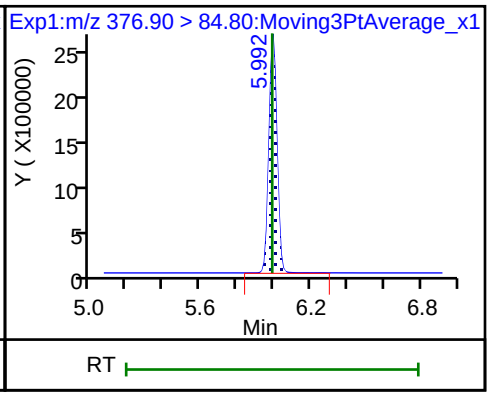
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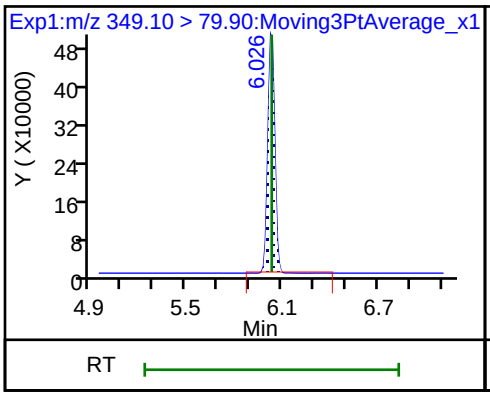
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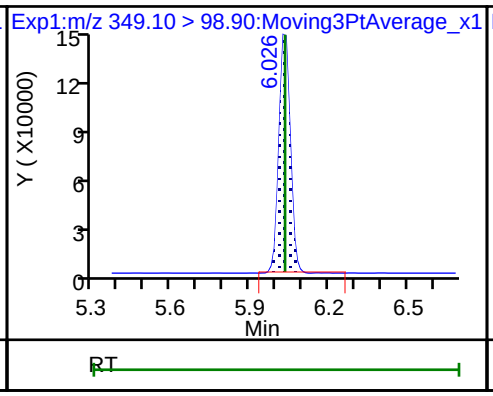
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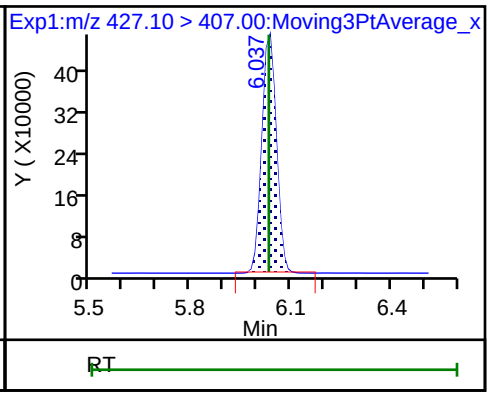
32 PFPeS



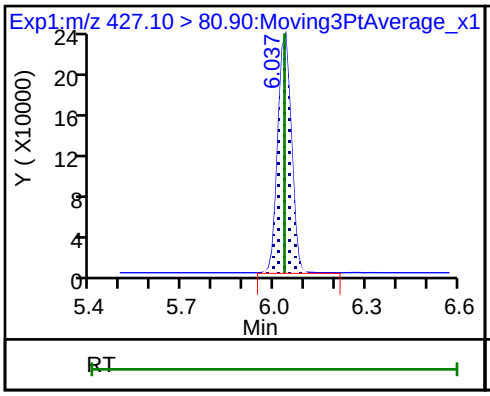
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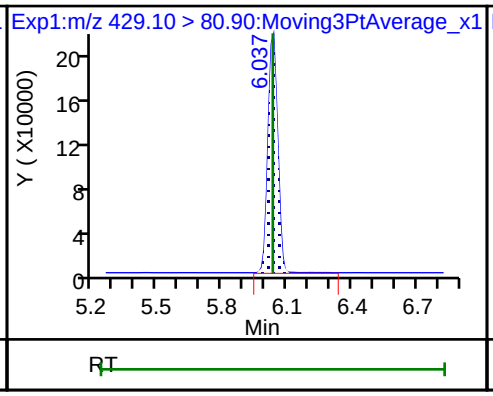
31 6:2FTS



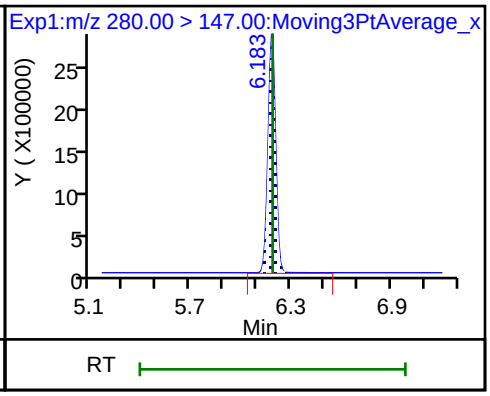
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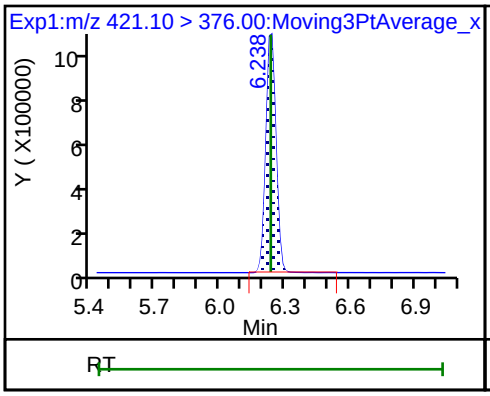
D 30 13C2-6:2FTS



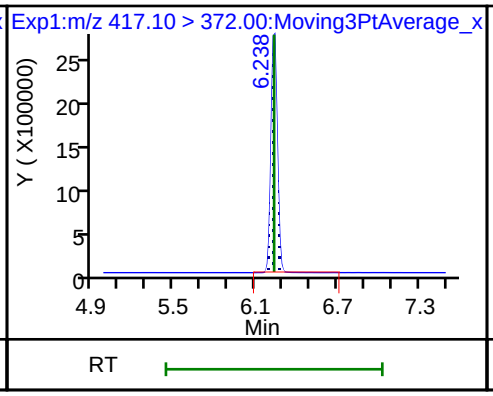
33 BTS



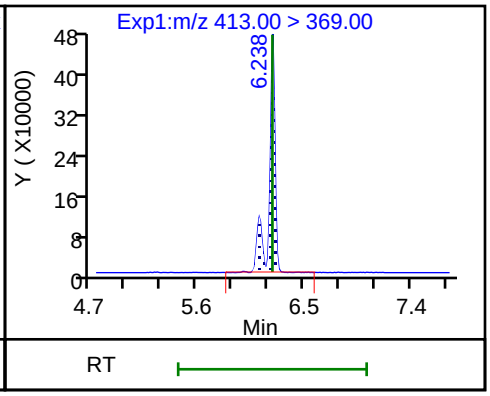
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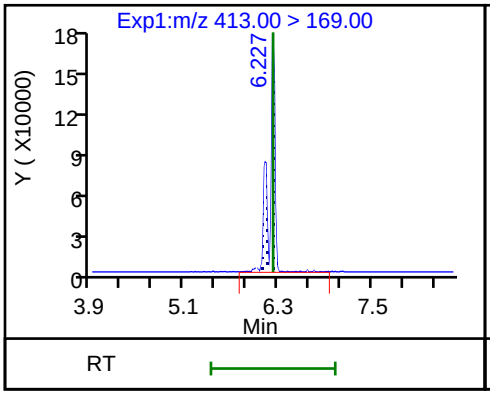
* 34 13C4 PFOA



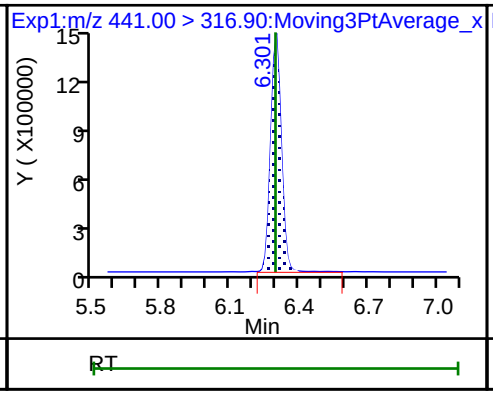
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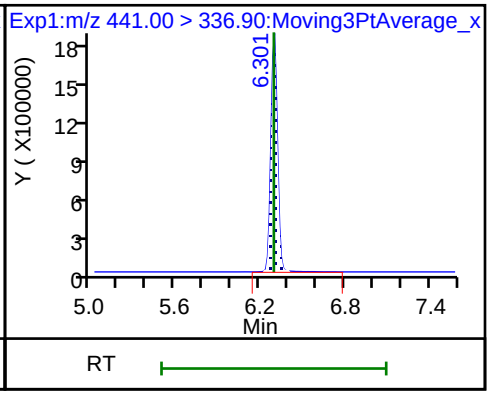
36 PFOA



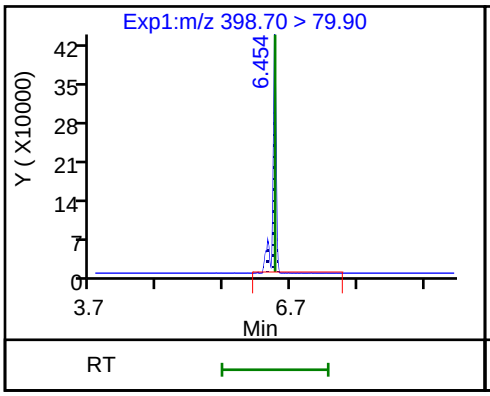
39 7:3 FTCA



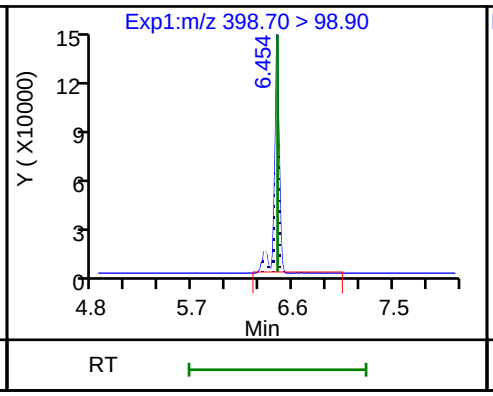
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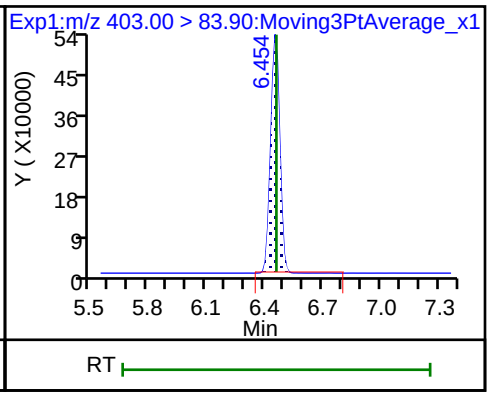
40 PFHxS



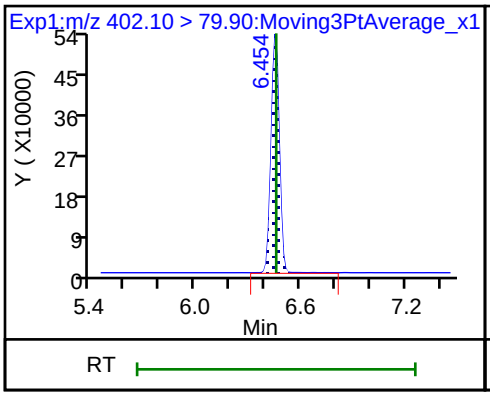
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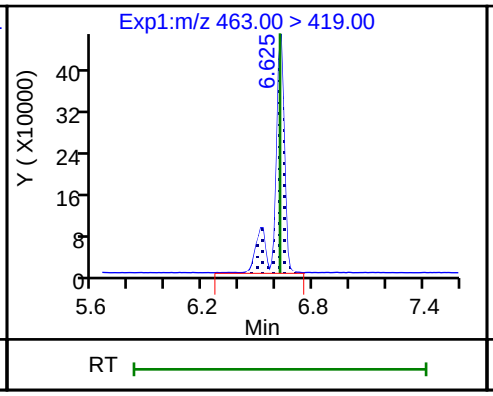
* 38 18O2 PFHxS



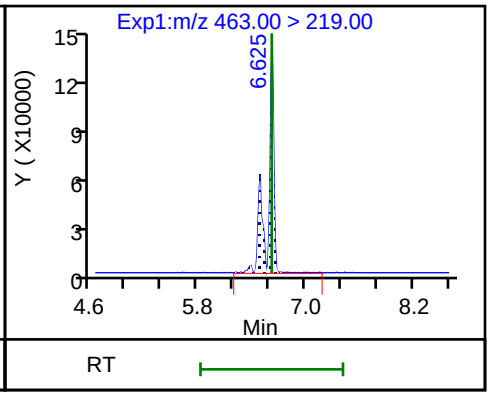
D 37 13C3 PFHxS



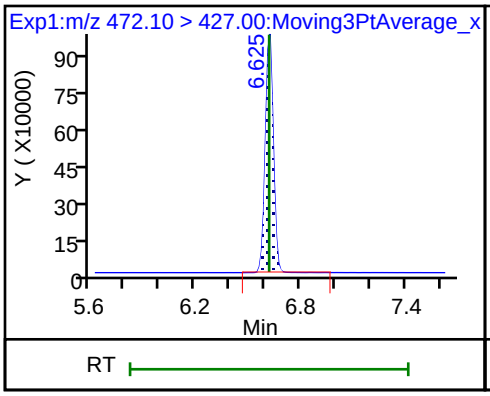
43 PFNA



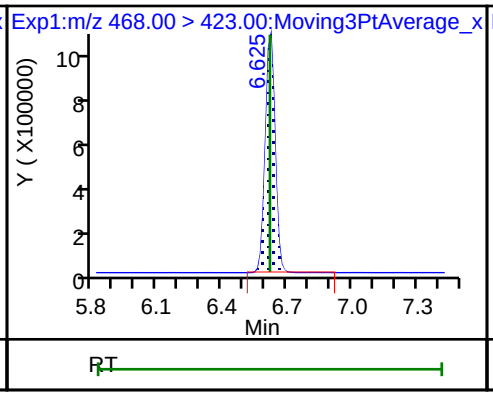
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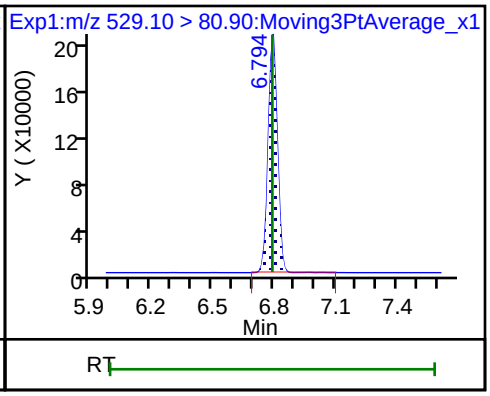
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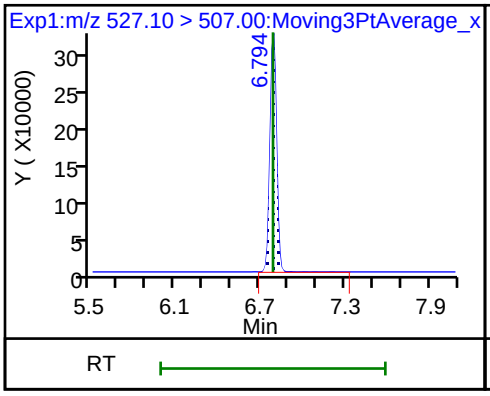
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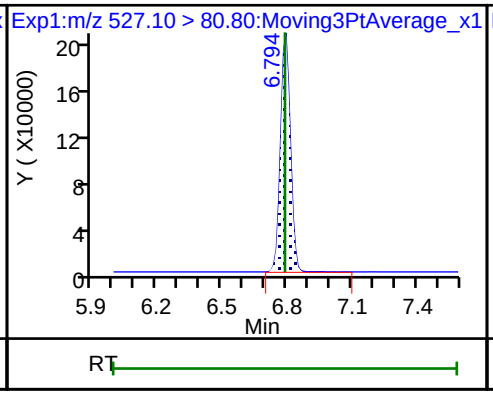
D 44 13C2-8:2FTS



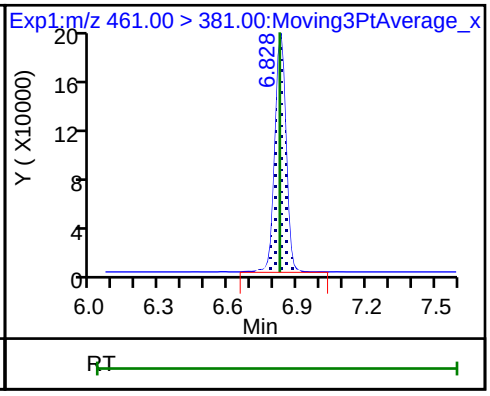
45 8:2FTS



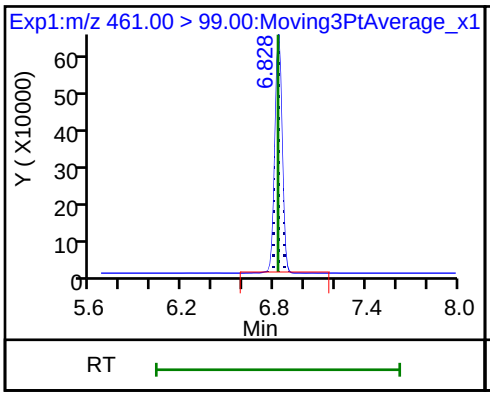
45 8:2FTS



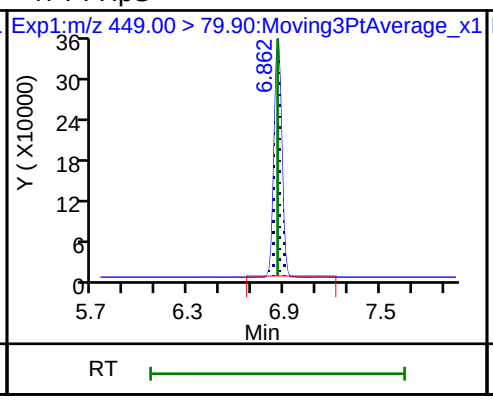
46 PFECHS



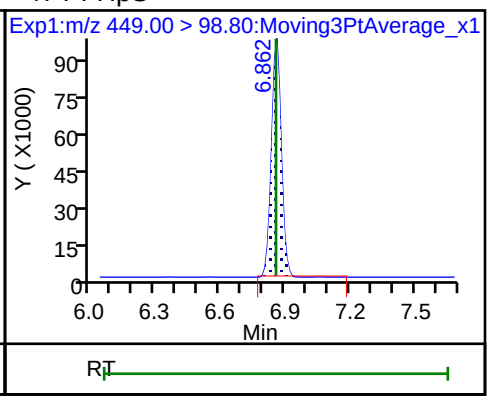
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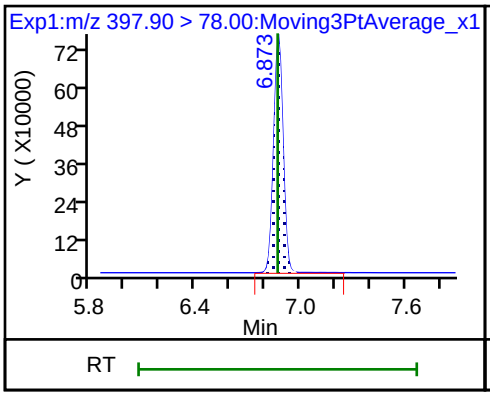
47 PFHpS



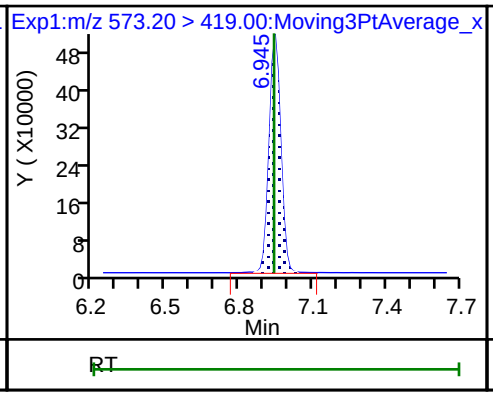
47 PFHpS



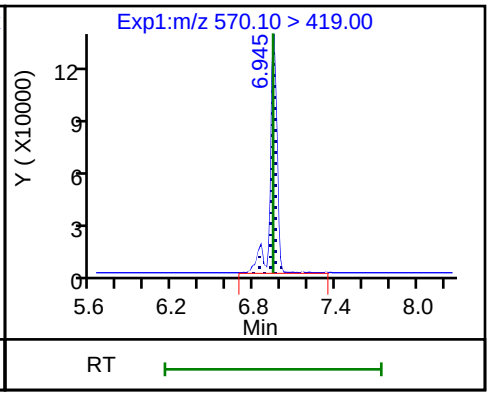
53 FHxSA



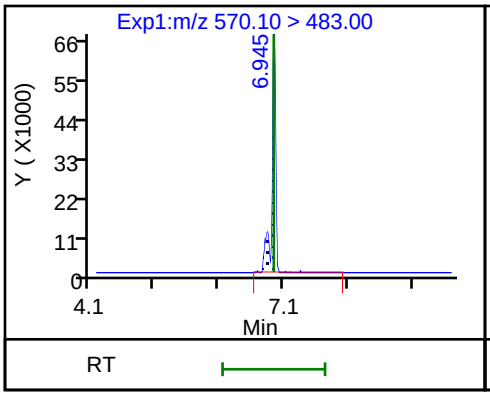
D 48 d3-NMeFOSAA



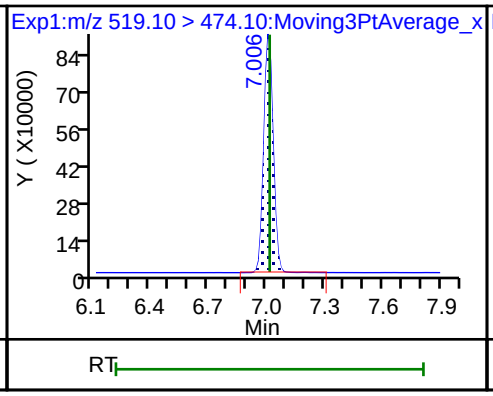
49 NMeFOSAA



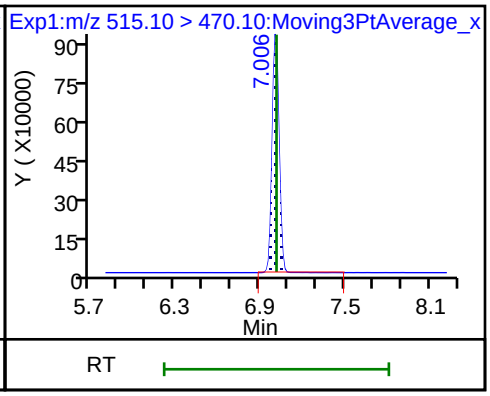
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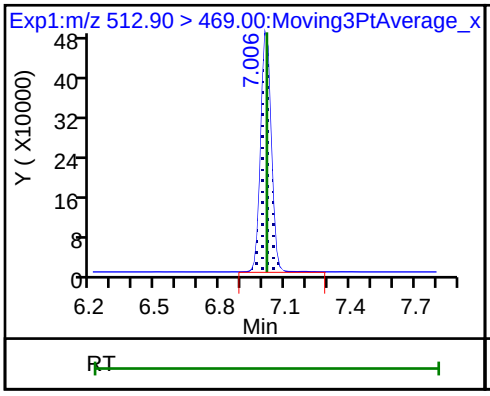
D 50 13C6 PFDA



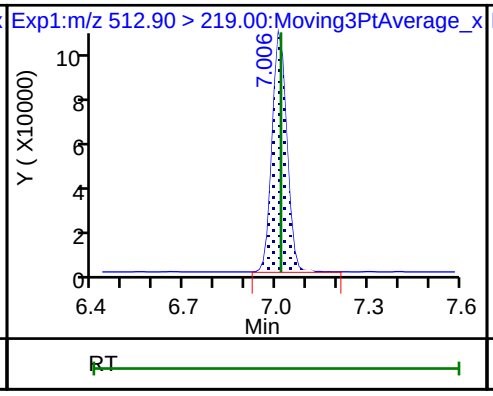
* 52 13C2 PFDA



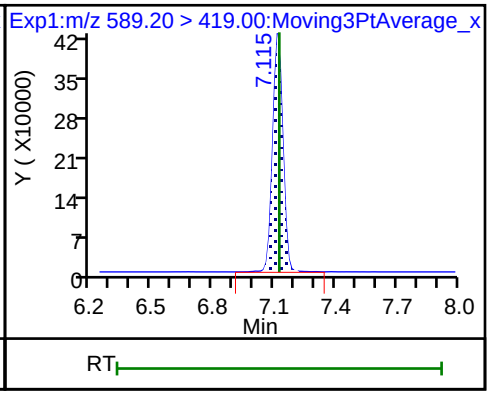
51 PFDA



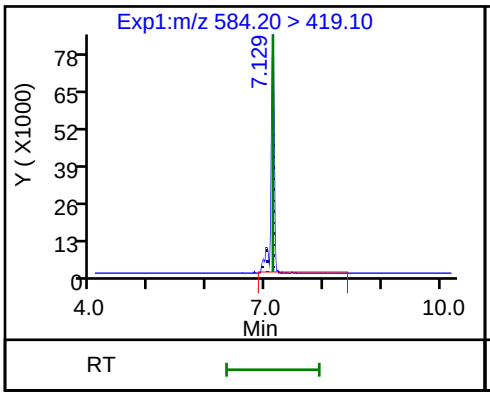
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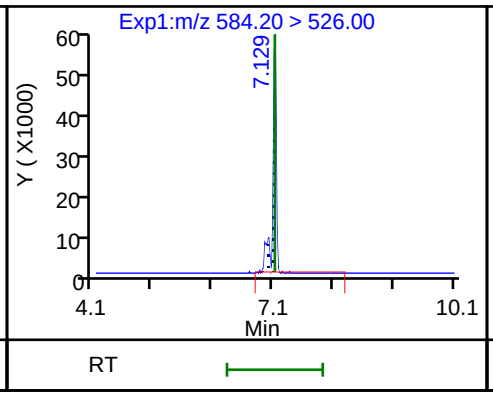
D 54 d5-NEtFOSAA



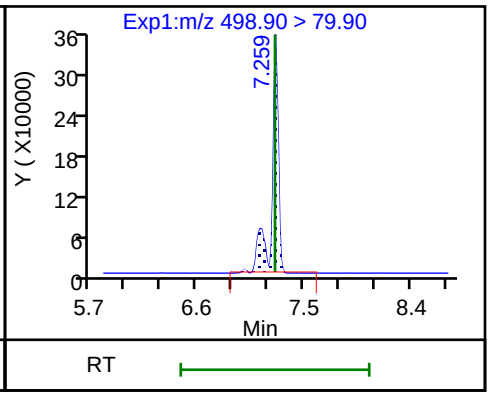
55 NEtFOSAA



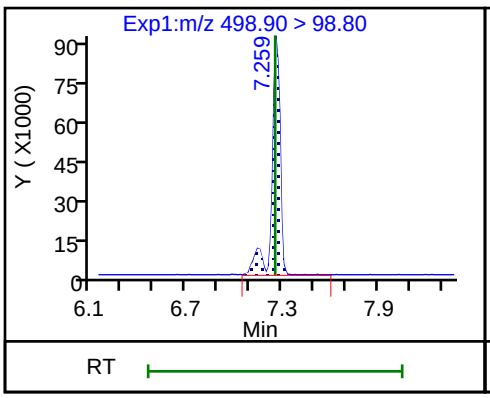
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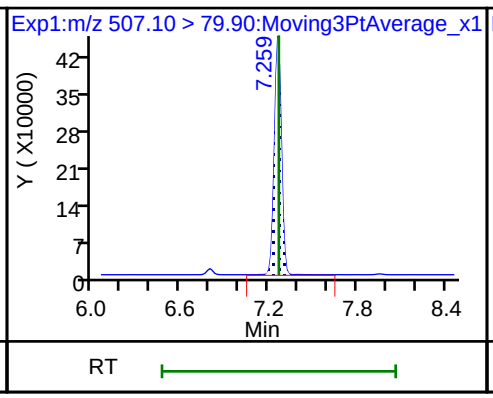
58 PFOS



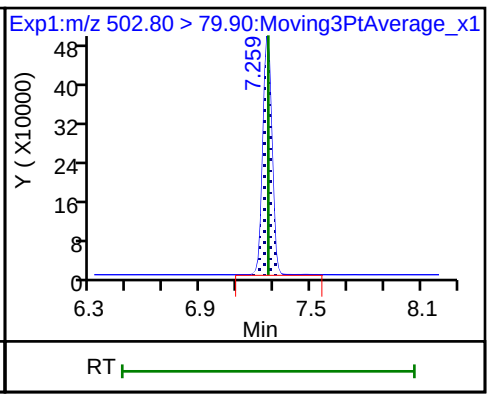
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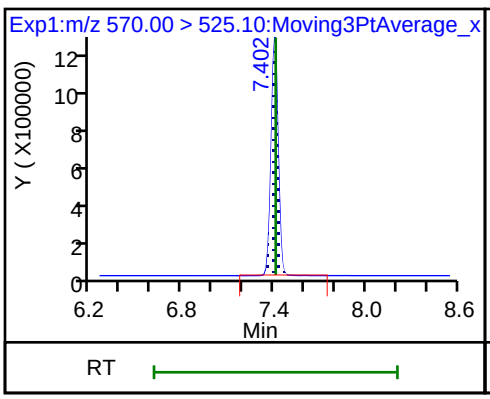
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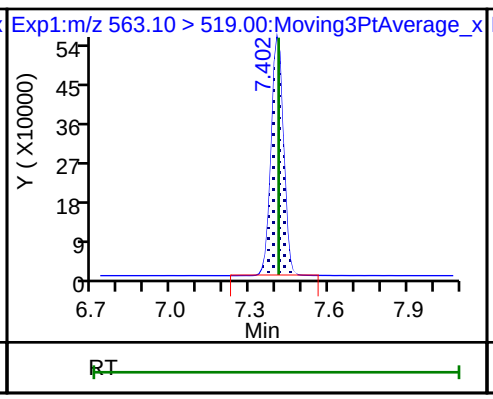
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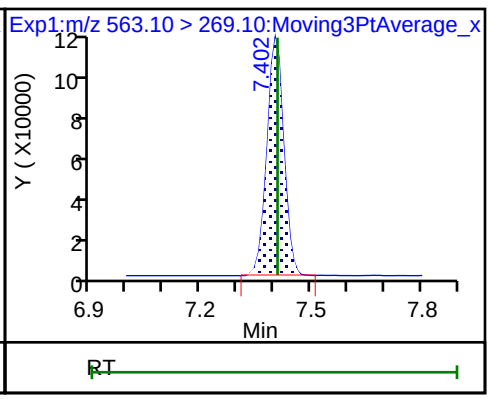
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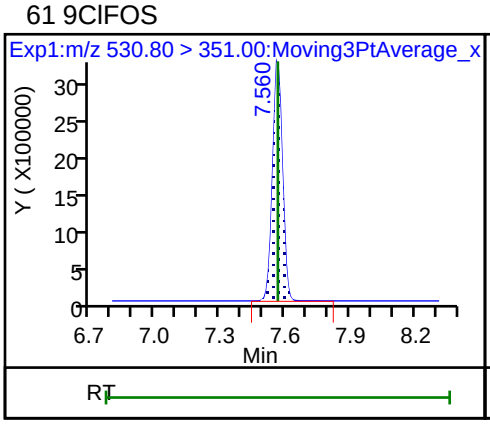
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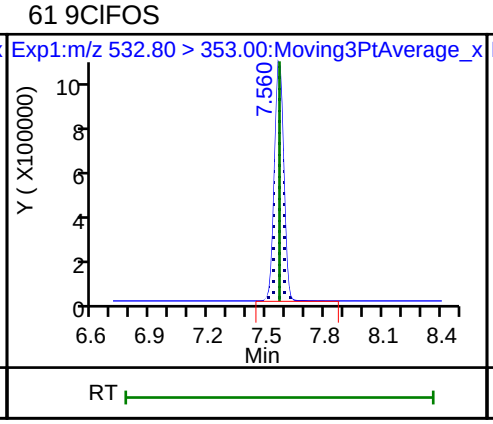
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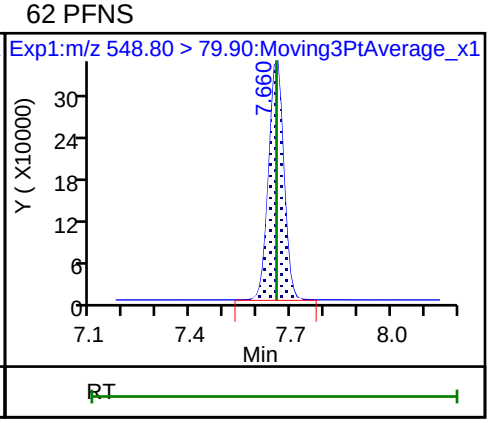
61 9ClFOS



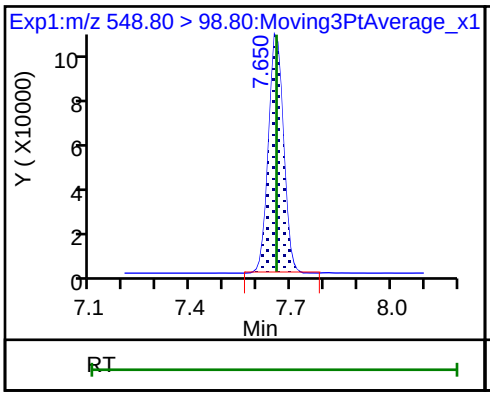
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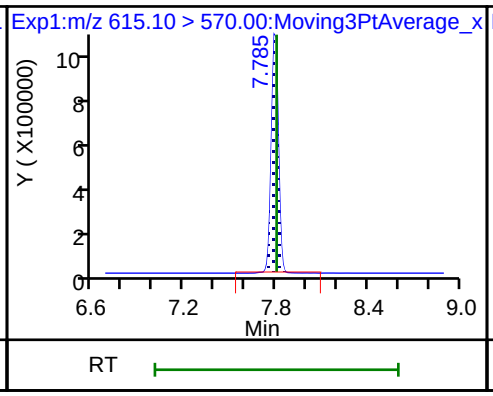
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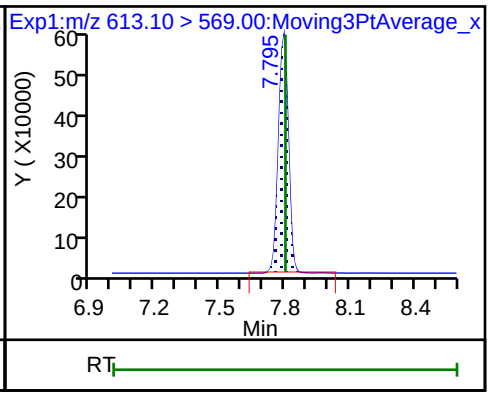
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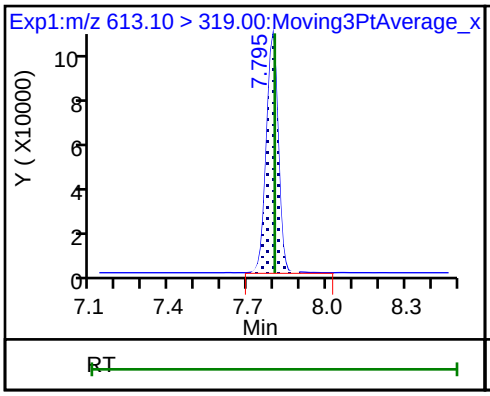
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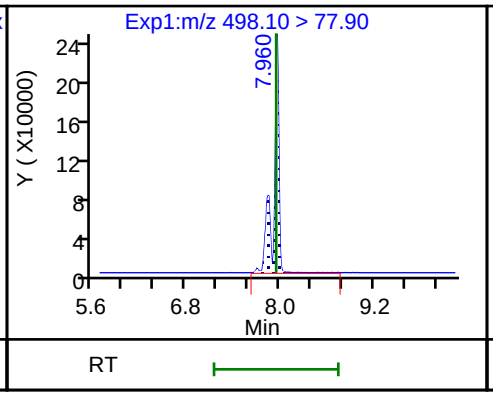
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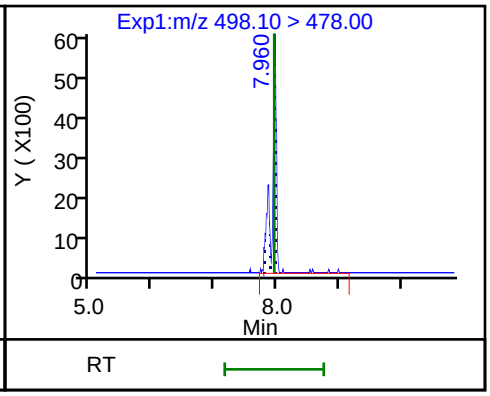
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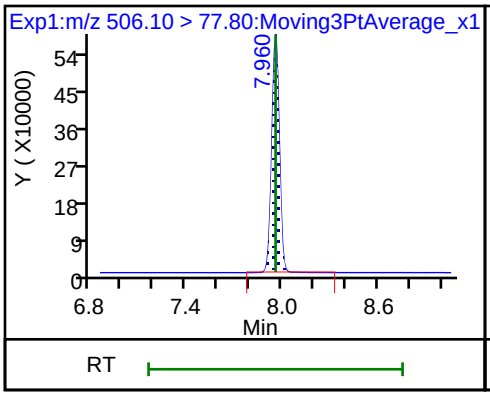
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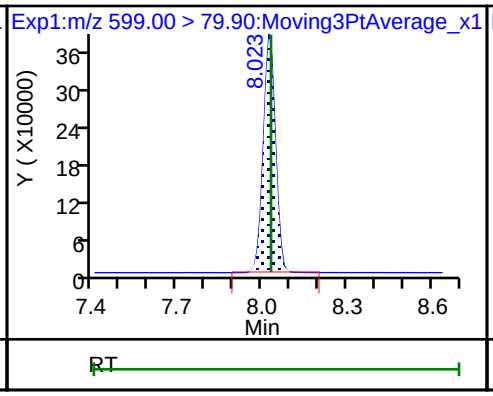
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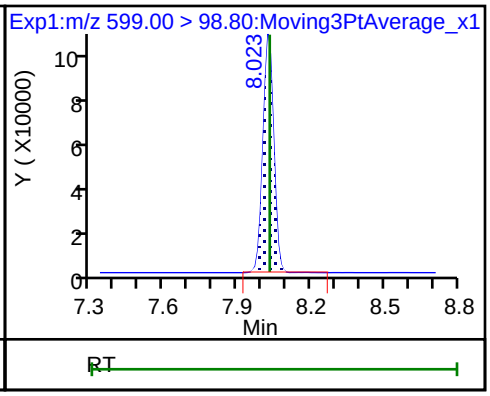
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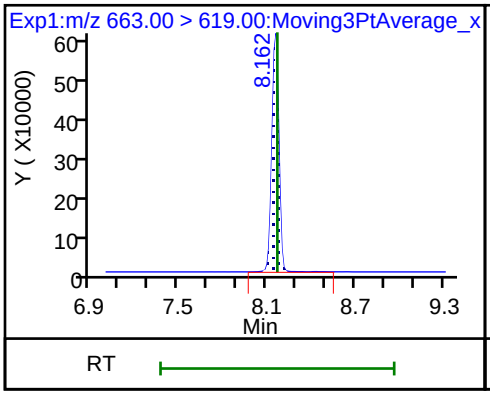
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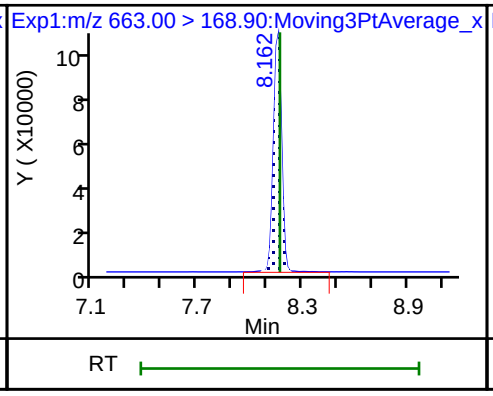
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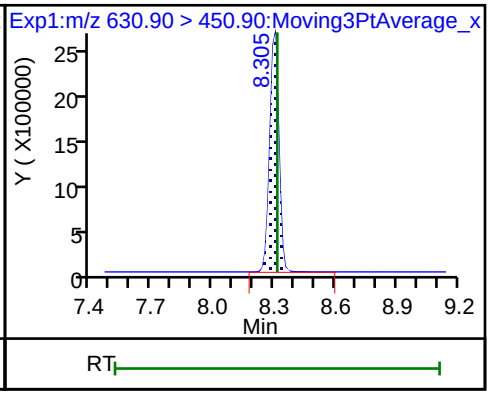
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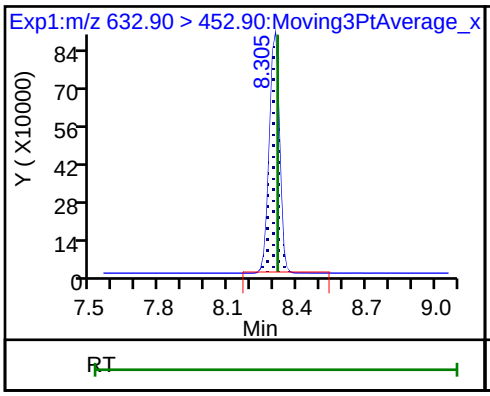
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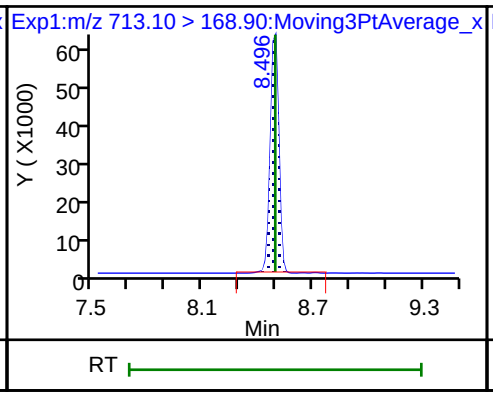
68 11ClFOS



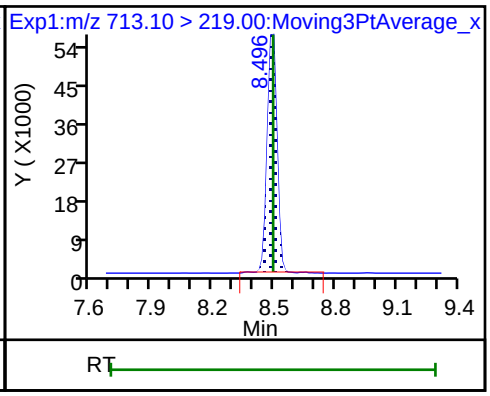
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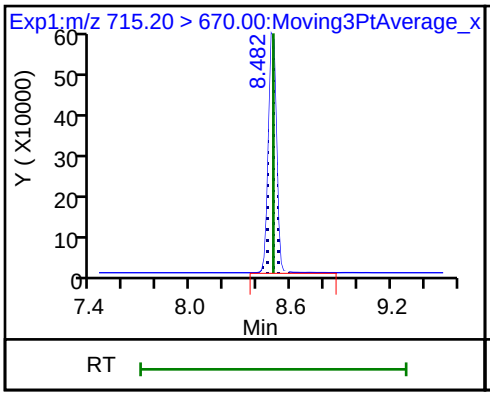
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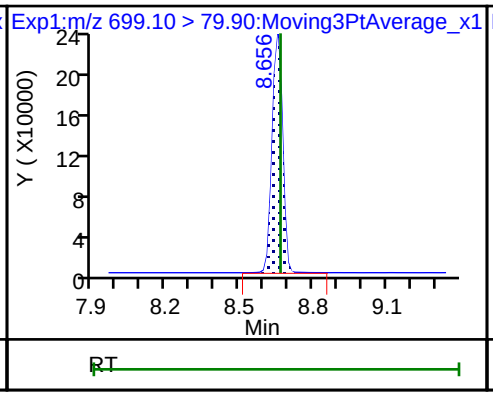
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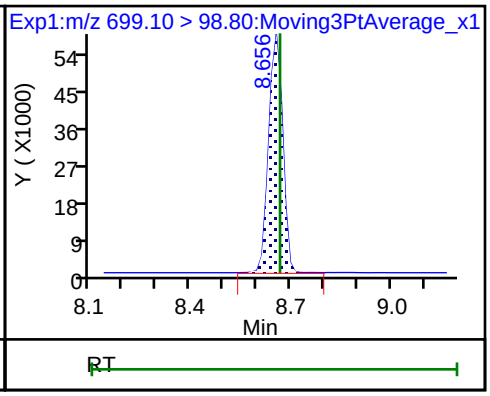
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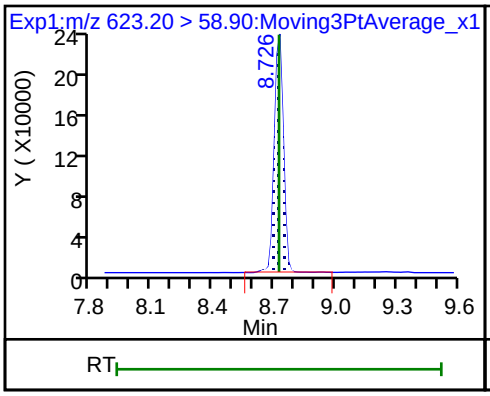
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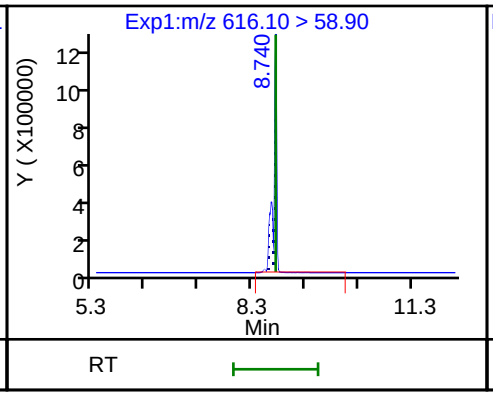
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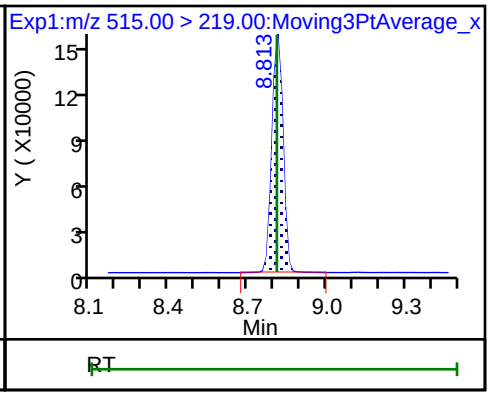
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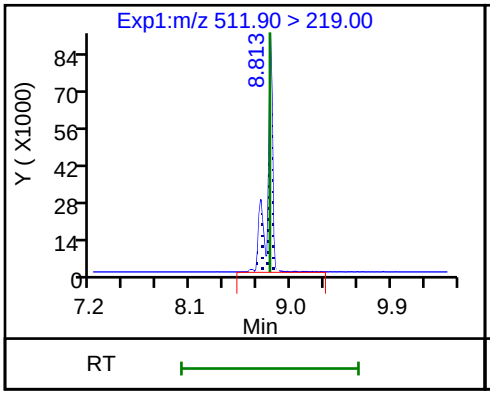
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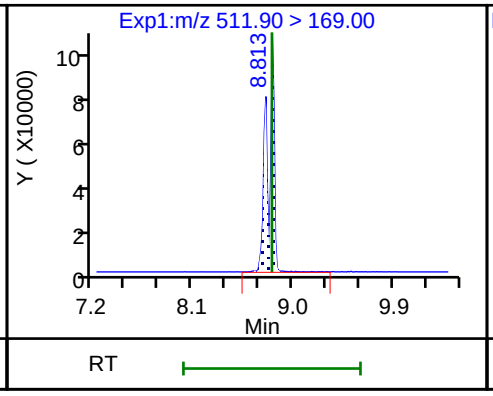
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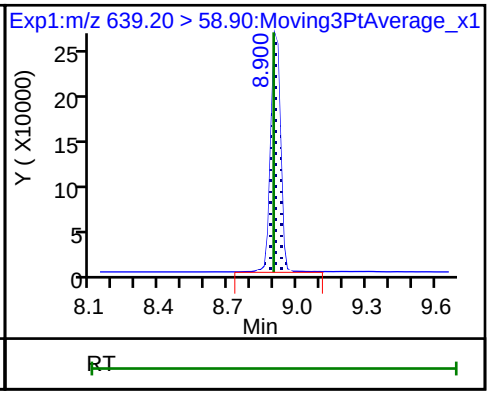
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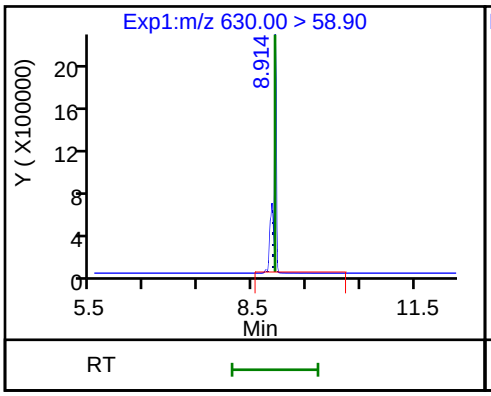
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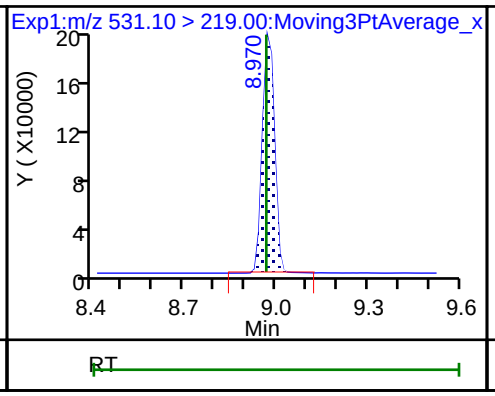
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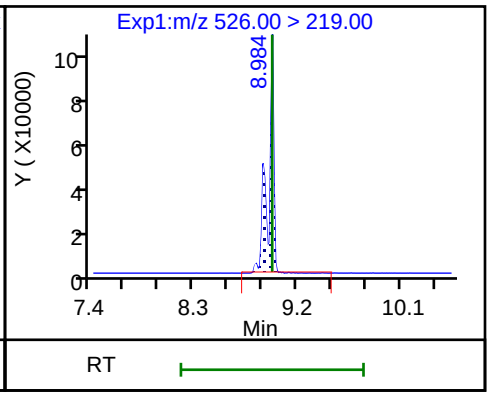
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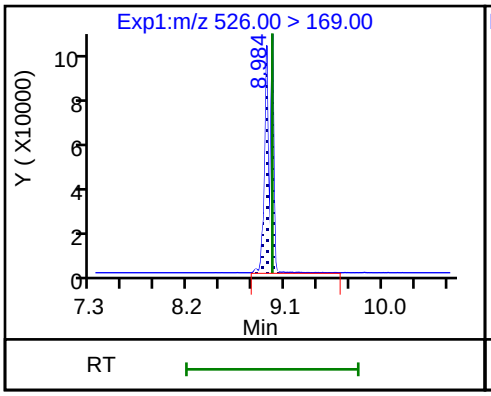
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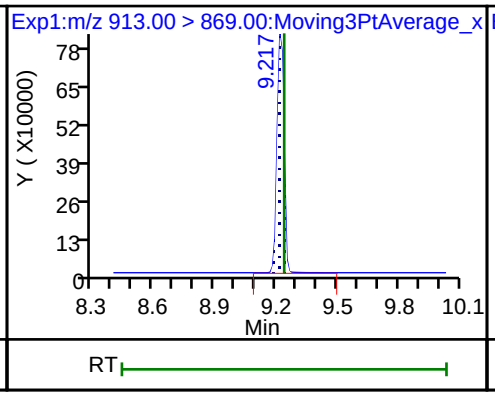
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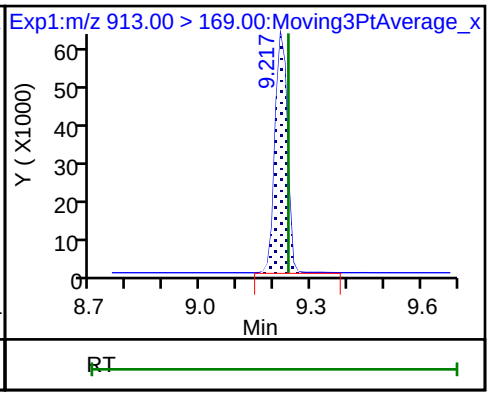
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

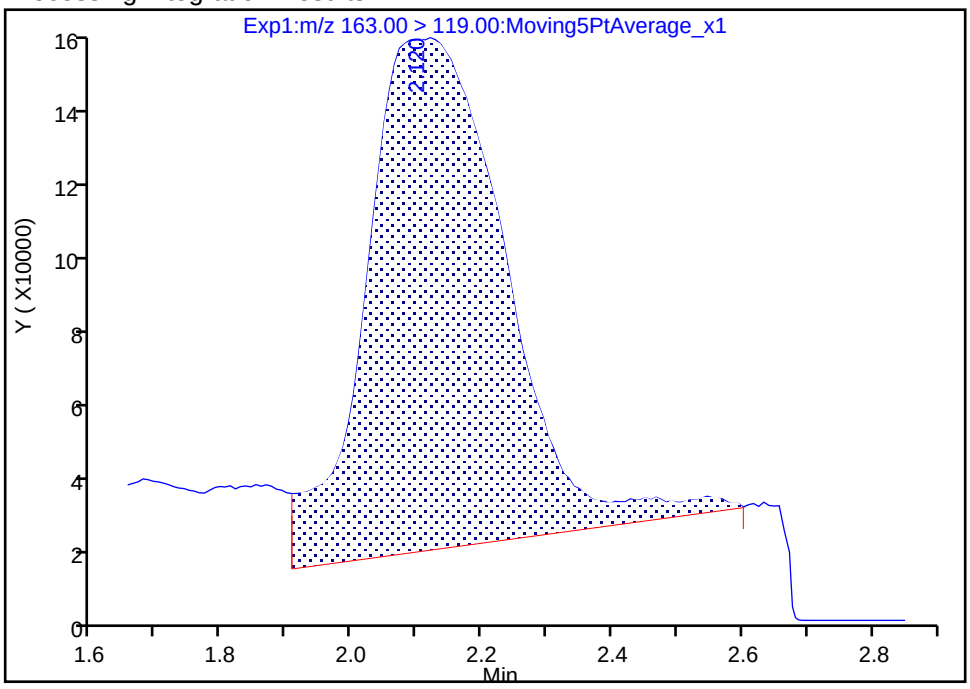
Data File:	\\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-62.d				
Injection Date:	02-Feb-2026 17:07:22	Instrument ID:	30575		
Lims ID:	ICV				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

1 Perfluoropropionic acid, CAS: 422-64-0

Signal: 1

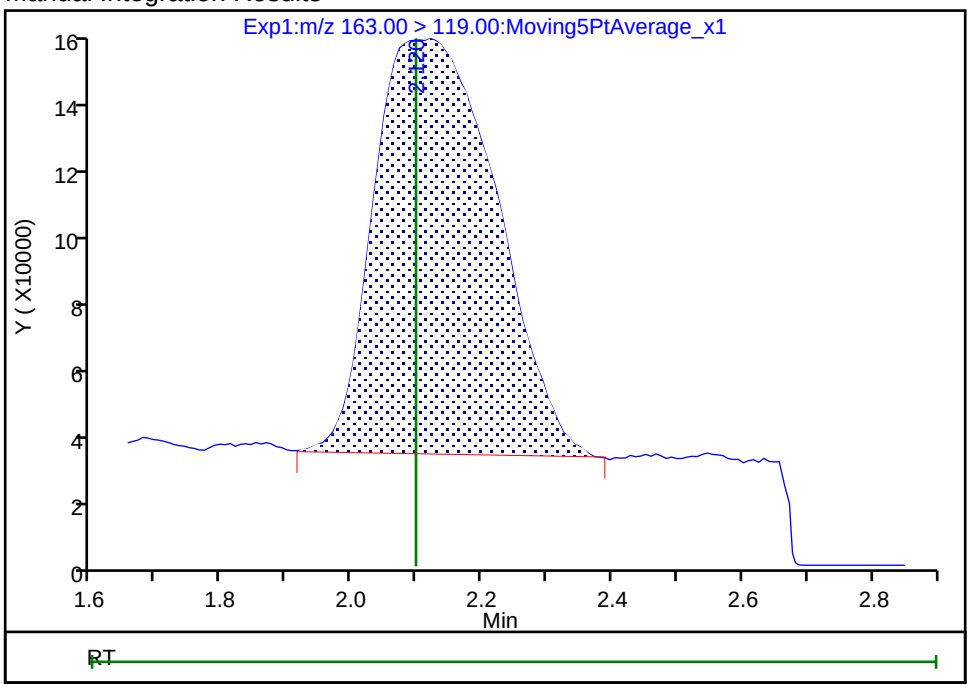
Processing Integration Results

RT: 2.12
Area: 2056359
Amount: 2.768104
Amount Units: ng/ml



Manual Integration Results

RT: 2.12
Area: 1614806
Amount: 2.173721
Amount Units: ng/ml



Reviewer: LDU5, 02-Feb-2026 17:26:42 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCVO 410-764500/1 Calibration Date: 02/04/2026 08:54

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04-2005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9286	0.9628		0.259	0.250	4.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9389	0.9906		0.106	0.100	6.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0516	0.0416		0.0807	0.100	-19.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.070	1.089		0.0509	0.0500	2.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.139	1.240		0.0544	0.0500	9.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	1.289	1.420		0.0551	0.0500	10.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.734	1.685		0.0912	0.0938	-3.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.3928	0.4375		0.0557	0.0500	11.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9603	1.247		0.0649	0.0500	30.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1225	0.1108		0.226	0.250	-10.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9056	0.8261		0.0405	0.0444	-9.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	0.7960	0.6350		0.0399	0.0500	-20.0	30.0
Hexafluoropropylene oxide dimer acid (HFPO DA)	AveID	0.9588	0.9018		0.0353	0.0375	-6.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.095	2.223		0.0473	0.0446	6.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9803	1.181		0.0602	0.0500	20.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.269	3.347		0.0484	0.0473	2.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.314	1.346		0.0481	0.0470	2.0	30.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	AveID	2.083	1.799		0.0822	0.0952	-14.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.154	2.205		0.0501	0.0490	2.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.7584	0.9684		0.0638	0.0500	28.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.1114	0.1034		0.232	0.250	-7.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.281	1.463		0.0521	0.0456	14.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.8768	0.999		0.0570	0.0500	14.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.642	1.854		0.108	0.0960	13.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.3327	0.3755		0.0522	0.0462	13.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.207	1.214		0.0480	0.0477	1.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.370	1.302		0.0475	0.0500	-5.0	30.0
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	1.118	1.057		0.0473	0.0500	-5.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCVO 410-764500/1 Calibration Date: 02/04/2026 08:54

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04-2005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.8375	0.8470		0.0506	0.0500	1.0	30.0
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8212	0.7013		0.0427	0.0500	-15.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.442	1.624		0.0524	0.0465	13.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7396	0.8268		0.0559	0.0500	12.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.850	2.857		0.0468	0.0467	0.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.150	1.184		0.0495	0.0481	3.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.8922	1.027		0.0575	0.0500	15.0	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9173	0.9693		0.0528	0.0500	6.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.170	1.208		0.0498	0.0482	3.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	1.214	1.230		0.0506	0.0500	1.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	2.203	2.332		0.0500	0.0472	6.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1745	0.1622		0.0465	0.0500	-7.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.6932	0.7468		0.0523	0.0485	8.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	2.687	3.098		0.288	0.250	15.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	1.023	1.059		0.0517	0.0500	3.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	3.951	3.622		0.229	0.250	-8.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9421	1.003		0.0533	0.0500	7.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9489	0.9206		0.0485	0.0500	-3.0	30.0
13C3-PFPrA	Ave	0.7248	0.7016		1.94	2.00	-3.0	30.0
13C4 PFBA	Ave	1.208	1.206		2.00	2.00	0.0	30.0
13C5 PFPeA	Ave	0.8198	0.8878		2.17	2.00	8.0	30.0
M2-4:2 FTS	Ave	0.2529	0.2433		4.51	4.69	-4.0	30.0
13C5 PFHxA	Ave	1.156	1.189		2.06	2.00	3.0	30.0
13C3 PFBS	Ave	1.273	1.360		1.99	1.86	7.0	30.0
13C3 HFPO-DA	Ave	0.7911	0.8714		2.20	2.00	10.0	30.0
13C4 PFHpA	Ave	1.133	1.207		2.13	2.00	7.0	30.0
M2-6:2 FTS	Ave	0.1501	0.1545		4.90	4.76	3.0	30.0
13C8 PFOA	Ave	1.000	0.9410		1.88	2.00	-6.0	30.0
13C3 PFHxS	Ave	1.001	1.013		1.92	1.90	1.0	30.0
13C9 PFNA	Ave	1.004	1.022		2.04	2.00	2.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCVO 410-764500/1 Calibration Date: 02/04/2026 08:54

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04-2005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
M2-8:2 FTS	Ave	0.1462	0.1442		4.74	4.80	-1.0	30.0
d3-NMeFOSAA	Ave	0.3721	0.3983		5.35	5.00	7.0	30.0
13C6 PFDA	Ave	1.020	1.012		1.99	2.00	-1.0	30.0
d5-NEtFOSAA	Ave	0.3287	0.3737		5.68	5.00	14.0	30.0
13C8 PFOS	Ave	0.9257	0.9515		1.97	1.92	3.0	30.0
13C7 PFUnA	Ave	1.226	1.183		1.93	2.00	-4.0	30.0
13C2 PFDoA	Ave	1.087	1.037		1.91	2.00	-5.0	30.0
13C8 FOSA	Ave	1.143	1.082		1.89	2.00	-5.0	30.0
13C2 PFTeDA	Ave	0.6001	0.6619		2.21	2.00	10.0	30.0
d7-N-MeFOSE-M	Ave	0.1675	0.1688		5.04	5.00	1.0	30.0
d3-NMePFOSA	Ave	0.2599	0.2583		1.99	2.00	-1.0	30.0
d9-N-EtFOSE-M	Ave	0.1704	0.1861		5.46	5.00	9.0	30.0
d5-NEtPFOSA	Ave	0.3171	0.3177		2.00	2.00	0.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-2005.d
Lims ID: CCVO 1_CAL1
Client ID:
Sample Type: CCVO
Inject. Date: 04-Feb-2026 08:54:06 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCVO 1_CAL1
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 14:07:23 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1721

First Level Reviewer: P7EB Date: 04-Feb-2026 09:32:34
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										M
163.00 > 119.00	2.107	2.098	0.009	1.000	187570	0.2592		104	77.3	M
D 2 13C3PFPrA										
166.00 > 121.00	2.107	2.114	-0.007	0.482	1558577	1.94		96.8	925	
5 PFBA										
212.80 > 168.90	4.362	4.330	0.032	0.998	132680	0.1055		106	276	
D 6 13C4-PFBA										
216.80 > 171.90	4.370	4.338	0.032	1.000	2678725	2.00		99.8	7092	
* 7 13C3PFBA										
216.00 > 172.00	4.370	4.338	0.032		2221376	2.00			4827	
9 PFMPA										
229.00 > 84.90	4.665	4.627	0.038	0.935	54317	0.0509		102	213	
10 3:3 FTCA										
241.00 > 177.00	4.665	4.637	0.028	0.935	4153	0.0807	Target=1.28	80.7	132	
241.00 > 117.00	4.665	4.637	0.028	0.935	4669		0.89(0.64-1.92)		66.7	
D 11 13C5 PFPeA										
268.30 > 223.00	4.989	4.955	0.034	0.917	1994389	2.17		108	4547	
12 PFPA										
263.00 > 219.00	4.989	4.968	0.021	1.000	61841	0.0544		109	102	
13 PFMBA										
279.00 > 85.10	5.142	5.112	0.030	1.031	70803	0.0551		110	321	
15 4:2FTS										
327.10 > 307.00	5.260	5.240	0.020	1.000	36121	0.0912	Target=1.67	97.2	313	
327.10 > 80.90	5.272	5.240	0.032	1.002	26476		1.36(0.83-2.50)		44.1	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.260	5.240	0.020	0.815	1071587	4.51		96.2	7301	

Report Date: 04-Feb-2026 14:07:29 Chrom Revision: 2.3 29-Jan-2026 10:42:58
Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-2005.d
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.413	5.378	0.035	0.995	29221	0.0557	Target=1.57	111	175	
295.00 > 84.90	5.413	5.378	0.035	0.995	18865		1.55(0.78-2.35)		107	
D 17 13C5 PFHxA										
318.00 > 273.00	5.442	5.418	0.024	1.000	2671352	2.06		103	14539	
* 18 13C2 PFHxA										
315.10 > 270.00	5.442	5.432	0.010		5616173	5.00			8434	
19 PFHxA										
313.00 > 269.00	5.456	5.432	0.024	1.003	83275	0.0649	Target=12.08	130	183	
313.00 > 118.90	5.456	5.432	0.024	1.003	9713		8.57(6.04-18.11)		54.9	
22 5:3 FTCA										
341.00 > 237.10	5.524	5.500	0.024	1.015	37002	0.2262	Target=0.89	90.5	124	
341.00 > 217.00	5.524	5.500	0.024	1.015	44425		0.83(0.45-1.34)		235	
21 PFBS										
298.70 > 79.90	5.578	5.568	0.010	1.000	46842	0.0405	Target=3.03	91.2	322	
298.70 > 98.80	5.578	5.568	0.010	1.000	20265		2.31(1.52-4.55)		140	
D 20 13C3 PFBS										
302.10 > 79.90	5.578	5.568	0.010	0.864	2380410	1.99		107	17173	
28 FBSA										
297.90 > 78.00	5.607	5.582	0.025	1.005	40549	0.0399		79.8	248	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.636	5.611	0.025	1.036	1957617	2.20		110	6873	
24 HFPO-DA										
284.90 > 168.90	5.636	5.611	0.025	1.000	33101	0.0353	Target=2.32	94.1	162	
284.90 > 184.90	5.636	5.611	0.025	1.000	15962		2.07(1.16-3.48)		76.9	
25 PFEESA										
314.80 > 134.90	5.816	5.791	0.025	1.069	132451	0.0473	Target=13.29	106	877	
314.80 > 82.90	5.816	5.791	0.025	1.069	8357		15.85(6.64-19.93)		57.4	
27 PFHpA										
363.10 > 319.00	5.854	5.845	0.009	0.998	80016	0.0602	Target=2.38	120	161	
363.10 > 169.00	5.866	5.845	0.021	1.000	33117		2.42(1.19-3.58)		138	
D 26 13C4 PFHpA										
367.10 > 322.00	5.866	5.845	0.021	1.078	2710979	2.13		107	4592	
29 ADONA										
376.90 > 250.90	6.007	5.988	0.019	1.066	154947	0.0484	Target=1.85	102	406	
376.90 > 84.80	6.007	5.988	0.019	1.066	84161		1.84(0.92-2.77)		327	
32 PFPeS										
349.10 > 79.90	6.041	6.033	0.008	0.936	60137	0.0481	Target=3.35	102	248	
349.10 > 98.90	6.041	6.033	0.008	0.936	15937		3.77(1.68-5.03)		67.7	
31 6:2FTS										
427.10 > 407.00	6.053	6.033	0.019	1.002	24850	0.0822	Target=1.88	86.4	105	
427.10 > 80.90	6.041	6.033	0.008	1.000	16673		1.49(0.94-2.83)		97.4	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.041	6.033	0.008	0.936	690647	4.90		103	4406	
33 BTS										
280.00 > 147.00	6.186	6.189	-0.003	0.958	102637	0.0501		102	641	
D 35 13C8 PFOA										
421.10 > 376.00	6.241	6.233	0.008	1.000	3362177	1.88		94.1	7734	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.241	6.233	0.008		8932058	5.00			11225	
36 PFOA										
413.00 > 369.00	6.254	6.233	0.021	1.002	81400	0.0638	Target=2.16	128	4738	
413.00 > 169.00	6.241	6.233	0.008	1.000	34659		2.35(1.08-3.25)		4235	
39 7:3 FTCA										
441.00 > 316.90	6.304	6.296	0.008	1.158	34527	0.2321	Target=0.79	92.8	171	
441.00 > 336.90	6.316	6.296	0.020	1.161	45175		0.76(0.39-1.18)		215	
40 PFHxS										
398.70 > 79.90	6.455	6.460	-0.005	1.000	63451	0.0521	Target=3.45	114	138	
398.70 > 98.90	6.455	6.460	-0.005	1.000	19753		3.21(1.73-5.18)		53.0	
* 38 18O2 PFHxS										
403.00 > 83.90	6.455	6.460	-0.005		1780479	1.90			7203	
D 37 13C3 PFHxS										
402.10 > 79.90	6.455	6.460	-0.005	1.000	1802787	1.92		101	6584	
43 PFNA										
463.00 > 419.00	6.627	6.620	0.007	1.000	78999	0.0570	Target=2.87	114	8160	
463.00 > 219.00	6.615	6.620	-0.005	0.998	23851		3.31(1.44-4.31)		36.5	
D 42 13C9 PFNA										
472.10 > 427.00	6.627	6.620	0.007	1.000	3163925	2.04		102	7551	
* 41 13C5 PFNA										
468.00 > 423.00	6.627	6.620	0.007		3095578	2.00			7002	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.796	6.790	0.006	1.053	649932	4.74		98.6	3788	
45 8:2FTS										
527.10 > 507.00	6.796	6.790	0.006	1.000	24095	0.1084	Target=1.57	113	158	
527.10 > 80.80	6.796	6.790	0.006	1.000	13945		1.73(0.79-2.36)		5002	
46 PFECHS										
461.00 > 381.00	6.819	6.824	-0.005	1.056	16497	0.0522	Target=0.30	113	86.8	
461.00 > 99.00	6.819	6.824	-0.005	1.056	48878		0.34(0.15-0.45)		153	
47 PFHpS										
449.00 > 79.90	6.853	6.857	-0.004	0.945	48440	0.0480	Target=3.53	101	216	
449.00 > 98.80	6.853	6.857	-0.004	0.945	14654		3.31(1.76-5.29)		4880	
53 FHxSA										
397.90 > 78.00	6.886	6.869	0.017	1.067	61884	0.0475		95.0	263	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.947	6.940	0.007	0.958	1751166	5.35		107	1706	
49 NMeFOSAA										
570.10 > 419.00	6.947	6.940	0.007	1.000	18511	0.0473	Target=1.75	94.6	29.6	
570.10 > 483.00	6.934	6.940	-0.006	0.998	14213		1.30(0.87-2.62)		25.9	
D 50 13C6 PFDA										
519.10 > 474.10	7.008	7.015	-0.007	1.000	3292481	1.98		99.2	6952	
* 52 13C2 PFDA										
515.10 > 470.10	7.008	7.015	-0.007		3252262	2.00			8833	
51 PFDA										
512.90 > 469.00	7.008	7.015	-0.007	1.000	69722	0.0506	Target=4.54	101	234	
512.90 > 219.00	7.008	7.015	-0.007	1.000	14718		4.74(2.27-6.81)		63.5	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.117	7.124	-0.007	0.982	1642868	5.68		114	3153	
55 NEtFOSAA										
584.20 > 419.10	7.131	7.124	0.006	1.002	11522	0.0427	Target=1.38	85.4	17.4	
584.20 > 526.00	7.117	7.124	-0.007	1.000	10765		1.07(0.69-2.07)		21.1	
58 PFOS										
498.90 > 79.90	7.248	7.255	-0.007	1.000	63193	0.0524	Target=4.26	113	16659	
498.90 > 98.80	7.248	7.255	-0.007	1.000	12943		4.88(2.13-6.40)		25.8	
D 56 13C8 PFOS										
507.10 > 79.90	7.248	7.267	-0.019	1.000	1602961	1.97		103	3228	
* 57 13C4 PFOS										
502.80 > 79.90	7.248	7.267	-0.019		1684598	1.92			11600	
D 59 13C7 PFUnA										
570.00 > 525.10	7.393	7.409	-0.016	1.055	3847304	1.93		96.5	10627	
60 PFUnA										
563.10 > 519.00	7.393	7.409	-0.016	1.000	79523	0.0559	Target=5.23	112	377	
563.10 > 269.10	7.393	7.409	-0.016	1.000	14595		5.45(2.62-7.85)		115	
61 9ClFOS										
530.80 > 351.00	7.551	7.566	-0.015	1.042	111630	0.0468	Target=3.05	100	1282	
532.80 > 353.00	7.551	7.566	-0.015	1.042	34696		3.22(1.53-4.58)		137	
62 PFNS										
548.80 > 79.90	7.642	7.656	-0.014	1.054	47654	0.0495	Target=3.70	103	582	
548.80 > 98.80	7.642	7.656	-0.014	1.054	12317		3.87(1.85-5.56)		142	
D 81 PFDoA										
615.10 > 570.00	7.776	7.801	-0.025	1.110	3373220	1.91		95.4	2418	
63 PFDoA										
613.10 > 569.00	7.776	7.801	-0.025		86600	0.0575	Target=5.66	115	408	
613.10 > 319.00	7.776	7.801	-0.025		14268		6.07(2.83-8.49)		131	
64 PFOSA										M
498.10 > 77.90	7.962	7.947	0.015	0.999	46098	0.0528	Target=43.43	106	5534	M
498.10 > 478.00	7.844	7.947	-0.103	0.984	964		47.82(21.71-65.14)		1.5	M
D 65 13C8 FOSA										
506.10 > 77.80	7.973	7.957	0.016	1.100	1902333	1.89		94.6	7138	
66 PFDS										
599.00 > 79.90	8.004	8.031	-0.027	1.104	48719	0.0498	Target=3.54	103	552	
599.00 > 98.80	8.004	8.031	-0.027	1.104	13089		3.72(1.77-5.31)		208	
67 PFTrDA										
663.00 > 619.00	8.138	8.170	-0.032	0.961	84978	0.0506	Target=5.76	101	311	
663.00 > 168.90	8.138	8.170	-0.032	0.961	15524		5.47(2.88-8.64)		167	
68 11ClFOS										
630.90 > 450.90	8.269	8.314	-0.045	1.141	92092	0.0500	Target=3.06	106	1463	
632.90 > 452.90	8.269	8.314	-0.045	1.141	28442		3.24(1.53-4.59)		219	
70 PFTeDA										
713.10 > 168.90	8.470	8.494	-0.024	1.000	8728	0.0465	Target=1.07	92.9	124	
713.10 > 219.00	8.455	8.494	-0.039	0.998	8166		1.07(0.54-1.61)		125	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.470	8.494	-0.024	1.209	2152745	2.21		110	5254	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.628	8.667	-0.039	1.190	30304	0.0523	Target=4.17	108	389	
699.10 > 98.80	8.628	8.667	-0.039	1.190	8046		3.77(2.09-6.26)		165	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.742	8.723	0.019	1.206	742156	5.04		101	599	
72 N-MeFOSE-M										
616.10 > 58.90	8.757	8.737	0.020	1.002	114961	0.2883		115	27994	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.829	8.809	0.020	1.218	454175	1.99		99.4	3417	
75 NMeFOSA										
511.90 > 219.00	8.829	8.809	0.020	1.000	12023	0.0517	Target=0.69	103	111	
511.90 > 169.00	8.829	8.809	0.020	1.000	16242		0.74(0.34-1.03)		56.0	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.916	8.897	0.019	1.230	818064	5.46		109	1285	
77 N-EtFOSE-M										
630.00 > 58.90	8.930	8.911	0.019	1.002	148155	0.2292		91.7	51862	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.986	8.967	0.019	1.240	558671	2.00		100	2482	
79 N-EtFOSA-M										
526.00 > 219.00	8.986	8.981	0.005	1.000	14013	0.0533	Target=0.78	107	151	
526.00 > 169.00	8.986	8.981	0.005	1.000	16820		0.83(0.39-1.17)		147	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.159	9.238	-0.079	1.081	49544	0.0485	Target=11.85	97.0	1336	
913.00 > 169.00	9.159	9.238	-0.079	1.081	3990		12.42(5.92-17.77)		287	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_CAL1_00074 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 14:07:29 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-2005.d

Injection Date: 04-Feb-2026 08:54:06 Instrument ID: 30575

Lims ID: CCVO 1_CAL1

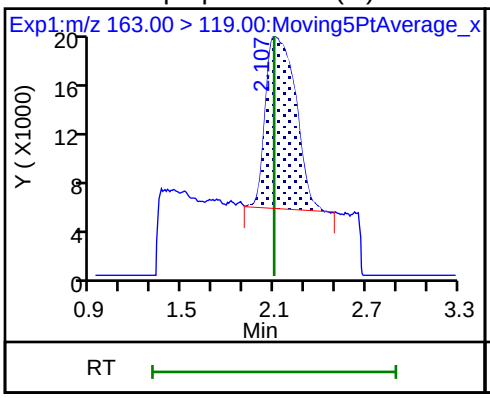
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 2 Worklist Smp#: 1

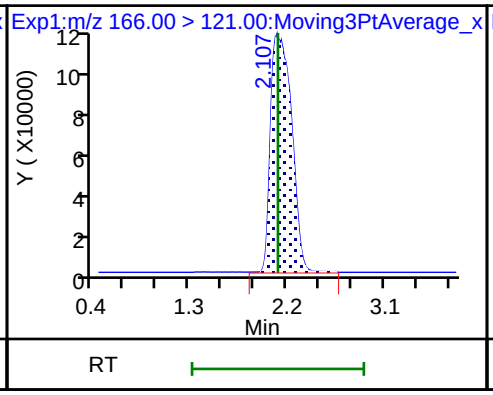
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

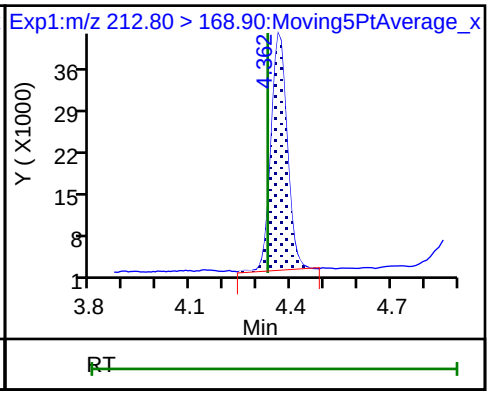
1 Perfluoropropionic acid (M)



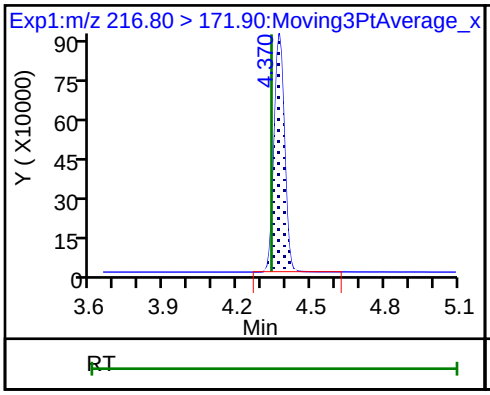
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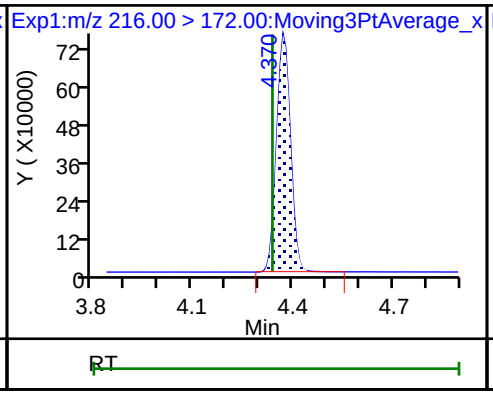
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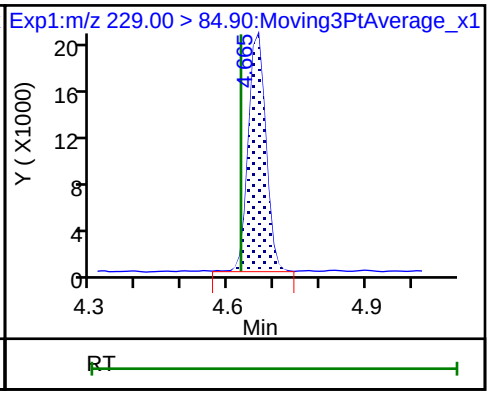
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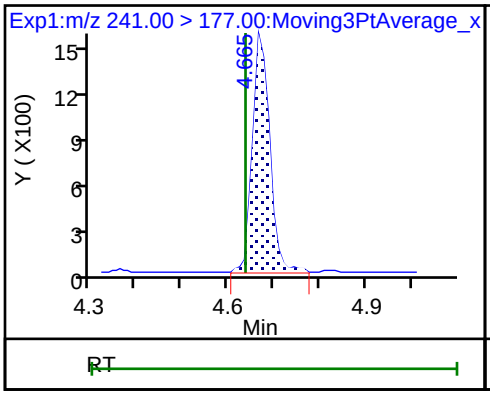
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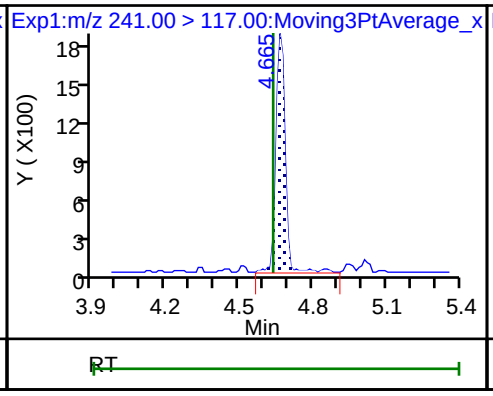
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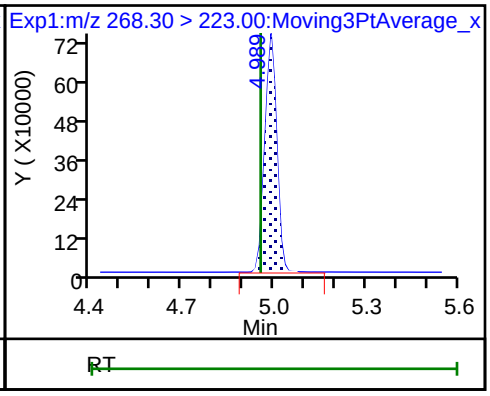
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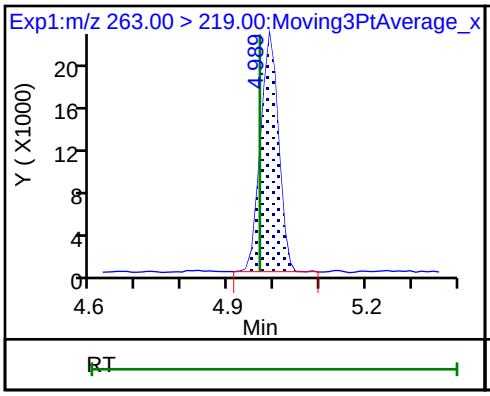
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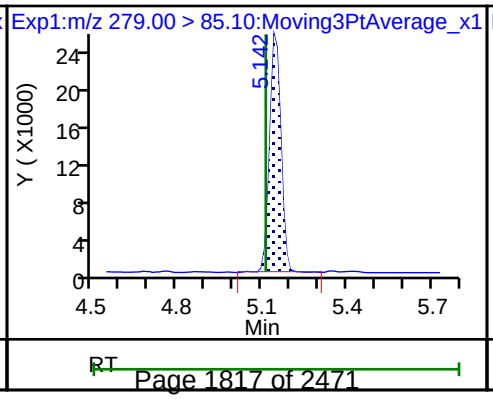
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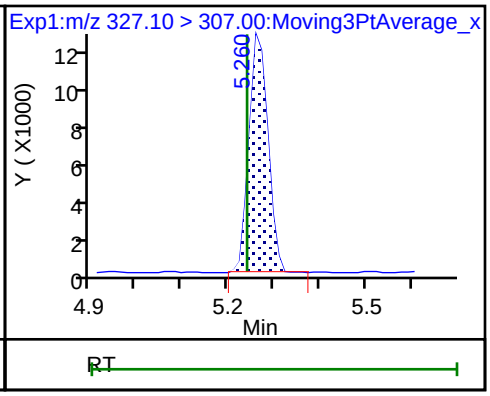
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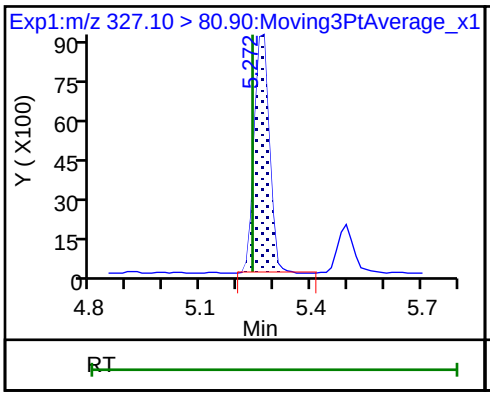
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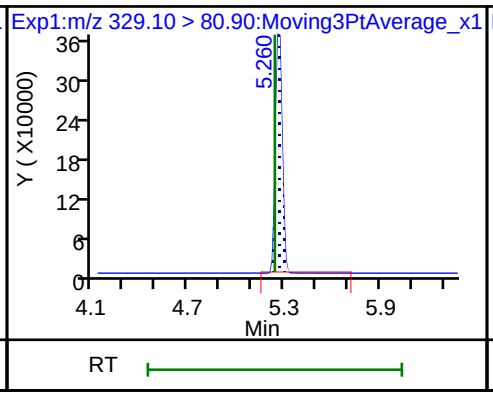
15 4:2FTS



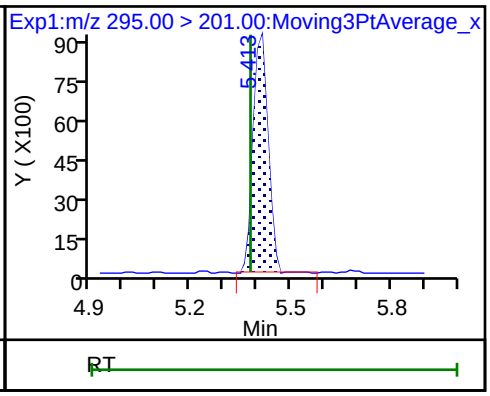
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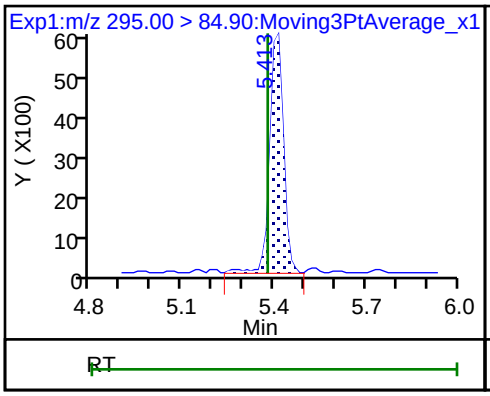
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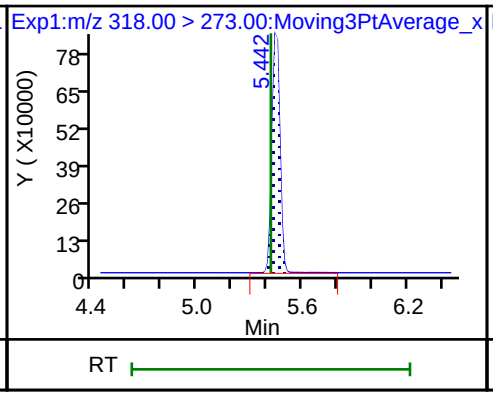
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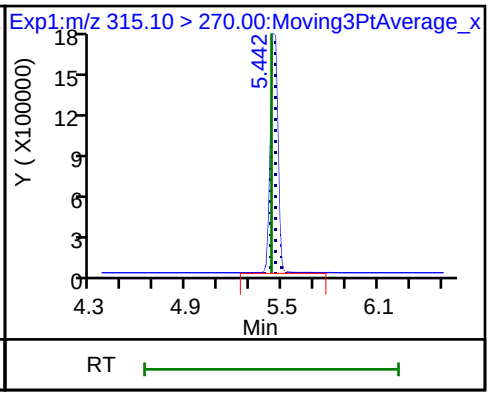
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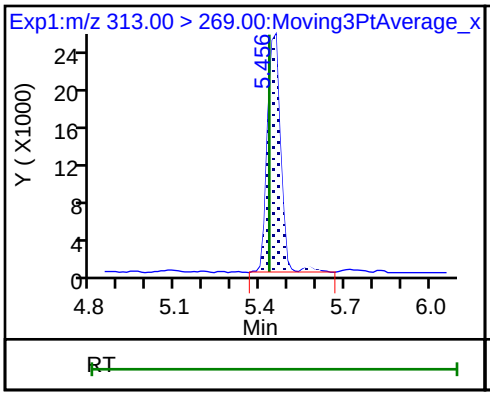
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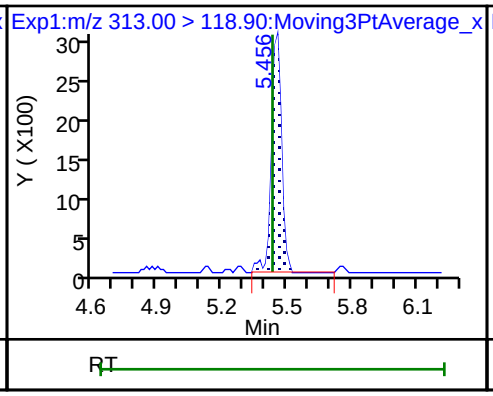
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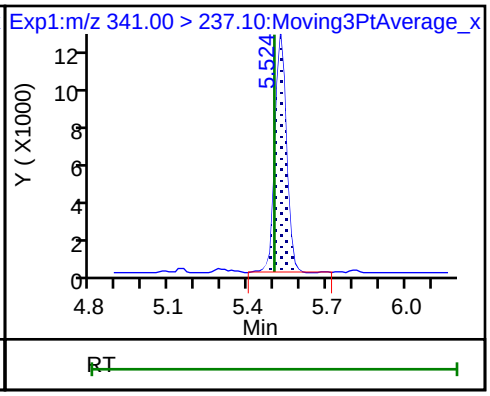
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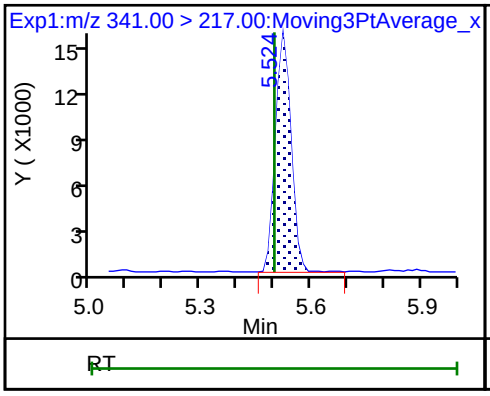
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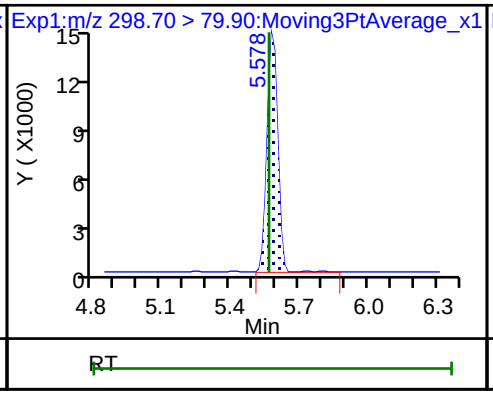
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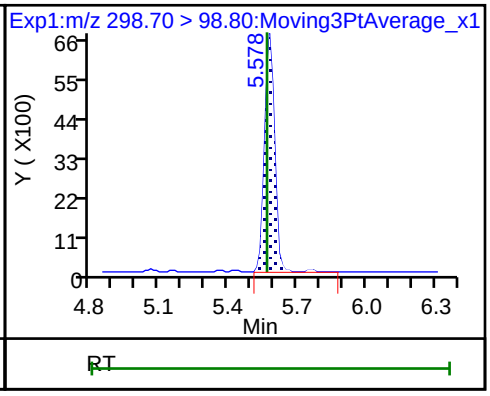
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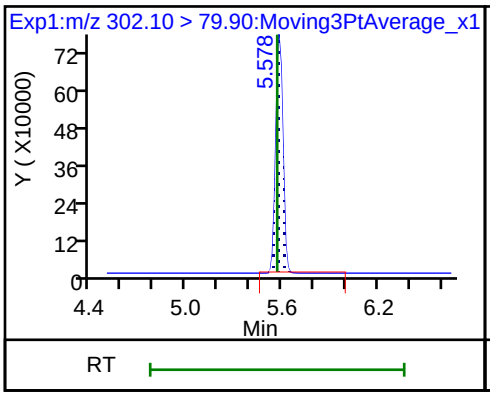
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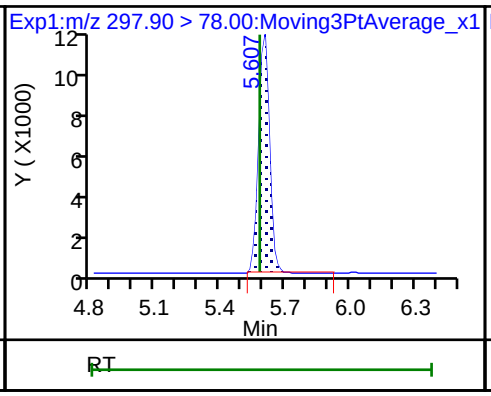
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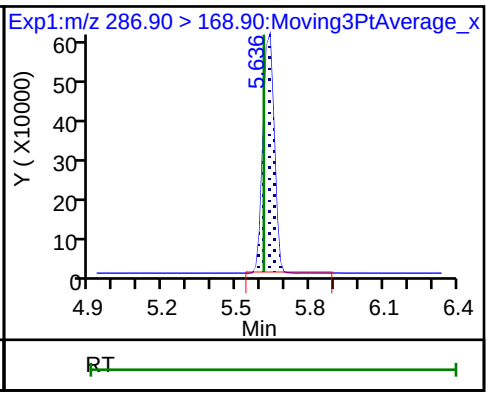
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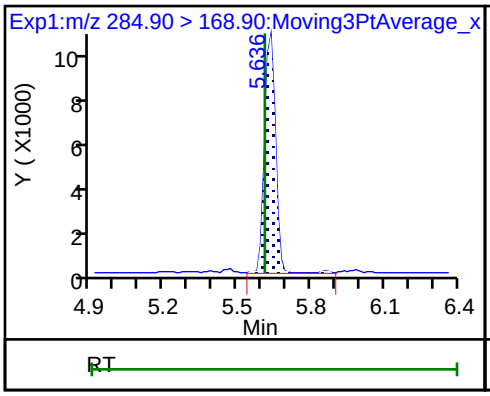
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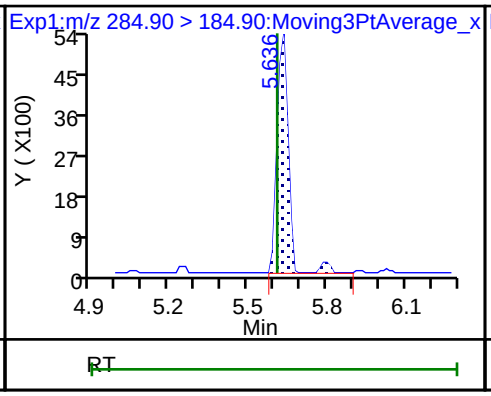
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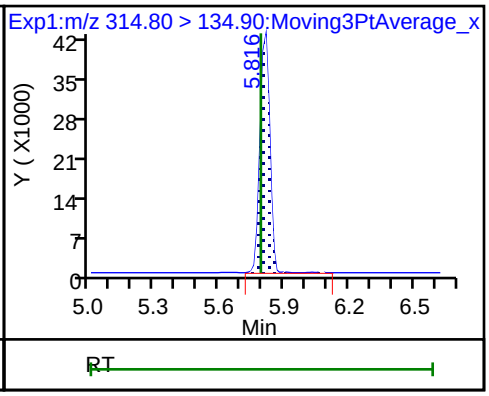
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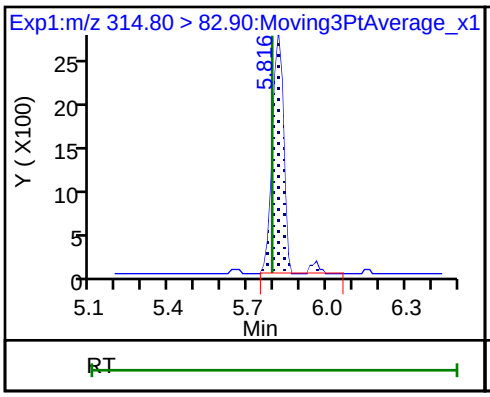
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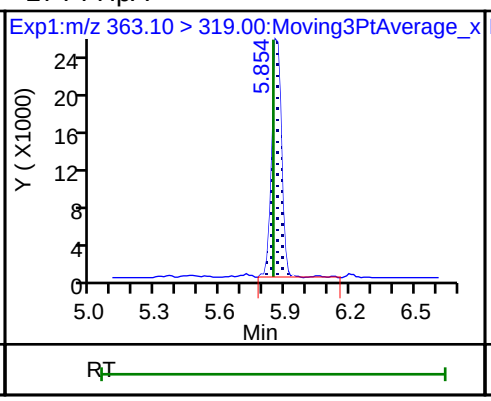
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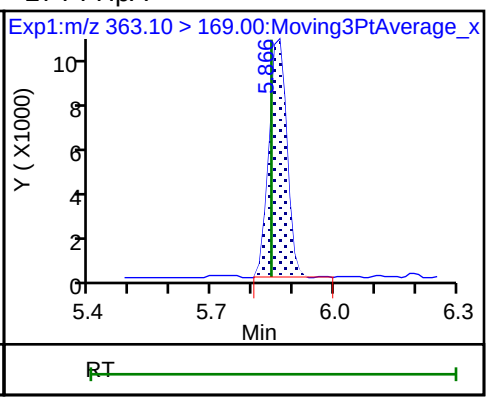
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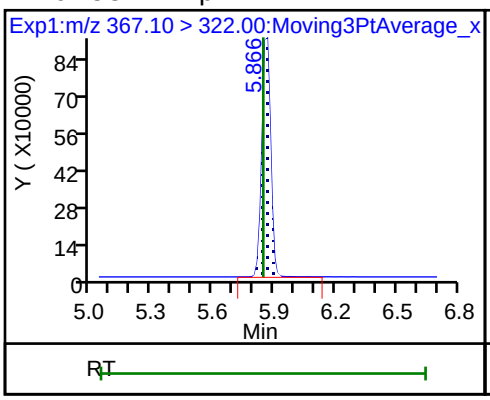
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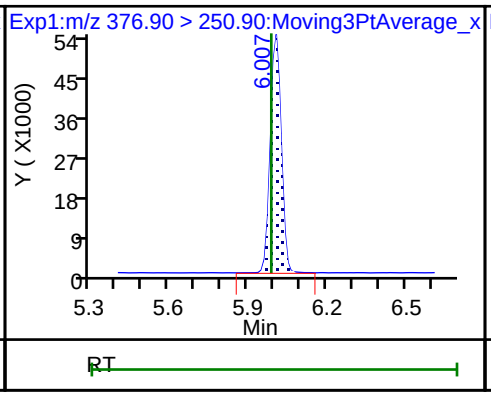
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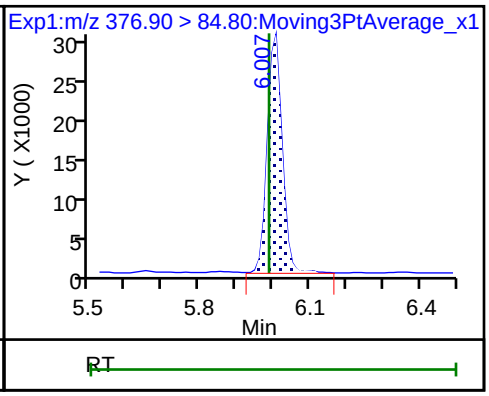
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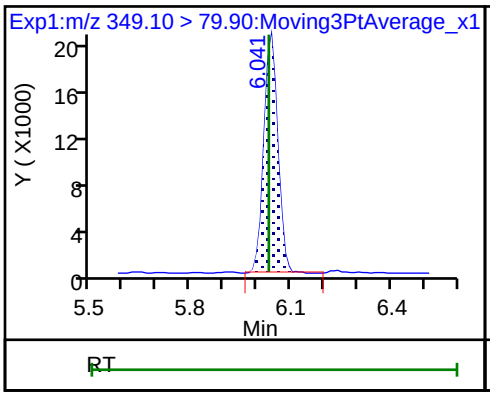
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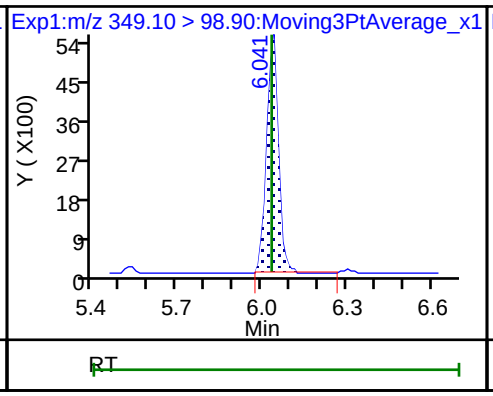
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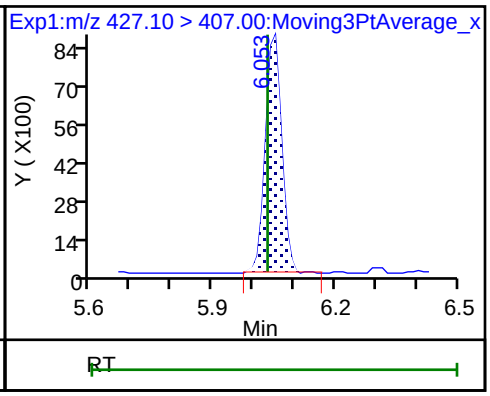
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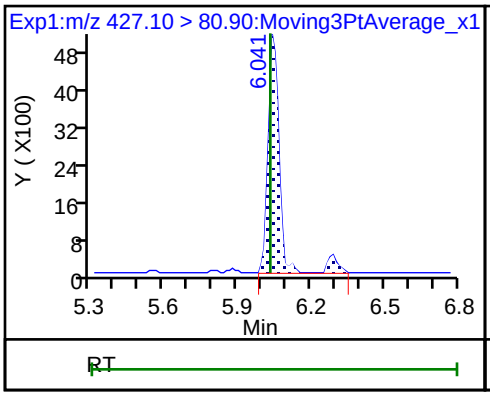
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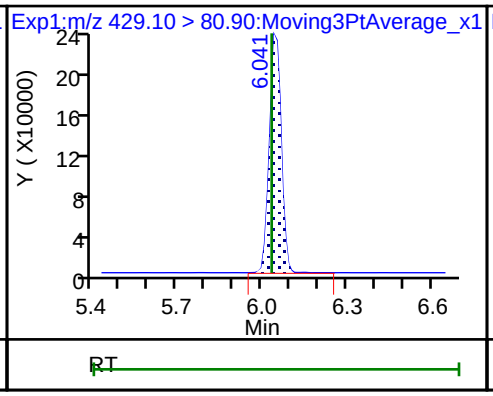
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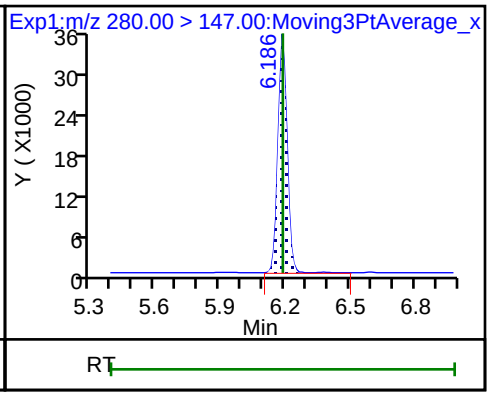
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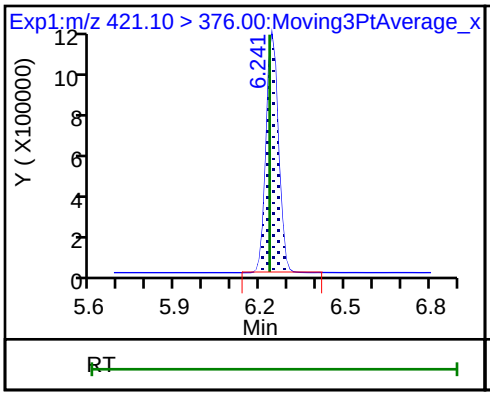
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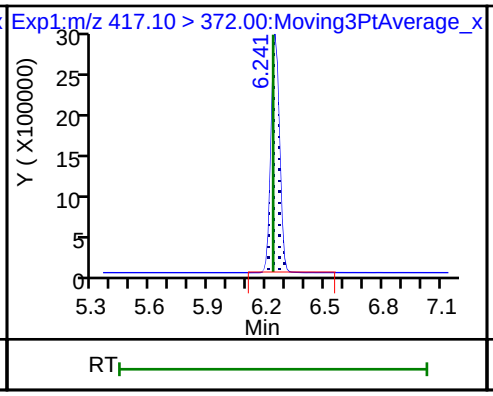
33 BTS



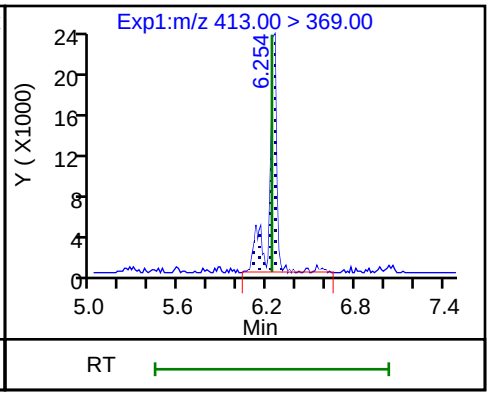
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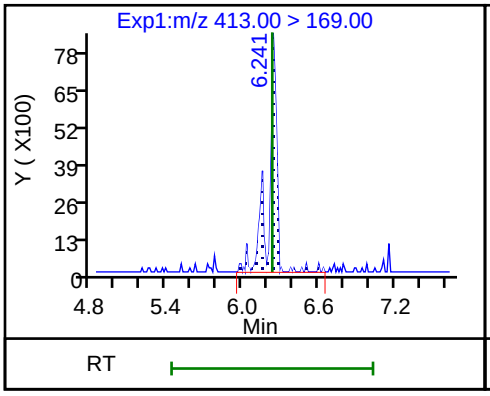
* 34 13C4 PFOA



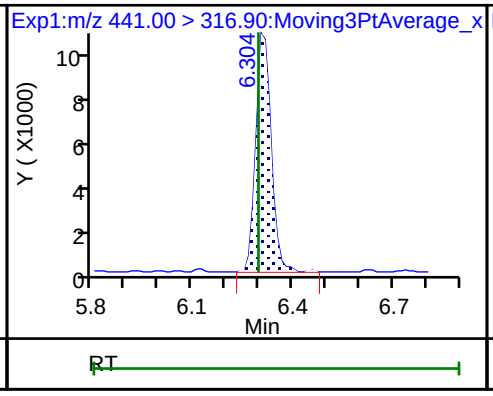
36 PFOA



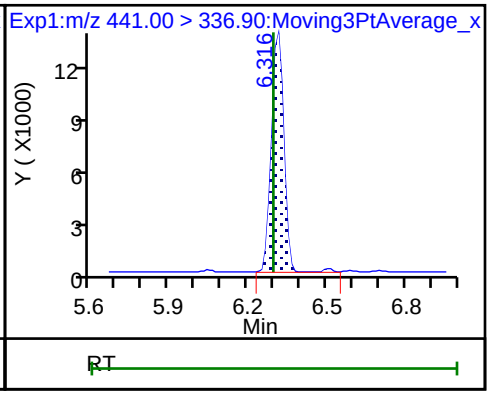
36 PFOA



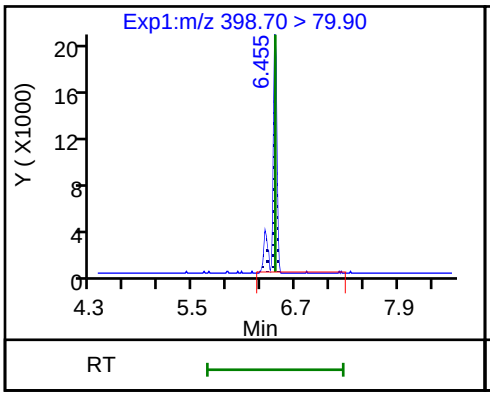
39 7:3 FTCA



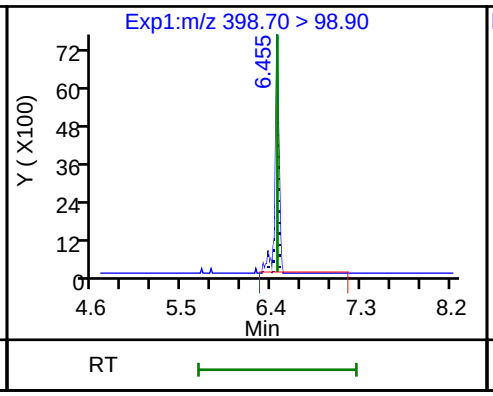
39 7:3 FTCA



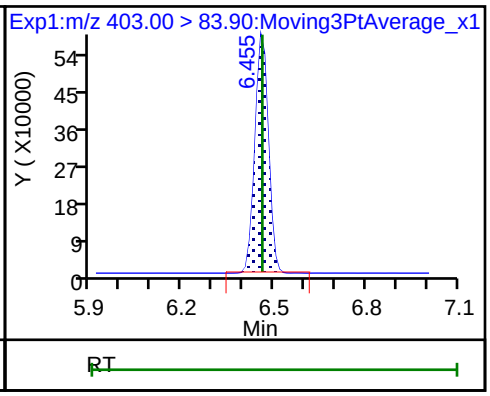
40 PFHxS



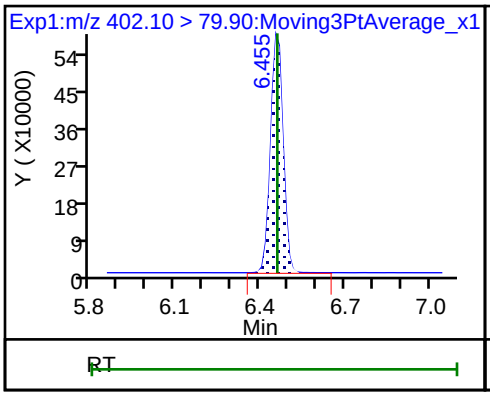
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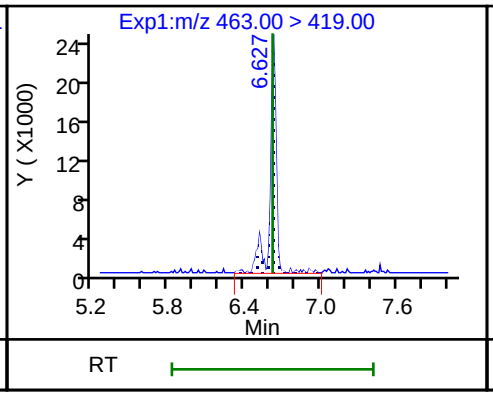
* 38 18O2 PFHxS



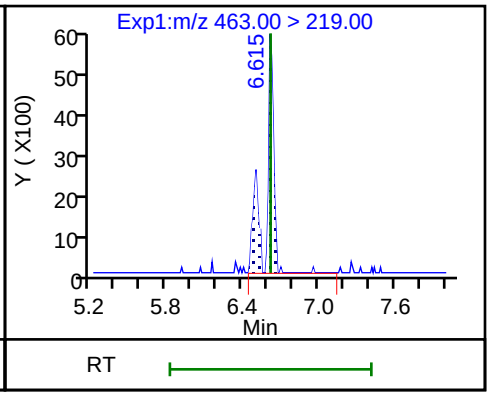
D 37 13C3 PFHxS



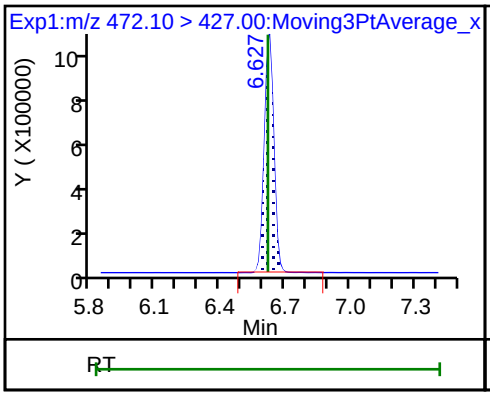
43 PFNA



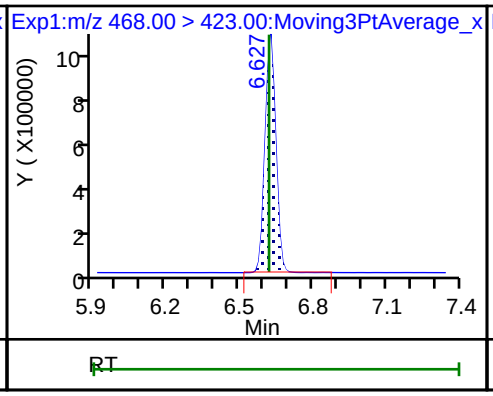
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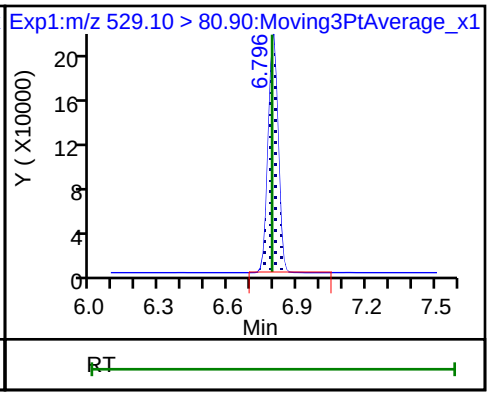
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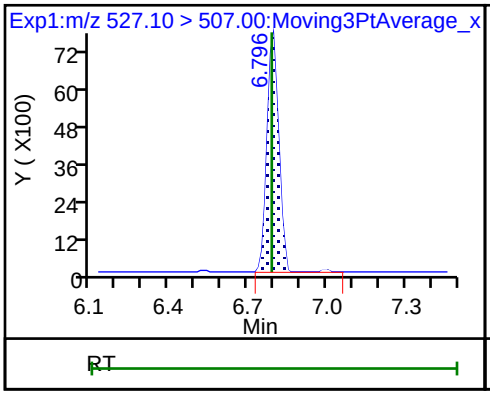
* 41 13C5 PFNA



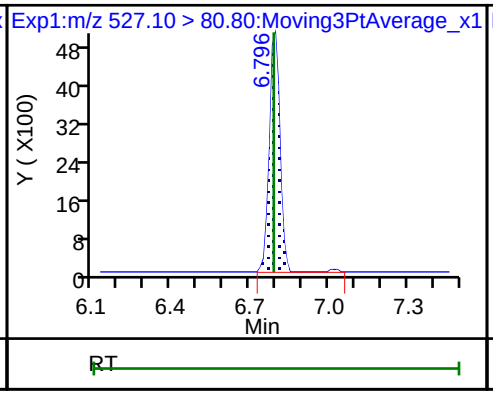
D 44 13C2-8:2FTS



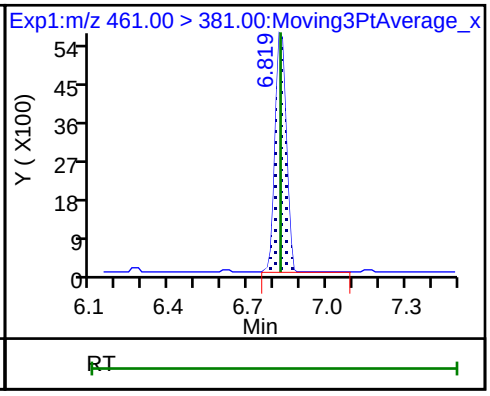
45 8:2FTS



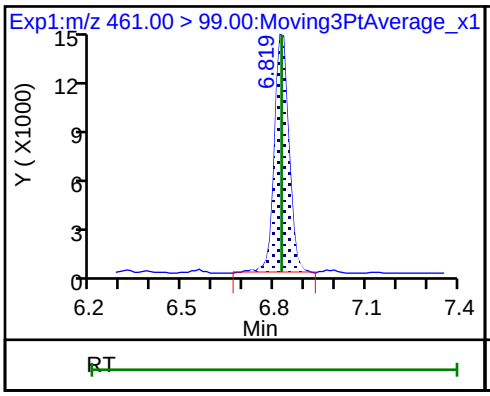
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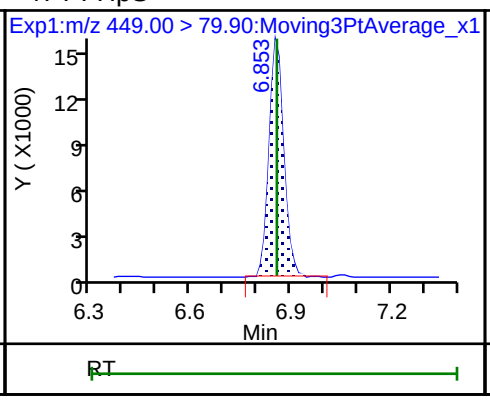
46 PFECHS



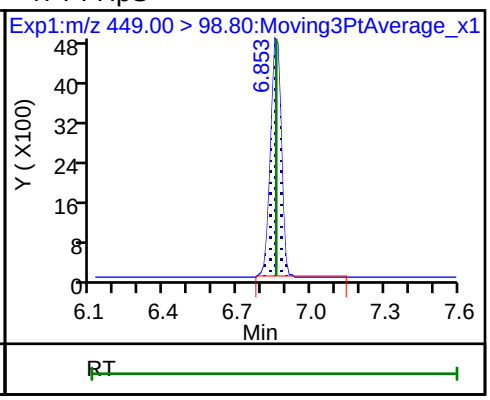
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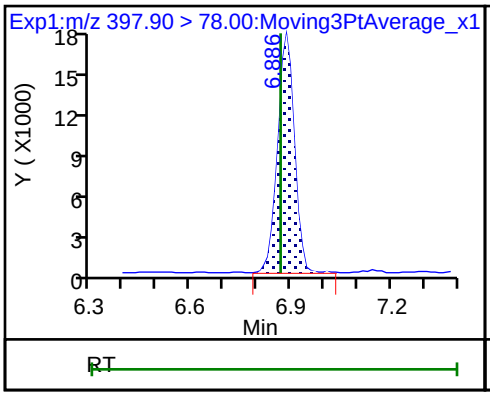
47 PFHpS



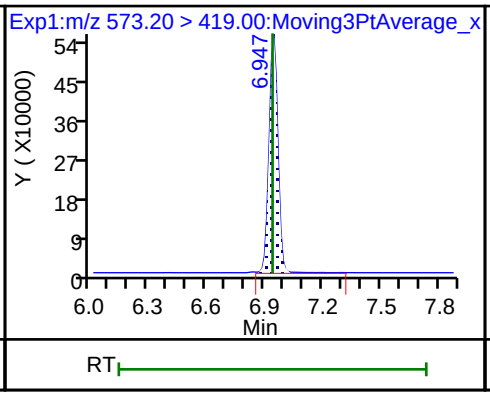
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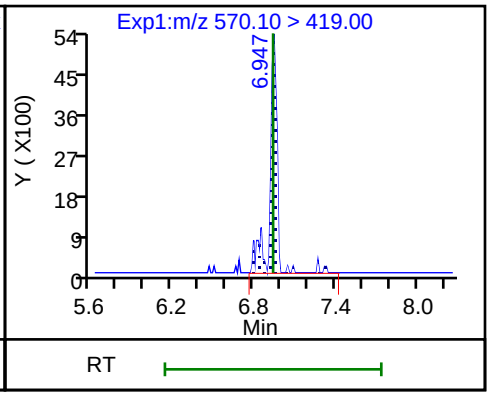
53 FHxSA



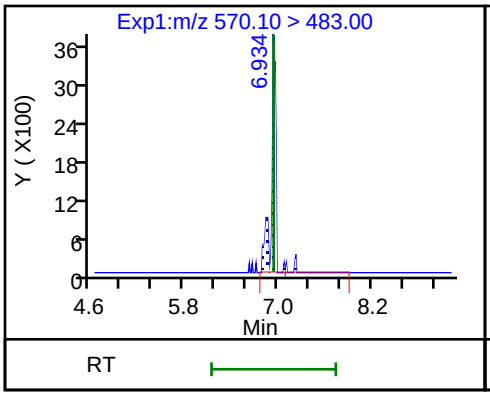
D 48 d3-NMeFOSAA



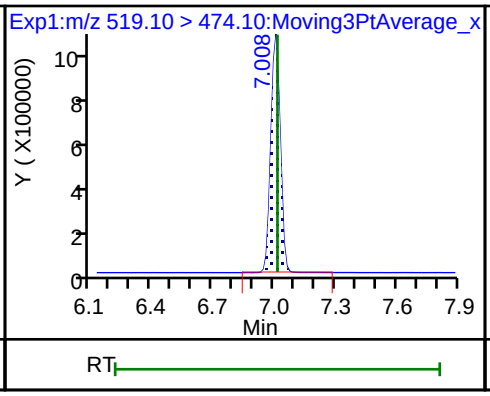
49 NMeFOSAA



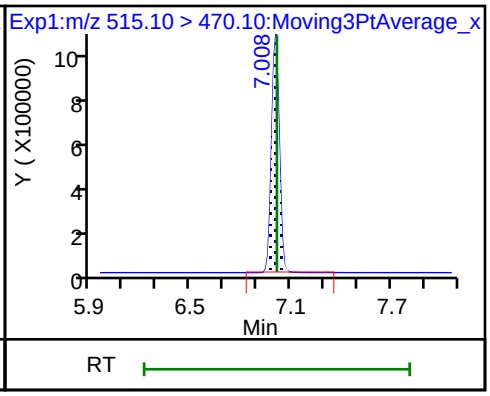
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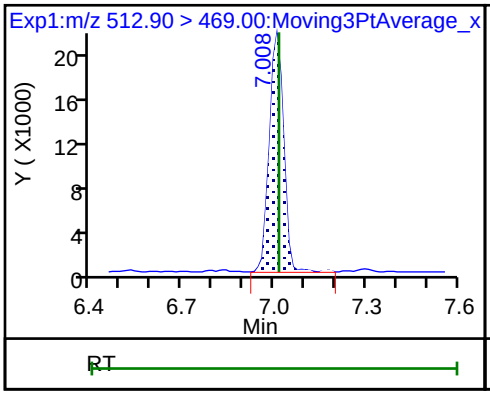
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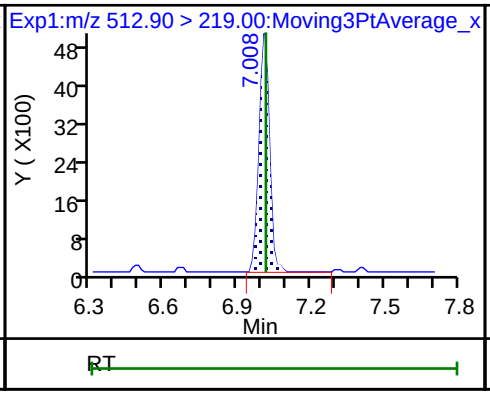
* 52 13C2 PFDA



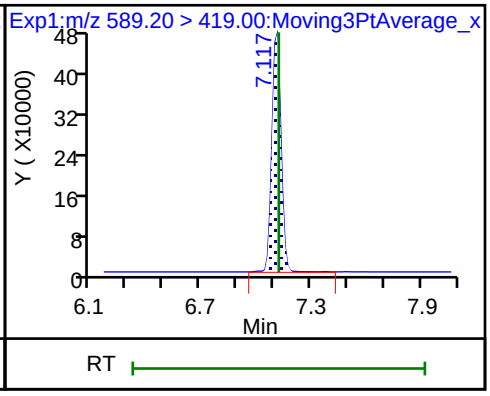
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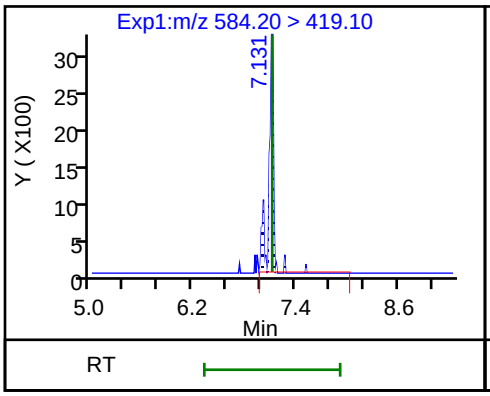
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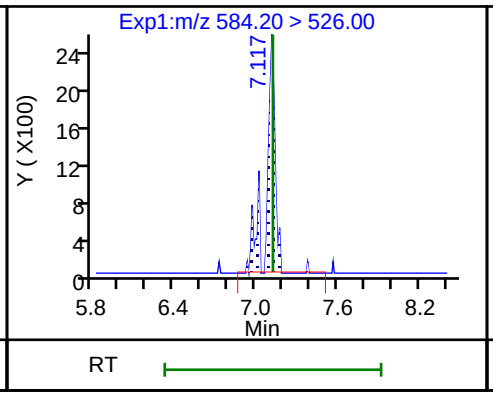
D 54 d5-NEtFOSAA



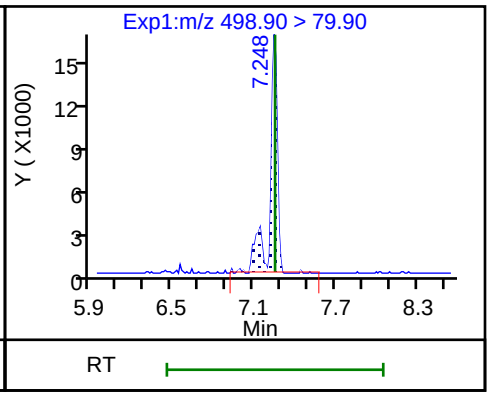
55 NEtFOSAA



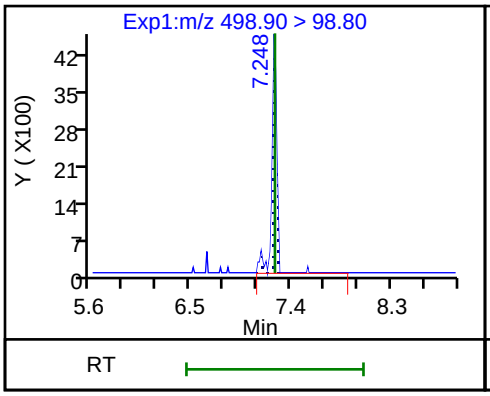
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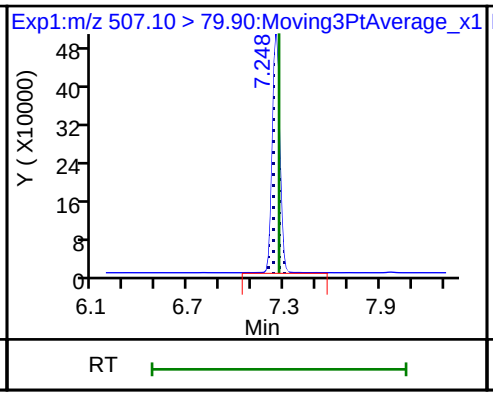
58 PFOS



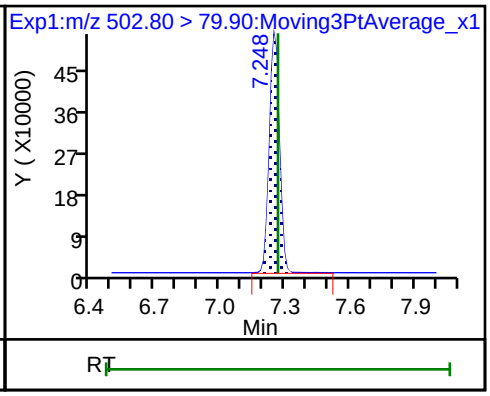
58 PFOS



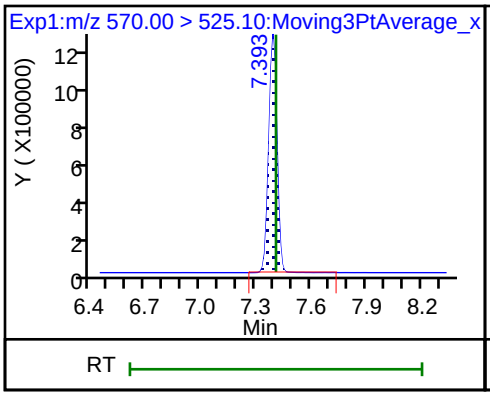
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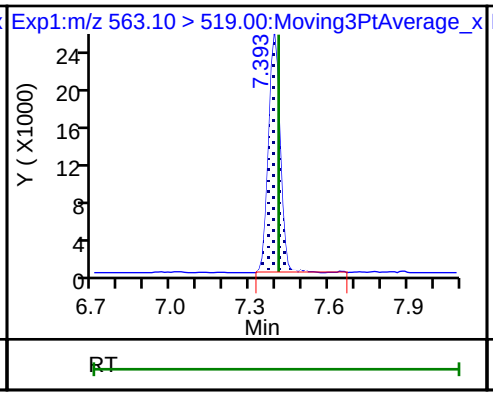
* 57 13C4 PFOS



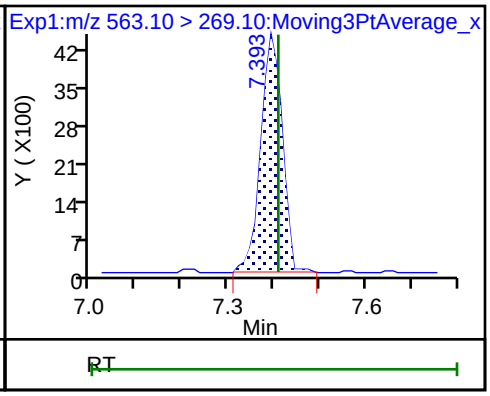
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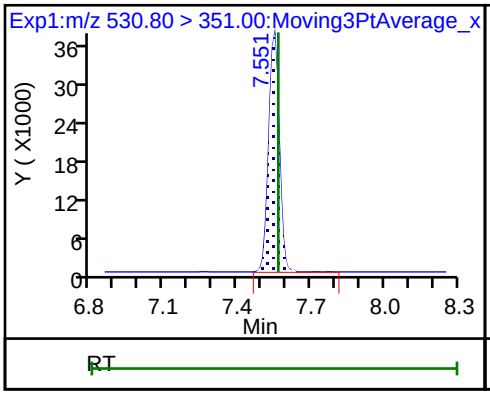
60 PFUnA



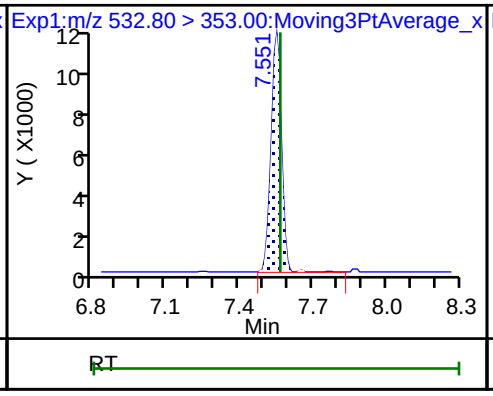
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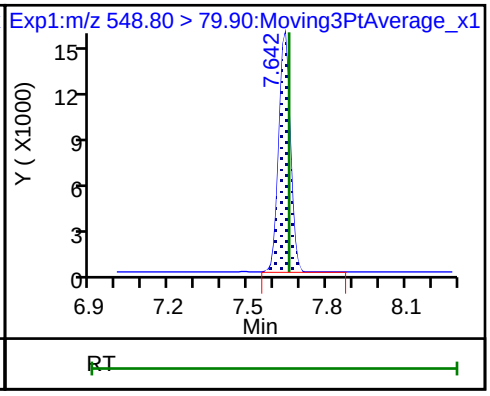
61 9ClFOS



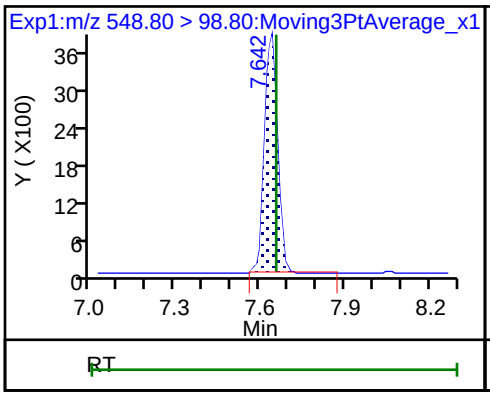
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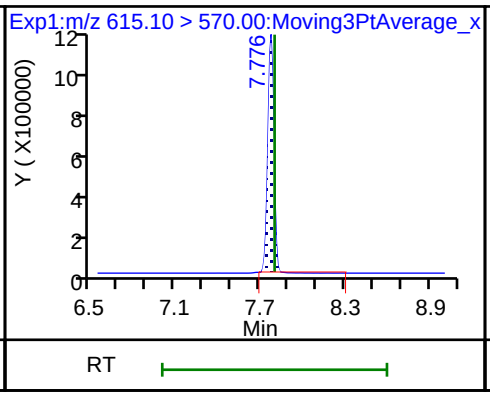
62 PFNS



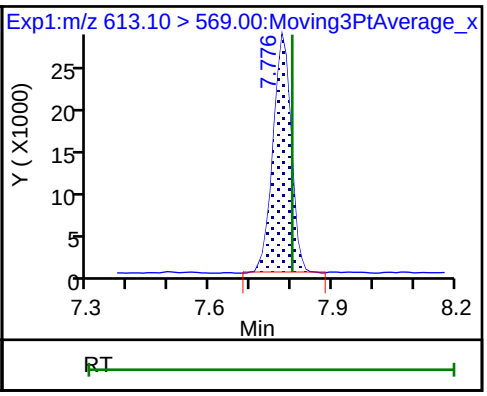
62 PFNS



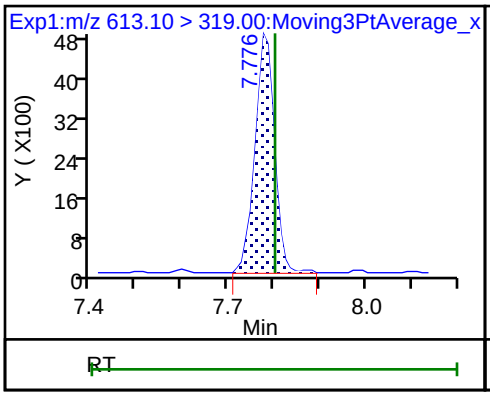
D 81 PFDoA



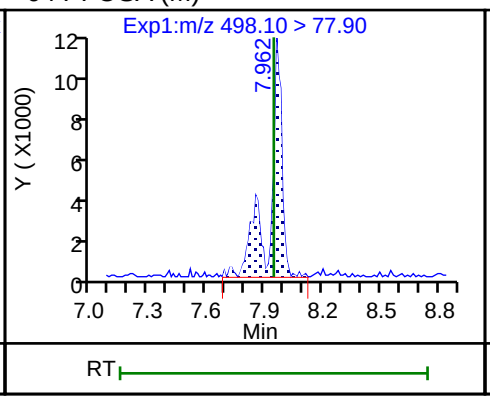
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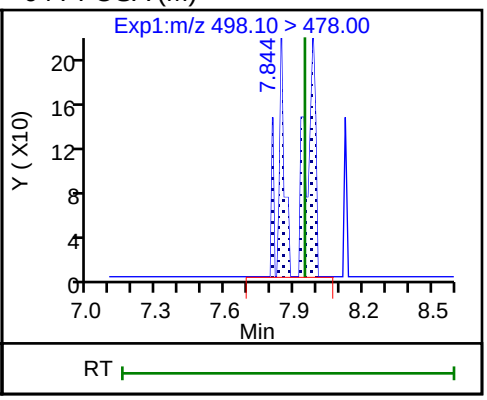
63 PFDoA



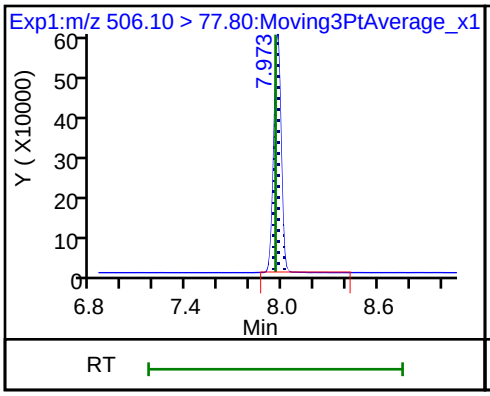
64 PFOSA (M)



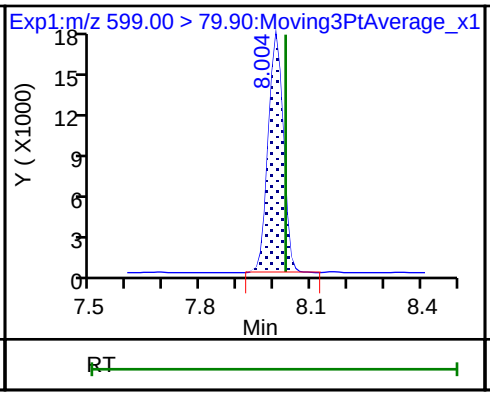
64 PFOSA (M)



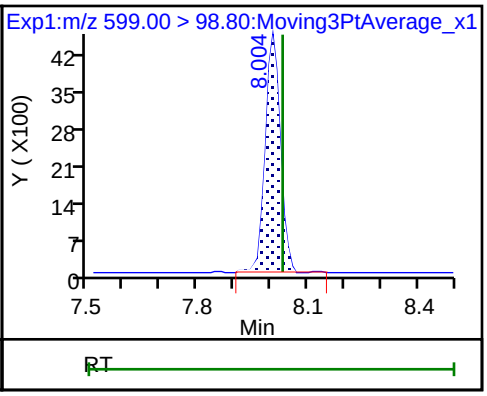
D 65 13C8 FOSA



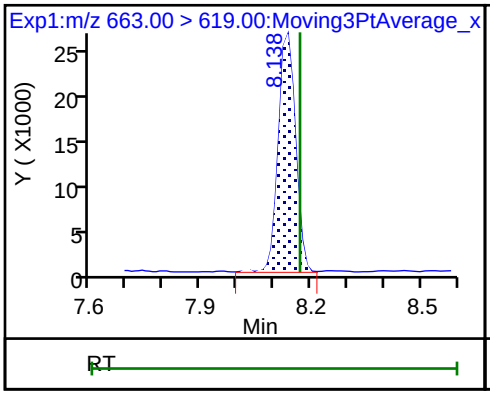
66 PFDS



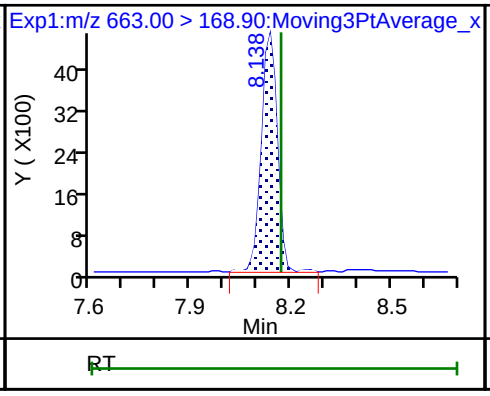
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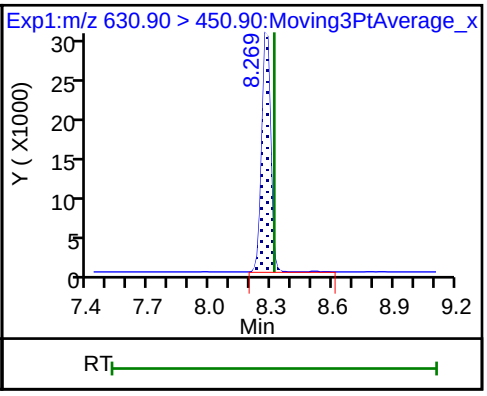
67 PFTrDA



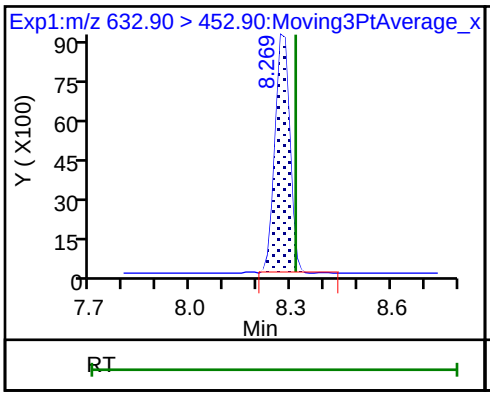
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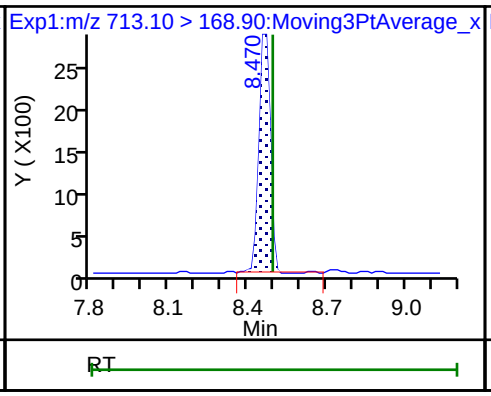
68 11ClFOS



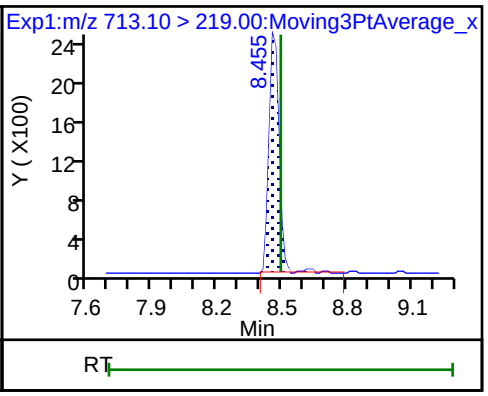
68 11ClFOS



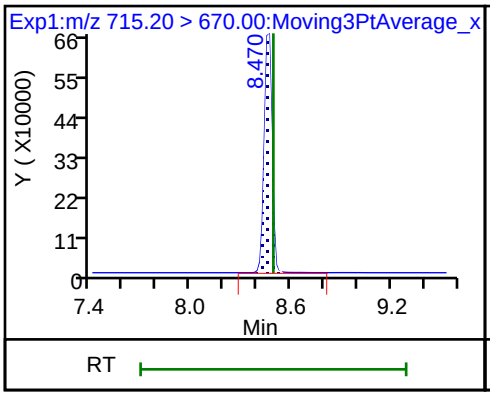
70 PFTeDA



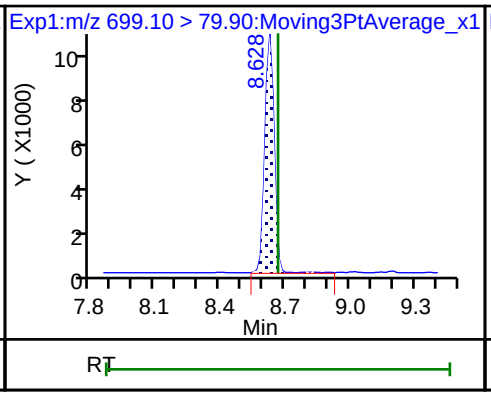
70 PFTeDA



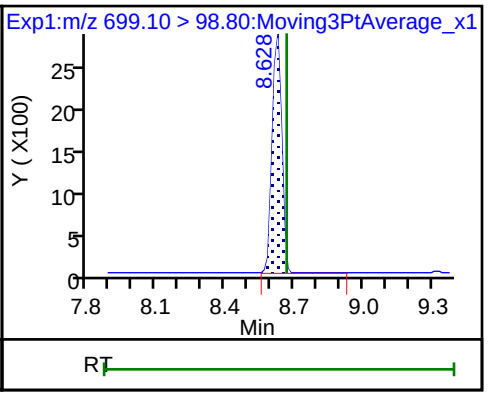
D 69 13C2 PFTeDA



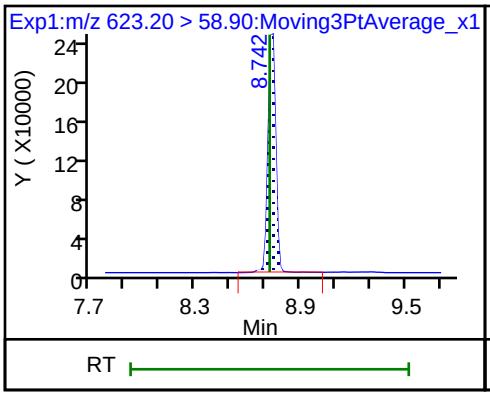
73 PFDoS



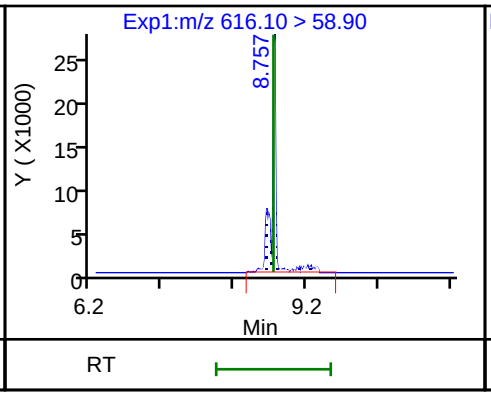
73 PFDoS



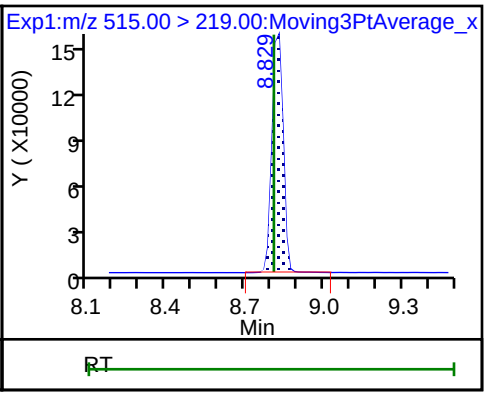
D 71 d7-N-Me-FOSE



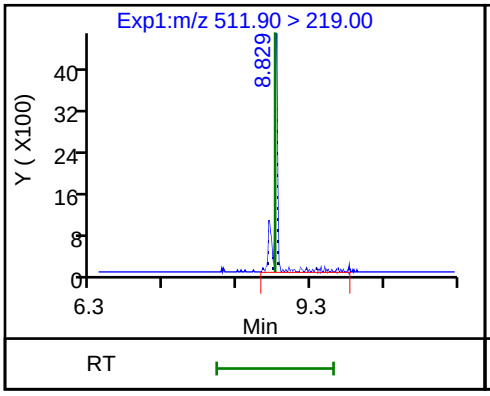
72 N-MeFOSE-M



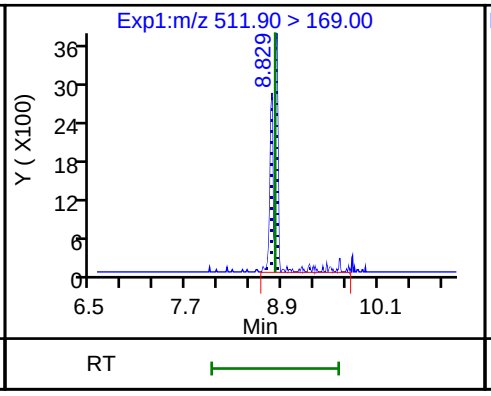
D 74 d3-NMePFOSA



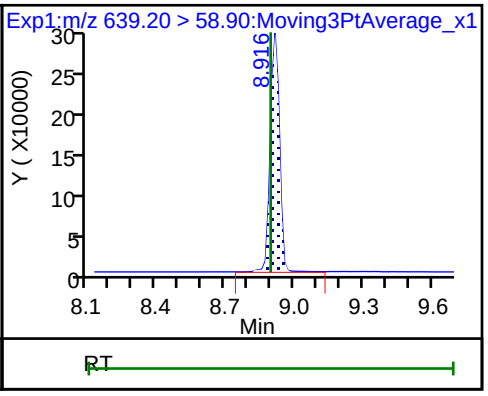
75 NMeFOSA



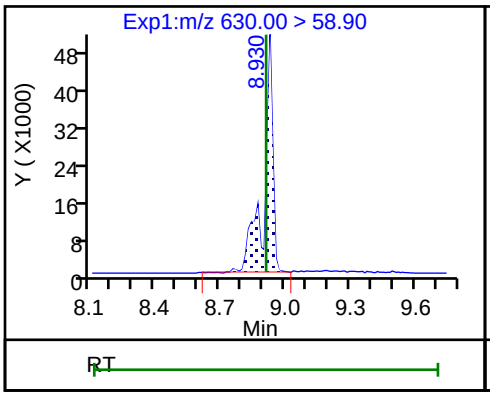
75 NMeFOSA



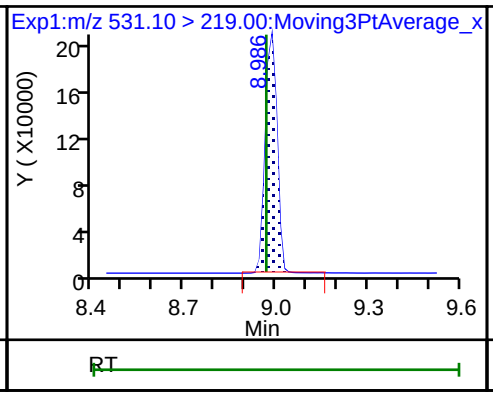
D 76 d9-N-EtFOSE



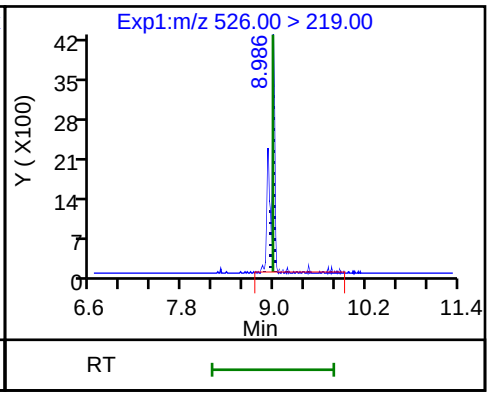
77 N-EtFOSE-M



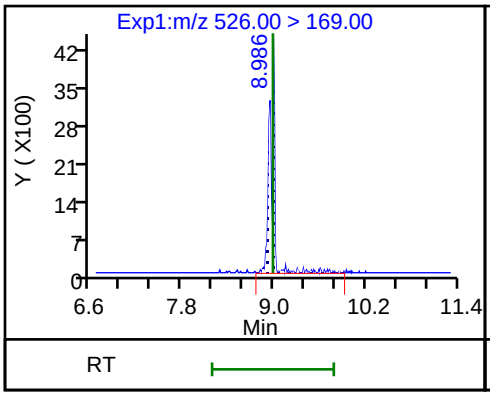
D 78 d5-NEtPFOSA



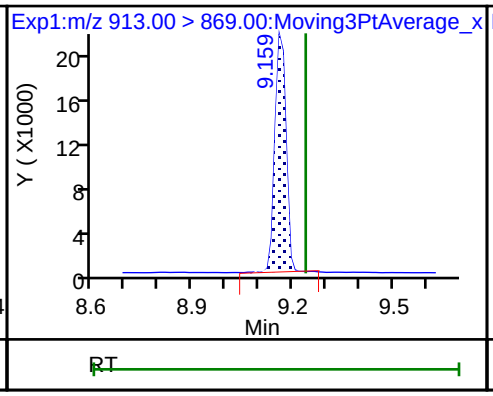
79 N-EtFOSA-M



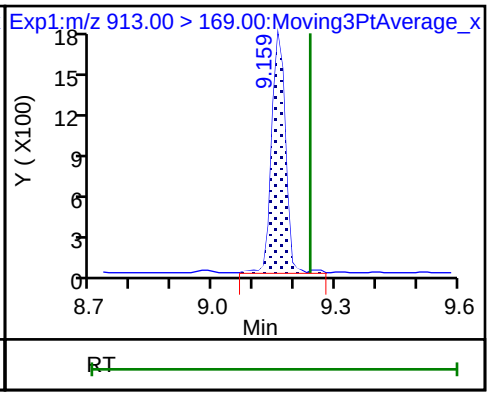
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

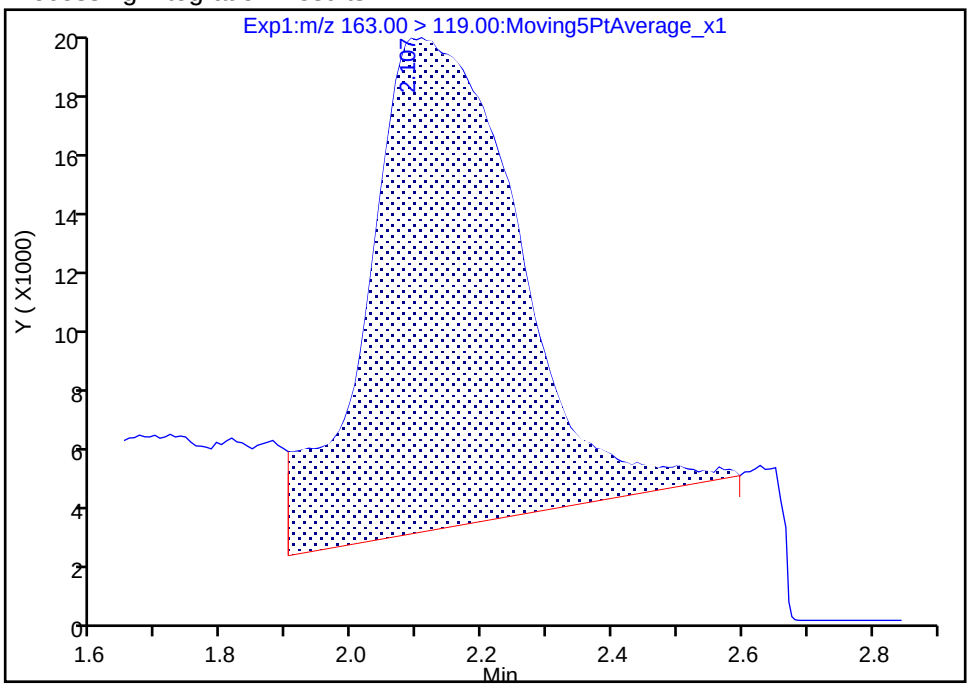
Data File:	\\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-2005.d				
Injection Date:	04-Feb-2026 08:54:06	Instrument ID:	30575		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

1 Perfluoropropionic acid, CAS: 422-64-0

Signal: 1

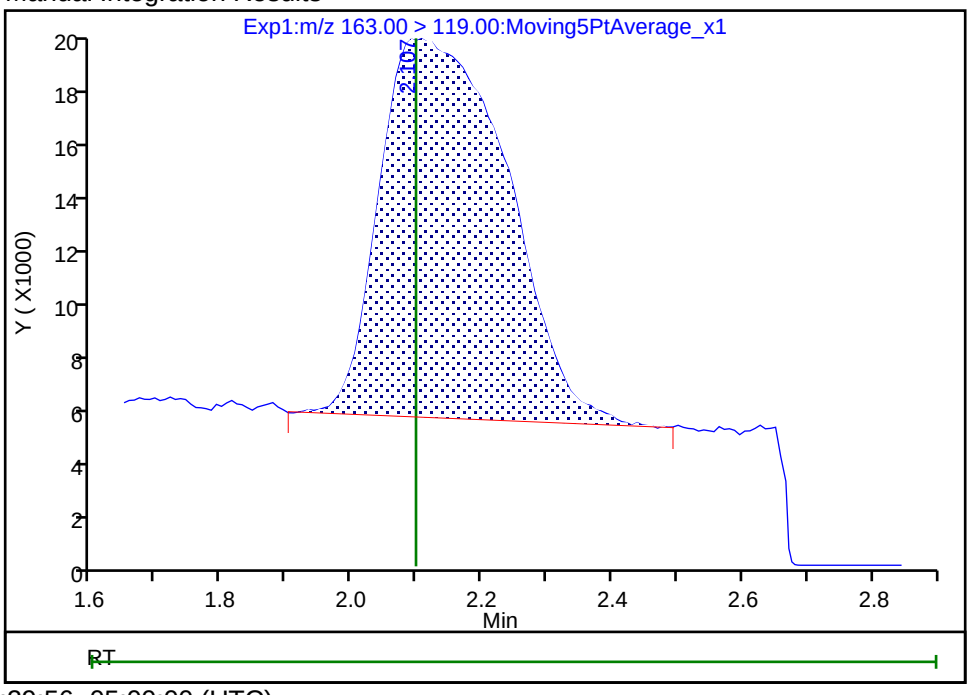
Processing Integration Results

RT: 2.11
Area: 261206
Amount: 0.360962
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 187570
Amount: 0.259204
Amount Units: ng/ml



Reviewer: P7EB, 04-Feb-2026 09:29:56 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

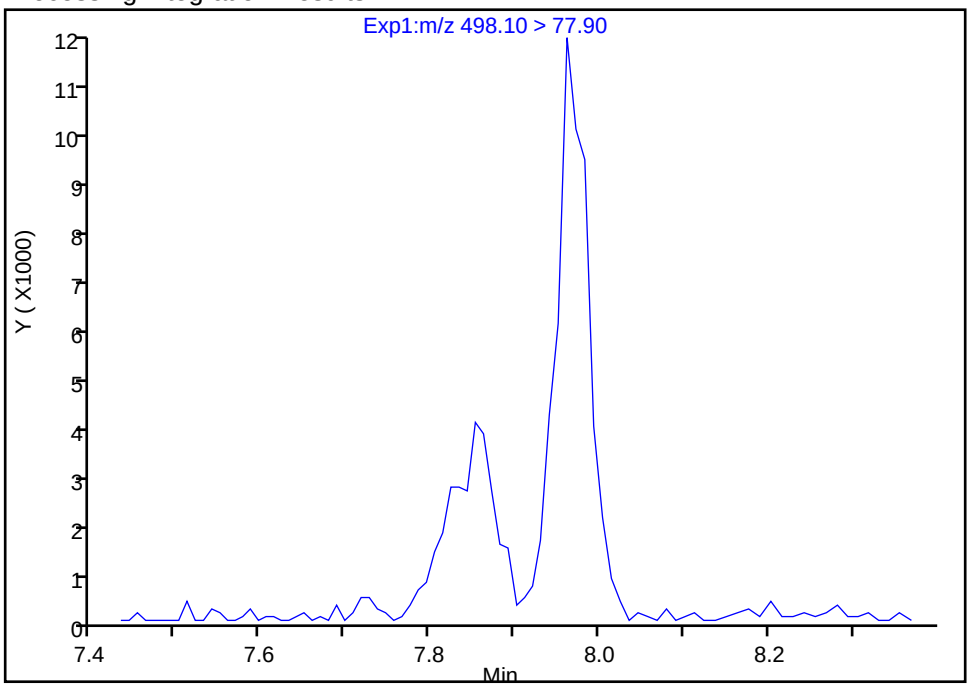
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Injection Date:	04-Feb-2026 08:54:06	Instrument ID:	30575		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

64 PFOSA, CAS: 754-91-6

Signal: 1

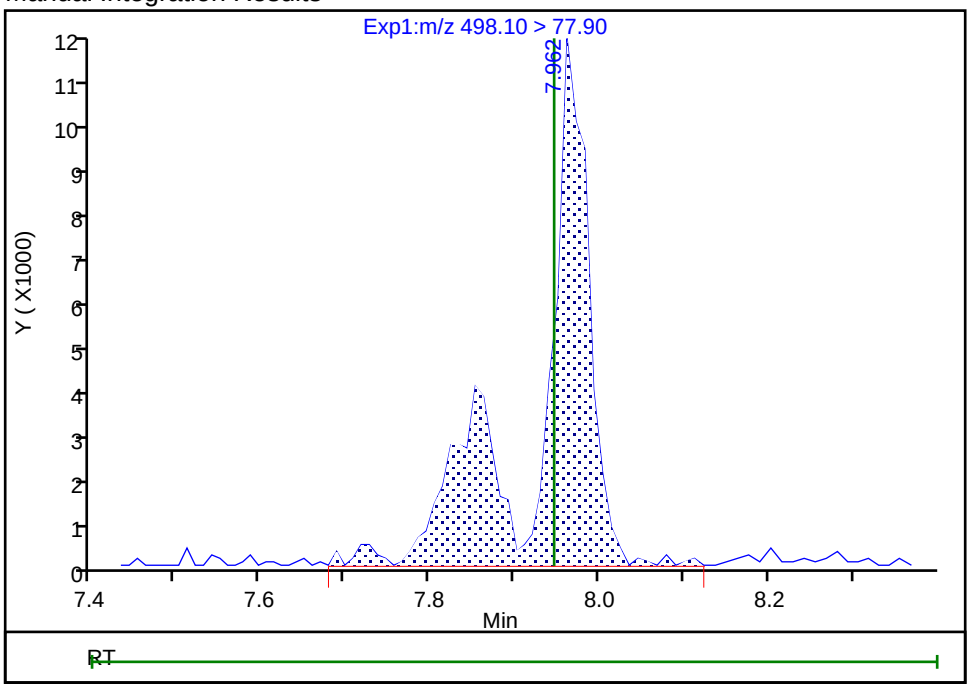
Not Detected
Expected RT: 7.95

Processing Integration Results



Manual Integration Results

RT: 7.96
Area: 46098
Amount: 0.052833
Amount Units: ng/ml



Reviewer: P7EB, 04-Feb-2026 09:31:53 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

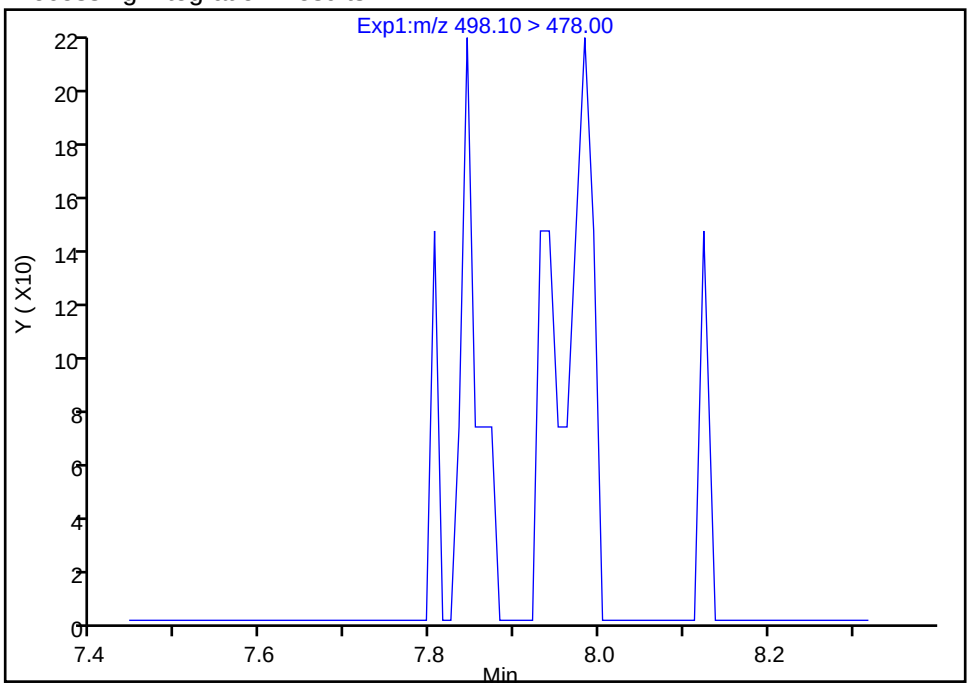
Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-2005.d
Injection Date: 04-Feb-2026 08:54:06 Instrument ID: 30575
Lims ID: CCVO 1_CAL1
Client ID:
Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL
Column: Detector EXP1

64 PFOSA, CAS: 754-91-6

Signal: 2

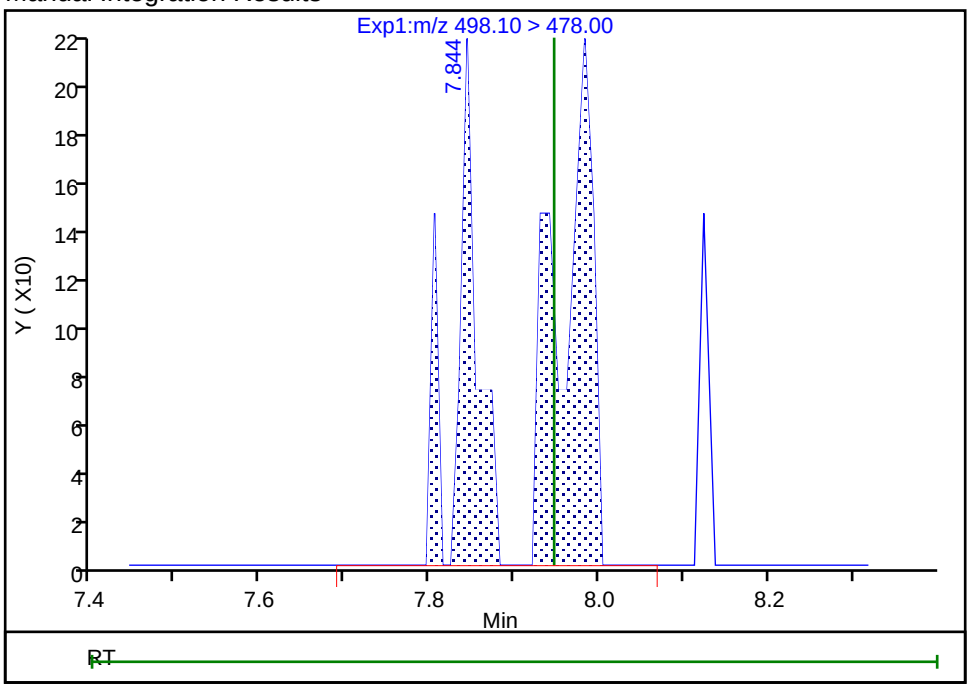
Not Detected
Expected RT: 7.95

Processing Integration Results



Manual Integration Results

RT: 7.84
Area: 964
Amount: 0.052833
Amount Units: ng/ml



Reviewer: P7EB, 04-Feb-2026 09:31:55 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-764500/134 Calibration Date: 02/04/2026 17:57

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04-51.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9286	0.9041		4.87	5.00	-3.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9389	0.9110		1.94	2.00	-3.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.070	1.013		0.947	1.00	-5.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0516	0.0446		1.73	2.00	-14.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.139	1.130		0.991	1.00	-1.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	1.289	1.203		0.933	1.00	-7.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.734	1.809		1.96	1.88	4.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.3928	0.4198		1.07	1.00	7.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9603	0.9097		0.947	1.00	-5.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1225	0.1182		4.83	5.00	-3.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9056	0.7676		0.753	0.888	-15.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	0.7960	0.6663		0.837	1.00	-16.0	30.0
Hexafluoropropylene oxide dimer acid (HFPO DA)	AveID	0.9588	0.9140		0.715	0.750	-5.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.095	2.298		0.979	0.892	10.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9803	1.001		1.02	1.00	2.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.269	3.253		0.941	0.946	0.0	30.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	AveID	2.083	2.030		1.86	1.90	-3.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.314	1.338		0.957	0.940	2.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.154	2.257		1.03	0.979	5.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.7584	0.7533		0.993	1.00	-1.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.1114	0.1089		4.89	5.00	-2.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.281	1.214		0.865	0.912	-5.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.8768	0.8160		0.931	1.00	-7.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.642	1.578		1.85	1.92	-4.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.3327	0.3135		0.871	0.924	-6.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.207	1.071		0.846	0.954	-11.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.370	1.205		0.879	1.00	-12.0	30.0
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	1.118	1.085		0.970	1.00	-3.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-764500/134 Calibration Date: 02/04/2026 17:57

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04-51.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.8375	0.8247		0.985	1.00	-2.0	30.0
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8212	0.7707		0.939	1.00	-6.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.442	1.317		0.849	0.930	-9.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7396	0.7436		1.01	1.00	1.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.850	2.421		0.793	0.934	-15.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.150	1.062		0.888	0.962	-8.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.8922	0.9495		1.06	1.00	6.0	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9173	0.9016		0.983	1.00	-2.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.170	1.103		0.909	0.964	-6.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	1.214	1.266		1.04	1.00	4.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	2.203	2.050		0.879	0.944	-7.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1745	0.1677		0.961	1.00	-4.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.6932	0.6563		0.918	0.970	-5.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	2.687	2.542		4.73	5.00	-5.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	1.023	1.009		0.986	1.00	-1.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	3.951	3.534		4.47	5.00	-11.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9421	0.9409		0.999	1.00	0.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9489	0.9212		0.971	1.00	-3.0	30.0
13C3-PFPrA	Ave	0.7248	0.6999		1.93	2.00	-3.0	30.0
13C4 PFBA	Ave	1.208	1.237		2.05	2.00	2.0	30.0
13C5 PFPeA	Ave	0.8198	0.9139		2.23	2.00	11.0	30.0
M2-4:2 FTS	Ave	0.2529	0.2431		4.51	4.69	-4.0	30.0
13C5 PFHxA	Ave	1.156	1.186		2.05	2.00	3.0	30.0
13C3 PFBS	Ave	1.273	1.349		1.98	1.86	6.0	30.0
13C3 HFPO-DA	Ave	0.7911	0.8712		2.20	2.00	10.0	30.0
13C4 PFHpA	Ave	1.133	1.244		2.20	2.00	10.0	30.0
M2-6:2 FTS	Ave	0.1501	0.1589		5.04	4.76	6.0	30.0
13C8 PFOA	Ave	1.000	1.035		2.07	2.00	4.0	30.0
13C3 PFHxS	Ave	1.001	1.042		1.97	1.90	4.0	30.0
13C9 PFNA	Ave	1.004	1.052		2.10	2.00	5.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-764500/134 Calibration Date: 02/04/2026 17:57

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04-51.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
M2-8:2 FTS	Ave	0.1462	0.1618		5.31	4.80	11.0	30.0
d3-NMeFOSAA	Ave	0.3721	0.4195		5.64	5.00	13.0	30.0
13C6 PFDA	Ave	1.020	1.055		2.07	2.00	3.0	30.0
d5-NEtFOSAA	Ave	0.3287	0.3806		5.79	5.00	16.0	30.0
13C8 PFOS	Ave	0.9257	1.002		2.07	1.92	8.0	30.0
13C7 PFUnA	Ave	1.226	1.229		2.00	2.00	0.0	30.0
13C2 PFDoA	Ave	1.087	1.084		2.00	2.00	0.0	30.0
13C8 FOSA	Ave	1.143	1.091		1.91	2.00	-5.0	30.0
13C2 PFTeDA	Ave	0.6001	0.5889		1.96	2.00	-2.0	30.0
d7-N-MeFOSE-M	Ave	0.1675	0.1681		5.02	5.00	0.0	30.0
d3-NMePFOSA	Ave	0.2599	0.2429		1.87	2.00	-7.0	30.0
d9-N-EtFOSE-M	Ave	0.1704	0.1769		5.19	5.00	4.0	30.0
d5-NEtPFOSA	Ave	0.3171	0.3025		1.91	2.00	-5.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-51.d
Lims ID: CCV 5_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 04-Feb-2026 17:57:09 ALS Bottle#: 5 Worklist Smp#: 134
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCV 5_CAL4
Misc. Info.: Plate: 1 Rack: 1 410-0174617-134
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 18:49:52 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 18:33:02
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										
163.00 > 119.00	2.107	2.098	0.009	1.004	3635653	4.87		97.4	1703	
D 2 13C3PFPrA										
166.00 > 121.00	2.099	2.114	-0.015	0.479	1608498	1.93		96.6	1122	
5 PFBA										
212.80 > 168.90	4.378	4.330	0.048	0.998	2590005	1.94		97.0	5149	
D 6 13C4-PFBA										
216.80 > 171.90	4.386	4.338	0.048	1.000	2843167	2.05		102	12236	
* 7 13C3PFBA										
216.00 > 172.00	4.386	4.338	0.048		2298123	2.00			5587	
9 PFMPA										
229.00 > 84.90	4.676	4.627	0.049	0.935	1060278	0.9468		94.7	4056	
10 3:3 FTCA										
241.00 > 177.00	4.687	4.637	0.050	0.937	93429	1.73	Target=1.28	86.5	1198	
241.00 > 117.00	4.687	4.637	0.050	0.937	74393		1.26(0.64-1.92)		566	
D 11 13C5 PFPeA										
268.30 > 223.00	5.000	4.955	0.045	0.917	2094113	2.23		111	12567	
12 PFPA										
263.00 > 219.00	5.000	4.968	0.032	1.000	1182680	0.99		99.1	1287	
13 PFMBA										
279.00 > 85.10	5.152	5.112	0.040	1.030	1259104	0.9328		93.3	6939	
15 4:2FTS										
327.10 > 307.00	5.272	5.240	0.032	1.000	769150	1.96	Target=1.67	104	5241	
327.10 > 80.90	5.272	5.240	0.032	1.000	479277		1.60(0.83-2.50)		702	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.272	5.240	0.032	0.815	1062709	4.51		96.1	4306	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.413	5.378	0.035	0.992	570257	1.07	Target=1.57	107	2806	
295.00 > 84.90	5.413	5.378	0.035	0.992	355334		1.60(0.78-2.35)		1881	
D 17 13C5 PFHxA										
318.00 > 273.00	5.456	5.418	0.038	1.000	2716971	2.05		103	18121	
* 18 13C2 PFHxA										
315.10 > 270.00	5.456	5.432	0.024		5728705	5.00			22501	
19 PFHxA										
313.00 > 269.00	5.456	5.432	0.024	1.000	1235803	0.9473	Target=12.08	94.7	818	
313.00 > 118.90	5.456	5.432	0.024	1.000	106241		11.63(6.04-18.11)		421	
22 5:3 FTCA										
341.00 > 237.10	5.537	5.500	0.037	1.015	802819	4.83	Target=0.89	96.5	3707	
341.00 > 217.00	5.537	5.500	0.037	1.015	863962		0.93(0.45-1.34)		1370	
21 PFBS										
298.70 > 79.90	5.593	5.568	0.025	1.000	857456	0.7528	Target=3.03	84.8	4328	
298.70 > 98.80	5.593	5.568	0.025	1.000	310303		2.76(1.52-4.55)		1577	
D 20 13C3 PFBS										
302.10 > 79.90	5.593	5.568	0.025	0.865	2344708	1.98		106	16393	
28 FBSA										
297.90 > 78.00	5.622	5.582	0.040	1.005	838102	0.8370		83.7	1602	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.636	5.611	0.025	1.033	1996396	2.20		110	6338	
24 HFPO-DA										
284.90 > 168.90	5.636	5.611	0.025	1.000	684296	0.7150	Target=2.32	95.3	2642	
284.90 > 184.90	5.636	5.611	0.025	1.000	302466		2.26(1.16-3.48)		1781	
25 PFEESA										
314.80 > 134.90	5.816	5.791	0.025	1.066	2784858	0.9787	Target=13.29	110	10099	
314.80 > 82.90	5.816	5.791	0.025	1.066	211483		13.17(6.64-19.93)		1086	
27 PFHpA										a
363.10 > 319.00	5.866	5.845	0.021	1.000	1426399	1.02	Target=2.38	102	713	a
363.10 > 169.00	5.866	5.845	0.021	1.000	579422		2.46(1.19-3.58)		560	
D 26 13C4 PFHpA										
367.10 > 322.00	5.866	5.845	0.021	1.075	2849702	2.20		110	5289	
29 ADONA										
376.90 > 250.90	6.019	5.988	0.031	1.068	3072173	0.9414	Target=1.85	99.5	21308	
376.90 > 84.80	6.008	5.988	0.020	1.066	1694307		1.81(0.92-2.77)		3907	
32 PFPeS										
349.10 > 79.90	6.053	6.033	0.020	0.936	1221868	0.9574	Target=3.35	102	4124	
349.10 > 98.90	6.053	6.033	0.020	0.936	371913		3.29(1.68-5.03)		1672	
31 6:2FTS										
427.10 > 407.00	6.053	6.033	0.020	1.000	572486	1.86	Target=1.88	97.5	3045	
427.10 > 80.90	6.053	6.033	0.020	1.000	320907		1.78(0.94-2.83)		918	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.053	6.033	0.020	0.936	704972	5.04		106	3194	
33 BTS										
280.00 > 147.00	6.196	6.189	0.007	0.958	2146179	1.03		105	8126	
D 35 13C8 PFOA										
421.10 > 376.00	6.254	6.233	0.021	1.000	3590159	2.07		104	4950	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.254	6.233	0.021		8674183	5.00			11995	
36 PFOA										
413.00 > 369.00	6.254	6.233	0.021	1.000	1352298	0.99	Target=2.16	99.3	31349	
413.00 > 169.00	6.241	6.233	0.008	0.998	641131		2.11(1.08-3.25)		28891	
39 7:3 FTCA										
441.00 > 316.90	6.316	6.296	0.020	1.158	739589	4.89	Target=0.79	97.8	2088	
441.00 > 336.90	6.316	6.296	0.020	1.158	859697		0.86(0.39-1.18)		2832	
40 PFHxS										
398.70 > 79.90	6.468	6.460	0.008	1.000	1075424	0.8645	Target=3.45	94.8	1815	
398.70 > 98.90	6.468	6.460	0.008	1.000	314221		3.42(1.73-5.18)		672	
* 38 18O2 PFHxS										
403.00 > 83.90	6.468	6.460	0.008		1767360	1.90			11211	
D 37 13C3 PFHxS										
402.10 > 79.90	6.468	6.460	0.008	1.000	1841358	1.97		104	5678	
43 PFNA										
463.00 > 419.00	6.639	6.620	0.019	1.002	1320197	0.9307	Target=2.87	93.1	187324	
463.00 > 219.00	6.627	6.620	0.007	1.000	488199		2.70(1.44-4.31)		814	
D 42 13C9 PFNA										
472.10 > 427.00	6.627	6.620	0.007	1.000	3235595	2.10		105	10031	
* 41 13C5 PFNA										
468.00 > 423.00	6.627	6.620	0.007		3074433	2.00			6992	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.796	6.790	0.006	1.051	723884	5.31		111	3806	
45 8:2FTS										
527.10 > 507.00	6.796	6.790	0.006	1.000	456984	1.85	Target=1.57	96.1	1986	
527.10 > 80.80	6.796	6.790	0.006	1.000	288514		1.58(0.79-2.36)		1349	
46 PFECHS										
461.00 > 381.00	6.830	6.824	0.006	1.056	281344	0.8709	Target=0.30	94.2	1477	
461.00 > 99.00	6.830	6.824	0.006	1.056	972335		0.29(0.15-0.45)		2574	
47 PFHpS										
449.00 > 79.90	6.864	6.857	0.007	0.947	955128	0.8463	Target=3.53	88.7	4305	
449.00 > 98.80	6.864	6.857	0.007	0.947	280350		3.41(1.76-5.29)		875	
53 FHxSA										
397.90 > 78.00	6.898	6.869	0.029	1.066	1169926	0.8793		87.9	5003	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.947	6.940	0.007	0.957	1956915	5.64		113	11909	
49 NMeFOSAA										
570.10 > 419.00	6.947	6.940	0.007	1.000	424516	0.9705	Target=1.75	97.0	440	
570.10 > 483.00	6.947	6.940	0.007	1.000	225620		1.88(0.87-2.62)		448	
D 50 13C6 PFDA										
519.10 > 474.10	7.008	7.015	-0.007	1.000	3555813	2.07		103	7492	
* 52 13C2 PFDA										
515.10 > 470.10	7.008	7.015	-0.007		3371073	2.00			7185	
51 PFDA										
512.90 > 469.00	7.008	7.015	-0.007	1.000	1466319	0.9847	Target=4.54	98.5	4543	
512.90 > 219.00	7.008	7.015	-0.007	1.000	305107		4.81(2.27-6.81)		1179	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.117	7.124	-0.007	0.980	1775469	5.79		116	2996	
55 NEtFOSAA										
584.20 > 419.10	7.131	7.124	0.007	1.002	273677	0.9386	Target=1.38	93.9	249	
584.20 > 526.00	7.117	7.124	-0.007	1.000	198495		1.38(0.69-2.07)		401	
58 PFOS										
498.90 > 79.90	7.248	7.255	-0.007	1.000	1145040	0.8493	Target=4.26	91.3	137559	
498.90 > 98.80	7.260	7.255	0.005	1.002	279053		4.10(2.13-6.40)		656	
D 56 13C8 PFOS										
507.10 > 79.90	7.248	7.267	-0.019	0.998	1791454	2.07		108	1453	
* 57 13C4 PFOS										
502.80 > 79.90	7.260	7.267	-0.007		1787557	1.92			10899	
D 59 13C7 PFUnA										
570.00 > 525.10	7.393	7.409	-0.016	1.055	4141742	2.00		100	6373	
60 PFUnA										
563.10 > 519.00	7.403	7.409	-0.006	1.001	1539854	1.01	Target=5.23	101	3723	
563.10 > 269.10	7.393	7.409	-0.016	1.000	293451		5.25(2.62-7.85)		1756	
61 9ClFOS										
530.80 > 351.00	7.552	7.566	-0.014	1.042	2113932	0.7932	Target=3.05	84.9	6959	
532.80 > 353.00	7.552	7.566	-0.014	1.042	691417		3.06(1.53-4.58)		6185	
62 PFNS										
548.80 > 79.90	7.642	7.656	-0.014	1.054	955282	0.8881	Target=3.70	92.3	6075	
548.80 > 98.80	7.642	7.656	-0.014	1.054	267597		3.57(1.85-5.56)		2135	
D 81 PFDoA										
615.10 > 570.00	7.776	7.801	-0.025	1.110	3655484	1.99		99.7	9101	
63 PFDoA										
613.10 > 569.00	7.776	7.801	-0.025		1735497	1.06	Target=5.66	106	7611	
613.10 > 319.00	7.776	7.801	-0.025		313269		5.54(2.83-8.49)		3301	
64 PFOSA										
498.10 > 77.90	7.983	7.947	0.036	1.001	917804	0.9829	Target=43.43	98.3	2718	
498.10 > 478.00	7.973	7.947	0.026	1.000	20544		44.68(21.71-65.14)		73.3	
D 65 13C8 FOSA										
506.10 > 77.80	7.973	7.957	0.016	1.098	2035977	1.91		95.5	5020	
66 PFDS										
599.00 > 79.90	8.004	8.031	-0.027	1.104	994181	0.9088	Target=3.54	94.3	13193	
599.00 > 98.80	8.004	8.031	-0.027	1.104	271119		3.67(1.77-5.31)		2689	
67 PFTrDA										
663.00 > 619.00	8.138	8.170	-0.032	0.961	1785512	1.04	Target=5.76	104	7102	
663.00 > 168.90	8.138	8.170	-0.032	0.961	302763		5.90(2.88-8.64)		884	
68 11ClFOS										
630.90 > 450.90	8.282	8.314	-0.032	1.143	1809638	0.8785	Target=3.06	93.1	14387	
632.90 > 452.90	8.269	8.314	-0.045	1.141	577964		3.13(1.53-4.59)		8655	
70 PFTeDA										
713.10 > 168.90	8.470	8.494	-0.024	1.000	166429	0.9608	Target=1.07	96.1	1938	
713.10 > 219.00	8.470	8.494	-0.024	1.000	152025		1.09(0.54-1.61)		735	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.470	8.494	-0.024	1.209	1985264	1.96		98.1	5468	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.629	8.667	-0.038	1.190	595259	0.9184	Target=4.17	94.7	3621	
699.10 > 98.80	8.629	8.667	-0.038	1.190	146437		4.06(2.09-6.26)		2858	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.742	8.723	0.019	1.204	784020	5.02		100	686	
72 N-MeFOSE-M										
616.10 > 58.90	8.757	8.737	0.020	1.002	1993256	4.73		94.6	1286	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.830	8.809	0.021	1.216	453301	1.87		93.5	3133	
75 NMeFOSA										
511.90 > 219.00	8.830	8.809	0.021	1.000	228722	0.9860	Target=0.69	98.6	1612	
511.90 > 169.00	8.830	8.809	0.021	1.000	326920		0.70(0.34-1.03)		1804	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.916	8.897	0.019	1.228	825186	5.19		104	1354	
77 N-EtFOSE-M										
630.00 > 58.90	8.930	8.911	0.019	1.002	2916383	4.47		89.4	486163	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.986	8.967	0.019	1.238	564520	1.91		95.4	2923	
79 N-EtFOSA-M										
526.00 > 219.00	9.000	8.981	0.019	1.002	265581	1.00	Target=0.78	99.9	2247	
526.00 > 169.00	9.000	8.981	0.019	1.002	331437		0.80(0.39-1.17)		1720	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.159	9.238	-0.079	1.081	914384	0.9708	Target=11.85	97.1	31069	
913.00 > 169.00	9.159	9.238	-0.079	1.081	74212		12.32(5.92-17.77)		5500	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

1633_125_CAL4_00077 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 18:49:53 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-51.d

Injection Date: 04-Feb-2026 17:57:09 Instrument ID: 30575

Lims ID: CCV 5_CAL4

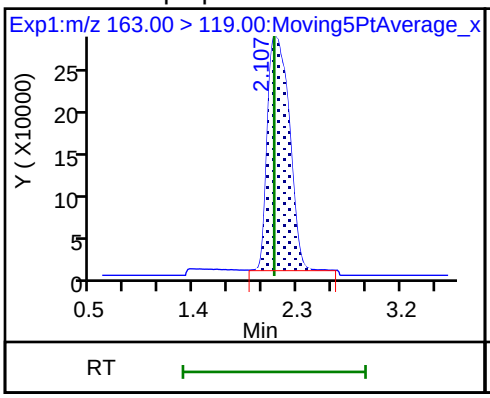
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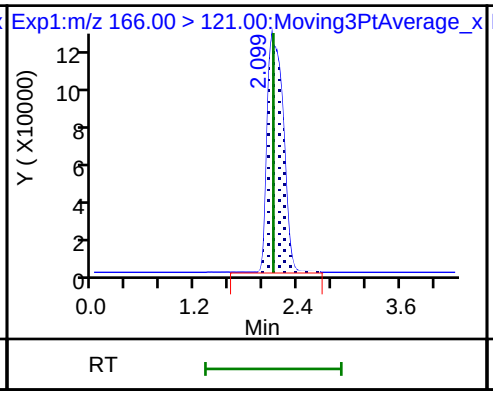
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Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

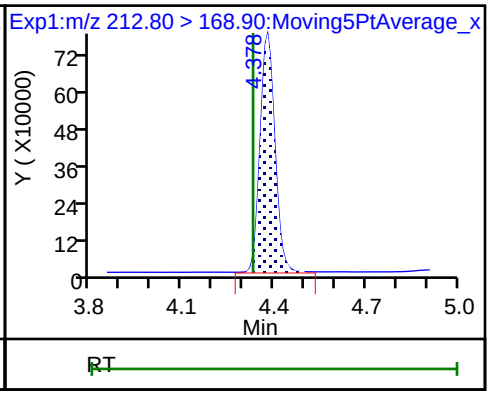
1 Perfluoropropionic acid



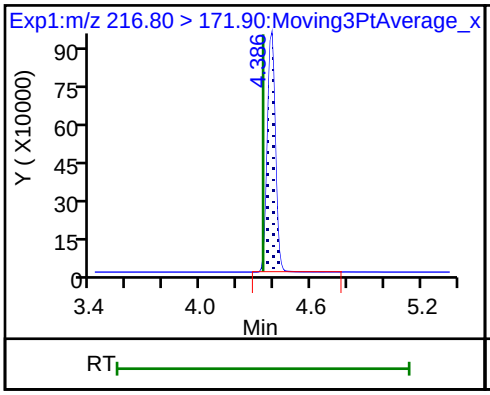
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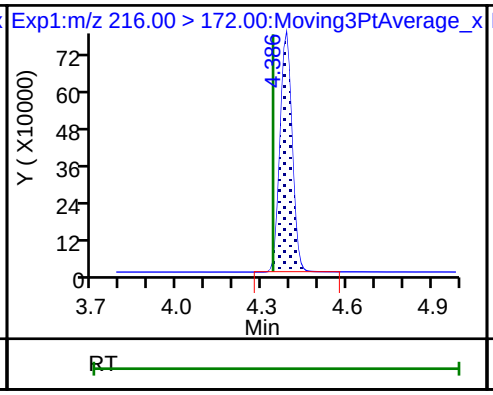
5 PFBA



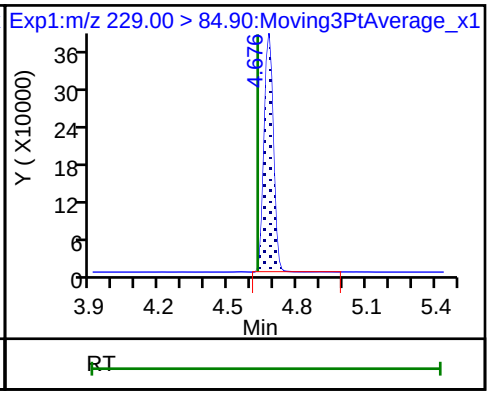
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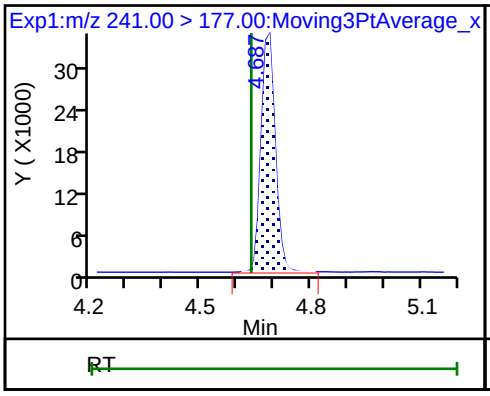
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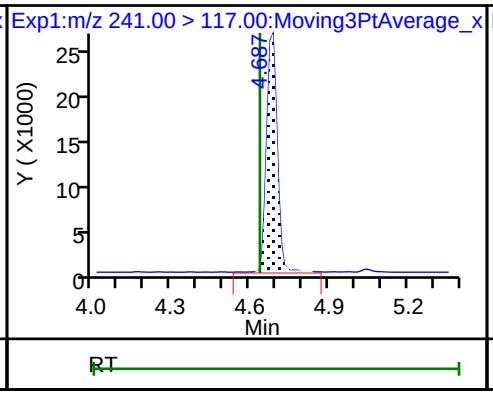
9 PFMPA



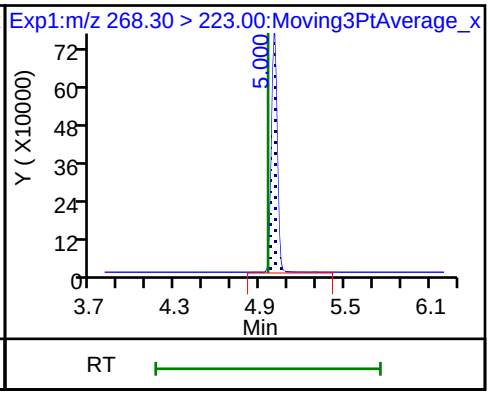
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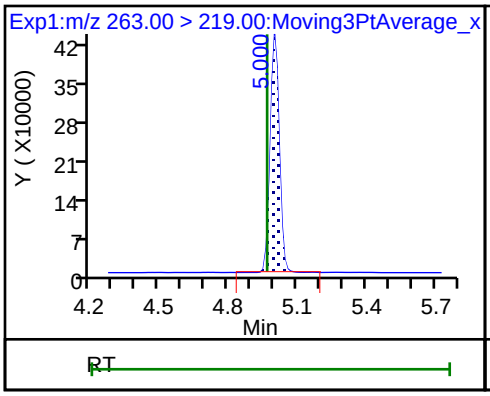
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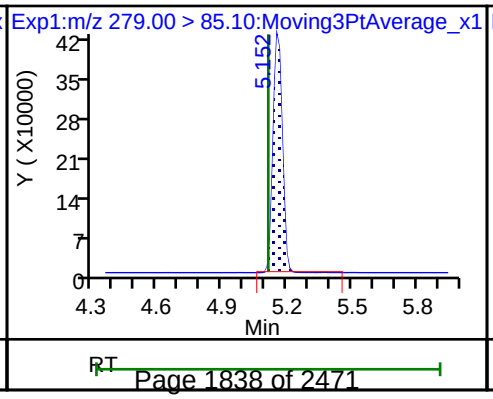
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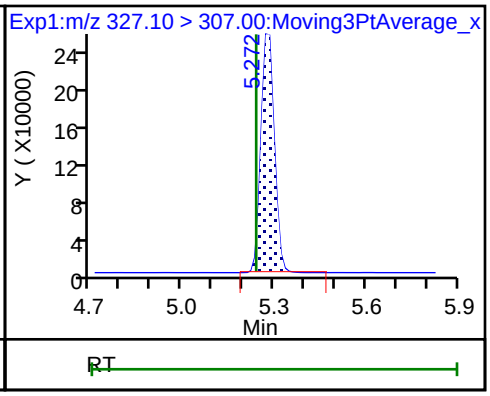
12 PFPA



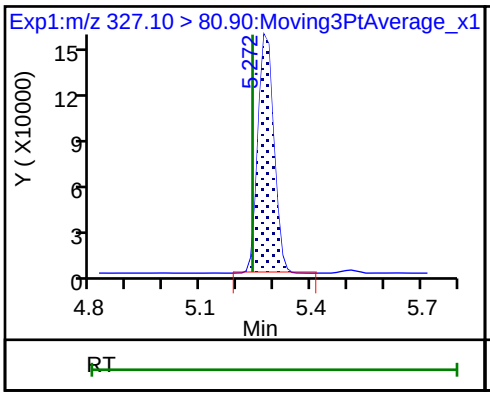
13 PFMBA



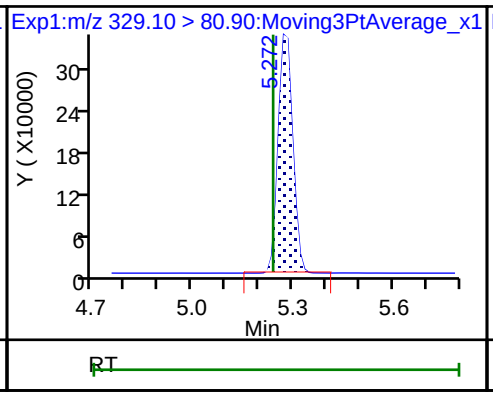
15 4:2FTS



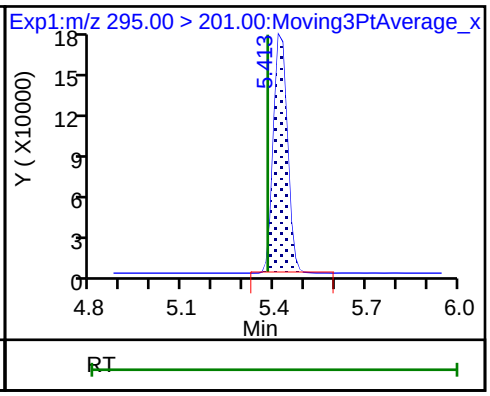
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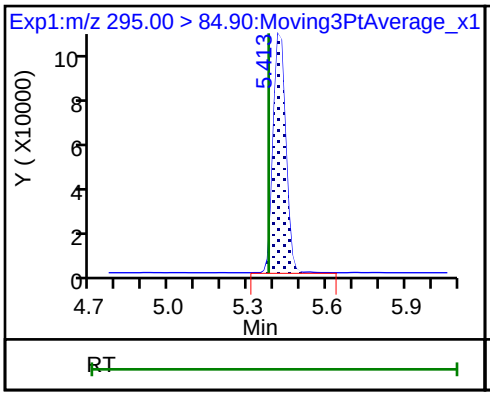
D 14 13C2-4:2FTS



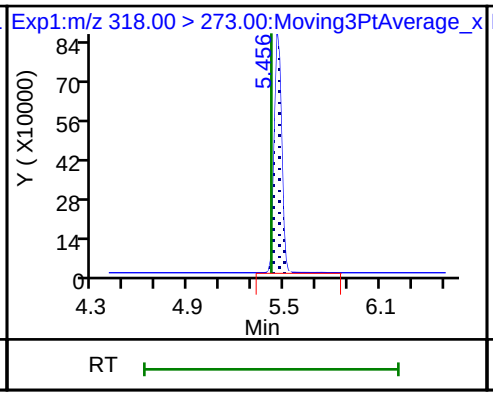
16 NFDHA



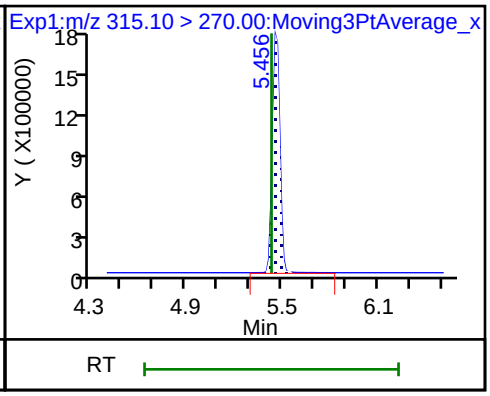
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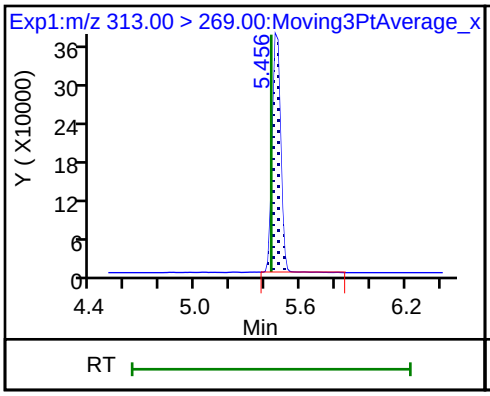
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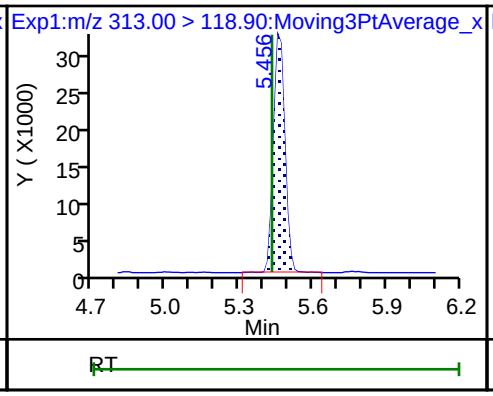
* 18 13C2 PFHxA



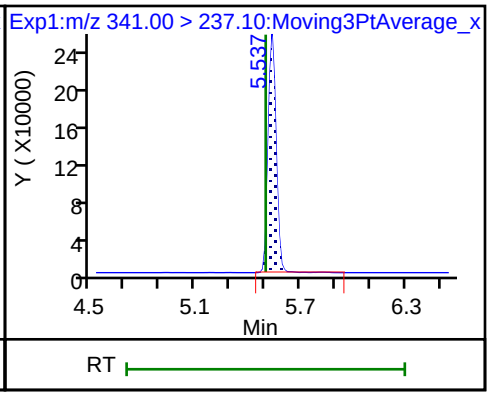
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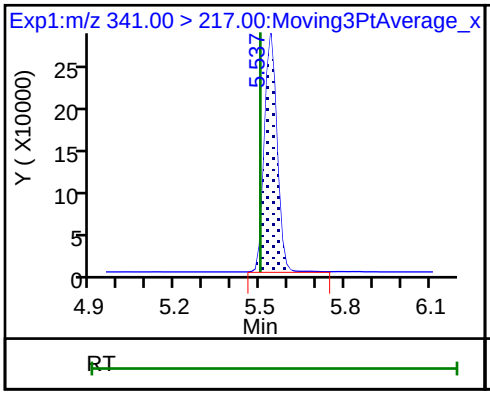
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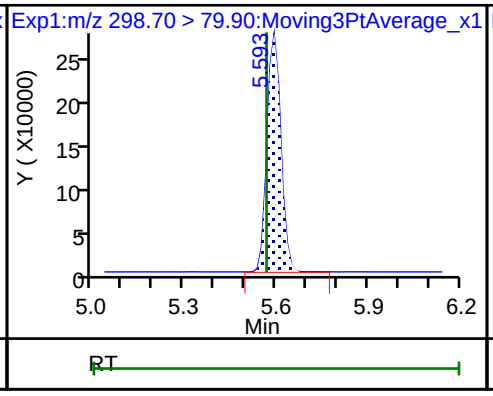
22 5:3 FTCA



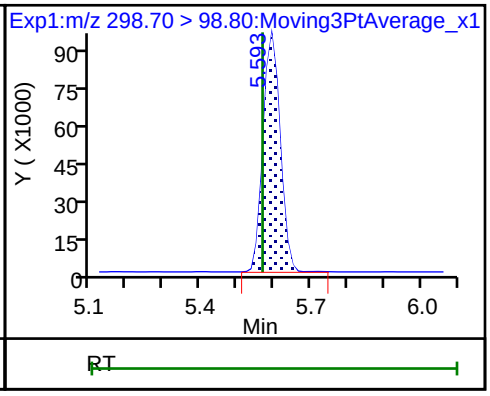
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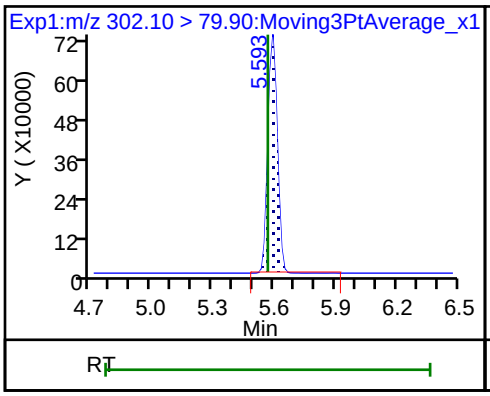
21 PFBS



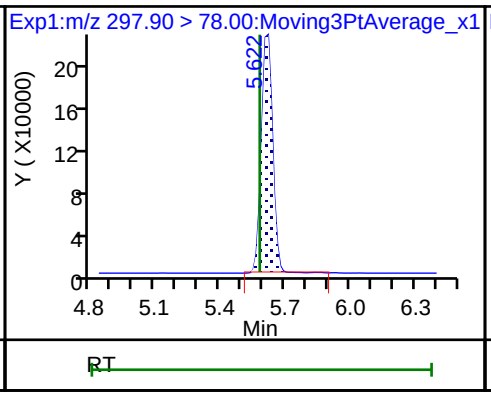
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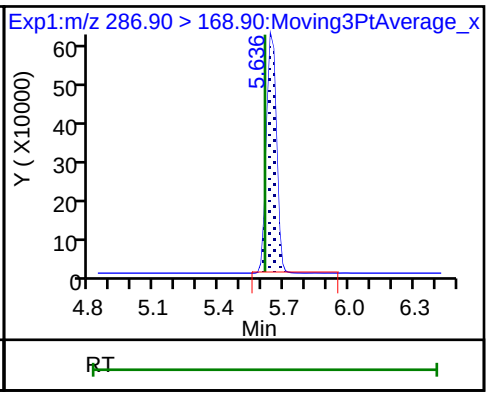
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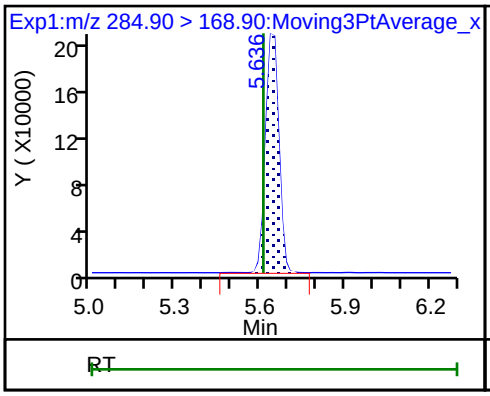
28 FBSA



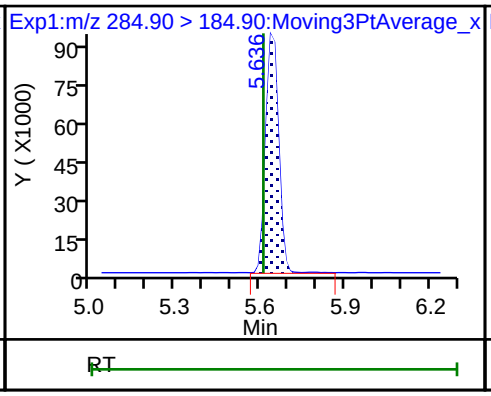
D 23 13C3 HFPO-DA



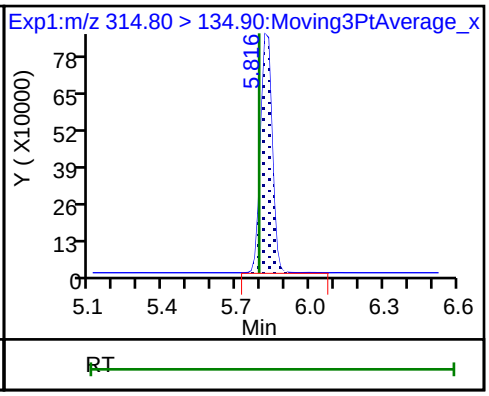
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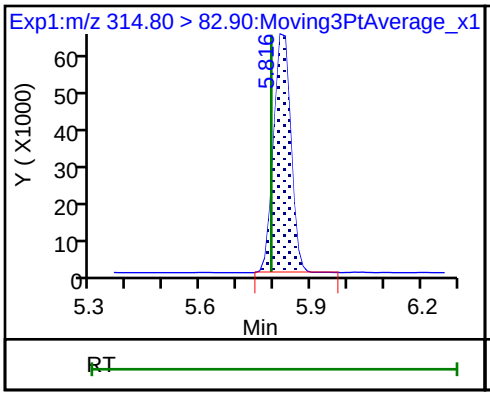
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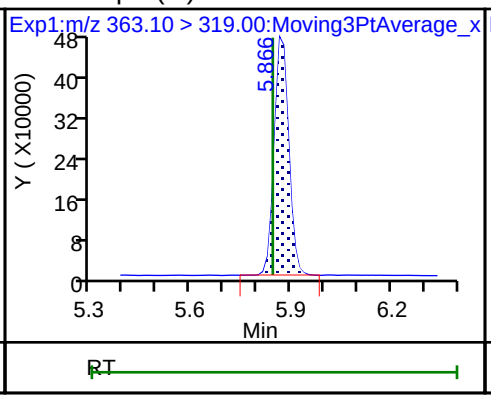
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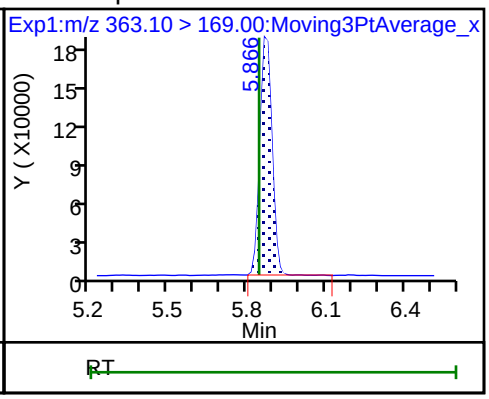
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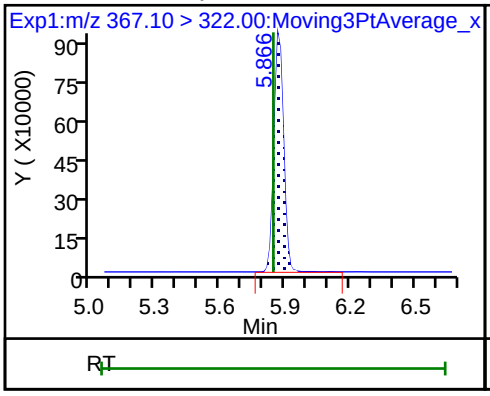
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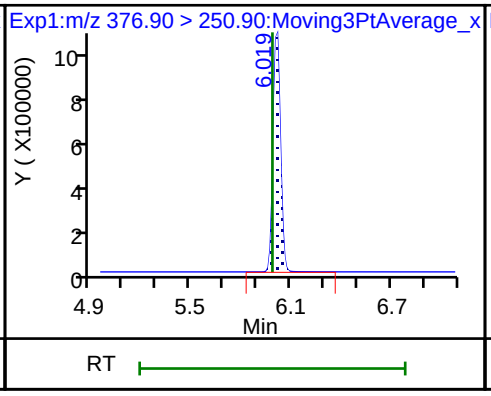
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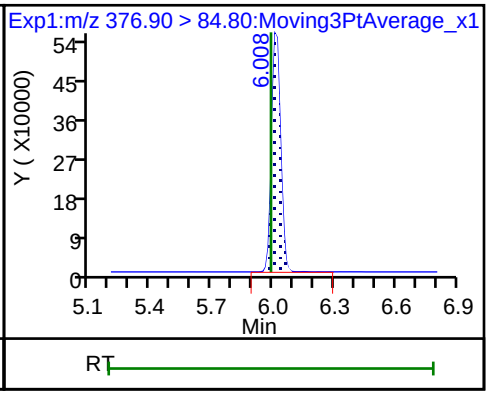
D 26 13C4 PFHpA



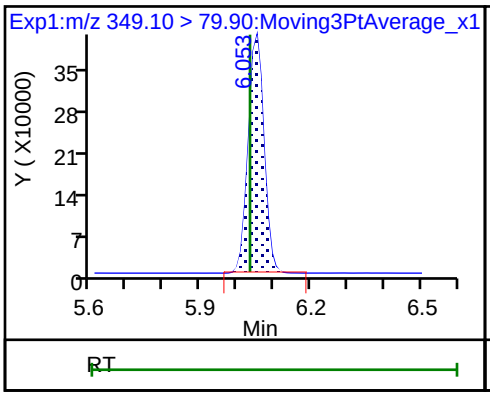
29 ADONA



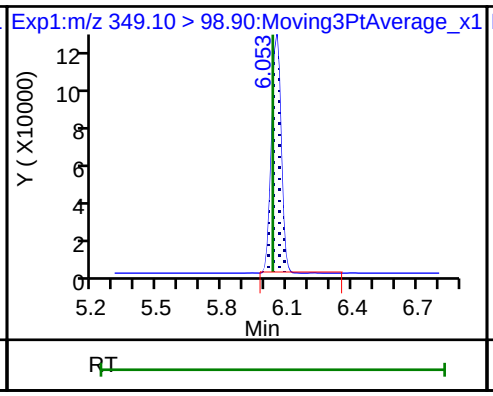
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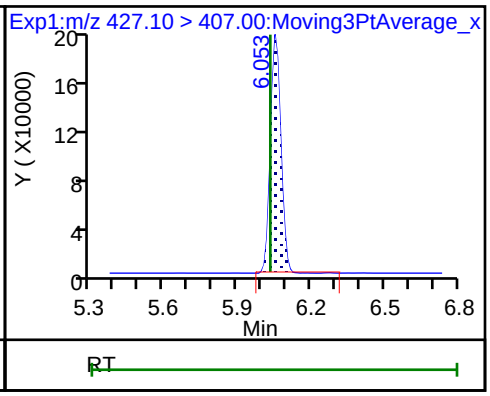
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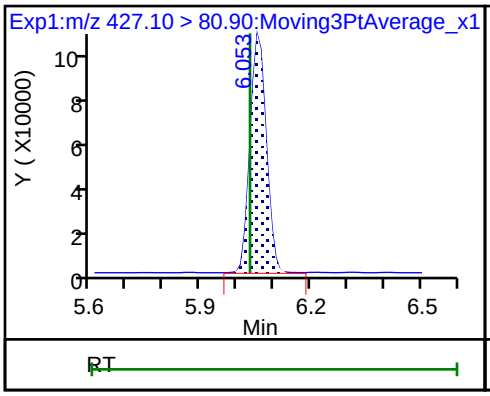
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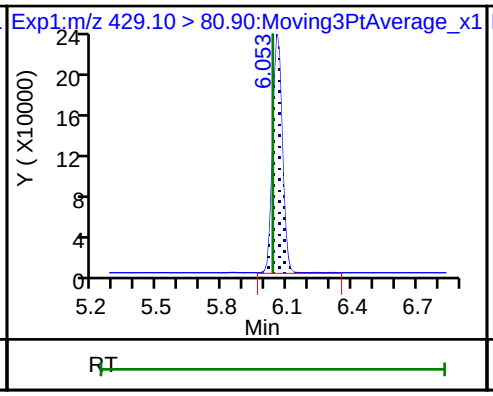
31 6:2FTS



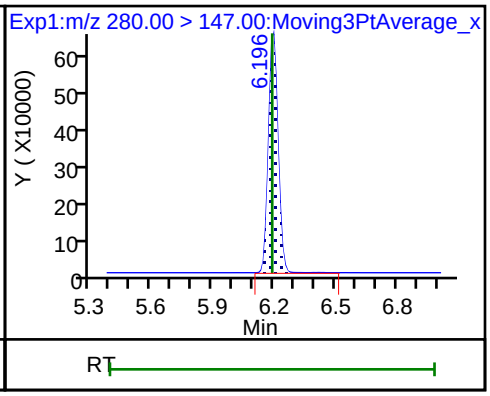
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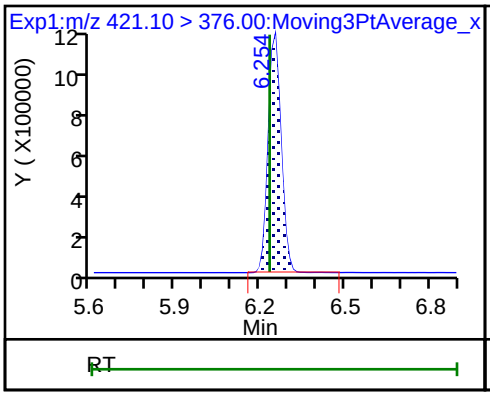
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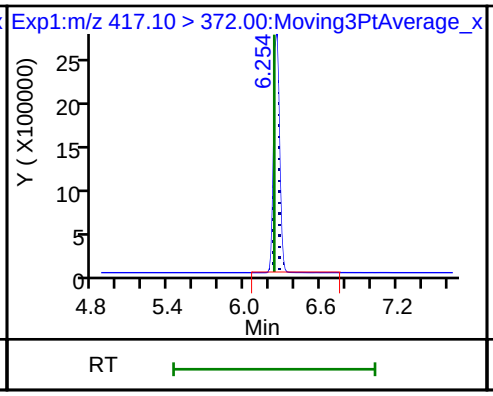
33 BTS



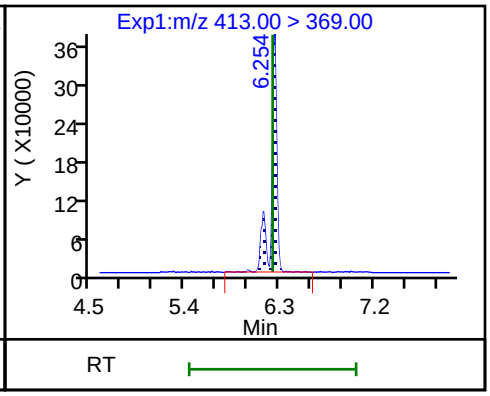
D 35 13C8 PFOA



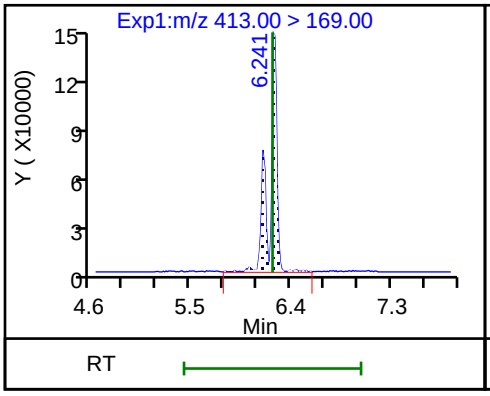
* 34 13C4 PFOA



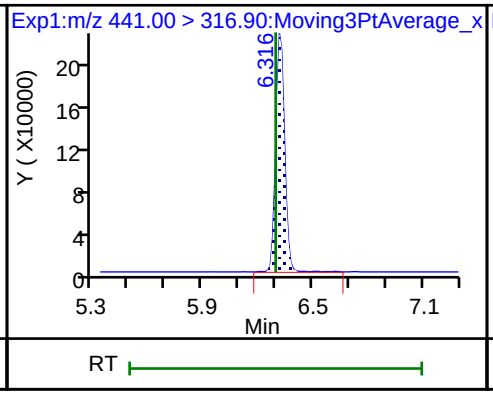
36 PFOA



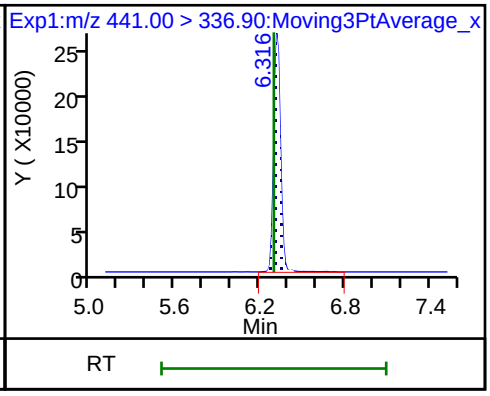
36 PFOA



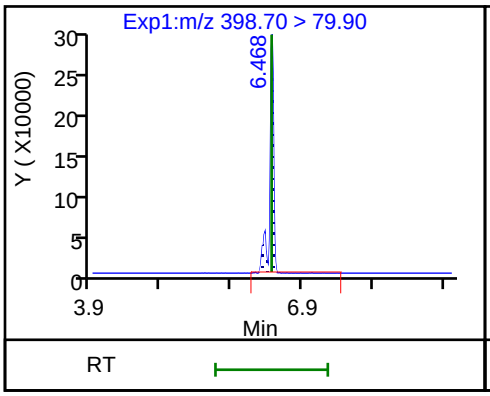
39 7:3 FTCA



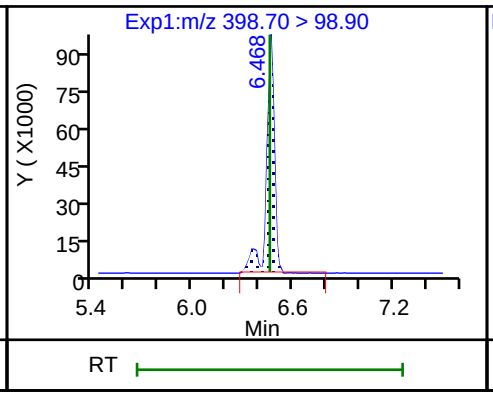
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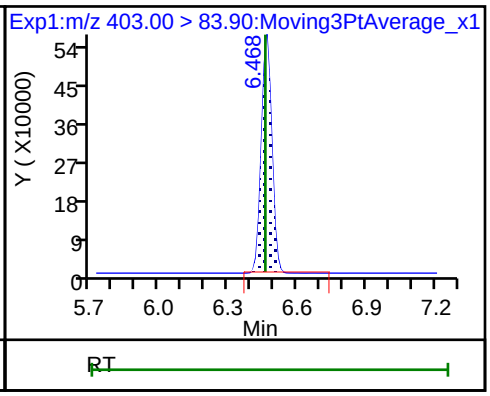
40 PFHxS



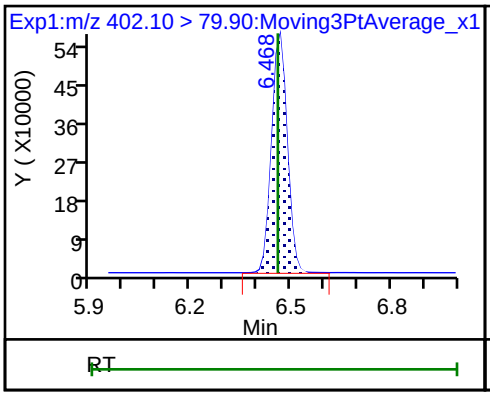
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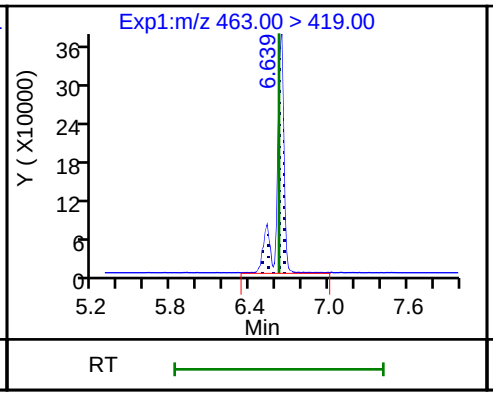
* 38 18O2 PFHxS



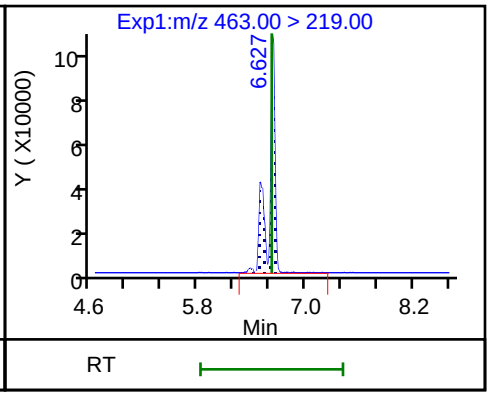
D 37 13C3 PFHxS



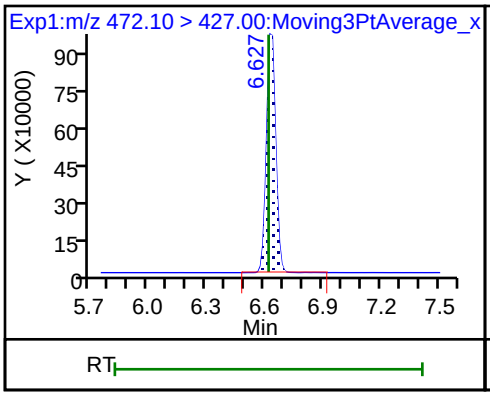
43 PFNA



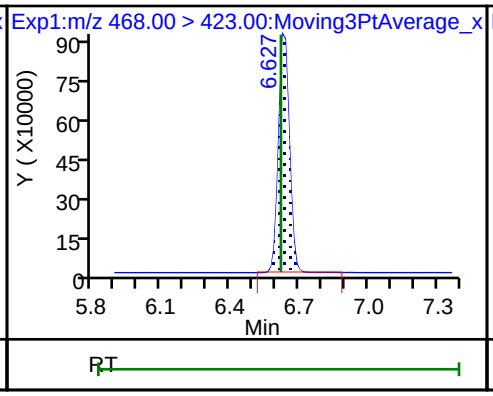
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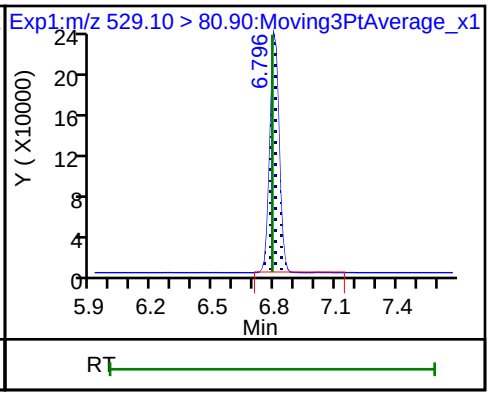
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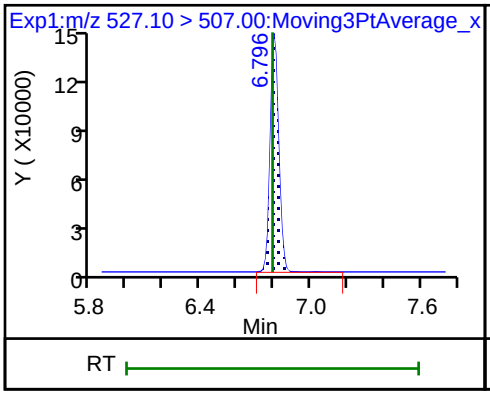
* 41 13C5 PFNA



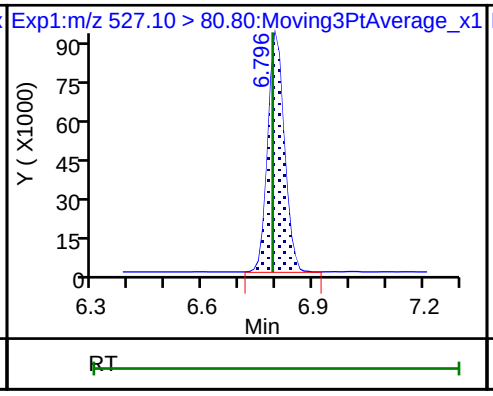
D 44 13C2-8:2FTS



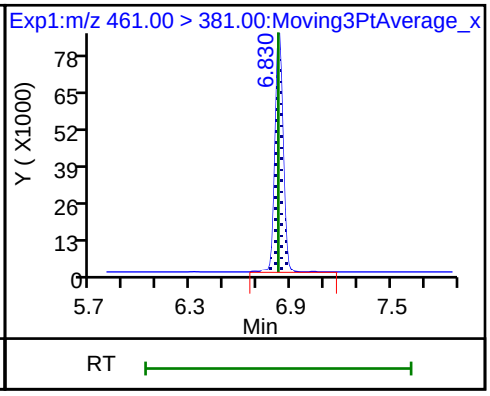
45 8:2FTS



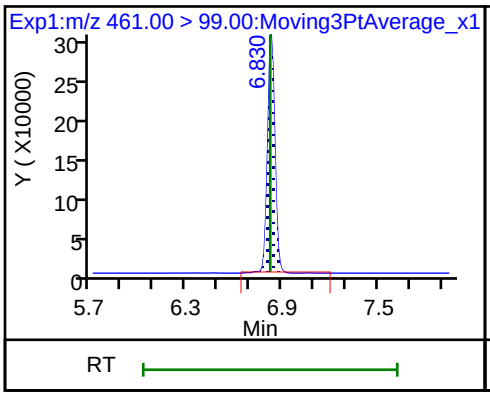
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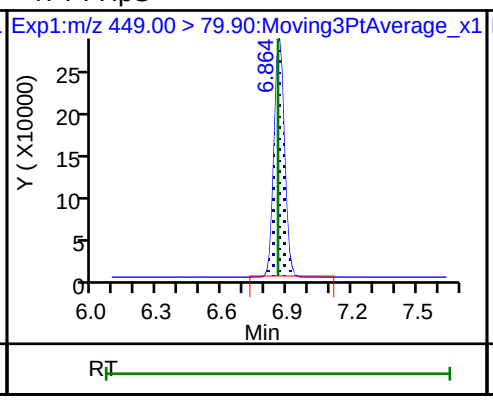
46 PFECHS



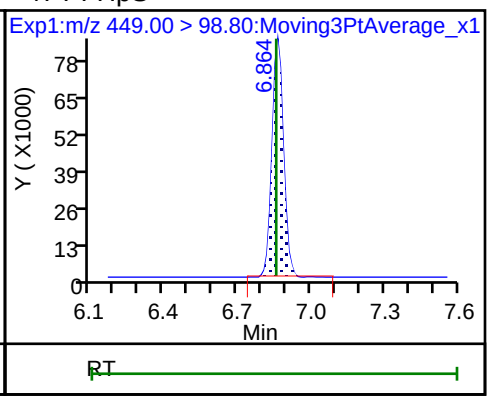
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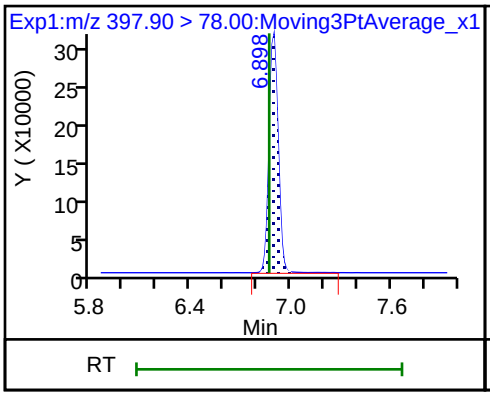
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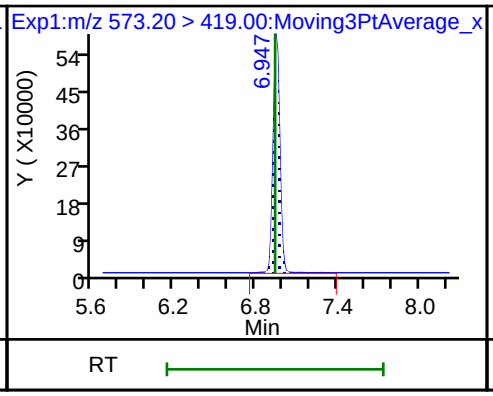
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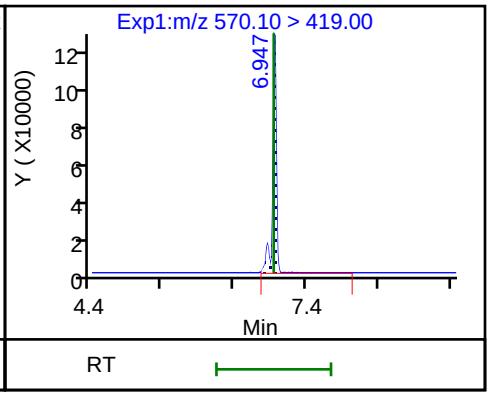
53 FHxSA



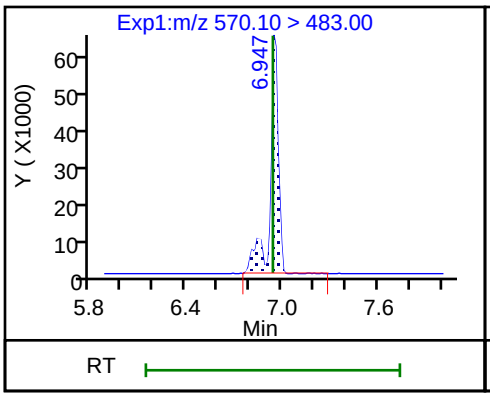
D 48 d3-NMeFOSAA



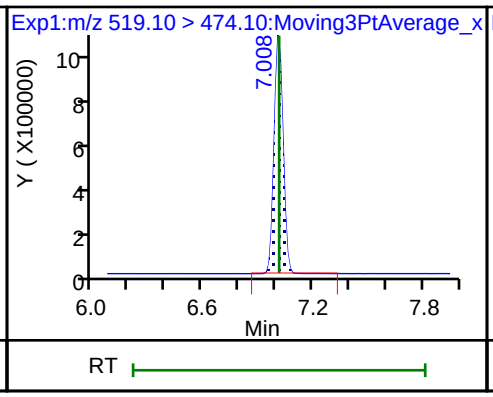
49 NMeFOSAA



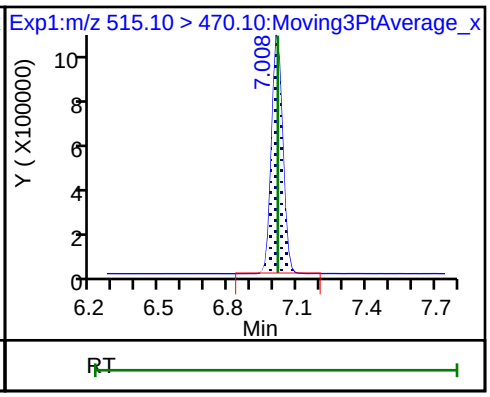
49 NMeFOSAA



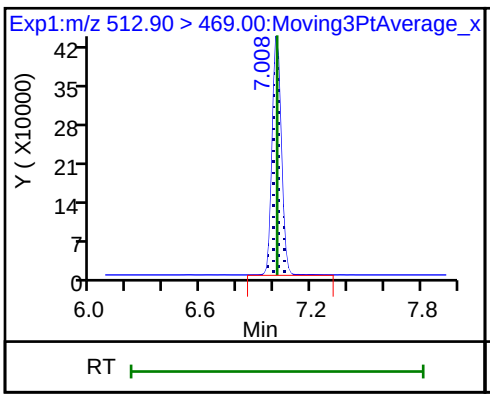
D 50 13C6 PFDA



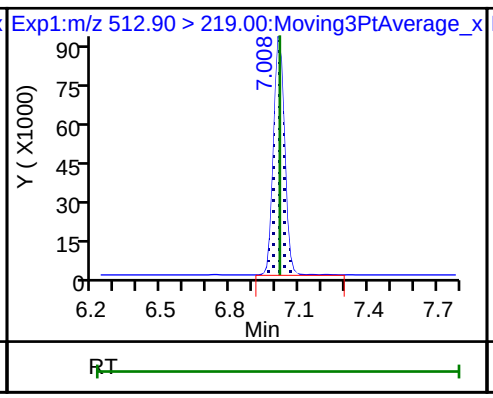
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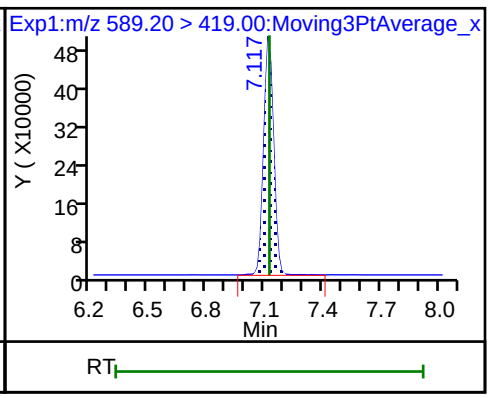
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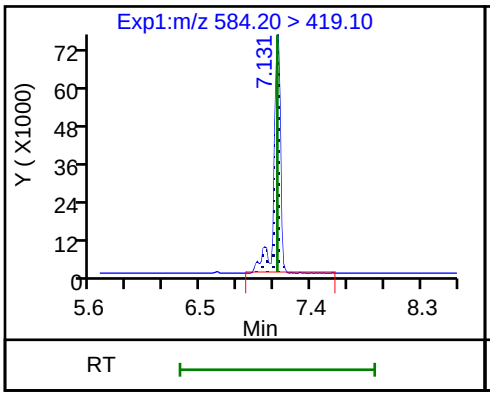
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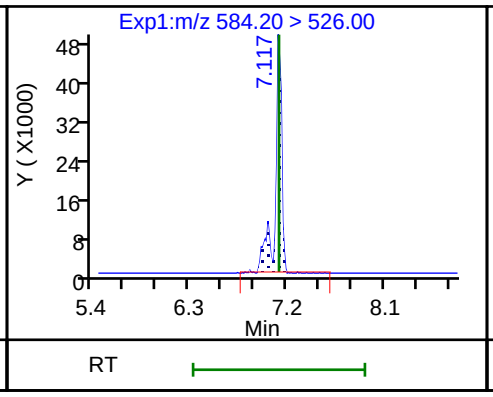
D 54 d5-NEtFOSAA



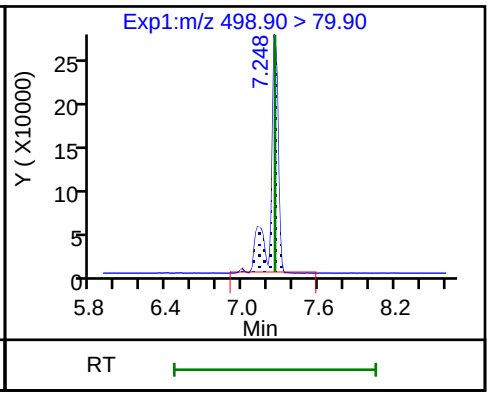
55 NEtFOSAA



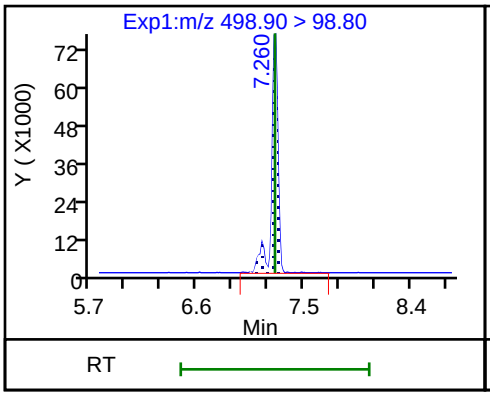
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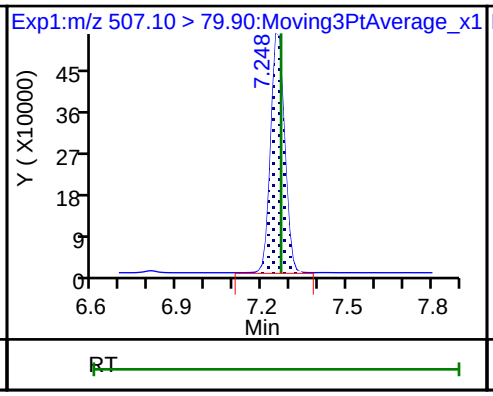
58 PFOS



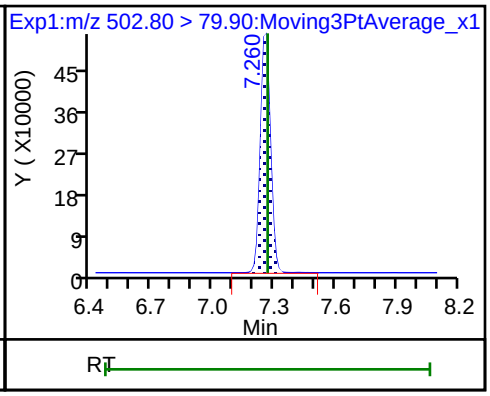
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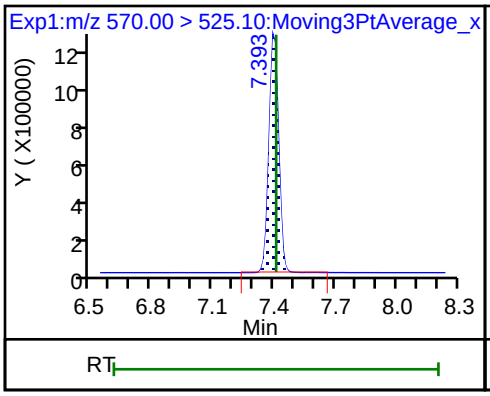
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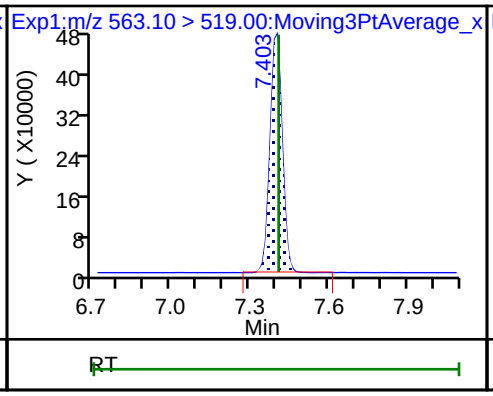
* 57 13C4 PFOS



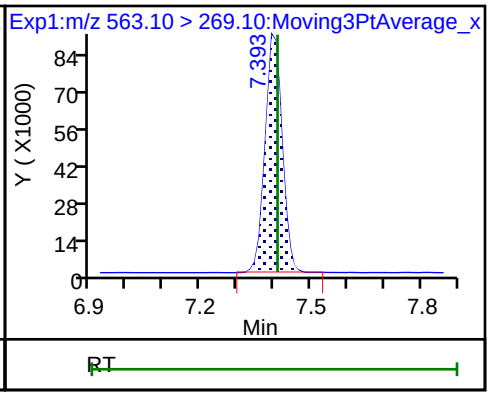
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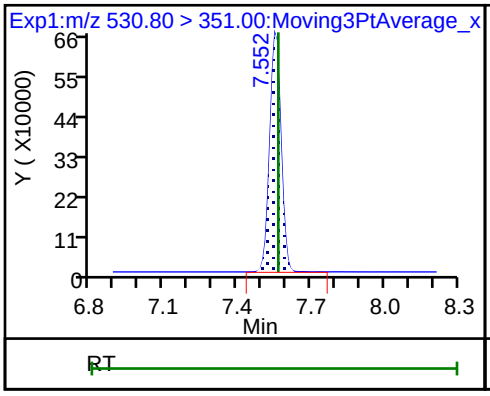
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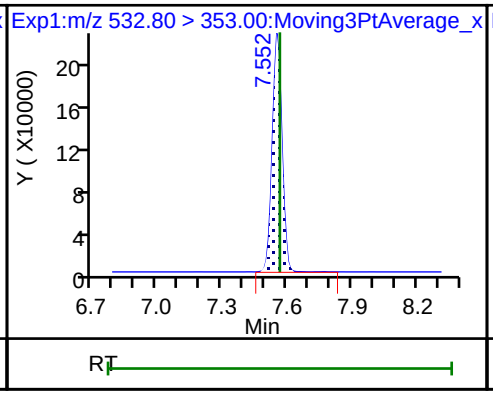
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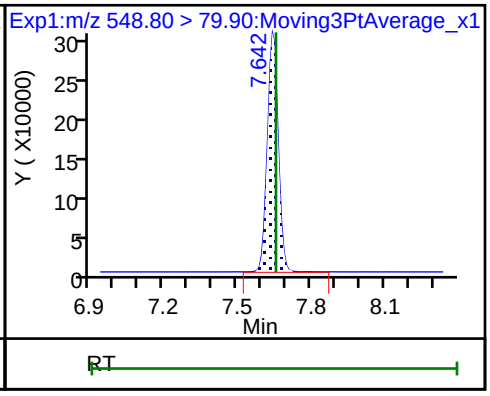
61 9ClFOS



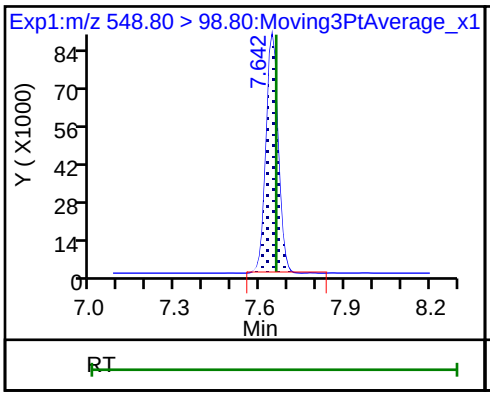
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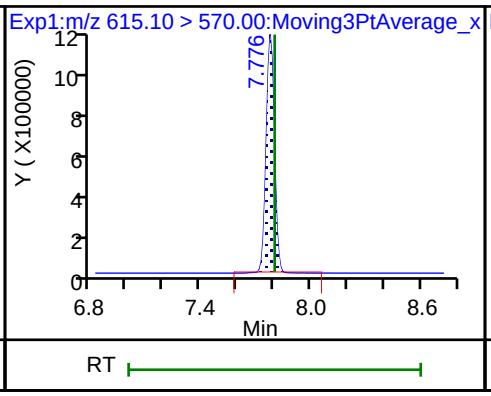
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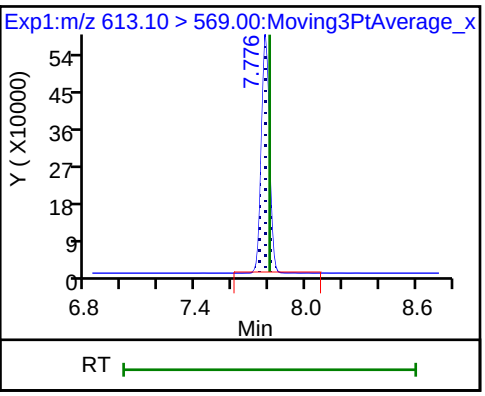
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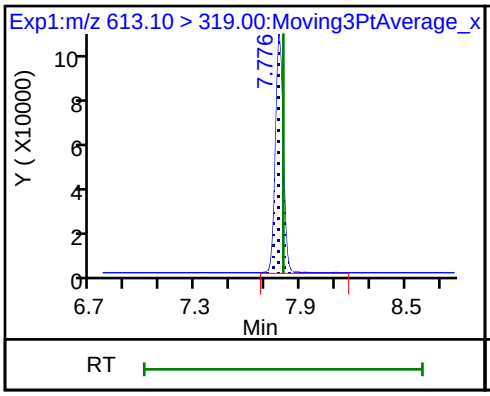
D 81 PFDoA



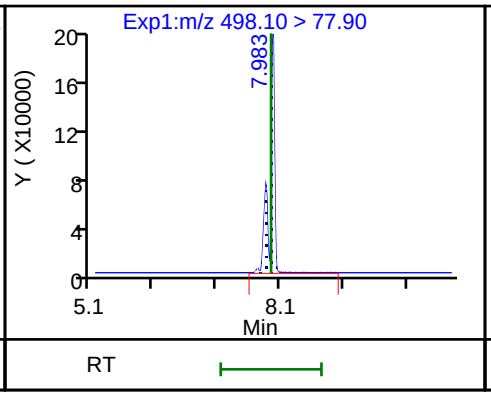
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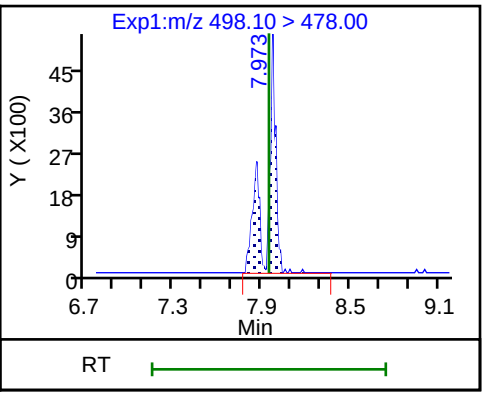
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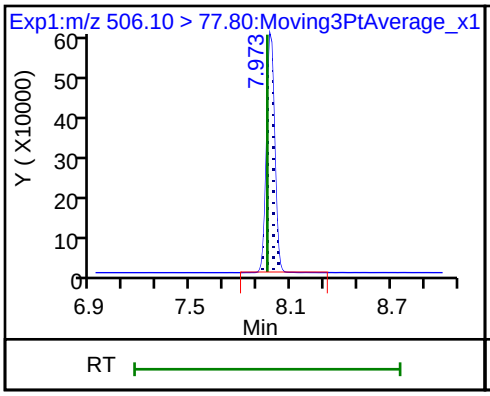
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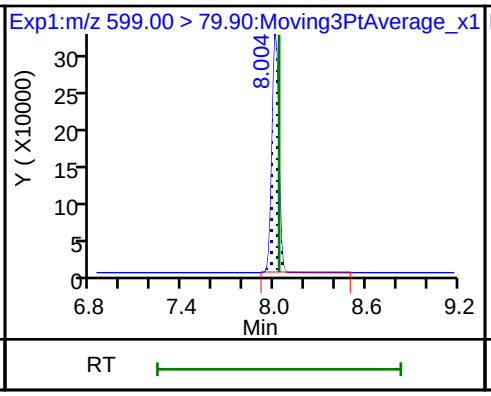
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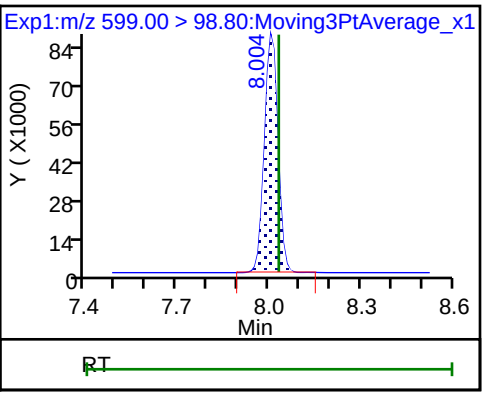
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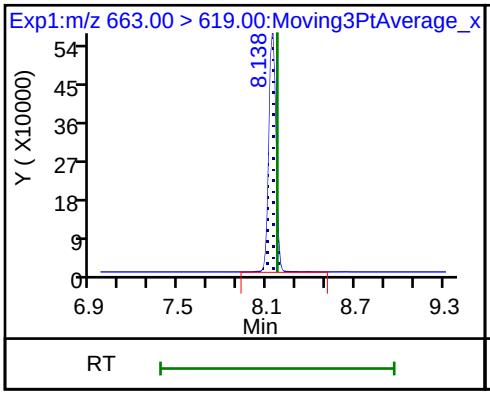
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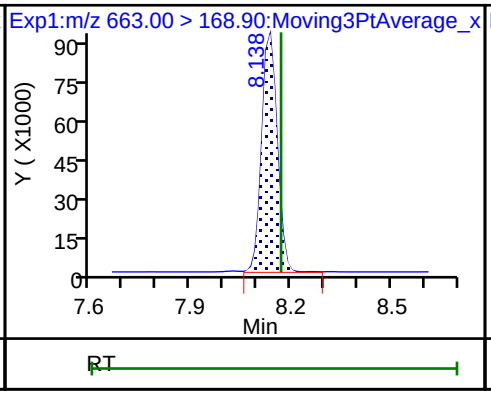
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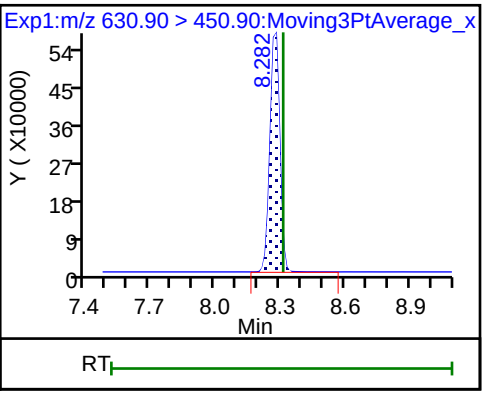
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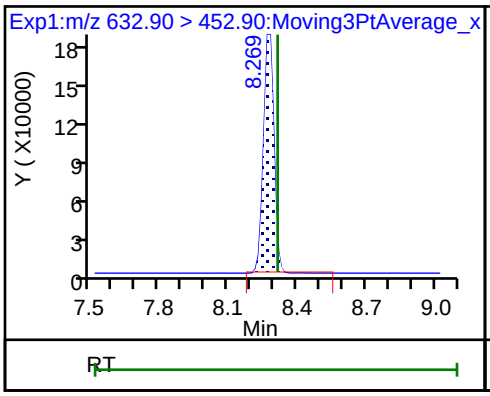
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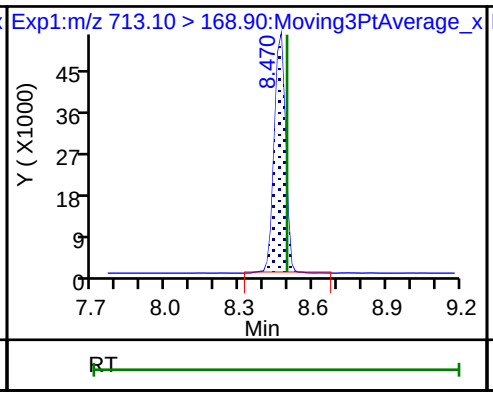
68 11ClFOS



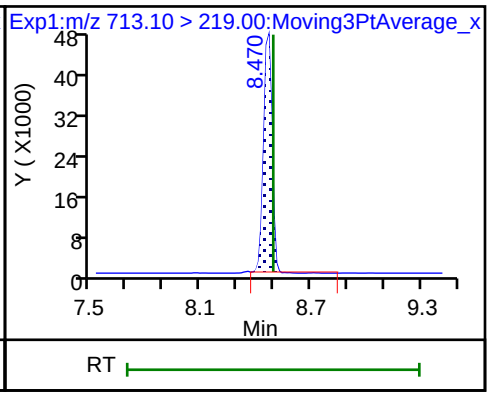
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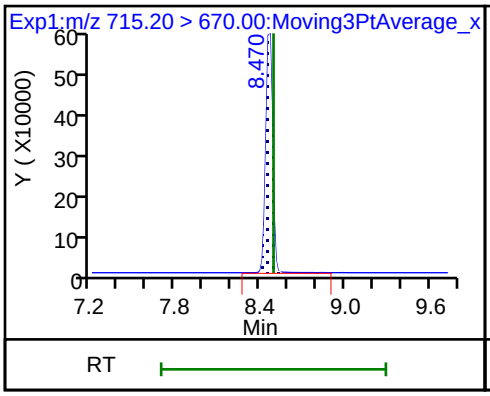
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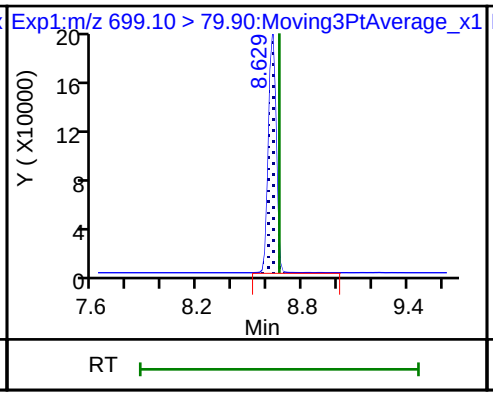
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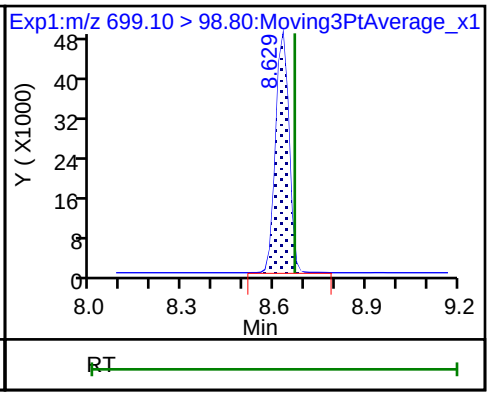
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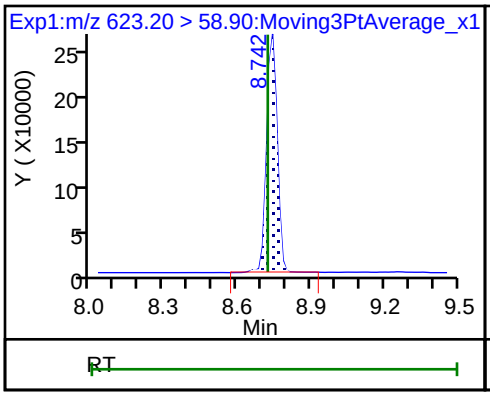
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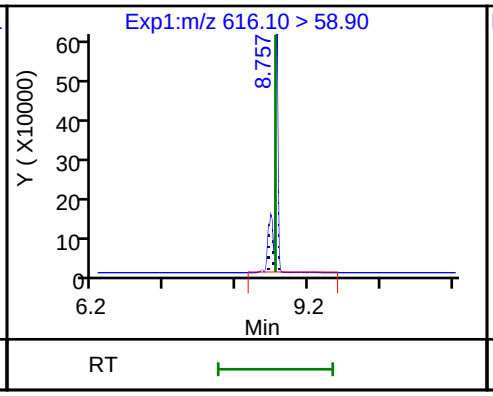
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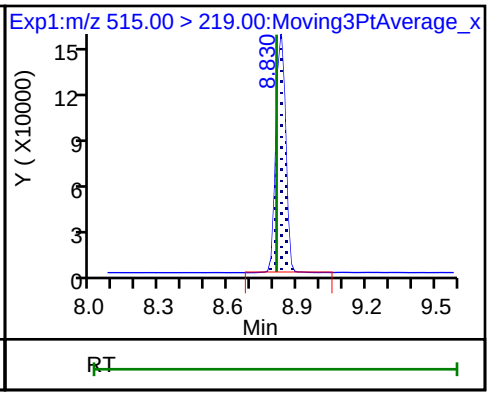
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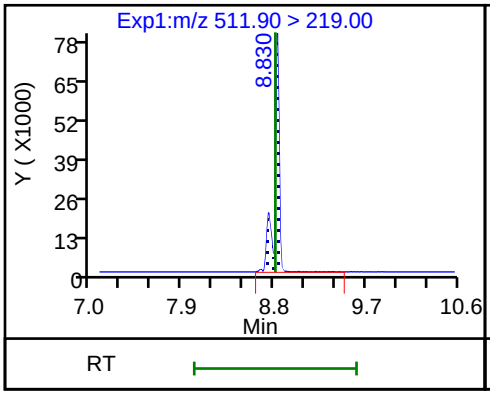
72 N-MeFOSE-M



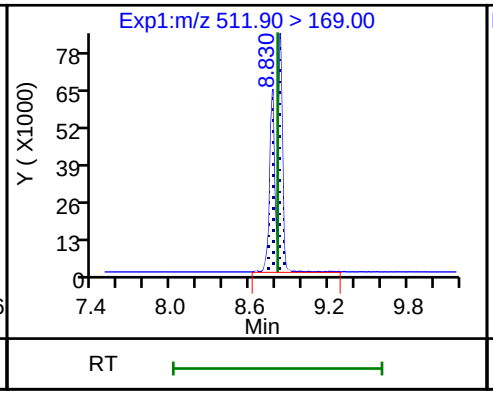
D 74 d3-NMePFOSA



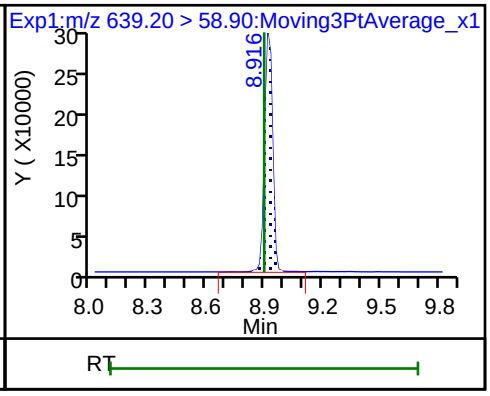
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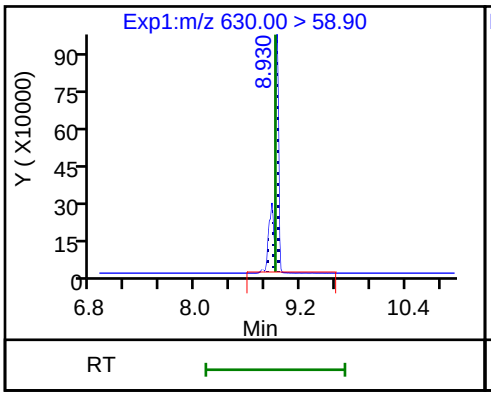
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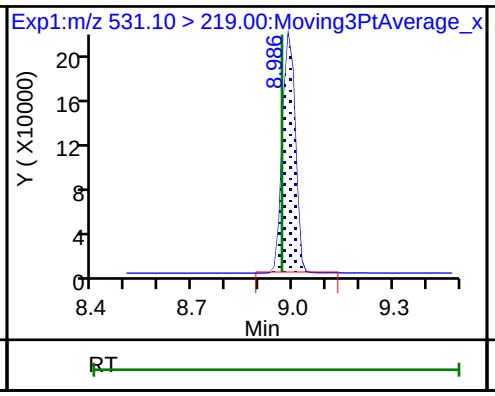
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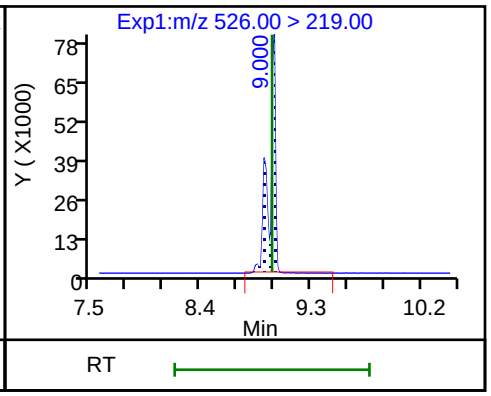
77 N-EtFOSE-M



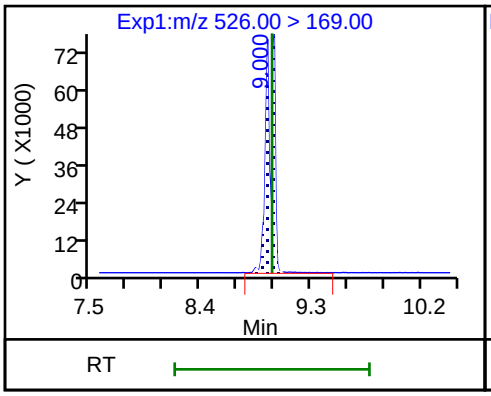
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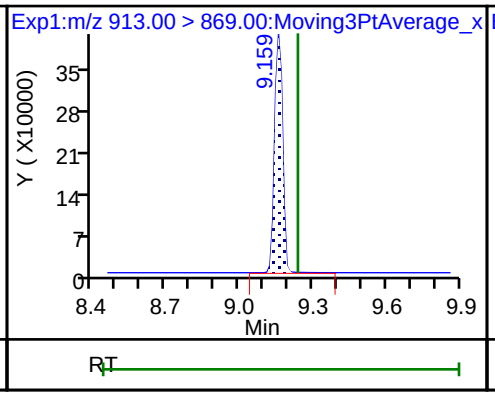
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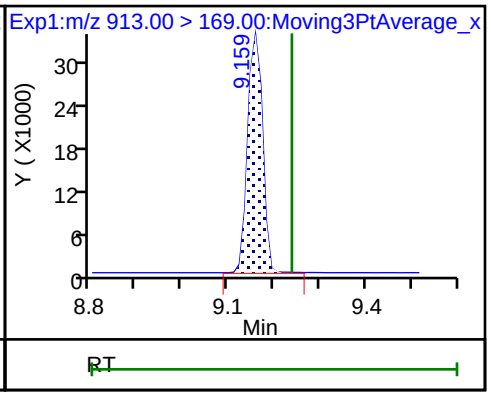
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

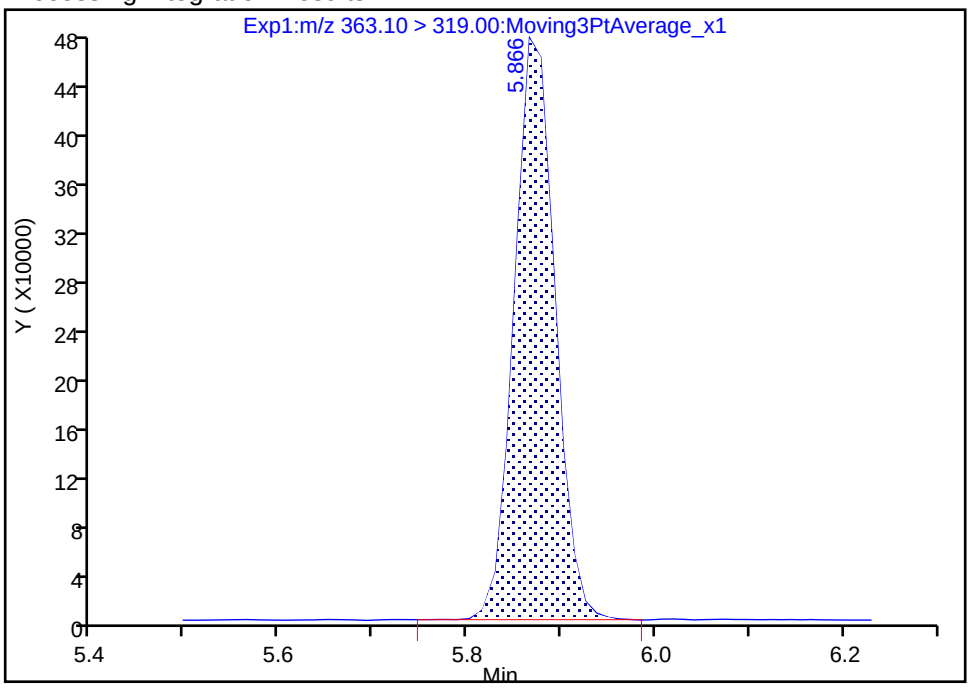
Data File:	\\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-51.d				
Injection Date:	04-Feb-2026 17:57:09	Instrument ID:	30575		
Lims ID:	CCV 5_CAL4				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	5	Worklist Smp#:	134
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

27 PFHpA, CAS: 375-85-9

Signal: 1

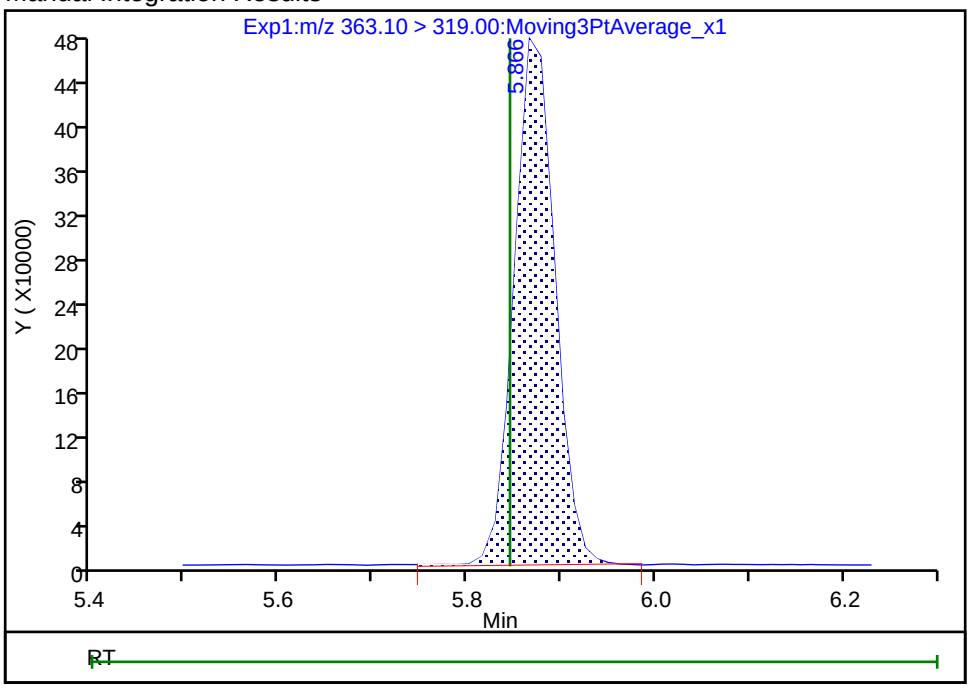
Processing Integration Results

RT: 5.87
Area: 1426399
Amount: 1.021169
Amount Units: ng/ml



Manual Integration Results

RT: 5.87
Area: 1426399
Amount: 1.021169
Amount Units: ng/ml



Reviewer: LDU5, 04-Feb-2026 18:32:40 -05:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-764500/152 Calibration Date: 02/04/2026 21:48

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04SD-68.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9286	0.9062		4.88	5.00	-2.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9389	0.9326		1.99	2.00	-1.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.070	1.044		0.976	1.00	-2.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0516	0.0462		1.79	2.00	-10.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.139	1.109		0.974	1.00	-3.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	1.289	1.232		0.956	1.00	-4.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.734	1.730		1.87	1.88	0.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.3928	0.3639		0.927	1.00	-7.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9603	0.8950		0.932	1.00	-7.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1225	0.1028		4.20	5.00	-16.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9056	0.8710		0.854	0.888	-4.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	0.7960	0.6412		0.806	1.00	-19.0	30.0
Hexafluoropropylene oxide dimer acid (HFPO DA)	AveID	0.9588	0.9727		0.761	0.750	1.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.095	2.089		0.890	0.892	0.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9803	1.048		1.07	1.00	7.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.269	3.439		0.995	0.946	5.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.314	1.370		0.980	0.940	4.0	30.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	AveID	2.083	2.163		1.98	1.90	4.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.154	2.243		1.02	0.979	4.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.7584	0.7940		1.05	1.00	5.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.1114	0.0948		4.26	5.00	-15.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.281	1.217		0.866	0.912	-5.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.8768	0.8528		0.973	1.00	-3.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.642	1.540		1.80	1.92	-6.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.3327	0.3175		0.882	0.924	-5.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.207	1.204		0.951	0.954	0.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.370	1.215		0.887	1.00	-11.0	30.0
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	1.118	1.104		0.988	1.00	-1.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-764500/152 Calibration Date: 02/04/2026 21:48

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04SD-68.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.8375	0.8178		0.976	1.00	-2.0	30.0
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8212	0.8464		1.03	1.00	3.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.442	1.345		0.868	0.930	-7.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7396	0.7482		1.01	1.00	1.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.850	2.606		0.854	0.934	-9.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.150	1.097		0.918	0.962	-5.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.8922	0.9110		1.02	1.00	2.0	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9173	0.8869		0.967	1.00	-3.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.170	1.169		0.963	0.964	0.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	1.214	1.150		0.947	1.00	-5.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	2.203	2.165		0.928	0.944	-2.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1745	0.1610		0.923	1.00	-8.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.6932	0.7397		1.04	0.970	7.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	2.687	2.578		4.80	5.00	-4.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	1.023	1.023		1.00	1.00	0.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	3.951	3.427		4.34	5.00	-13.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9421	0.9110		0.967	1.00	-3.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9489	1.025		1.08	1.00	8.0	30.0
13C3-PFPrA	Ave	0.7248	0.6979		1.93	2.00	-4.0	30.0
13C4 PFBA	Ave	1.208	1.225		2.03	2.00	1.0	30.0
13C5 PFPeA	Ave	0.8198	0.8451		2.06	2.00	3.0	30.0
M2-4:2 FTS	Ave	0.2529	0.2204		4.09	4.69	-13.0	30.0
13C5 PFHxA	Ave	1.156	1.213		2.10	2.00	5.0	30.0
13C3 PFBS	Ave	1.273	1.363		2.00	1.86	7.0	30.0
13C3 HFPO-DA	Ave	0.7911	0.7759		1.96	2.00	-2.0	30.0
13C4 PFHpA	Ave	1.133	1.139		2.01	2.00	1.0	30.0
M2-6:2 FTS	Ave	0.1501	0.1403		4.45	4.76	-7.0	30.0
13C8 PFOA	Ave	1.000	0.9842		1.97	2.00	-2.0	30.0
13C3 PFHxS	Ave	1.001	1.062		2.01	1.90	6.0	30.0
13C9 PFNA	Ave	1.004	1.038		2.07	2.00	3.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-764500/152 Calibration Date: 02/04/2026 21:48

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04SD-68.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
M2-8:2 FTS	Ave	0.1462	0.1532		5.03	4.80	5.0	30.0
d3-NMeFOSAA	Ave	0.3721	0.3764		5.06	5.00	1.0	30.0
13C6 PFDA	Ave	1.020	1.001		1.96	2.00	-2.0	30.0
d5-NEtFOSAA	Ave	0.3287	0.3535		5.38	5.00	8.0	30.0
13C8 PFOS	Ave	0.9257	0.9602		1.99	1.92	4.0	30.0
13C7 PFUnA	Ave	1.226	1.175		1.92	2.00	-4.0	30.0
13C2 PFDoA	Ave	1.087	1.149		2.11	2.00	6.0	30.0
13C8 FOSA	Ave	1.143	1.097		1.92	2.00	-4.0	30.0
13C2 PFTeDA	Ave	0.6001	0.6187		2.06	2.00	3.0	30.0
d7-N-MeFOSE-M	Ave	0.1675	0.1693		5.05	5.00	1.0	30.0
d3-NMePFOSA	Ave	0.2599	0.2541		1.96	2.00	-2.0	30.0
d9-N-EtFOSE-M	Ave	0.1704	0.1892		5.55	5.00	11.0	30.0
d5-NEtPFOSA	Ave	0.3171	0.3149		1.99	2.00	-1.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-68.d
Lims ID: CCV 6_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 04-Feb-2026 21:48:13 ALS Bottle#: 5 Worklist Smp#: 152
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCV 6_CAL4
Misc. Info.: Plate: 1 Rack: 1 410-0174617-152
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 23:46:02 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 23:41:38
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										
163.00 > 119.00	2.105	2.098	0.006	0.982	3559177	4.88		97.6	2929	
D 2 13C3PFPrA										
166.00 > 121.00	2.144	2.114	0.030	0.491	1571025	1.93		96.3	1071	
5 PFBA										
212.80 > 168.90	4.356	4.330	0.026	0.998	2572214	1.99		99.3	6694	
D 6 13C4-PFBA										
216.80 > 171.90	4.365	4.338	0.027	1.000	2758100	2.03		101	13346	
* 7 13C3PFBA										
216.00 > 172.00	4.365	4.338	0.027		2251032	2.00			5267	
9 PFMPA										
229.00 > 84.90	4.649	4.627	0.022	0.933	1077702	0.9757		97.6	4230	
10 3:3 FTCA										
241.00 > 177.00	4.659	4.637	0.022	0.935	95393	1.79	Target=1.28	89.5	1346	
241.00 > 117.00	4.659	4.637	0.022	0.935	77369		1.23(0.64-1.92)		669	
D 11 13C5 PFPeA										
268.30 > 223.00	4.984	4.955	0.029	0.917	2065523	2.06		103	5005	
12 PFPA										
263.00 > 219.00	4.984	4.968	0.016	1.000	1145500	0.9735		97.4	1193	
13 PFMBA										
279.00 > 85.10	5.127	5.112	0.015	1.029	1272461	0.9557		95.6	6548	
15 4:2FTS										
327.10 > 307.00	5.255	5.240	0.015	1.000	643210	1.87	Target=1.67	99.8	4262	
327.10 > 80.90	5.255	5.240	0.015	1.000	397061		1.62(0.83-2.50)		457	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.255	5.240	0.015	0.816	929457	4.09		87.1	5856	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.395	5.378	0.017	0.992	539413	0.9265	Target=1.57	92.7	1355	
295.00 > 84.90	5.395	5.378	0.017	0.992	360379		1.50(0.78-2.35)		2182	
D 17 13C5 PFHxA										
318.00 > 273.00	5.437	5.418	0.019	1.000	2964493	2.10		105	15313	
* 18 13C2 PFHxA										
315.10 > 270.00	5.437	5.432	0.005		6110482	5.00			8073	
19 PFHxA										
313.00 > 269.00	5.437	5.432	0.005	1.000	1326572	0.9320	Target=12.08	93.2	952	
313.00 > 118.90	5.437	5.432	0.005	1.000	117480		11.29(6.04-18.11)		752	
22 5:3 FTCA										
341.00 > 237.10	5.505	5.500	0.005	1.013	761948	4.20	Target=0.89	83.9	1099	
341.00 > 217.00	5.505	5.500	0.005	1.013	863092		0.88(0.45-1.34)		1920	
21 PFBS										
298.70 > 79.90	5.574	5.568	0.006	1.003	947678	0.8541	Target=3.03	96.2	5554	
298.70 > 98.80	5.560	5.568	-0.008	1.000	323241		2.93(1.52-4.55)		1835	
D 20 13C3 PFBS										
302.10 > 79.90	5.560	5.568	-0.008	0.863	2283828	1.99		107	6465	
28 FBSA										
297.90 > 78.00	5.588	5.582	0.006	1.005	785665	0.8055		80.6	1049	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.617	5.611	0.006	1.033	1896339	1.96		98.1	4764	
24 HFPO-DA										
284.90 > 168.90	5.617	5.611	0.006	1.000	691747	0.7609	Target=2.32	101	1555	
284.90 > 184.90	5.617	5.611	0.006	1.000	277365		2.49(1.16-3.48)		1430	
25 PFEESA										
314.80 > 134.90	5.797	5.791	0.006	1.066	2761555	0.8895	Target=13.29	99.7	13858	
314.80 > 82.90	5.797	5.791	0.006	1.066	211900		13.03(6.64-19.93)		1316	
27 PFHpA										
363.10 > 319.00	5.848	5.845	0.003	1.000	1458156	1.07	Target=2.38	107	715	
363.10 > 169.00	5.848	5.845	0.003	1.000	565603		2.58(1.19-3.58)		675	
D 26 13C4 PFHpA										
367.10 > 322.00	5.848	5.845	0.003	1.076	2783034	2.01		101	6002	
29 ADONA										
376.90 > 250.90	5.992	5.988	0.004	1.067	3084961	1.00	Target=1.85	105	23304	
376.90 > 84.80	5.992	5.988	0.004	1.067	1658323		1.86(0.92-2.77)		5178	
32 PFPeS										
349.10 > 79.90	6.026	6.033	-0.007	0.935	1229329	0.9798	Target=3.35	104	6478	
349.10 > 98.90	6.026	6.033	-0.007	0.935	364009		3.38(1.68-5.03)		2507	
31 6:2FTS										
427.10 > 407.00	6.037	6.033	0.004	1.000	519665	1.98	Target=1.88	104	1221	
427.10 > 80.90	6.037	6.033	0.004	1.000	263513		1.97(0.94-2.83)		804	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.037	6.033	0.004	0.937	600652	4.45		93.5	2822	
33 BTS										
280.00 > 147.00	6.173	6.189	-0.016	0.958	2096604	1.02		104	10849	
D 35 13C8 PFOA										
421.10 > 376.00	6.227	6.233	-0.006	0.998	3440841	1.97		98.5	8685	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.238	6.233	0.005		8739864	5.00			10893	
36 PFOA										
413.00 > 369.00	6.227	6.233	-0.006	1.000	1366077	1.05	Target=2.16	105	31021	
413.00 > 169.00	6.227	6.233	-0.006	1.000	616742		2.21(1.08-3.25)		21770	
39 7:3 FTCA										
441.00 > 316.90	6.301	6.296	0.005	1.159	702409	4.25	Target=0.79	85.1	1576	
441.00 > 336.90	6.301	6.296	0.005	1.159	864742		0.81(0.39-1.18)		2546	
40 PFHxS										
398.70 > 79.90	6.441	6.460	-0.019	1.000	1059470	0.8664	Target=3.45	95.0	1739	
398.70 > 98.90	6.454	6.460	-0.006	1.002	306852		3.45(1.73-5.18)		515	
* 38 18O2 PFHxS										
403.00 > 83.90	6.441	6.460	-0.019		1704853	1.90			5186	
D 37 13C3 PFHxS										
402.10 > 79.90	6.441	6.460	-0.019	1.000	1810209	2.01		106	6410	
D 42 13C9 PFNA										
472.10 > 427.00	6.613	6.620	-0.007	1.000	3037679	2.07		103	6952	
* 41 13C5 PFNA										
468.00 > 423.00	6.613	6.620	-0.007		2925145	2.00			4912	
43 PFNA										
463.00 > 419.00	6.613	6.620	-0.007	1.000	1295252	0.9726	Target=2.87	97.3	199246	
463.00 > 219.00	6.613	6.620	-0.007	1.000	473753		2.73(1.44-4.31)		572	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.783	6.790	-0.007	1.053	661414	5.03		105	4240	
45 8:2FTS										
527.10 > 507.00	6.783	6.790	-0.007	1.000	407560	1.80	Target=1.57	93.8	2678	
527.10 > 80.80	6.783	6.790	-0.007	1.000	257208		1.58(0.79-2.36)		1279	
46 PFECHS										
461.00 > 381.00	6.806	6.824	-0.018	1.057	280133	0.8820	Target=0.30	95.5	316	
461.00 > 99.00	6.806	6.824	-0.018	1.057	936577		0.30(0.15-0.45)		2366	
47 PFHpS										
449.00 > 79.90	6.839	6.857	-0.018	0.945	1004074	0.9513	Target=3.53	99.7	3619	
449.00 > 98.80	6.839	6.857	-0.018	0.945	266601		3.77(1.76-5.29)		1723	
53 FHxSA										
397.90 > 78.00	6.885	6.869	0.015	1.069	1160452	0.8872		88.7	4193	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.933	6.940	-0.007	0.958	1713636	5.06		101	1990	
49 NMeFOSAA										
570.10 > 419.00	6.933	6.940	-0.007	1.000	378515	0.9881	Target=1.75	98.8	115673	
570.10 > 483.00	6.933	6.940	-0.007	1.000	219767		1.72(0.87-2.62)		218	
D 50 13C6 PFDA										
519.10 > 474.10	6.994	7.015	-0.021	1.000	3229814	1.96		98.1	7796	
* 52 13C2 PFDA										
515.10 > 470.10	6.994	7.015	-0.021		3227192	2.00			10159	
51 PFDA										
512.90 > 469.00	6.994	7.015	-0.021	1.000	1320687	0.9765	Target=4.54	97.6	5096	
512.90 > 219.00	6.994	7.015	-0.021	1.000	290061		4.55(2.27-6.81)		1320	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.101	7.124	-0.023	0.981	1609580	5.38		108	2631	
55 NEtFOSAA										
584.20 > 419.10	7.101	7.124	-0.023	1.000	272480	1.03	Target=1.38	103	372	
584.20 > 526.00	7.115	7.124	-0.009	1.002	192763		1.41(0.69-2.07)		400	
58 PFOS										
498.90 > 79.90	7.236	7.255	-0.019	1.000	1093970	0.8677	Target=4.26	93.3	155196	
498.90 > 98.80	7.248	7.255	-0.007	1.002	250164		4.37(2.13-6.40)		463	
D 56 13C8 PFOS										
507.10 > 79.90	7.236	7.267	-0.031	1.000	1675411	1.99		104	1146	
* 57 13C4 PFOS										
502.80 > 79.90	7.236	7.267	-0.031		1744796	1.92			10115	
D 59 13C7 PFUnA										
570.00 > 525.10	7.380	7.409	-0.029	1.055	3792896	1.92		95.8	5640	
60 PFUnA										
563.10 > 519.00	7.380	7.409	-0.029	1.000	1418858	1.01	Target=5.23	101	4259	
563.10 > 269.10	7.380	7.409	-0.029	1.000	288532		4.92(2.62-7.85)		1989	
61 9ClFOS										
530.80 > 351.00	7.531	7.566	-0.035	1.041	2128210	0.8538	Target=3.05	91.4	4523	
532.80 > 353.00	7.531	7.566	-0.035	1.041	703413		3.03(1.53-4.58)		3579	
62 PFNS										
548.80 > 79.90	7.623	7.656	-0.033	1.054	923052	0.9176	Target=3.70	95.4	6397	
548.80 > 98.80	7.623	7.656	-0.033	1.054	263595		3.50(1.85-5.56)		2311	
D 81 PFDoA										
615.10 > 570.00	7.756	7.801	-0.045	1.109	3708678	2.11		106	9238	
63 PFDoA										
613.10 > 569.00	7.766	7.801	-0.035		1689311	1.02	Target=5.66	102	6639	
613.10 > 319.00	7.766	7.801	-0.035		286509		5.90(2.83-8.49)		3080	
64 PFOSA										
498.10 > 77.90	7.971	7.947	0.024	1.000	885865	0.9668	Target=43.43	96.7	2092	
498.10 > 478.00	7.981	7.947	0.034	1.001	20364		43.50(21.71-65.14)		49.8	
D 65 13C8 FOSA										
506.10 > 77.80	7.971	7.957	0.014	1.102	1997760	1.92		96.0	6796	
66 PFDS										
599.00 > 79.90	7.992	8.031	-0.039	1.104	985072	0.9628	Target=3.54	99.9	10742	
599.00 > 98.80	7.992	8.031	-0.039	1.104	279764		3.52(1.77-5.31)		3462	
67 PFTrDA										
663.00 > 619.00	8.122	8.170	-0.048	0.962	1640295	0.9469	Target=5.76	94.7	4194	
663.00 > 168.90	8.111	8.170	-0.059	0.961	278853		5.88(2.88-8.64)		2829	
68 11ClFOS										
630.90 > 450.90	8.254	8.314	-0.060	1.141	1787416	0.9279	Target=3.06	98.3	5262	
632.90 > 452.90	8.254	8.314	-0.060	1.141	563194		3.17(1.53-4.59)		6150	
70 PFTeDA										
713.10 > 168.90	8.453	8.494	-0.041	1.002	160767	0.9228	Target=1.07	92.3	1902	
713.10 > 219.00	8.439	8.494	-0.055	1.000	141422		1.14(0.54-1.61)		1073	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.439	8.494	-0.055	1.207	1996653	2.06		103	4693	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.612	8.667	-0.055	1.190	627429	1.04	Target=4.17	107	5062	
699.10 > 98.80	8.612	8.667	-0.055	1.190	154787		4.05(2.09-6.26)		1323	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.740	8.723	0.017	1.208	770819	5.05		101	628	
72 N-MeFOSE-M										
616.10 > 58.90	8.755	8.737	0.018	1.002	1987477	4.80		96.0	891	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.828	8.809	0.019	1.220	462742	1.96		97.8	3511	
75 NMeFOSA										
511.90 > 219.00	8.828	8.809	0.019	1.000	236719	1.00	Target=0.69	100.0	1908	
511.90 > 169.00	8.828	8.809	0.019	1.000	331111		0.71(0.34-1.03)		1723	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.914	8.897	0.017	1.232	861526	5.55		111	1279	
77 N-EtFOSE-M										
630.00 > 58.90	8.928	8.911	0.017	1.002	2952618	4.34		86.7	1011057	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.984	8.967	0.017	1.242	573483	1.99		99.3	4154	
79 N-EtFOSA-M										
526.00 > 219.00	8.984	8.981	0.003	1.000	261223	0.9670	Target=0.78	96.7	2119	
526.00 > 169.00	8.984	8.981	0.003	1.000	325606		0.80(0.39-1.17)		2330	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.134	9.238	-0.104	1.082	1023601	1.08	Target=11.85	108	63016	
913.00 > 169.00	9.134	9.238	-0.104	1.082	74630		13.72(5.92-17.77)		4644	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL4_00077 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 23:46:03 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-68.d

Injection Date: 04-Feb-2026 21:48:13 Instrument ID: 30575

Lims ID: CCV 6_CAL4

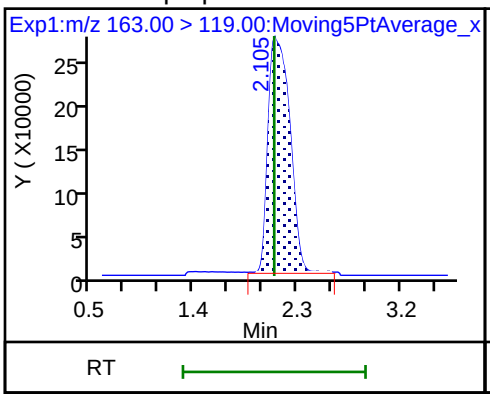
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 5 Worklist Smp#: 152

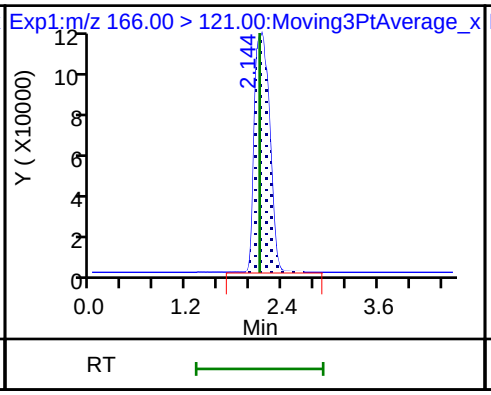
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

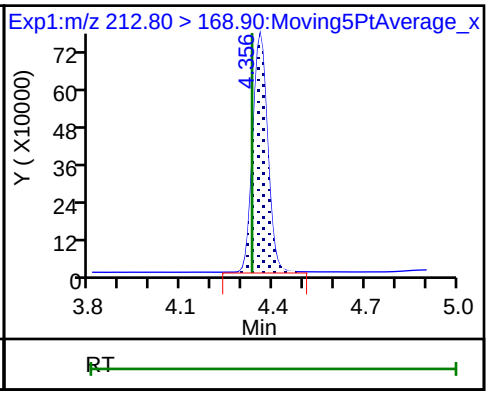
1 Perfluoropropionic acid



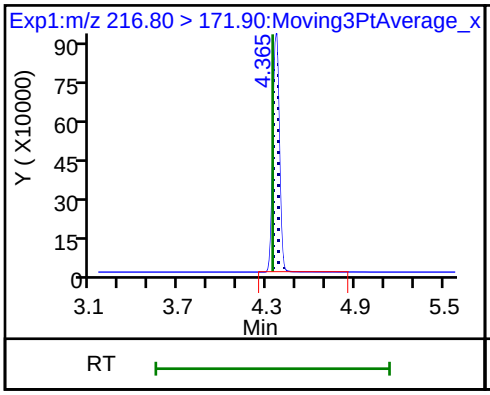
D 2 13C3PFPrA



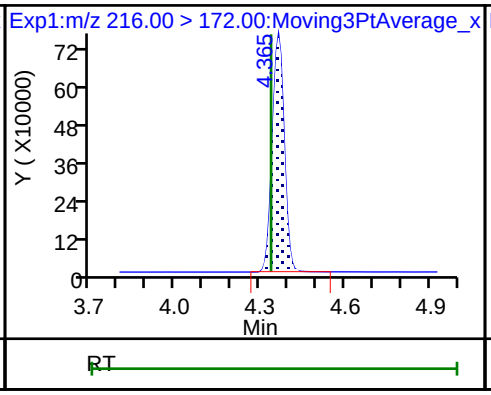
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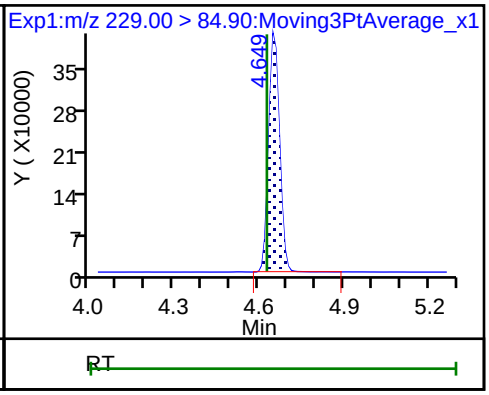
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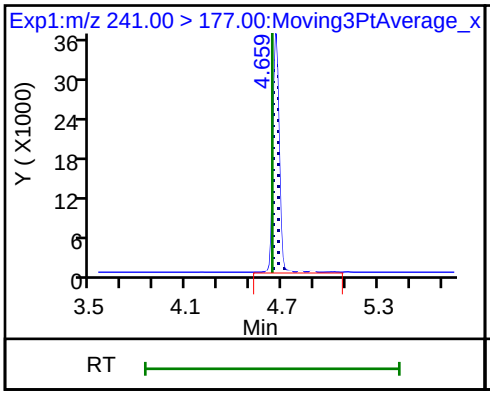
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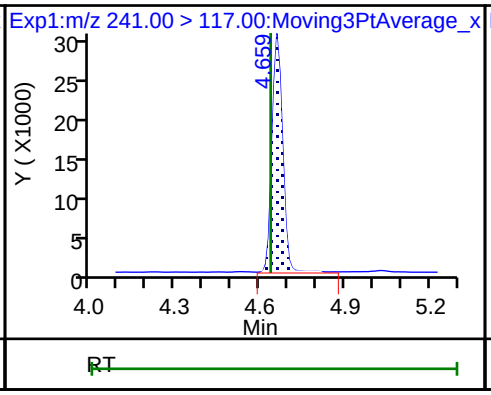
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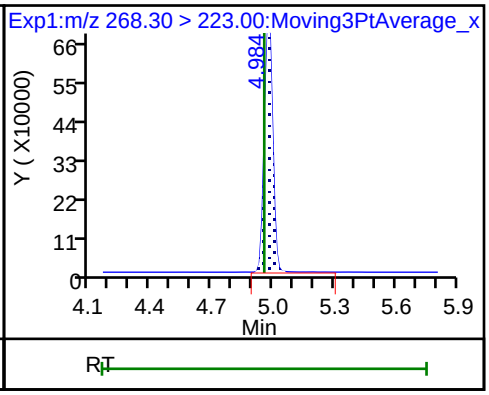
10 3:3 FTCA



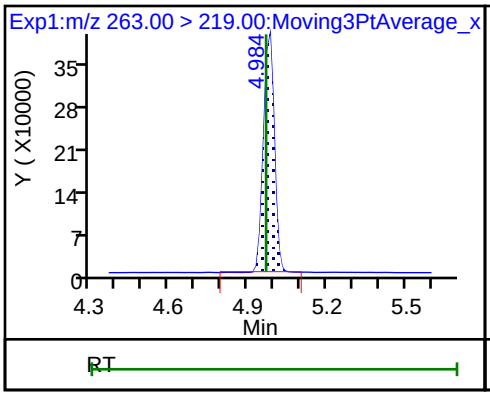
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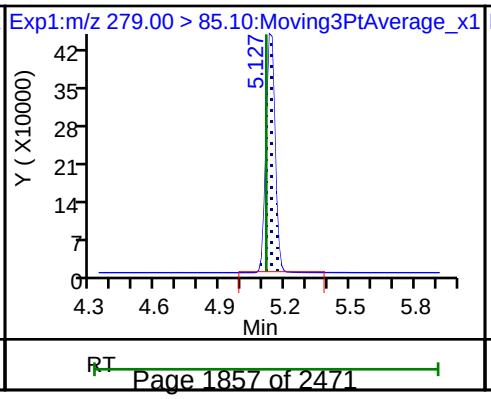
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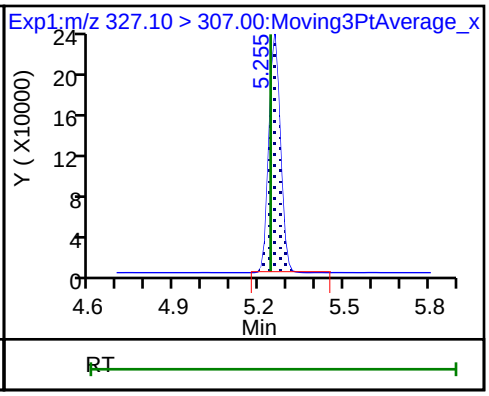
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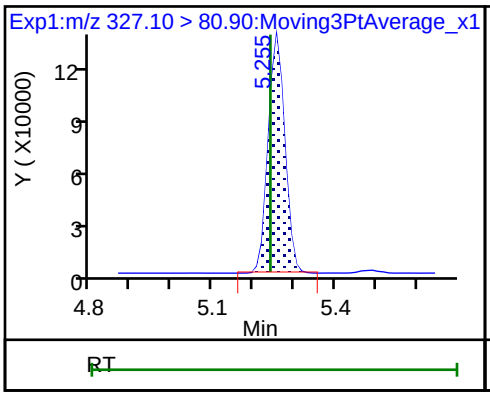
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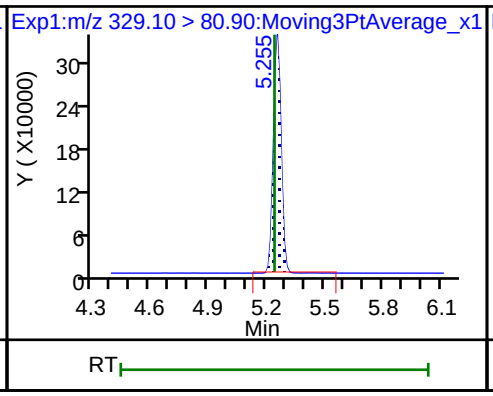
15 4:2FTS



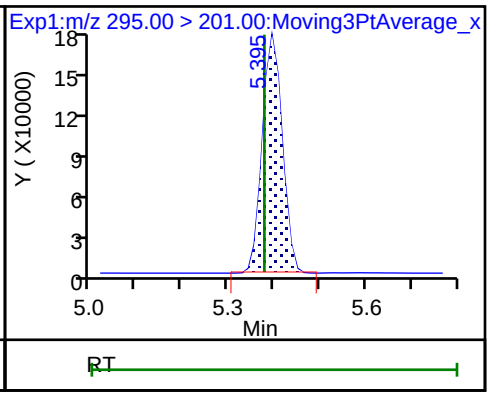
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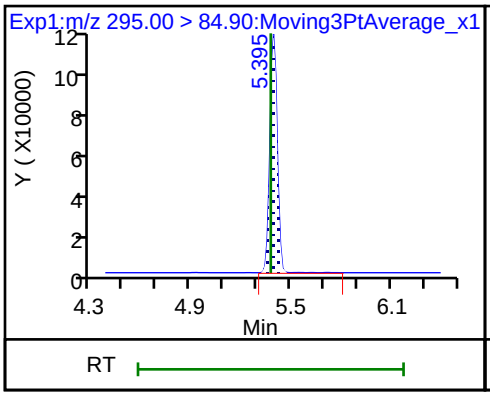
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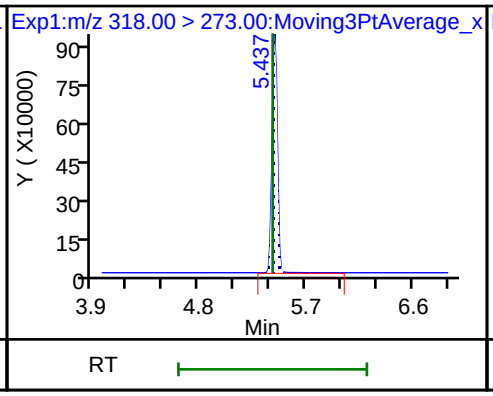
16 NFDHA



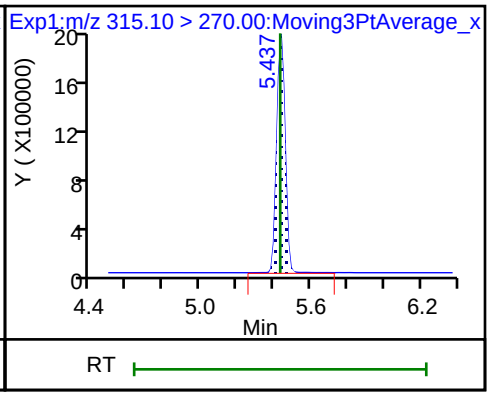
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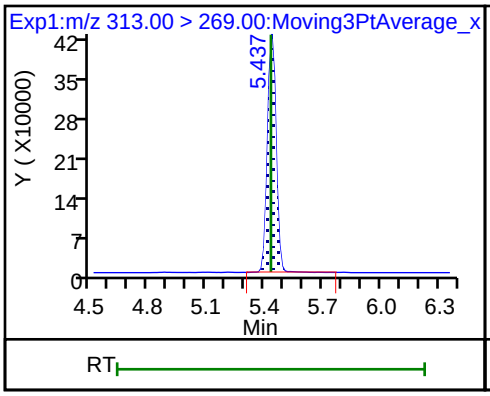
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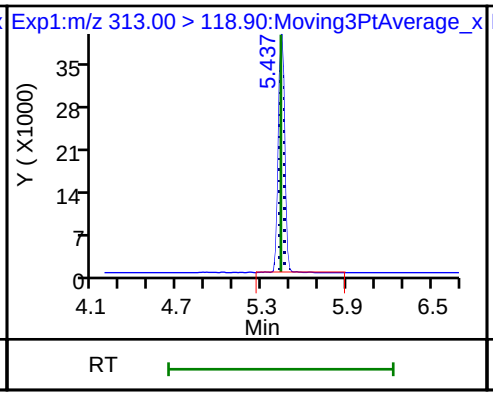
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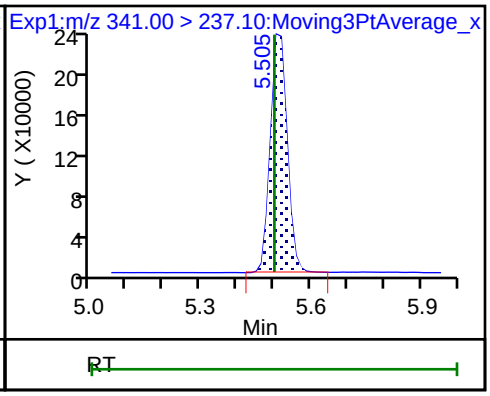
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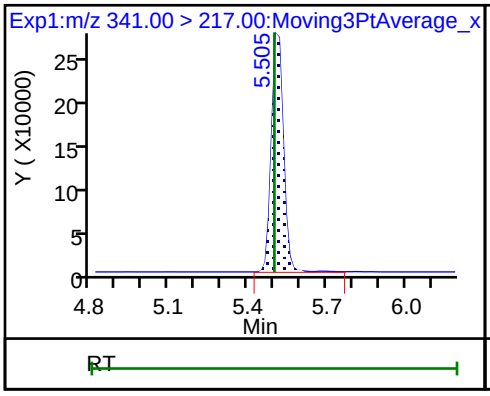
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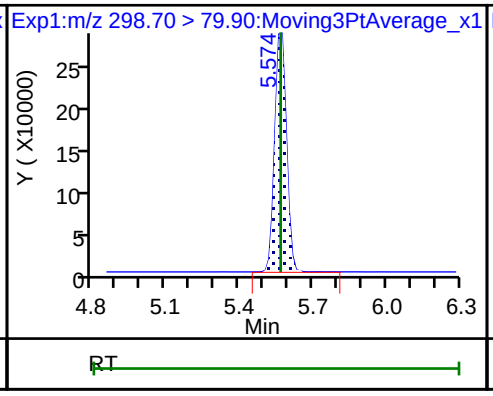
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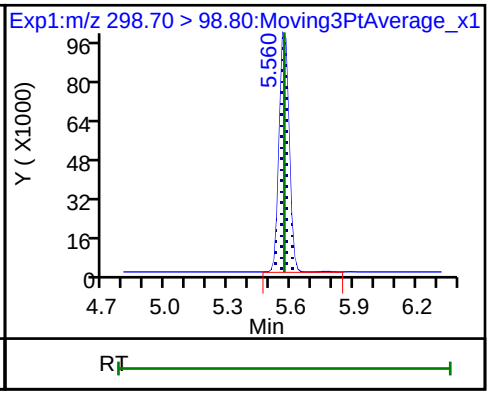
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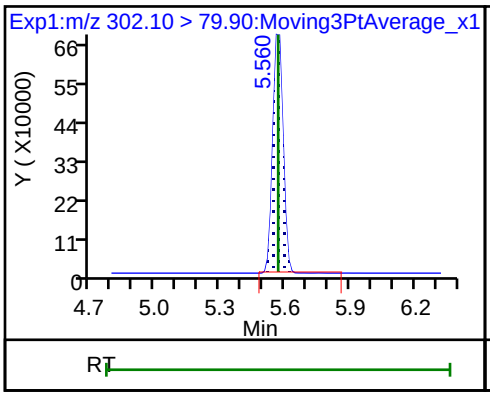
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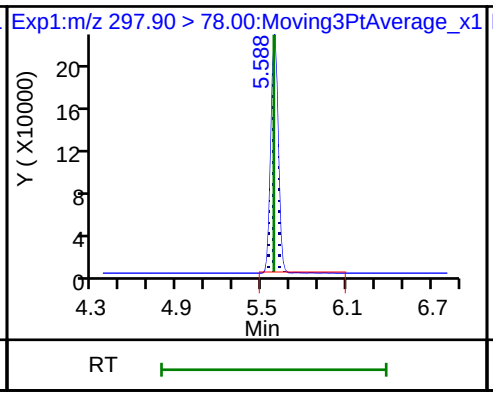
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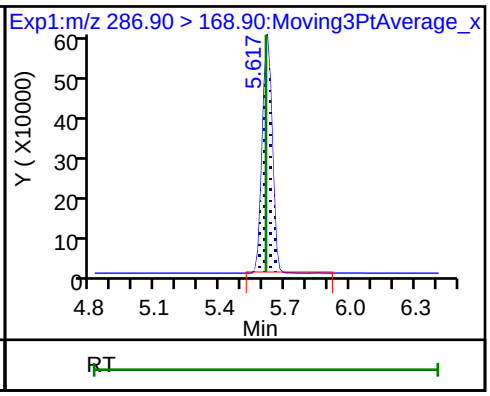
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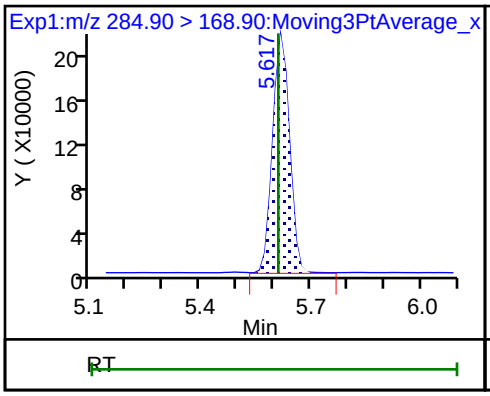
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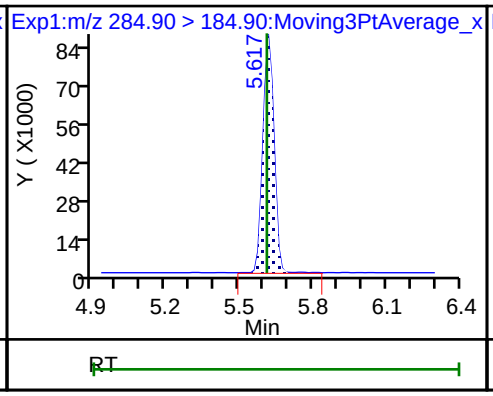
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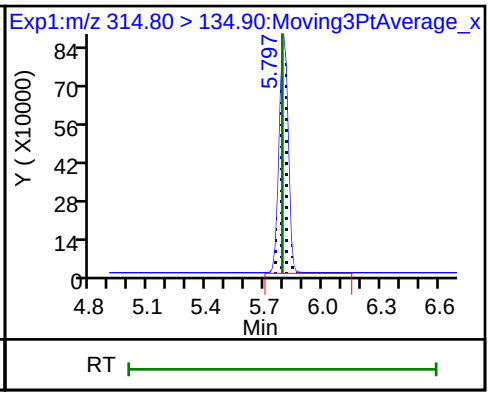
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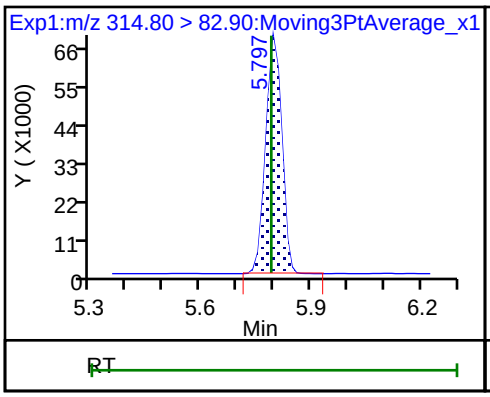
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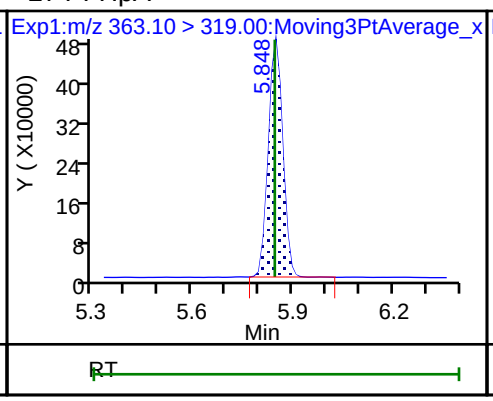
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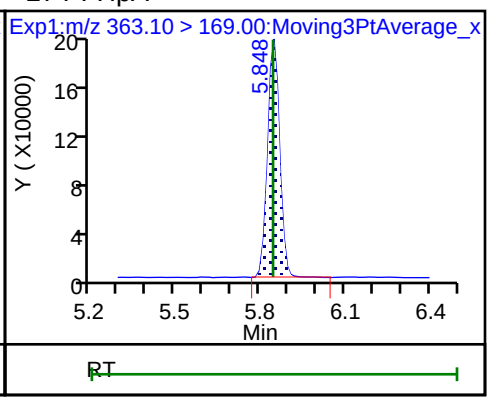
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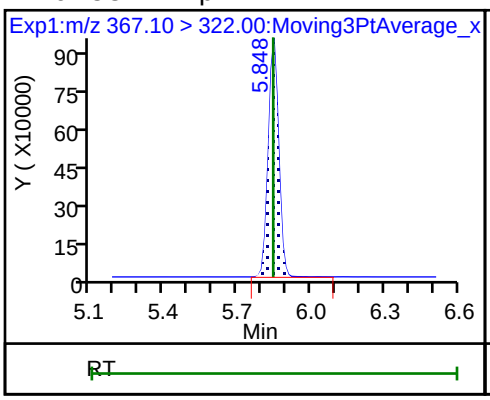
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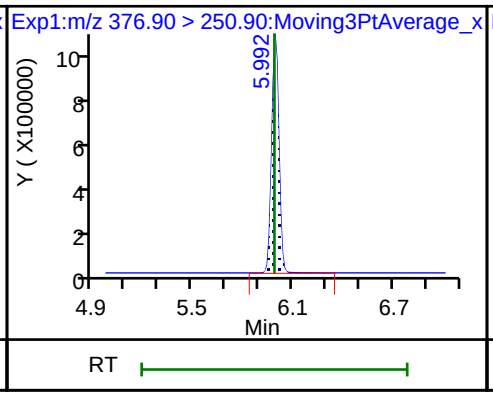
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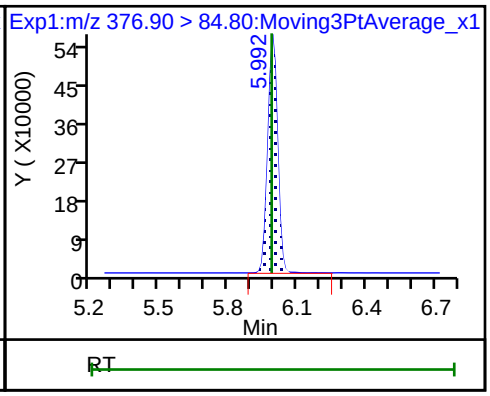
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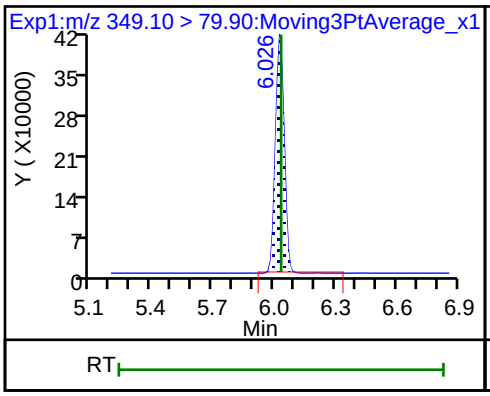
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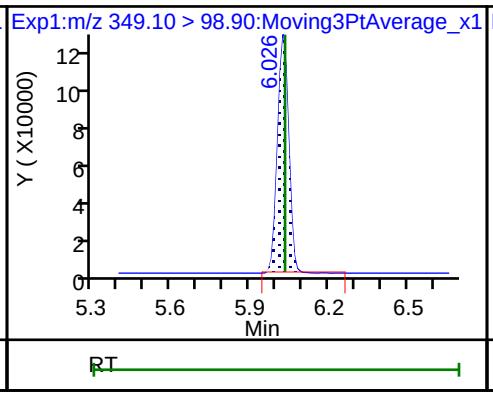
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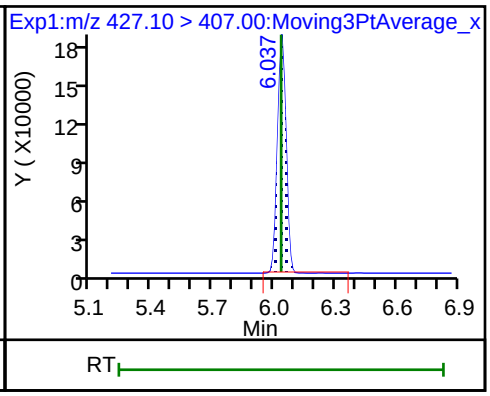
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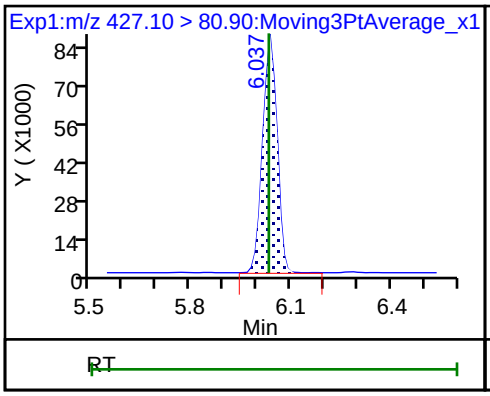
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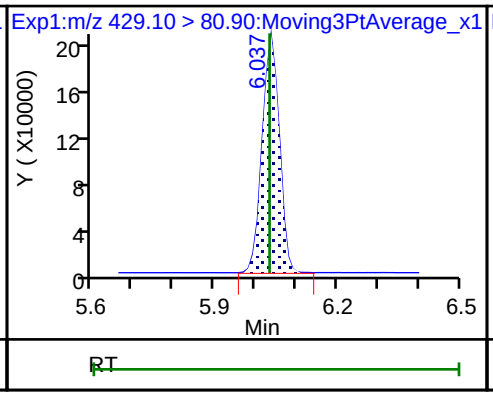
31 6:2FTS



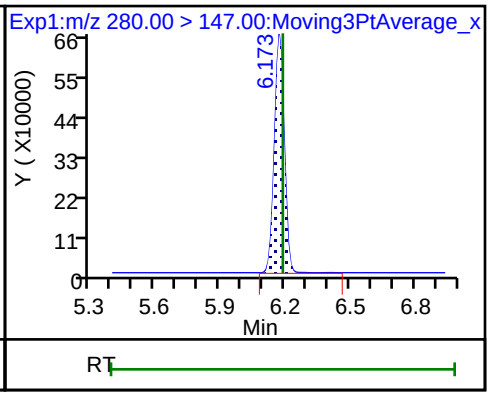
31 6:2FTS



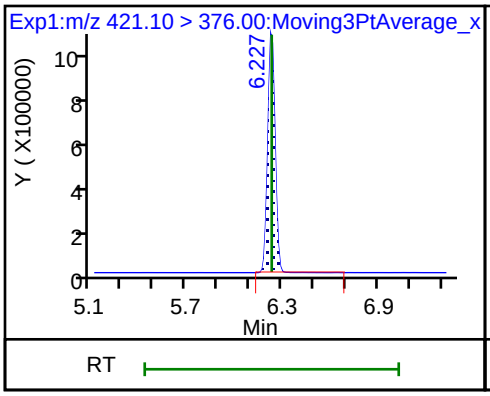
D 30 13C2-6:2FTS



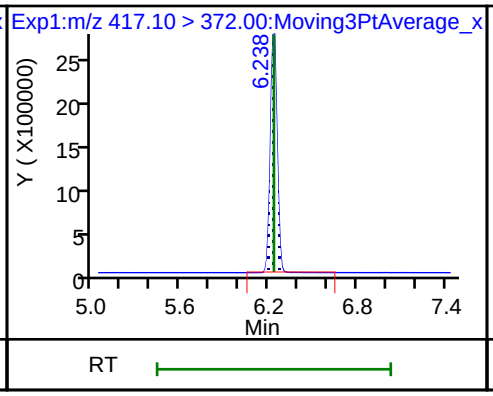
33 BTS



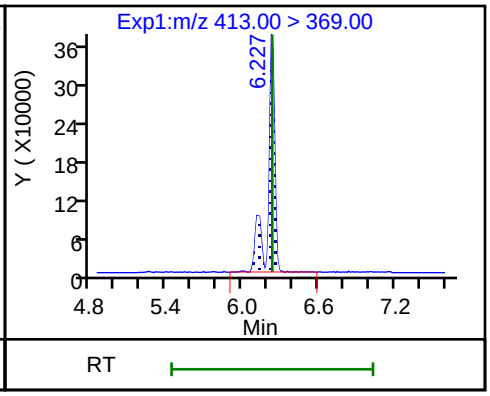
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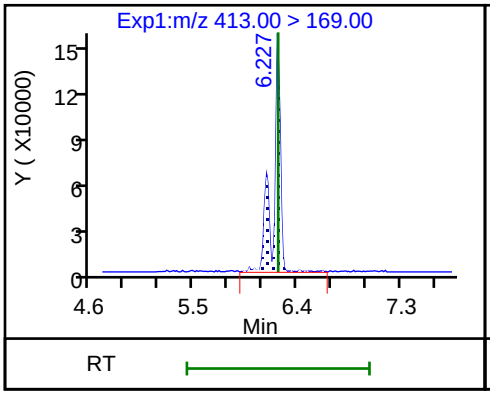
* 34 13C4 PFOA



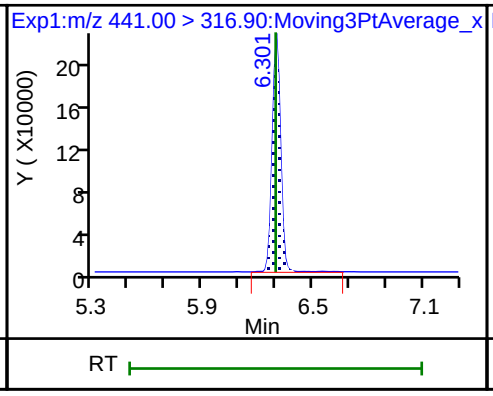
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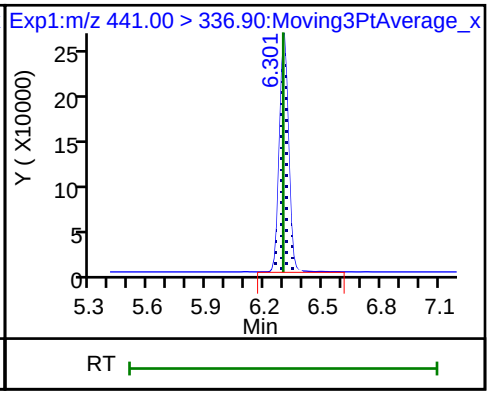
36 PFOA



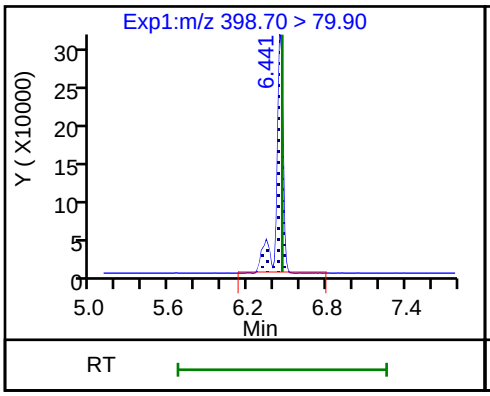
39 7:3 FTCA



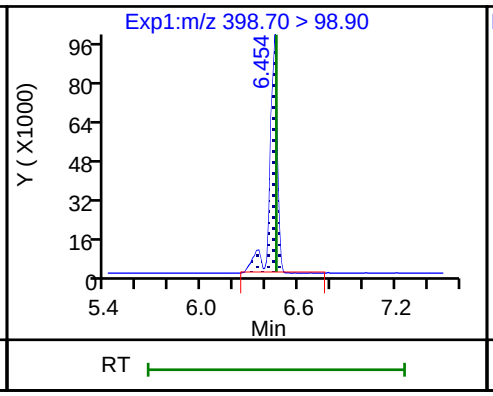
39 7:3 FTCA



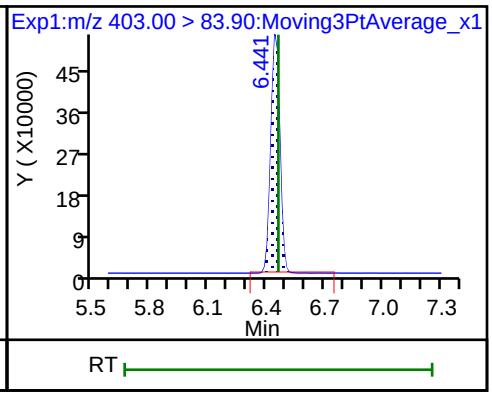
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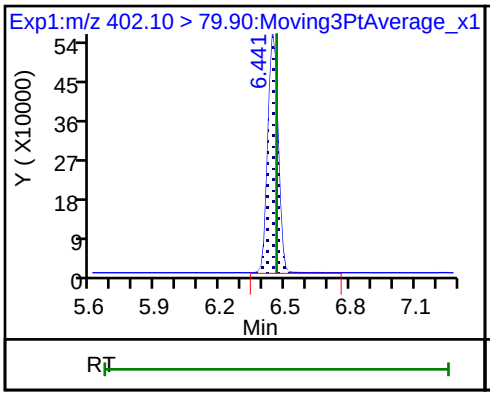
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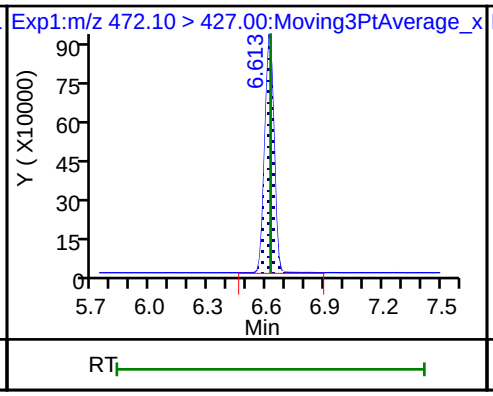
* 38 18O2 PFHxS



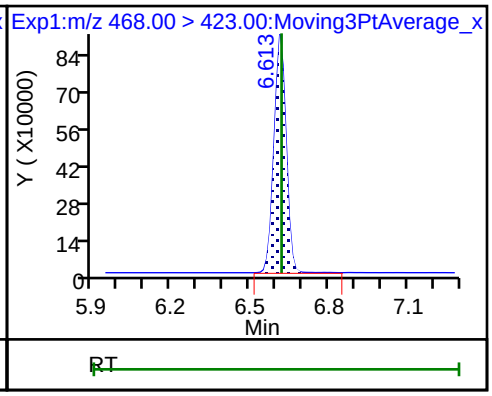
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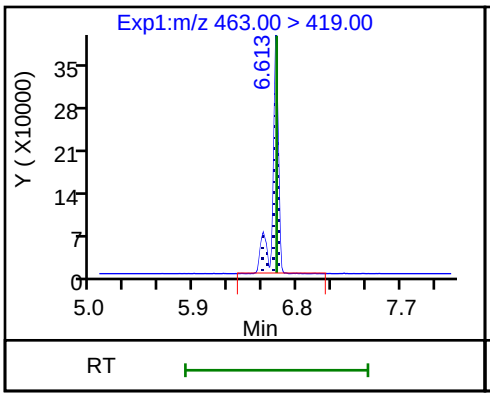
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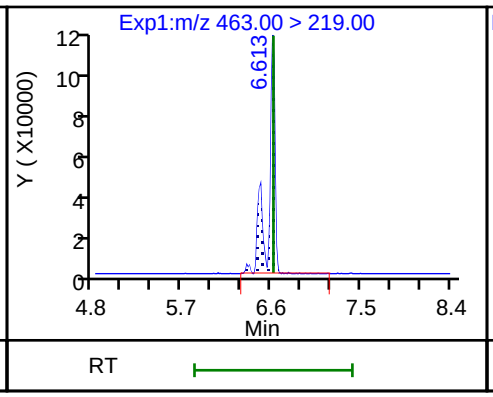
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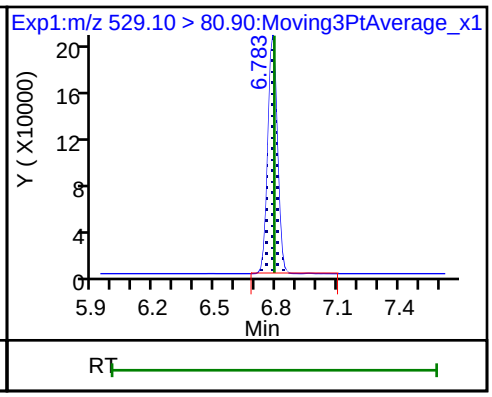
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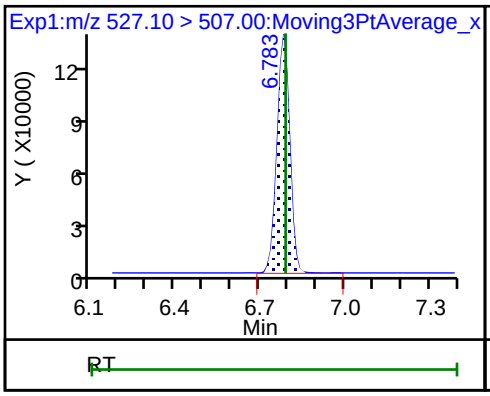
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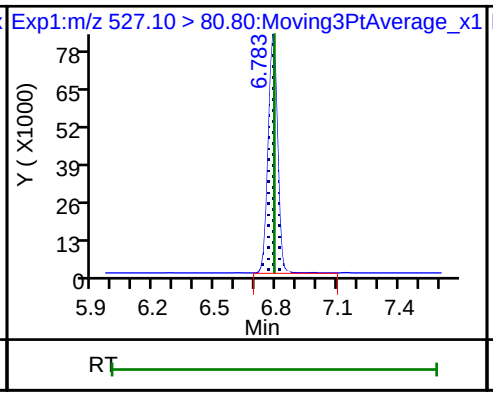
D 44 13C2-8:2FTS



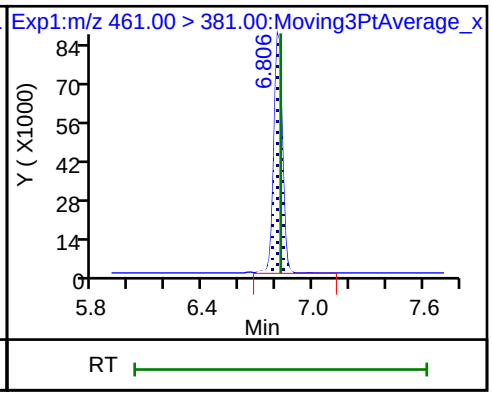
45 8:2FTS



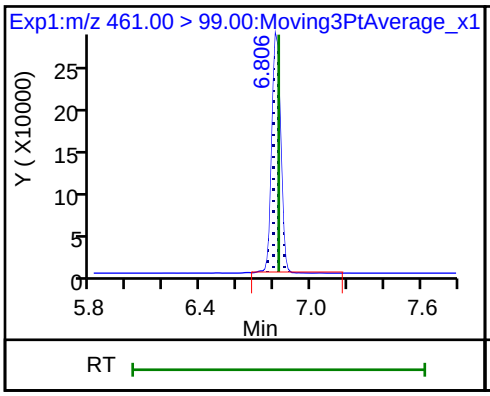
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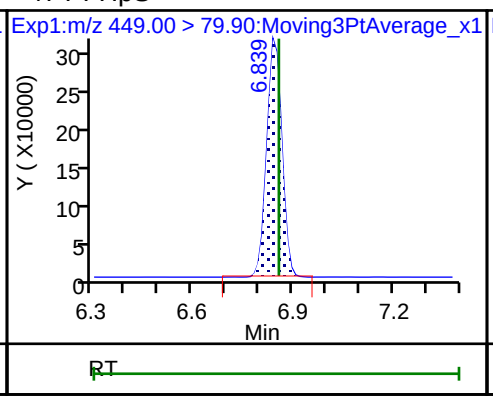
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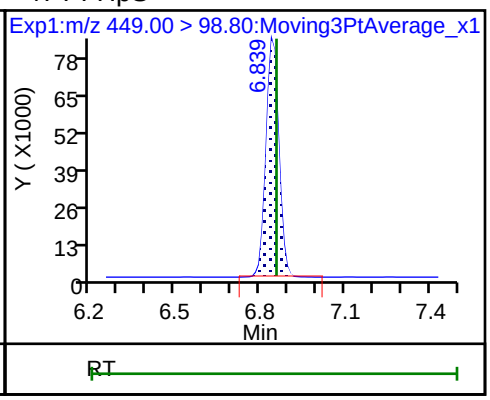
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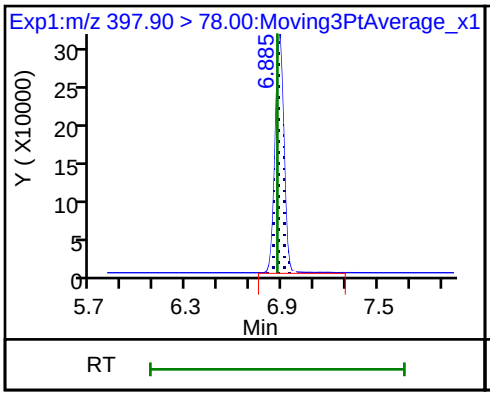
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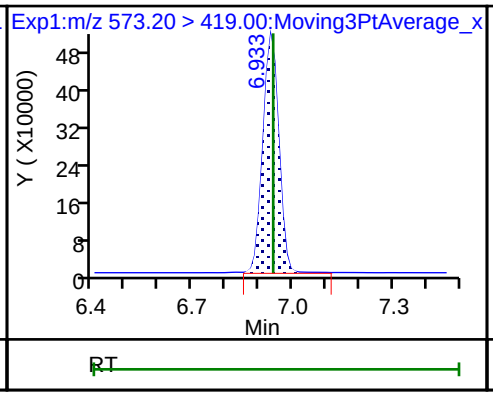
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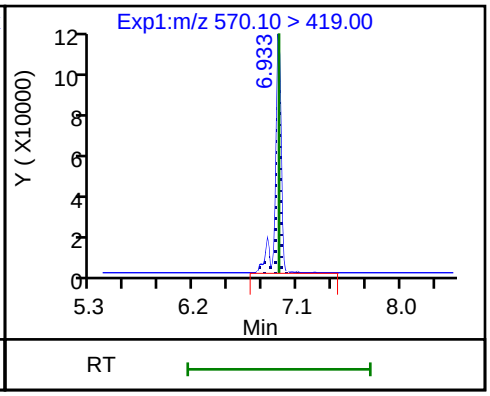
53 FHxSA



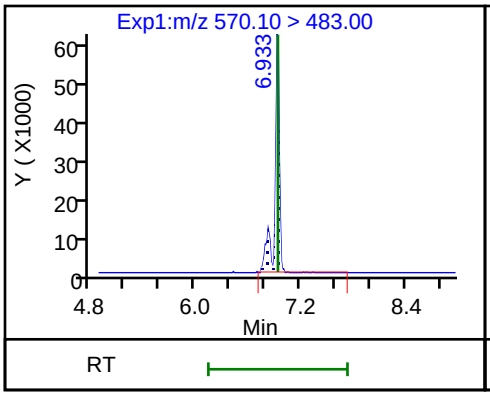
D 48 d3-NMeFOSAA



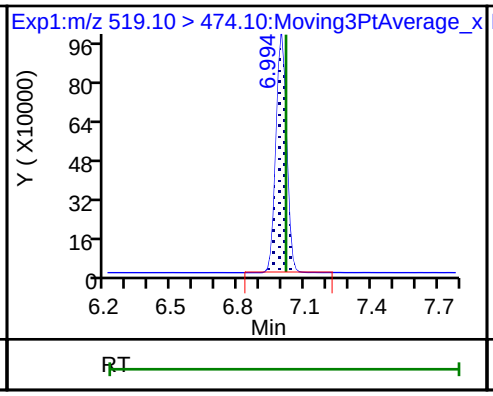
49 NMeFOSAA



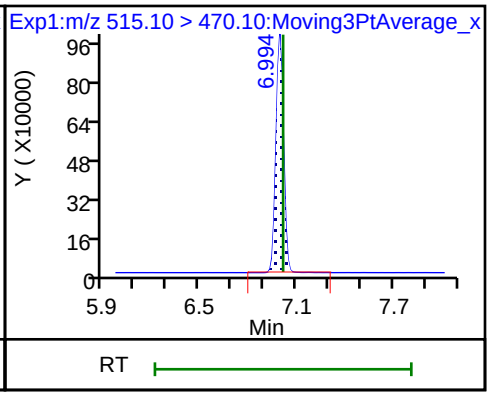
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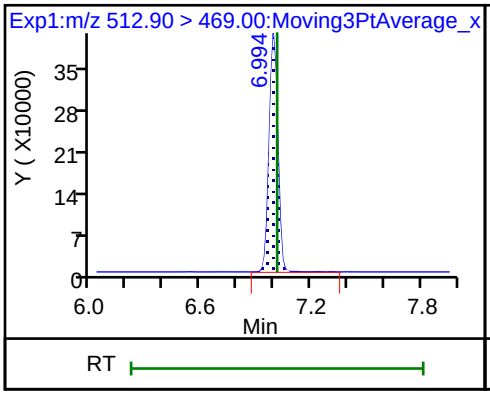
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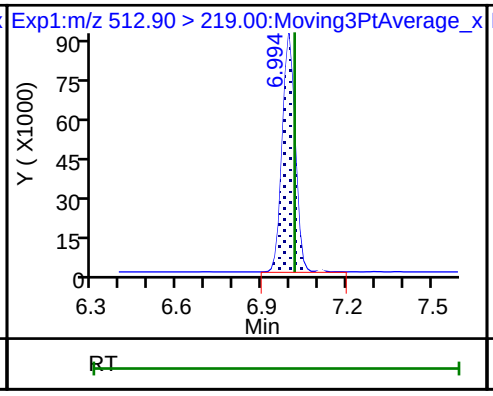
* 52 13C2 PFDA



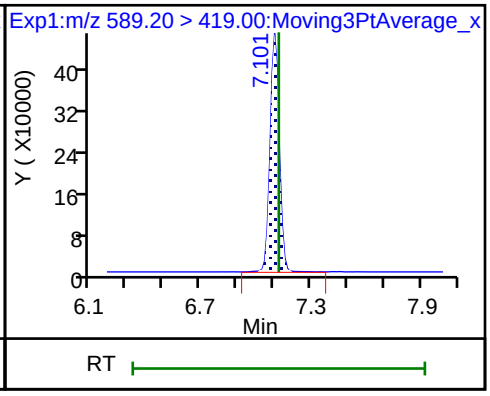
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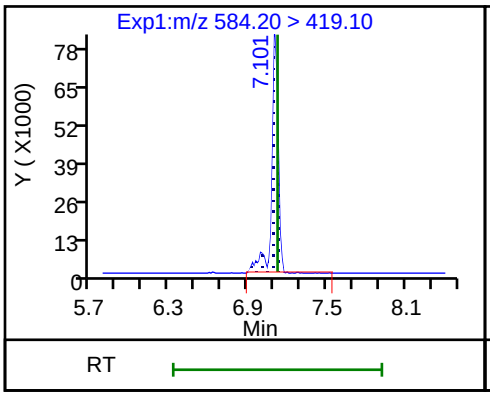
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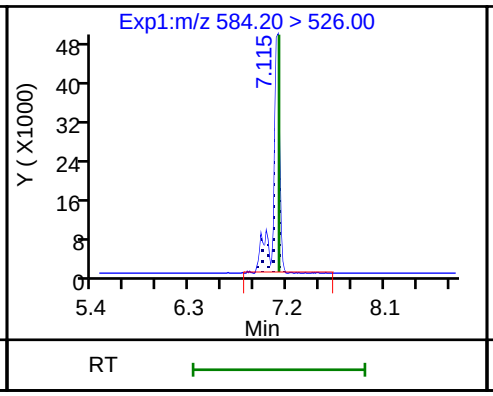
D 54 d5-NEtFOSAA



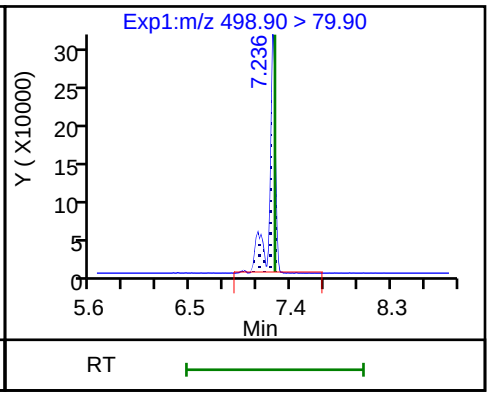
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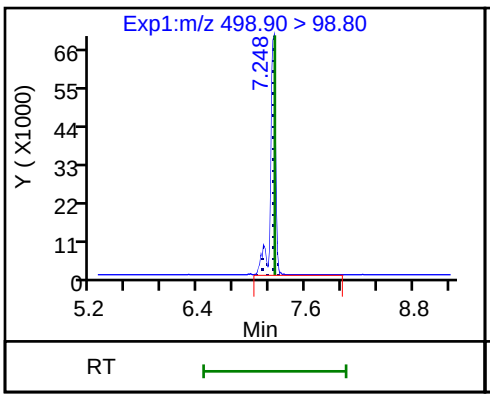
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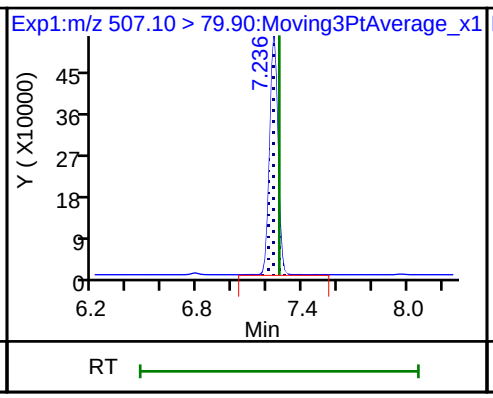
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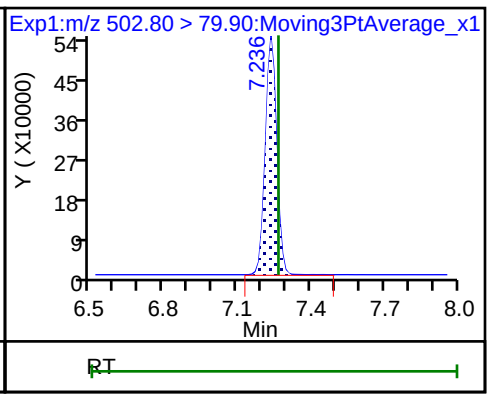
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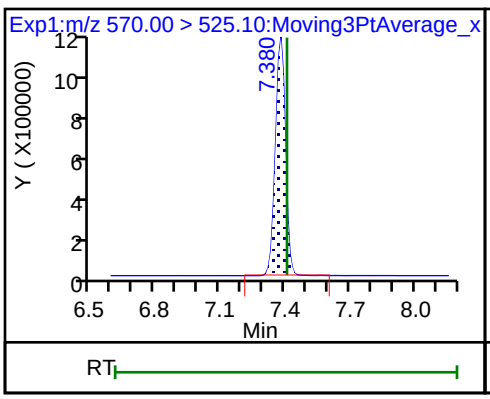
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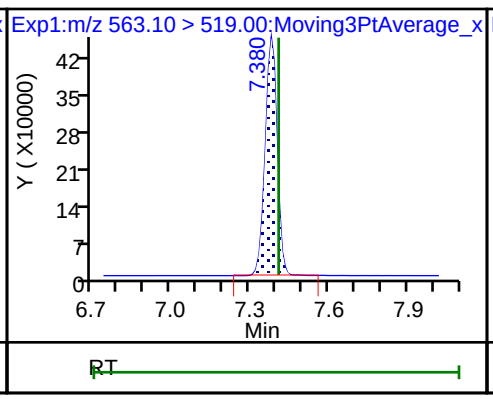
* 57 13C4 PFOS



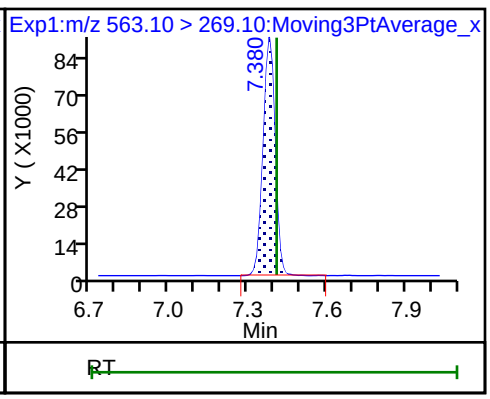
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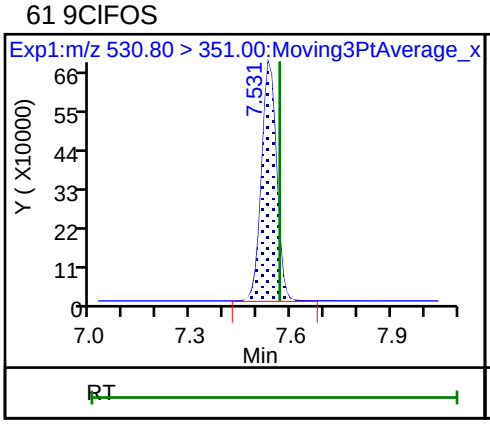
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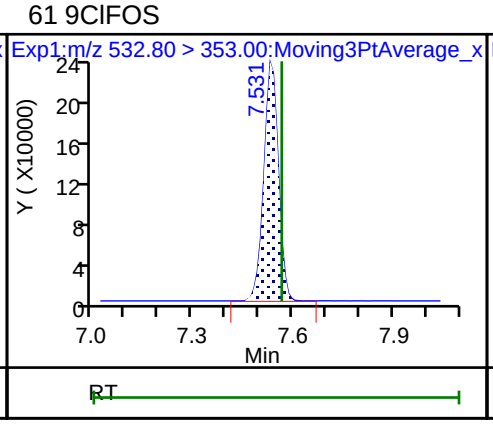
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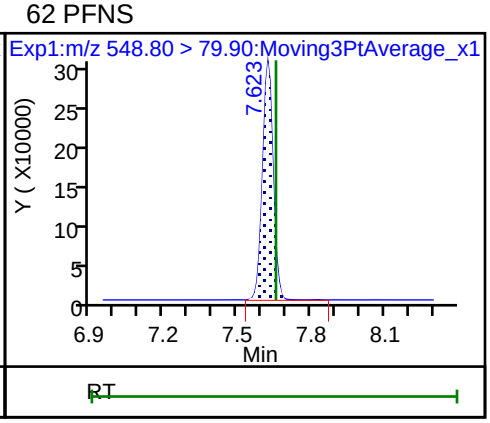
61 9ClFOS



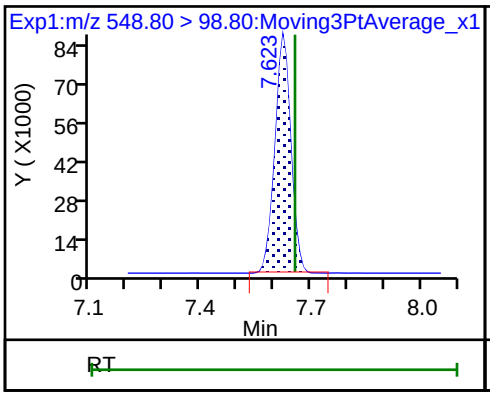
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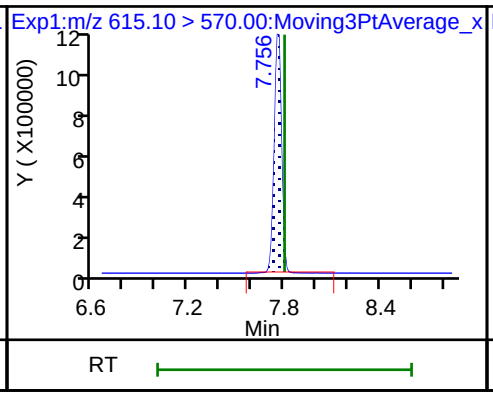
62 PFNS



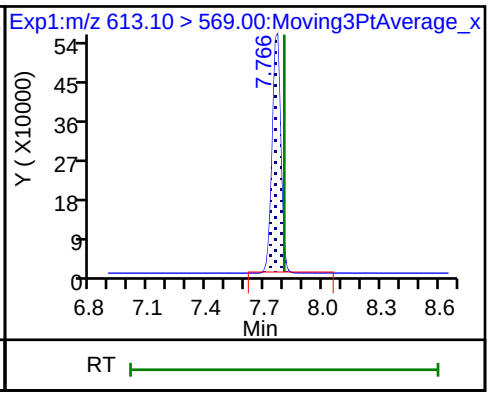
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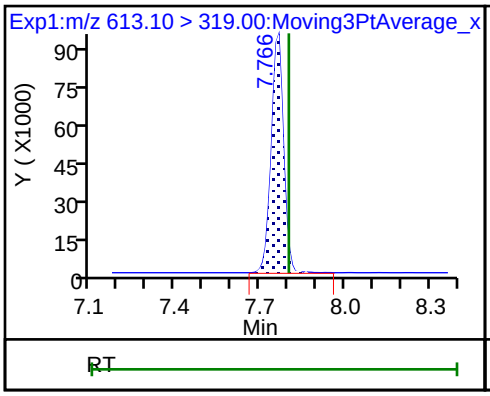
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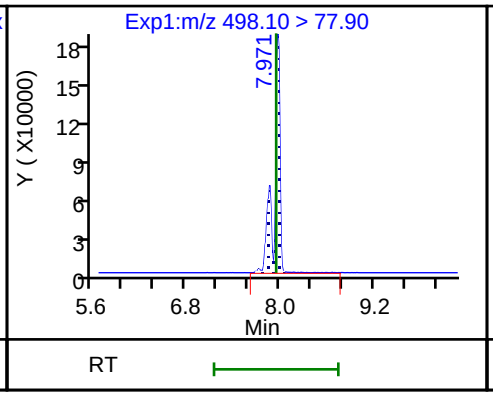
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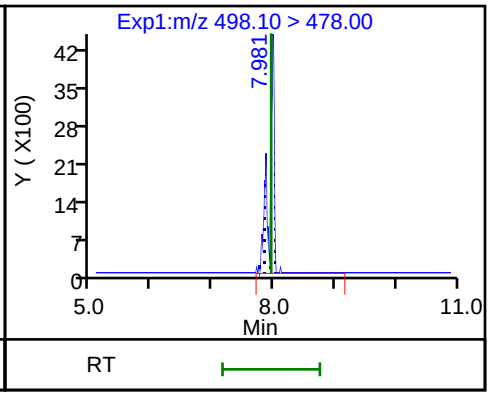
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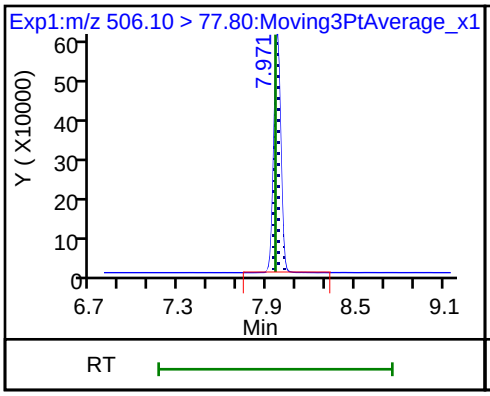
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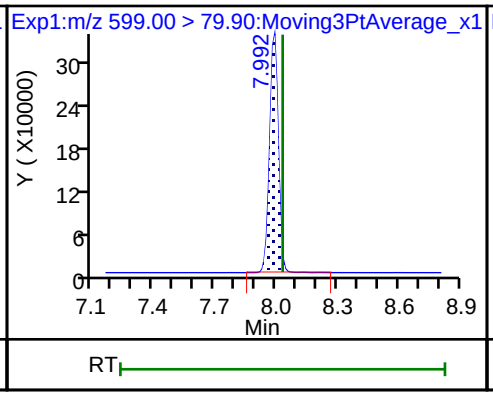
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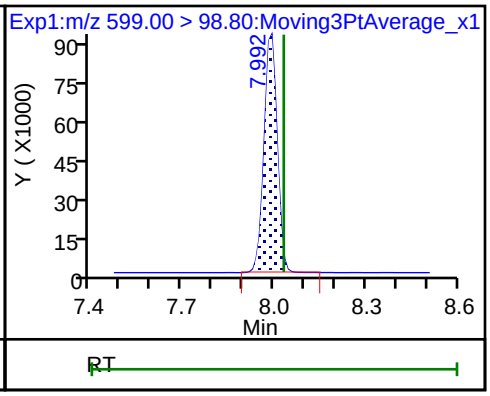
D 65 13C8 FOSA



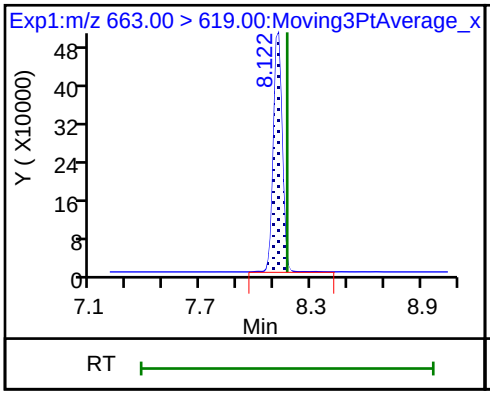
66 PFDS



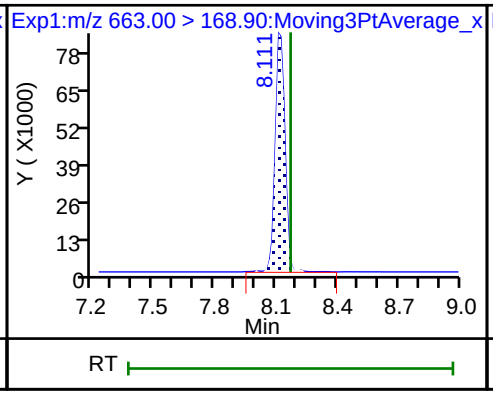
66 PFDS



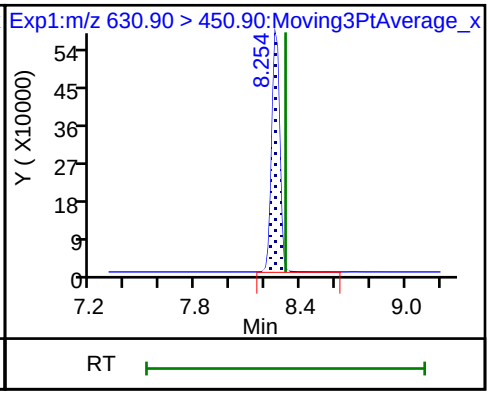
67 PFTrDA



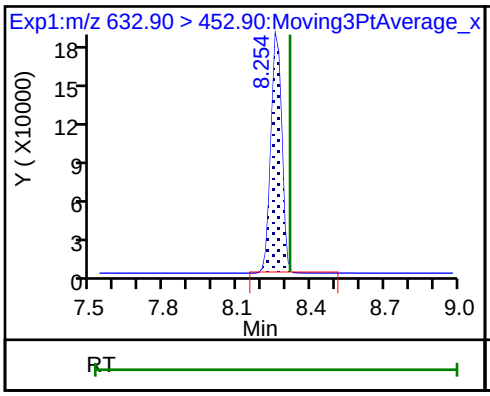
67 PFTrDA



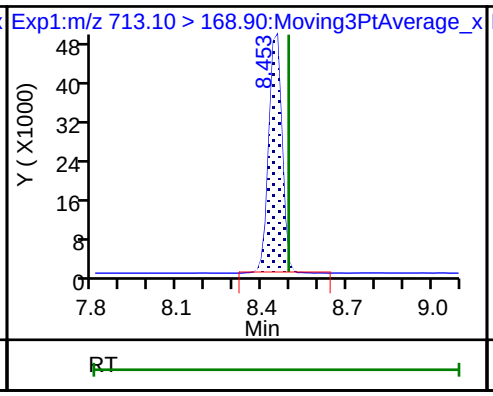
68 11ClFOS



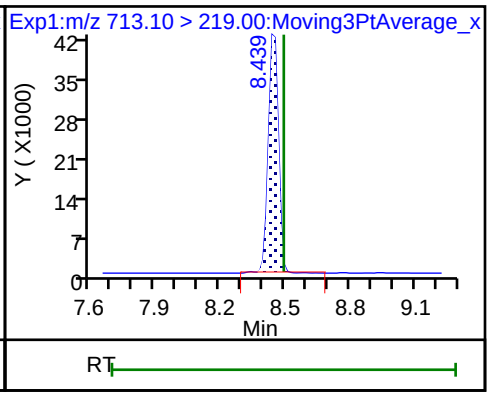
68 11ClFOS



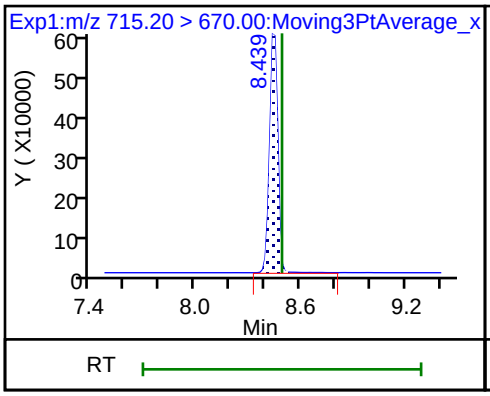
70 PFTeDA



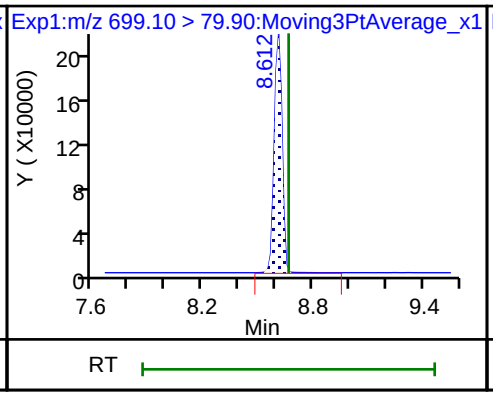
70 PFTeDA



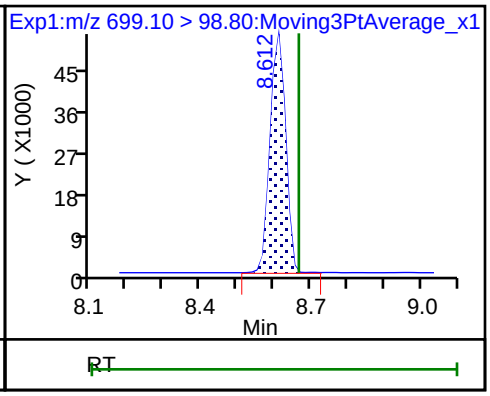
D 69 13C2 PFTeDA



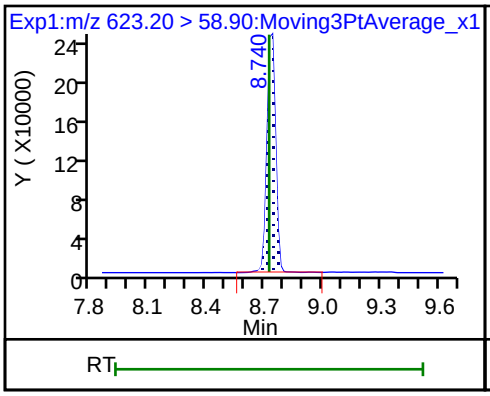
73 PFDoS



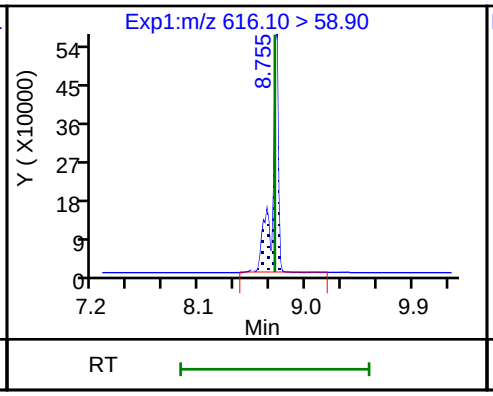
73 PFDoS



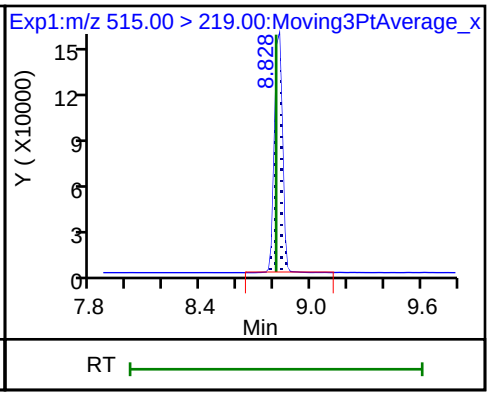
D 71 d7-N-Me-FOSE



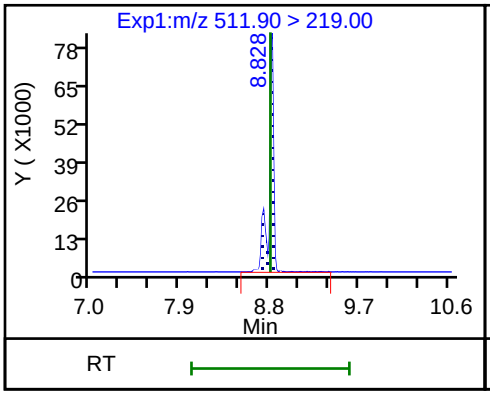
72 N-MeFOSE-M



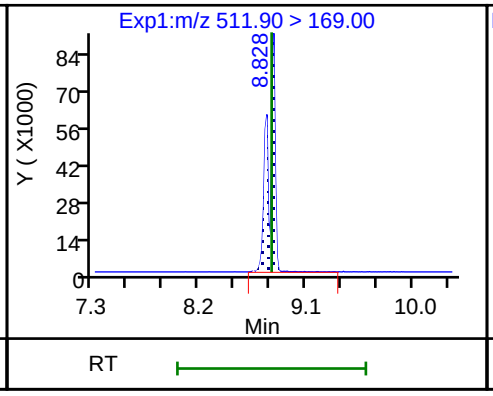
D 74 d3-NMePFOSA



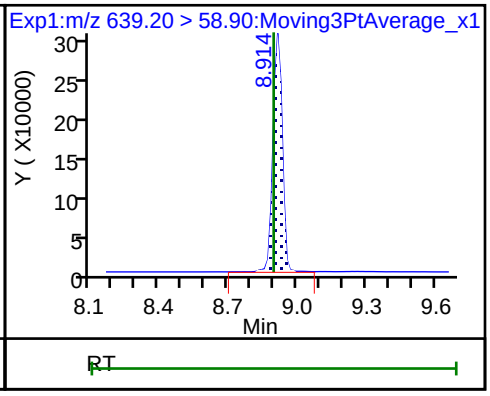
75 NMeFOSA



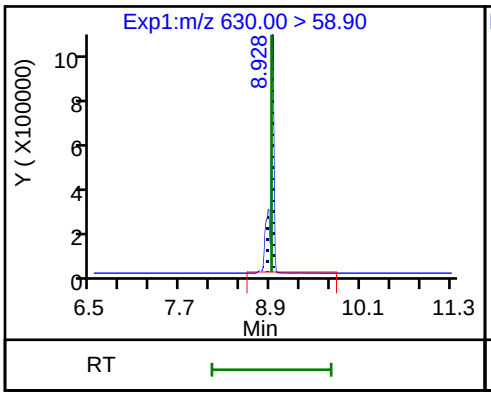
75 NMeFOSA



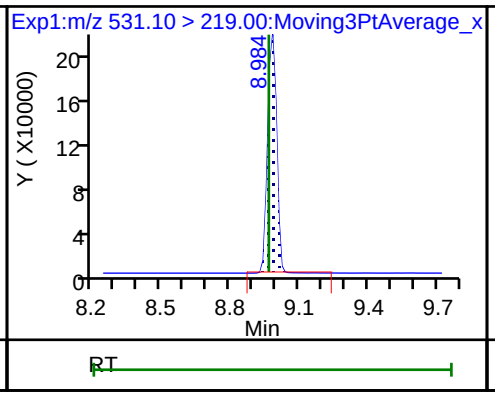
D 76 d9-N-EtFOSE



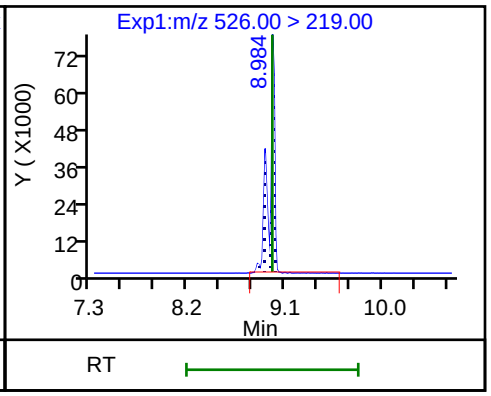
77 N-EtFOSE-M



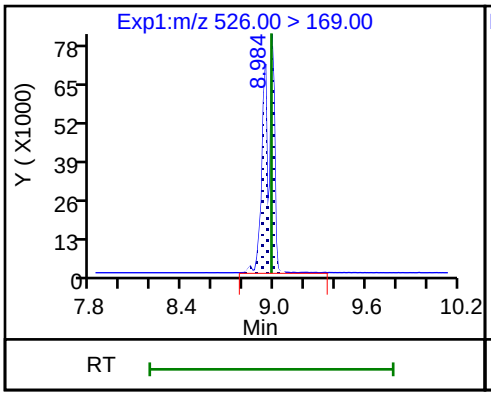
D 78 d5-NEtPFOSA



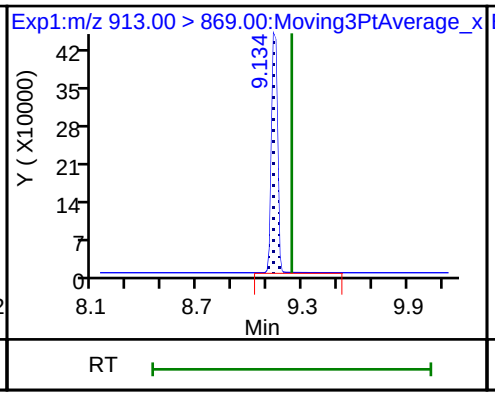
79 N-EtFOSA-M



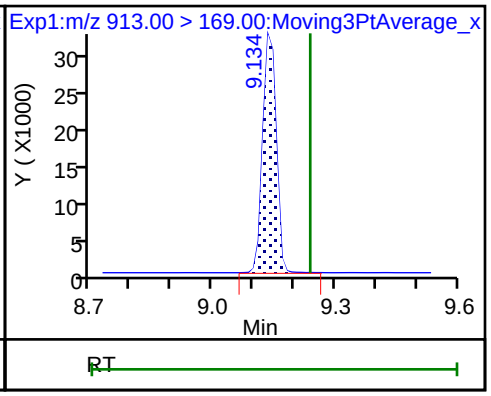
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-764500/154 Calibration Date: 02/04/2026 22:29

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04SD-71.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9286	0.9393		5.06	5.00	1.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9389	0.9204		1.96	2.00	-2.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.070	0.9617		0.899	1.00	-10.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0516	0.0429		1.67	2.00	-17.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.139	1.077		0.946	1.00	-5.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	1.289	1.235		0.958	1.00	-4.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.734	1.794		1.94	1.88	3.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.3928	0.3992		1.02	1.00	2.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9603	0.9279		0.966	1.00	-3.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1225	0.1100		4.49	5.00	-10.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9056	0.9499		0.932	0.888	5.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	0.7960	0.6977		0.876	1.00	-12.0	30.0
Hexafluoropropylene oxide dimer acid (HFPO DA)	AveID	0.9588	0.9458		0.740	0.750	-1.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.095	2.128		0.906	0.892	2.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9803	1.000		1.02	1.00	2.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.269	3.348		0.969	0.946	2.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.314	1.252		0.895	0.940	-5.0	30.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	AveID	2.083	1.910		1.75	1.90	-8.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.154	2.033		0.924	0.979	-6.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.7584	0.7687		1.01	1.00	1.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.1114	0.1029		4.62	5.00	-8.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.281	1.121		0.798	0.912	-12.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.8768	0.8829		1.01	1.00	1.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.642	1.665		1.95	1.92	1.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.3327	0.2854		0.793	0.924	-14.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.207	1.127		0.891	0.954	-7.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.370	1.112		0.812	1.00	-19.0	30.0
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	1.118	1.088		0.973	1.00	-3.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-764500/154 Calibration Date: 02/04/2026 22:29

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04SD-71.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.8375	0.8401		1.00	1.00	0.0	30.0
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8212	0.8379		1.02	1.00	2.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.442	1.355		0.874	0.930	-6.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7396	0.7648		1.03	1.00	3.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.850	2.550		0.836	0.934	-11.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.150	1.060		0.886	0.962	-8.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.8922	0.9185		1.03	1.00	3.0	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9173	0.8900		0.970	1.00	-3.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.170	1.151		0.948	0.964	-2.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	1.214	1.274		1.05	1.00	5.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	2.203	2.159		0.925	0.944	-2.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1745	0.1692		0.970	1.00	-3.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.6932	0.6751		0.945	0.970	-3.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	2.687	2.546		4.74	5.00	-5.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	1.023	0.9929		0.970	1.00	-3.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	3.951	3.416		4.32	5.00	-14.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9421	0.9368		0.994	1.00	-1.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9489	1.017		1.07	1.00	7.0	30.0
13C3-PFPrA	Ave	0.7248	0.7024		1.94	2.00	-3.0	30.0
13C4 PFBA	Ave	1.208	1.211		2.01	2.00	0.0	30.0
13C5 PFPeA	Ave	0.8198	0.9040		2.21	2.00	10.0	30.0
M2-4:2 FTS	Ave	0.2529	0.2138		3.97	4.69	-15.0	30.0
13C5 PFHxA	Ave	1.156	1.172		2.03	2.00	1.0	30.0
13C3 PFBS	Ave	1.273	1.224		1.79	1.86	-4.0	30.0
13C3 HFPO-DA	Ave	0.7911	0.7944		2.01	2.00	0.0	30.0
13C4 PFHpA	Ave	1.133	1.217		2.15	2.00	7.0	30.0
M2-6:2 FTS	Ave	0.1501	0.1467		4.65	4.76	-2.0	30.0
13C8 PFOA	Ave	1.000	1.009		2.02	2.00	1.0	30.0
13C3 PFHxS	Ave	1.001	1.058		2.00	1.90	6.0	30.0
13C9 PFNA	Ave	1.004	1.000		1.99	2.00	0.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-764500/154 Calibration Date: 02/04/2026 22:29

Instrument ID: 30575 Calib Start Date: 02/02/2026 11:43

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/02/2026 16:40

Lab File ID: 26Feb04SD-71.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
M2-8:2 FTS	Ave	0.1462	0.1370		4.50	4.80	-6.0	30.0
d3-NMeFOSAA	Ave	0.3721	0.3989		5.36	5.00	7.0	30.0
13C6 PFDA	Ave	1.020	1.031		2.02	2.00	1.0	30.0
d5-NEtFOSAA	Ave	0.3287	0.3622		5.51	5.00	10.0	30.0
13C8 PFOS	Ave	0.9257	1.017		2.11	1.92	10.0	30.0
13C7 PFUnA	Ave	1.226	1.153		1.88	2.00	-6.0	30.0
13C2 PFDoA	Ave	1.087	1.105		2.03	2.00	2.0	30.0
13C8 FOSA	Ave	1.143	1.131		1.98	2.00	-1.0	30.0
13C2 PFTeDA	Ave	0.6001	0.5921		1.97	2.00	-1.0	30.0
d7-N-MeFOSE-M	Ave	0.1675	0.1745		5.21	5.00	4.0	30.0
d3-NMePFOSA	Ave	0.2599	0.2594		2.00	2.00	0.0	30.0
d9-N-EtFOSE-M	Ave	0.1704	0.1930		5.66	5.00	13.0	30.0
d5-NEtPFOSA	Ave	0.3171	0.3113		1.96	2.00	-2.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-71.d
Lims ID: CCV 7_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 04-Feb-2026 22:29:00 ALS Bottle#: 5 Worklist Smp#: 154
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCV 7_CAL4
Misc. Info.: Plate: 1 Rack: 1 410-0174617-154
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575
Sublist: chrom-30575-1633-125ml*sub9

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 23:46:16 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 23:43:37
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										
163.00 > 119.00	2.097	2.098	-0.001	0.993	3731388	5.06		101	3120	
D 2 13C3PFPrA										
166.00 > 121.00	2.112	2.114	-0.002	0.483	1589044	1.94		96.9	1029	
5 PFBA										
212.80 > 168.90	4.365	4.330	0.035	1.000	2521239	1.96		98.0	6714	
D 6 13C4-PFBA										
216.80 > 171.90	4.365	4.338	0.027	0.998	2739379	2.00		100	7237	
* 7 13C3PFBA										
216.00 > 172.00	4.373	4.338	0.035		2262151	2.00			9193	
9 PFMPA										
229.00 > 84.90	4.659	4.627	0.032	0.935	1029736	0.8992		89.9	3651	
10 3:3 FTCA										
241.00 > 177.00	4.670	4.637	0.033	0.937	91957	1.66	Target=1.28	83.2	1225	
241.00 > 117.00	4.670	4.637	0.033	0.937	77676		1.18(0.64-1.92)		633	
D 11 13C5 PFPeA										
268.30 > 223.00	4.985	4.955	0.030	0.914	2141437	2.21		110	8216	
12 PFPA										
263.00 > 219.00	4.985	4.968	0.017	1.000	1153670	0.9457		94.6	1531	
13 PFMBA										
279.00 > 85.10	5.139	5.112	0.027	1.031	1322045	0.9578		95.8	14500	
15 4:2FTS										
327.10 > 307.00	5.268	5.240	0.028	1.002	697545	1.94	Target=1.67	103	4497	
327.10 > 80.90	5.268	5.240	0.028	1.002	416654		1.67(0.83-2.50)		690	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.256	5.240	0.016	0.814	971803	3.96		84.5	4922	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.409	5.378	0.031	0.995	553934	1.02	Target=1.57	102	2623	
295.00 > 84.90	5.409	5.378	0.031	0.995	366174		1.51(0.78-2.35)		1677	
D 17 13C5 PFHxA										
318.00 > 273.00	5.438	5.418	0.020	0.997	2775117	2.03		101	7743	
* 18 13C2 PFHxA										
315.10 > 270.00	5.451	5.432	0.019		5922114	5.00			20140	
19 PFHxA										
313.00 > 269.00	5.451	5.432	0.019	1.003	1287498	0.9663	Target=12.08	96.6	1194	
313.00 > 118.90	5.451	5.432	0.019	1.003	109109		11.80(6.04-18.11)		561	
22 5:3 FTCA										
341.00 > 237.10	5.519	5.500	0.019	1.015	763315	4.49	Target=0.89	89.8	2057	
341.00 > 217.00	5.519	5.500	0.019	1.015	864395		0.88(0.45-1.34)		1568	
21 PFBS										
298.70 > 79.90	5.574	5.568	0.006	1.000	1000512	0.9315	Target=3.03	105	6845	
298.70 > 98.80	5.574	5.568	0.006	1.000	331498		3.02(1.52-4.55)		2229	
D 20 13C3 PFBS										
302.10 > 79.90	5.574	5.568	0.006	0.864	2210881	1.79		96.1	10230	
28 FBSA										
297.90 > 78.00	5.588	5.582	0.006	1.003	827548	0.8765		87.6	1385	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.632	5.611	0.021	1.033	1881762	2.01		100	3677	
24 HFPO-DA										
284.90 > 168.90	5.632	5.611	0.021	1.000	667432	0.7399	Target=2.32	98.6	1987	
284.90 > 184.90	5.632	5.611	0.021	1.000	300085		2.22(1.16-3.48)		1331	
25 PFEESA										
314.80 > 134.90	5.811	5.791	0.020	1.069	2633682	0.9062	Target=13.29	102	13343	
314.80 > 82.90	5.811	5.791	0.020	1.069	207954		12.66(6.64-19.93)		780	
27 PFHpA										
363.10 > 319.00	5.861	5.845	0.016	1.000	1442117	1.02	Target=2.38	102	871	
363.10 > 169.00	5.861	5.845	0.016	1.000	582051		2.48(1.19-3.58)		844	
D 26 13C4 PFHpA										
367.10 > 322.00	5.861	5.845	0.016	1.075	2883824	2.15		107	15003	
29 ADONA										
376.90 > 250.90	6.004	5.988	0.016	1.066	2979905	0.9687	Target=1.85	102	21438	
376.90 > 84.80	6.004	5.988	0.016	1.066	1622519		1.84(0.92-2.77)		4283	
32 PFPeS										
349.10 > 79.90	6.037	6.033	0.004	0.935	1206420	0.8953	Target=3.35	95.2	6478	
349.10 > 98.90	6.037	6.033	0.004	0.935	365509		3.30(1.68-5.03)		2487	
31 6:2FTS										
427.10 > 407.00	6.049	6.033	0.016	1.000	516956	1.75	Target=1.88	91.7	2552	
427.10 > 80.90	6.049	6.033	0.016	1.000	297581		1.74(0.94-2.83)		1113	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.049	6.033	0.016	0.937	676698	4.65		97.7	2145	
33 BTS										
280.00 > 147.00	6.183	6.189	-0.006	0.958	2040370	0.9240		94.4	4561	
D 35 13C8 PFOA										
421.10 > 376.00	6.238	6.233	0.005	1.000	3579197	2.02		101	7423	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.238	6.233	0.005		8863942	5.00			9592	
36 PFOA										
413.00 > 369.00	6.238	6.233	0.005	1.000	1375717	1.01	Target=2.16	101	29072	
413.00 > 169.00	6.251	6.233	0.018	1.002	641622		2.14(1.08-3.25)		21069	
39 7:3 FTCA										
441.00 > 316.90	6.313	6.296	0.017	1.161	713824	4.62	Target=0.79	92.4	2608	
441.00 > 336.90	6.313	6.296	0.017	1.161	835875		0.85(0.39-1.18)		1532	
40 PFHxS										
398.70 > 79.90	6.454	6.460	-0.006	1.000	1048461	0.7983	Target=3.45	87.5	1402	
398.70 > 98.90	6.454	6.460	-0.006	1.000	324888		3.23(1.73-5.18)		736	
* 38 18O2 PFHxS										
403.00 > 83.90	6.454	6.460	-0.006		1837520	1.90			5275	
D 37 13C3 PFHxS										
402.10 > 79.90	6.454	6.460	-0.006	1.000	1944154	2.00		106	8760	
43 PFNA										
463.00 > 419.00	6.625	6.620	0.005	1.000	1366689	1.01	Target=2.87	101	192941	
463.00 > 219.00	6.625	6.620	0.005	1.000	466801		2.93(1.44-4.31)		633	
D 42 13C9 PFNA										
472.10 > 427.00	6.625	6.620	0.005	1.000	3095872	1.99		99.5	5313	
* 41 13C5 PFNA										
468.00 > 423.00	6.625	6.620	0.005		3096287	2.00			7415	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.795	6.790	0.005	1.053	637107	4.50		93.7	2759	
45 8:2FTS										
527.10 > 507.00	6.795	6.790	0.005	1.000	424419	1.95	Target=1.57	101	887	
527.10 > 80.80	6.795	6.790	0.005	1.000	267846		1.58(0.79-2.36)		1127	
46 PFECHS										
461.00 > 381.00	6.817	6.824	-0.007	1.056	270437	0.7928	Target=0.30	85.8	1720	
461.00 > 99.00	6.817	6.824	-0.007	1.056	955320		0.28(0.15-0.45)		2694	
47 PFHpS										
449.00 > 79.90	6.851	6.857	-0.006	0.945	974916	0.8911	Target=3.53	93.4	4512	
449.00 > 98.80	6.851	6.857	-0.006	0.945	284329		3.43(1.76-5.29)		1728	
53 FHxSA										
397.90 > 78.00	6.885	6.869	0.016	1.067	1140127	0.8116		81.2	2035	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.945	6.940	0.005	0.958	1777682	5.36		107	2280	
49 NMeFOSAA										
570.10 > 419.00	6.945	6.940	0.005	1.000	386802	0.9734	Target=1.75	97.3	849	
570.10 > 483.00	6.945	6.940	0.005	1.000	213865		1.81(0.87-2.62)		414	
D 50 13C6 PFDA										
519.10 > 474.10	7.007	7.015	-0.008	1.000	3336391	2.02		101	8744	
* 52 13C2 PFDA										
515.10 > 470.10	7.007	7.015	-0.008		3235061	2.00			10196	
51 PFDA										
512.90 > 469.00	7.007	7.015	-0.008	1.000	1401476	1.00	Target=4.54	100	5617	
512.90 > 219.00	7.007	7.015	-0.008	1.000	291486		4.81(2.27-6.81)		1134	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.115	7.124	-0.009	0.982	1613983	5.51		110	3528	
55 NEtFOSAA										
584.20 > 419.10	7.115	7.124	-0.009	1.000	270458	1.02	Target=1.38	102	455	
584.20 > 526.00	7.115	7.124	-0.009	1.000	180149		1.50(0.69-2.07)		378	
58 PFOS										
498.90 > 79.90	7.248	7.255	-0.007	1.000	1142231	0.8740	Target=4.26	94.0	310594	
498.90 > 98.80	7.248	7.255	-0.007	1.000	266295		4.29(2.13-6.40)		841	
D 56 13C8 PFOS										
507.10 > 79.90	7.248	7.267	-0.019	1.000	1736705	2.10		110	1012	
* 57 13C4 PFOS										
502.80 > 79.90	7.248	7.267	-0.019		1707775	1.92			4820	
D 59 13C7 PFUnA										
570.00 > 525.10	7.392	7.409	-0.017	1.055	3730343	1.88		94.0	5563	
60 PFUnA										
563.10 > 519.00	7.392	7.409	-0.017	1.000	1426427	1.03	Target=5.23	103	3162	
563.10 > 269.10	7.392	7.409	-0.017	1.000	287501		4.96(2.62-7.85)		1456	
61 9ClFOS										
530.80 > 351.00	7.541	7.566	-0.025	1.040	2159247	0.8357	Target=3.05	89.5	11039	
532.80 > 353.00	7.541	7.566	-0.025	1.040	698136		3.09(1.53-4.58)		5019	
62 PFNS										
548.80 > 79.90	7.632	7.656	-0.024	1.053	924341	0.8864	Target=3.70	92.1	5949	
548.80 > 98.80	7.632	7.656	-0.024	1.053	262962		3.52(1.85-5.56)		2182	
D 81 PFDoA										
615.10 > 570.00	7.766	7.801	-0.035	1.108	3573782	2.03		102	5560	
63 PFDoA										
613.10 > 569.00	7.776	7.801	-0.025		1641348	1.03	Target=5.66	103	5850	
613.10 > 319.00	7.776	7.801	-0.025		295727		5.55(2.83-8.49)		2444	
64 PFOSA										
498.10 > 77.90	7.983	7.947	0.036	1.000	897555	0.9703	Target=43.43	97.0	2086	
498.10 > 478.00	7.983	7.947	0.036	1.000	23716		37.85(21.71-65.14)		48.2	
D 65 13C8 FOSA										
506.10 > 77.80	7.983	7.957	0.026	1.101	2016890	1.98		99.0	5621	
66 PFDS										
599.00 > 79.90	7.993	8.031	-0.038	1.103	1005895	0.9485	Target=3.54	98.4	6404	
599.00 > 98.80	7.993	8.031	-0.038	1.103	279402		3.60(1.77-5.31)		2200	
67 PFTrDA										
663.00 > 619.00	8.123	8.170	-0.047	0.961	1747979	1.05	Target=5.76	105	10172	
663.00 > 168.90	8.123	8.170	-0.047	0.961	291364		6.00(2.88-8.64)		1314	
68 11ClFOS										
630.90 > 450.90	8.268	8.314	-0.046	1.141	1847167	0.9250	Target=3.06	98.0	7707	
632.90 > 452.90	8.268	8.314	-0.046	1.141	598215		3.09(1.53-4.59)		4838	
70 PFTeDA										
713.10 > 168.90	8.455	8.494	-0.039	1.000	162074	0.9698	Target=1.07	97.0	1257	
713.10 > 219.00	8.455	8.494	-0.039	1.000	143444		1.13(0.54-1.61)		1168	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.455	8.494	-0.039	1.207	1915328	1.97		98.7	4304	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.613	8.667	-0.054	1.188	593611	0.9447	Target=4.17	97.4	4815	
699.10 > 98.80	8.613	8.667	-0.054	1.188	145543		4.08(2.09-6.26)		1795	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.742	8.723	0.019	1.206	777785	5.21		104	645	
72 N-MeFOSE-M										
616.10 > 58.90	8.756	8.737	0.019	1.002	1980448	4.74		94.8	619078	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.829	8.809	0.020	1.218	462391	2.00		99.8	2825	
75 NMeFOSA										
511.90 > 219.00	8.829	8.809	0.020	1.000	229546	0.9701	Target=0.69	97.0	1273	
511.90 > 169.00	8.829	8.809	0.020	1.000	330019		0.70(0.34-1.03)		1303	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.916	8.897	0.019	1.230	859918	5.66		113	1204	
77 N-EtFOSE-M										
630.00 > 58.90	8.930	8.911	0.019	1.002	2937116	4.32		86.4	909640	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.985	8.967	0.018	1.240	554938	1.96		98.2	3736	
79 N-EtFOSA-M										
526.00 > 219.00	8.999	8.981	0.018	1.002	259936	0.99	Target=0.78	99.4	2770	
526.00 > 169.00	8.999	8.981	0.018	1.002	327972		0.79(0.39-1.17)		1867	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.146	9.238	-0.092	1.082	974006	1.07	Target=11.85	107	35498	
913.00 > 169.00	9.146	9.238	-0.092	1.082	73488		13.25(5.92-17.77)		3231	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL4_00077 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 23:46:17 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-71.d

Injection Date: 04-Feb-2026 22:29:00 Instrument ID: 30575

Lims ID: CCV 7_CAL4

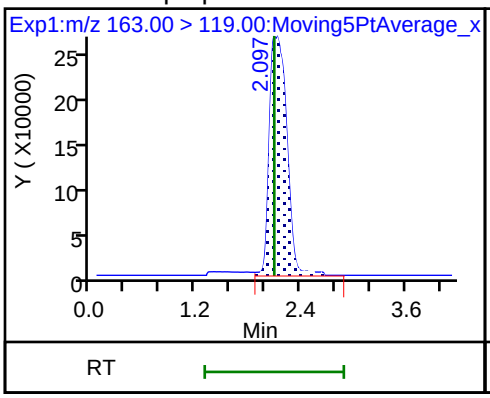
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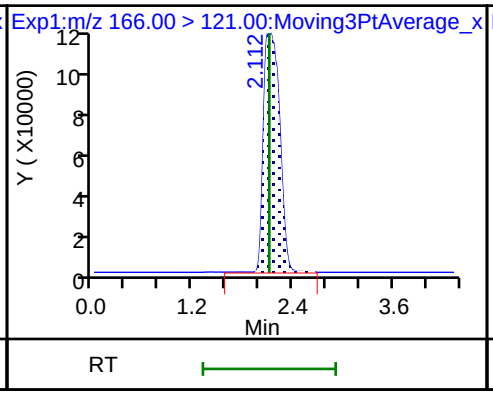
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Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

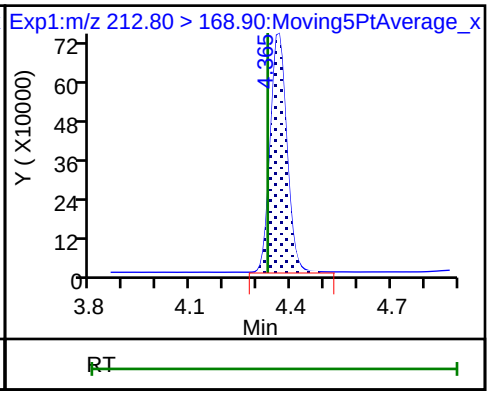
1 Perfluoropropionic acid



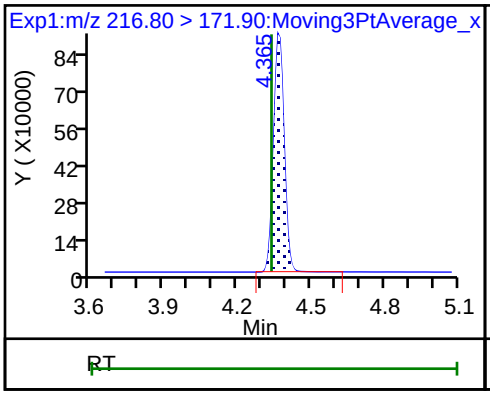
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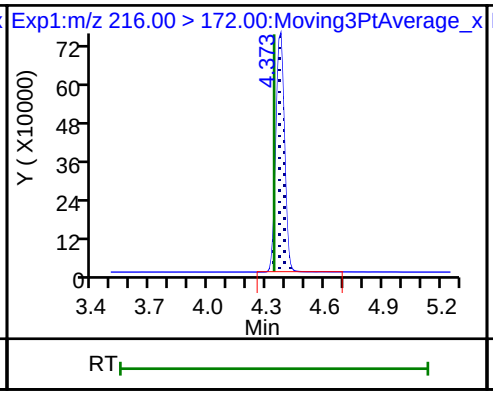
5 PFBA



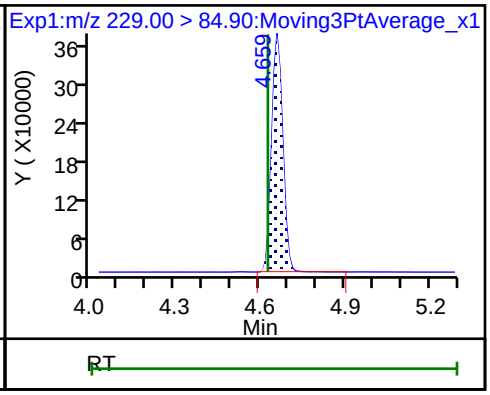
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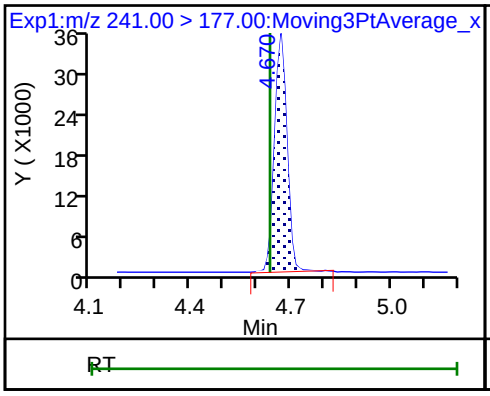
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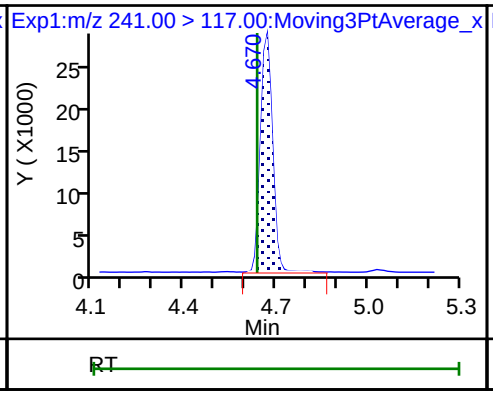
9 PFMPA



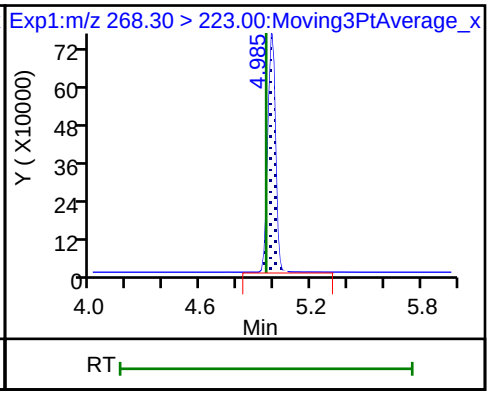
10 3:3 FTCA



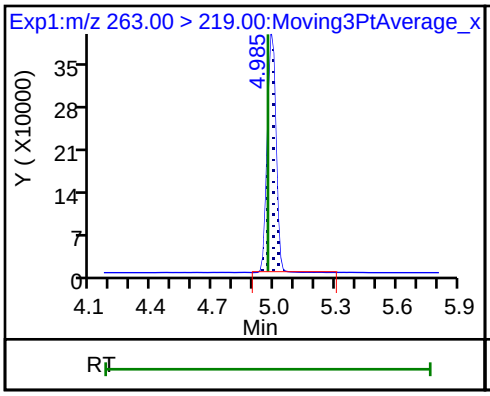
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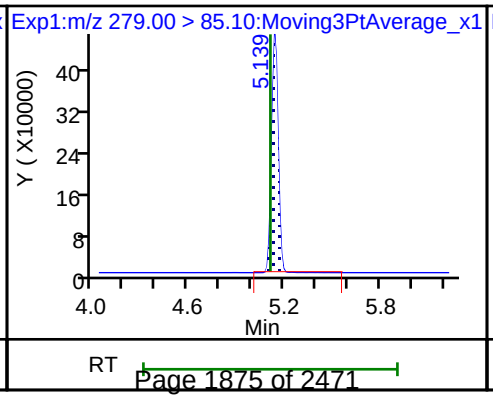
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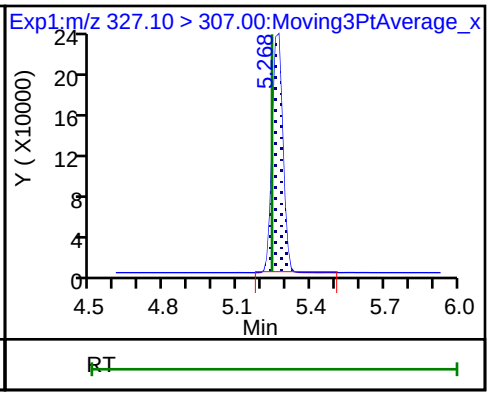
12 PFPA



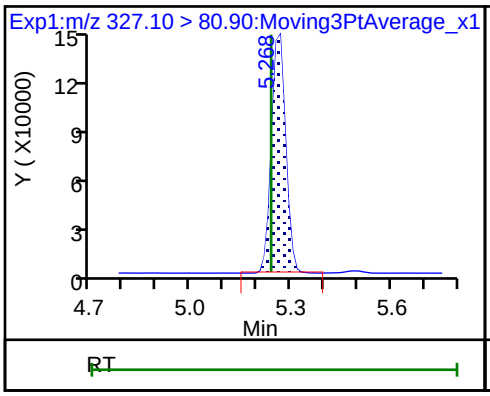
13 PFMBA



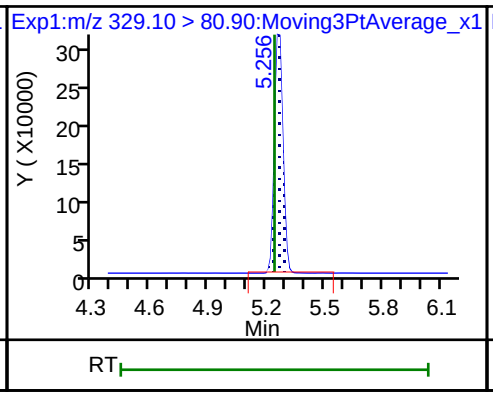
15 4:2FTS



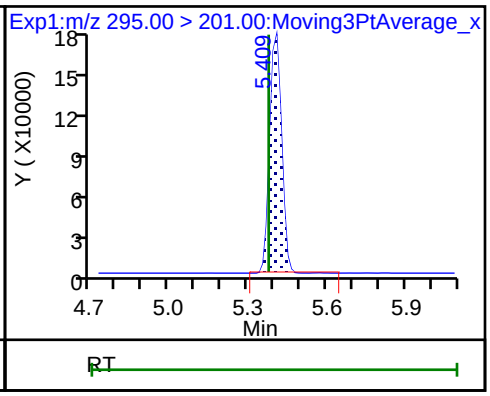
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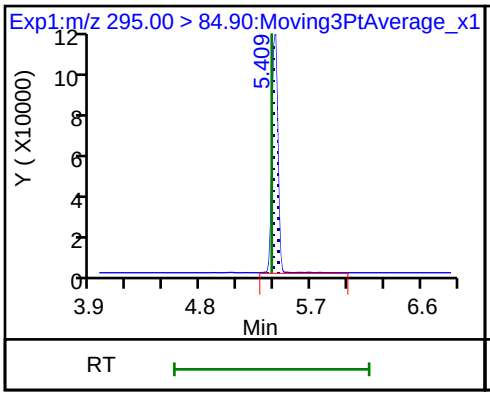
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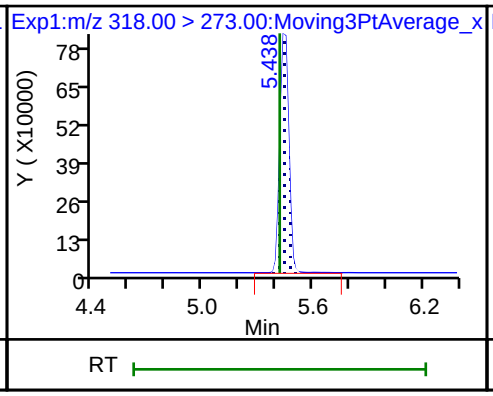
16 NFDHA



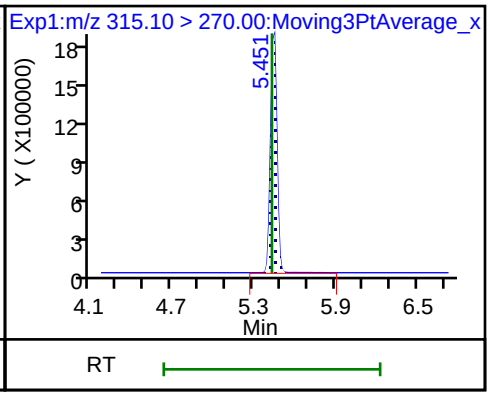
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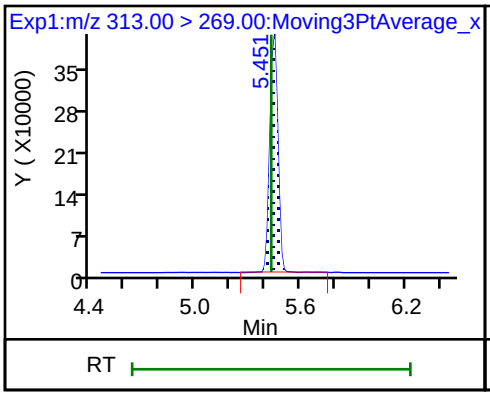
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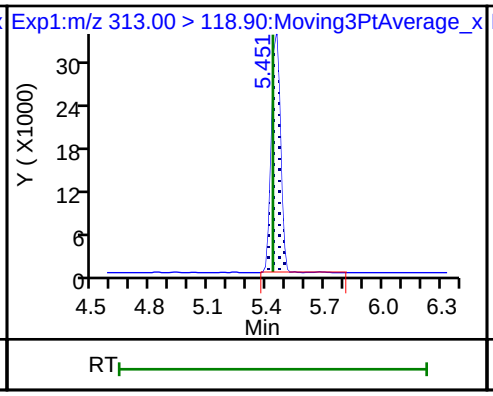
* 18 13C2 PFHxA



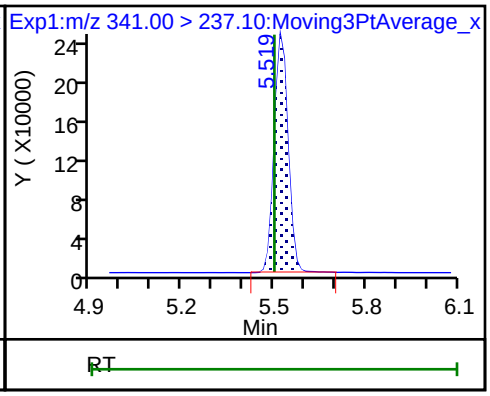
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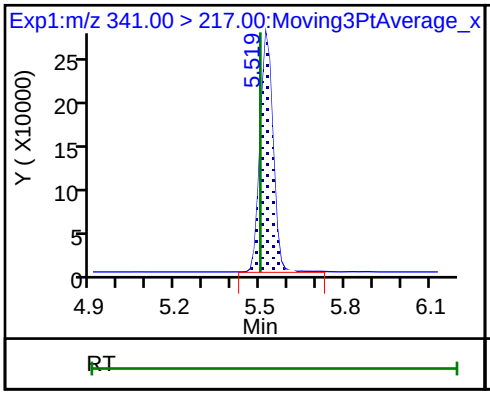
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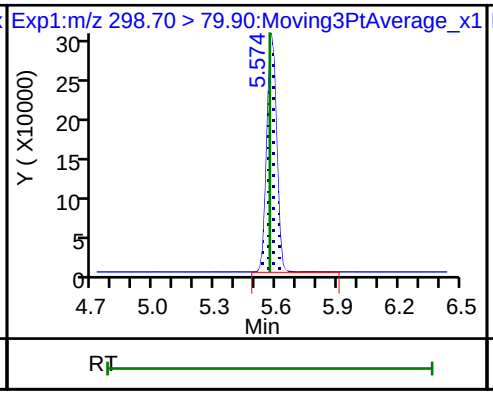
22 5:3 FTCA



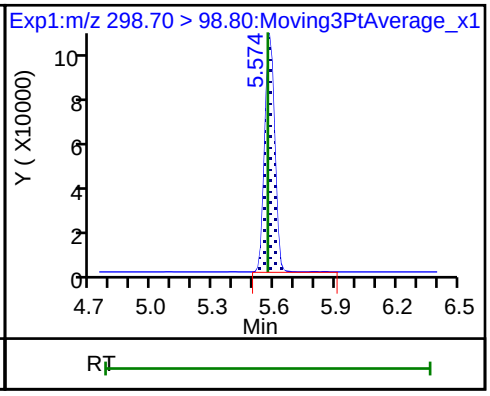
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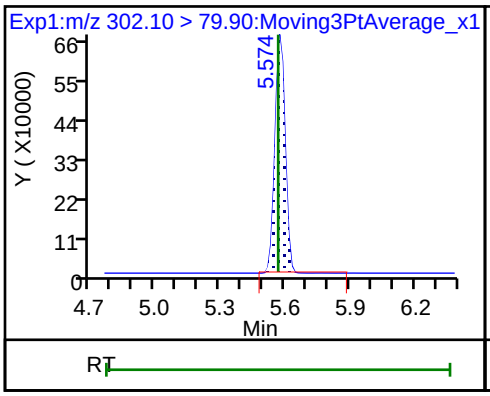
21 PFBS



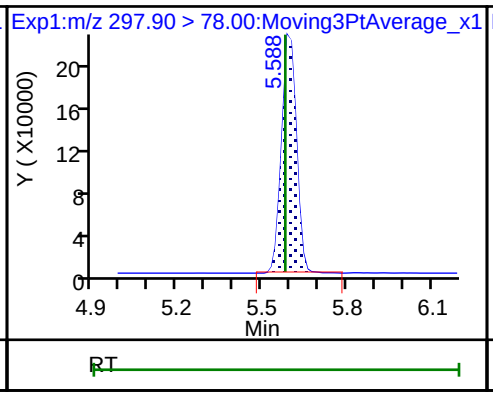
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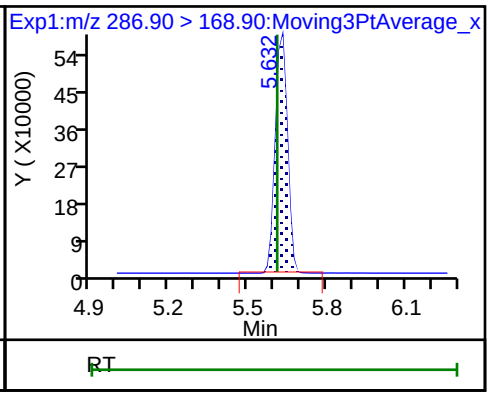
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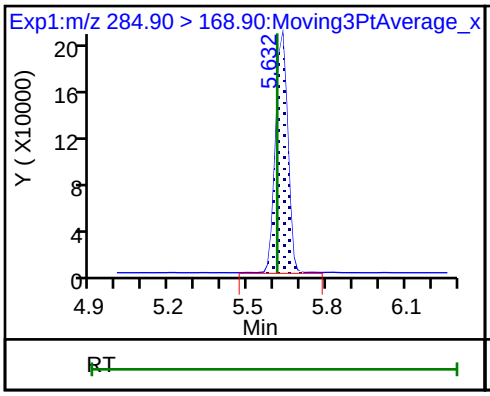
28 FBSA



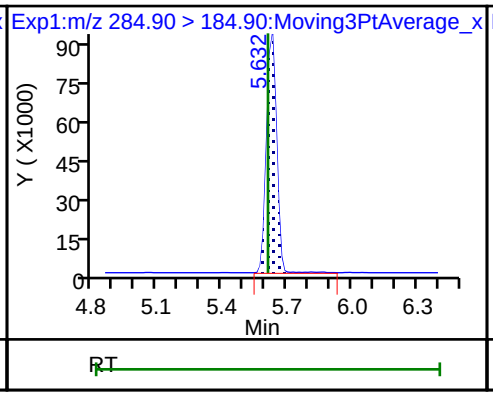
D 23 13C3 HFPO-DA



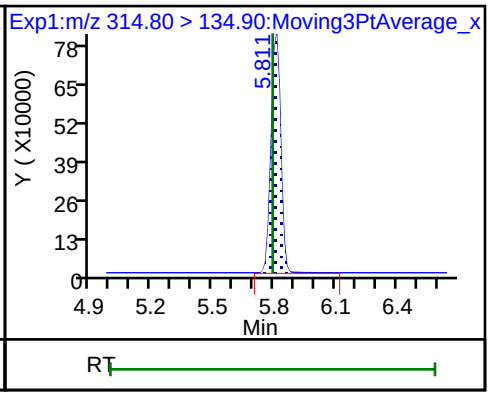
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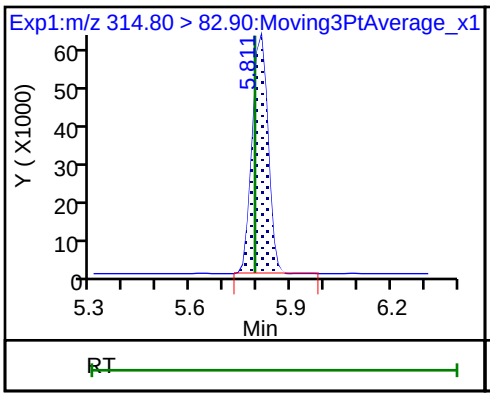
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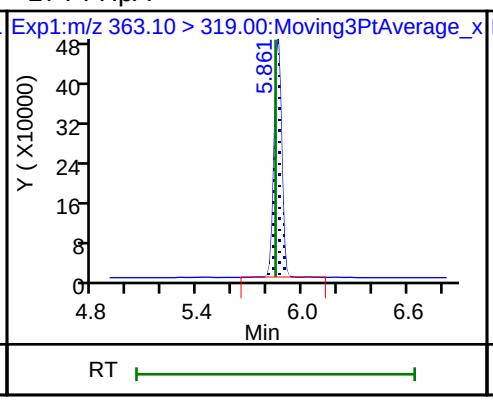
25 PFEESA



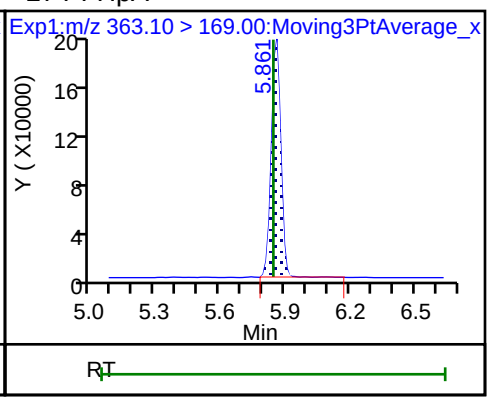
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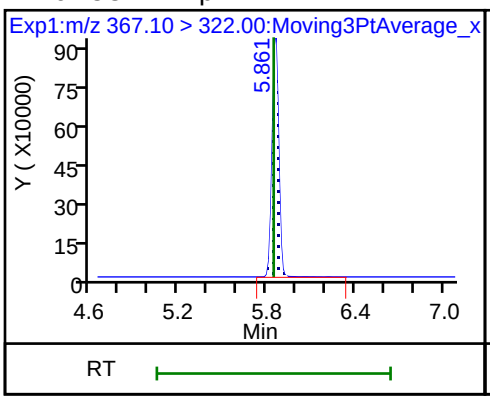
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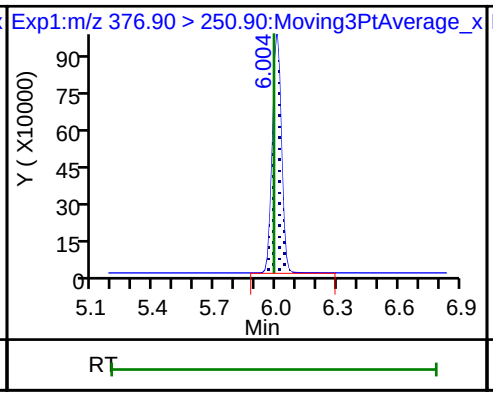
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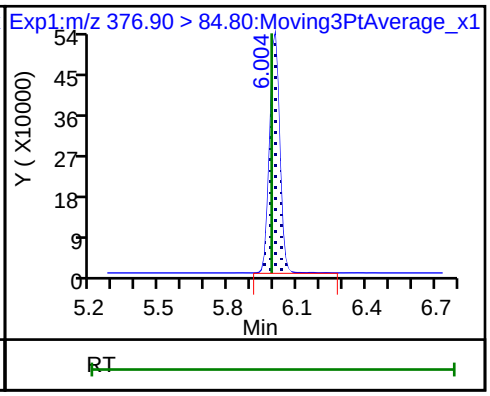
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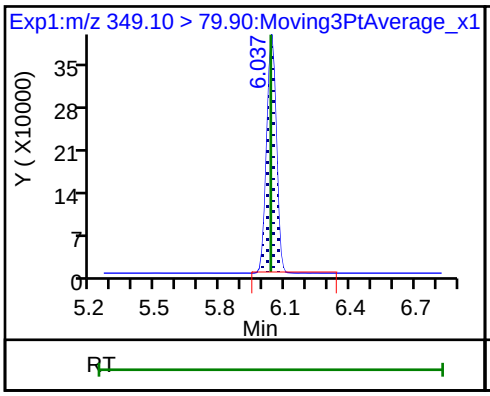
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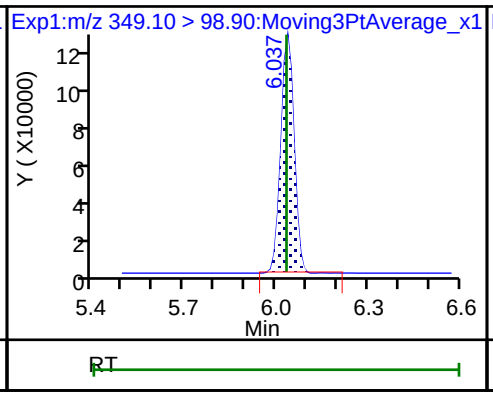
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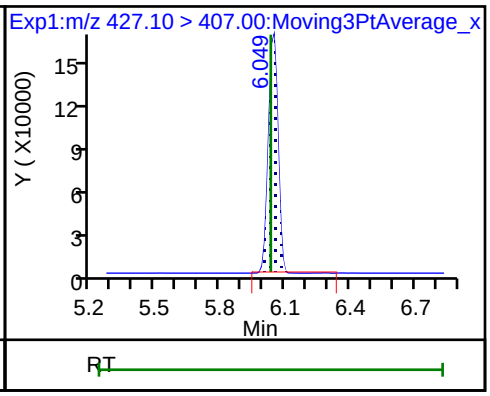
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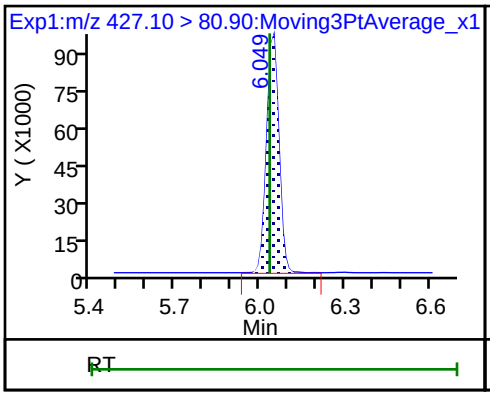
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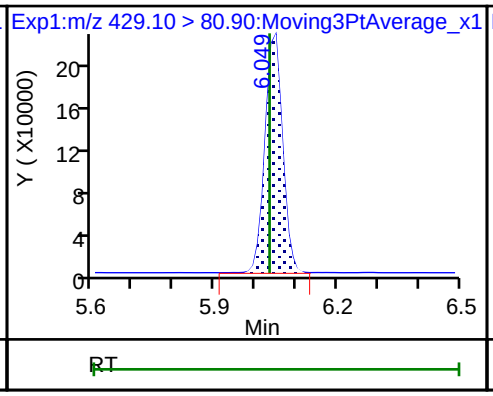
31 6:2FTS



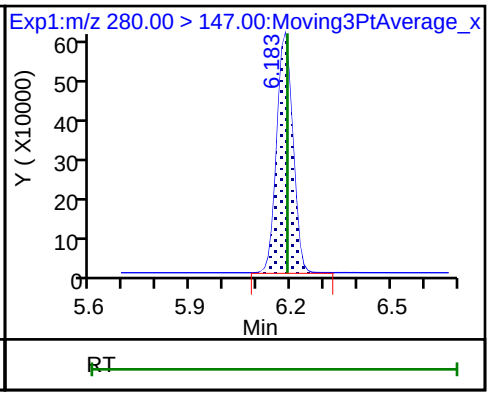
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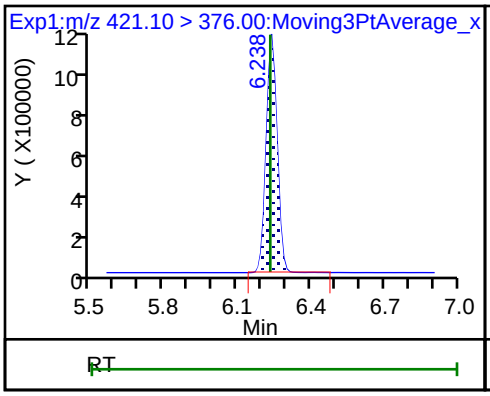
D 30 13C2-6:2FTS



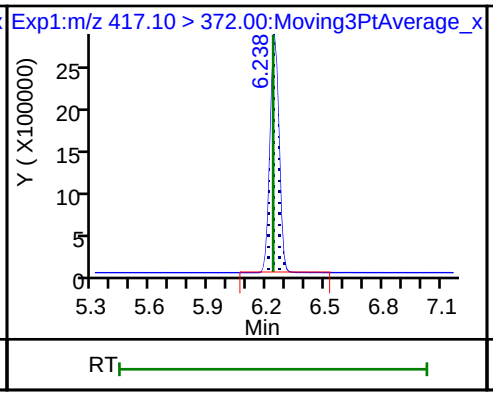
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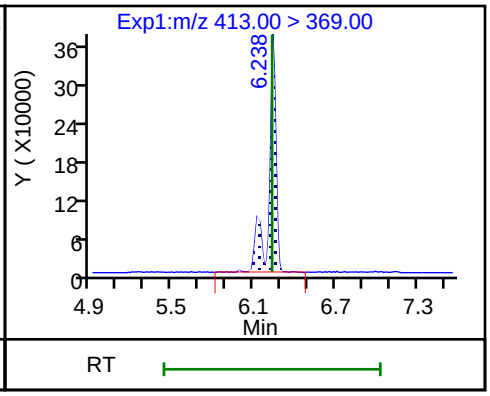
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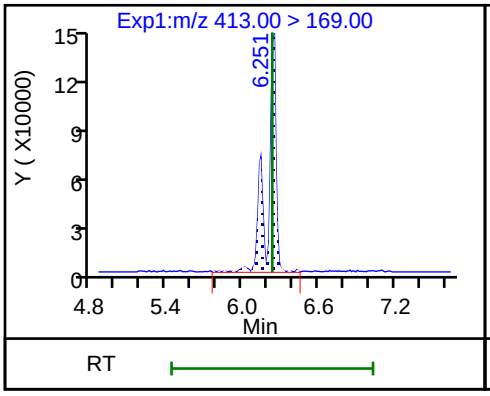
* 34 13C4 PFOA



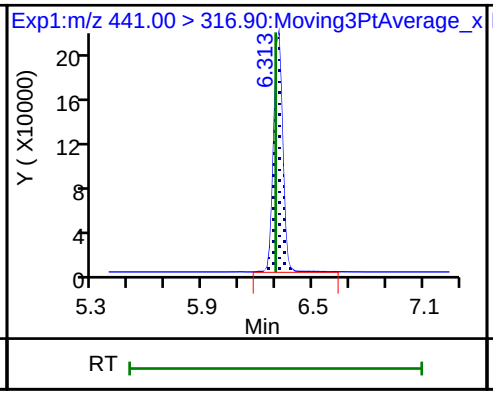
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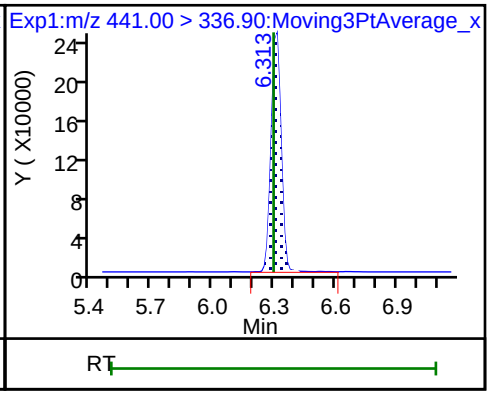
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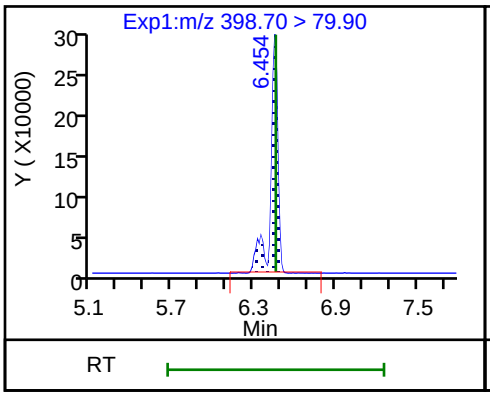
39 7:3 FTCA



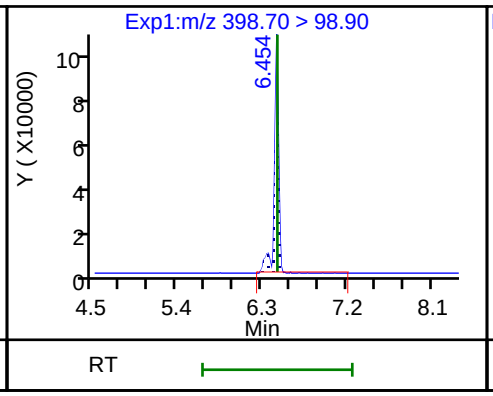
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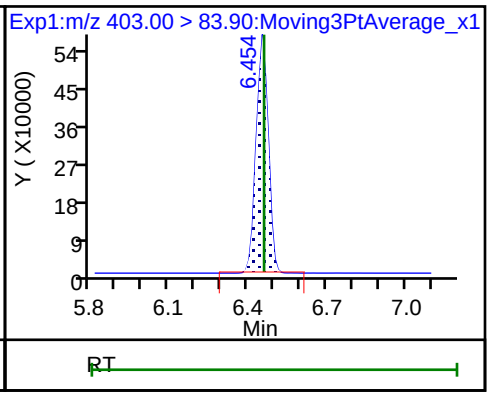
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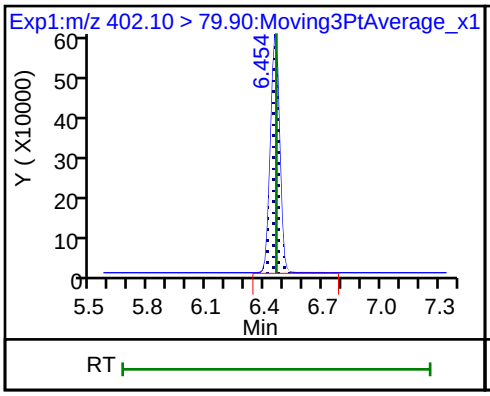
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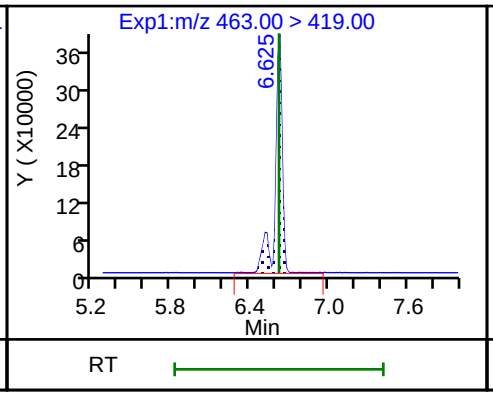
* 38 18O2 PFHxS



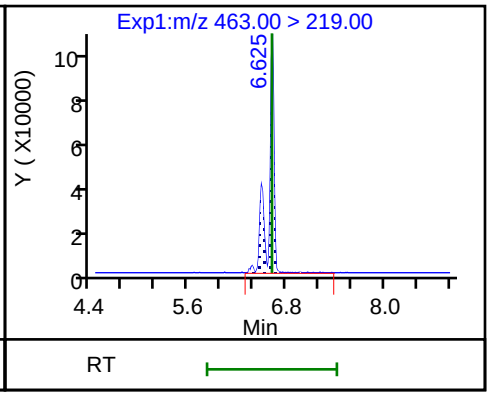
D 37 13C3 PFHxS



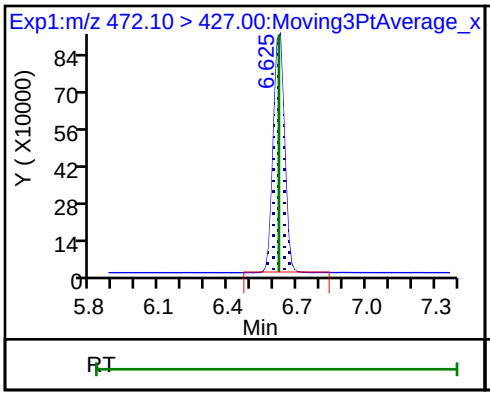
43 PFNA



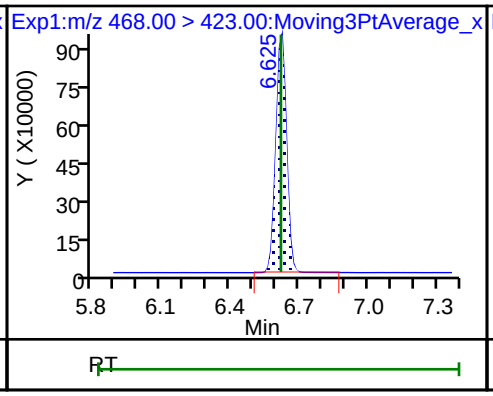
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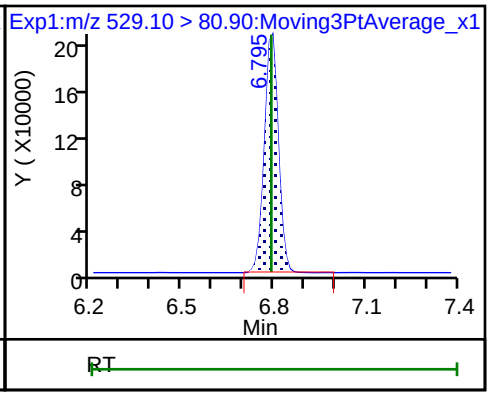
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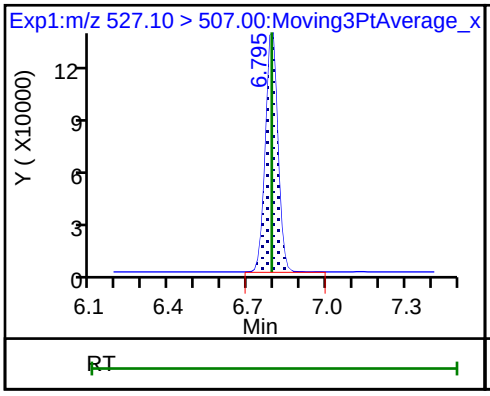
* 41 13C5 PFNA



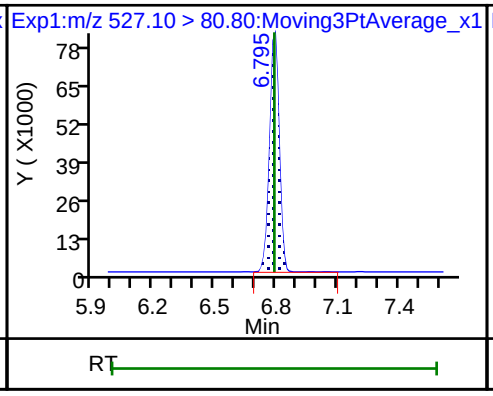
D 44 13C2-8:2FTS



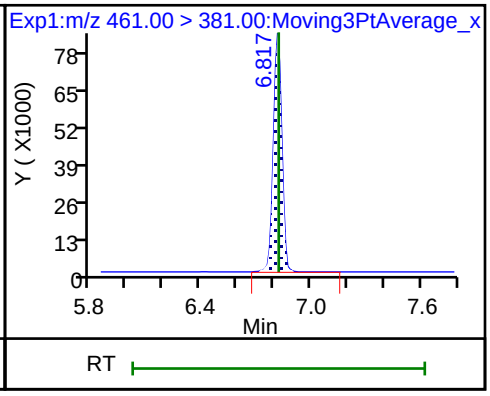
45 8:2FTS



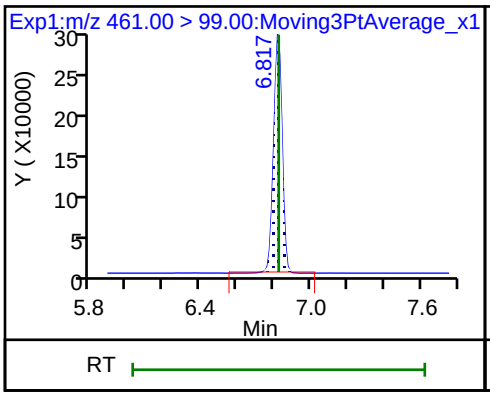
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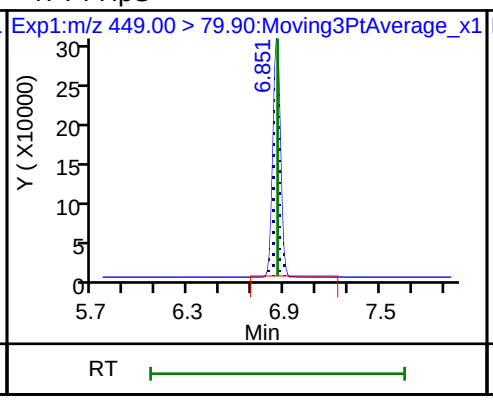
46 PFECHS



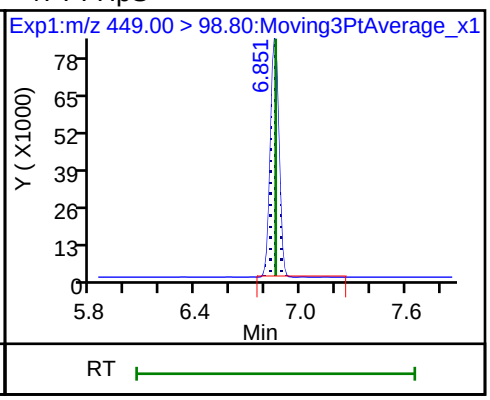
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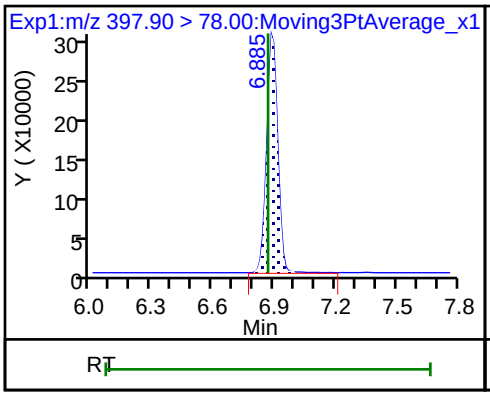
47 PFHpS



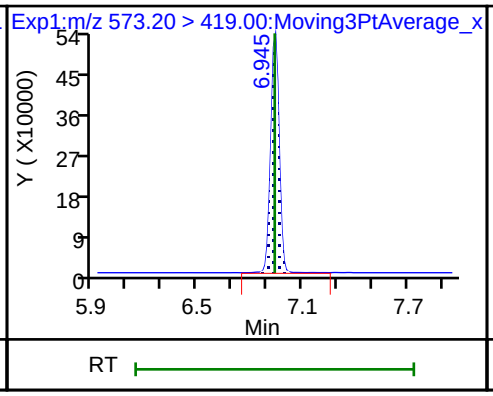
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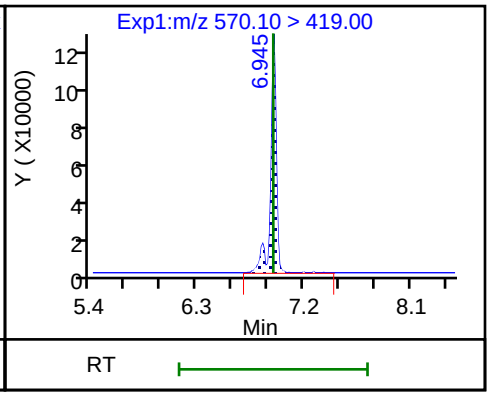
53 FHxSA



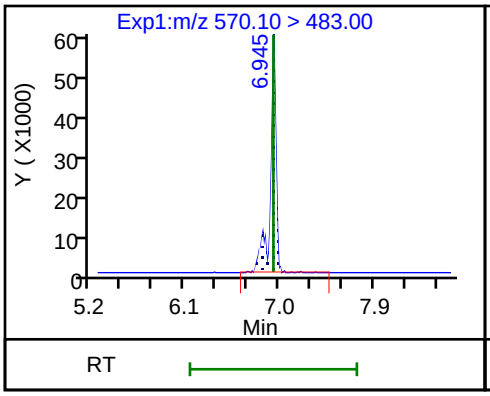
D 48 d3-NMeFOSAA



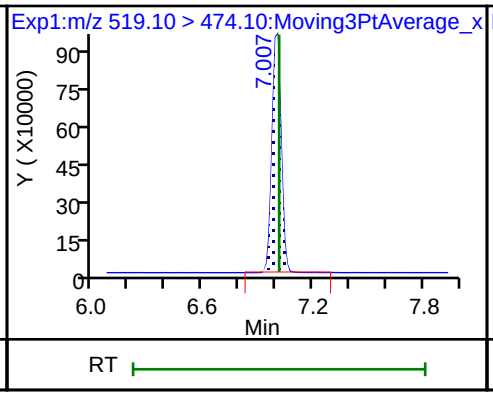
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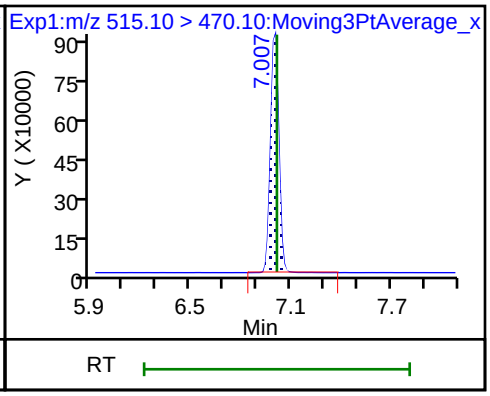
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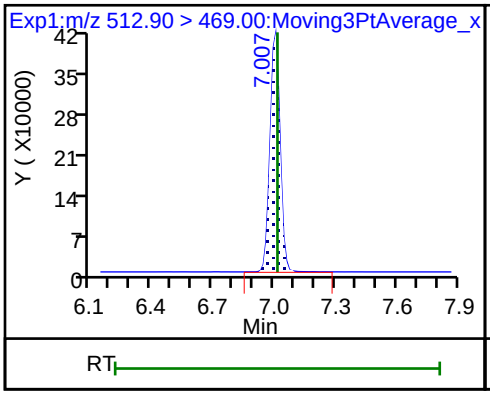
D 50 13C6 PFDA



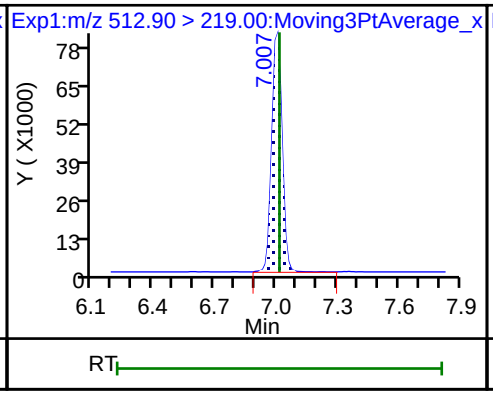
* 52 13C2 PFDA



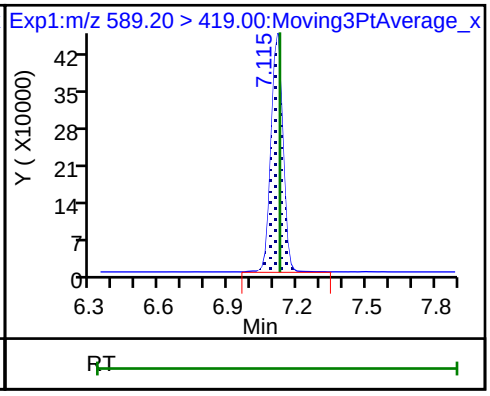
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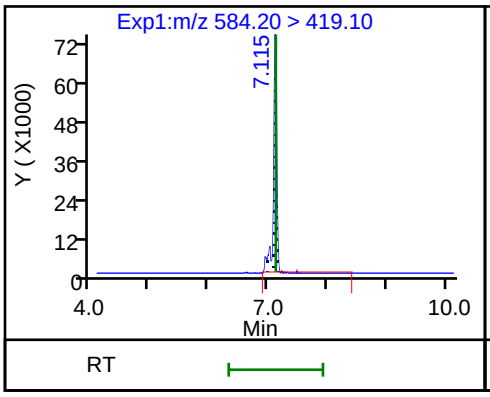
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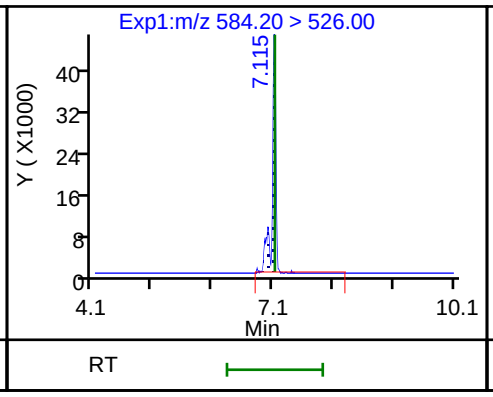
D 54 d5-NEtFOSAA



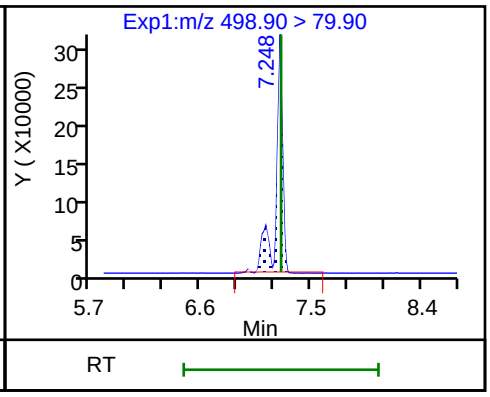
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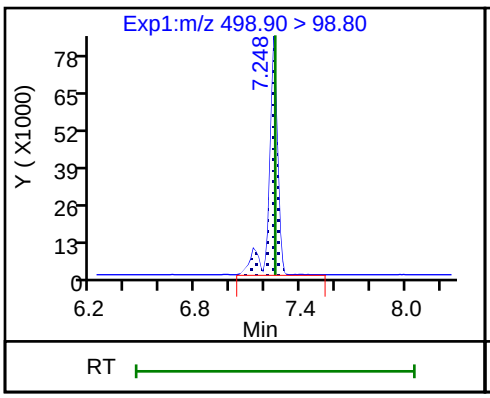
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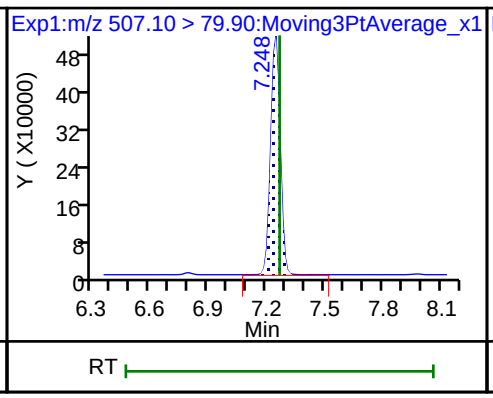
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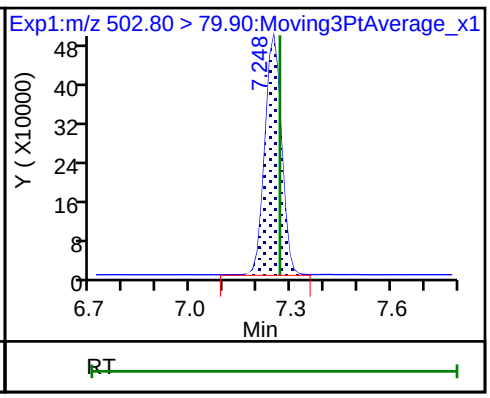
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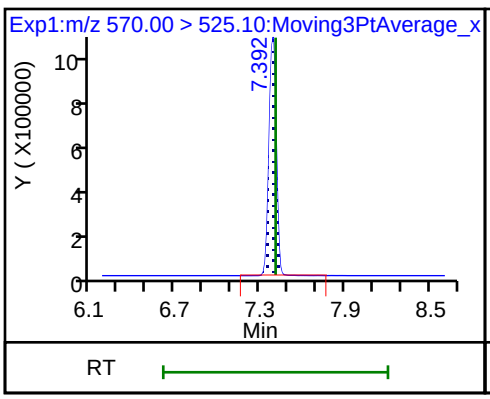
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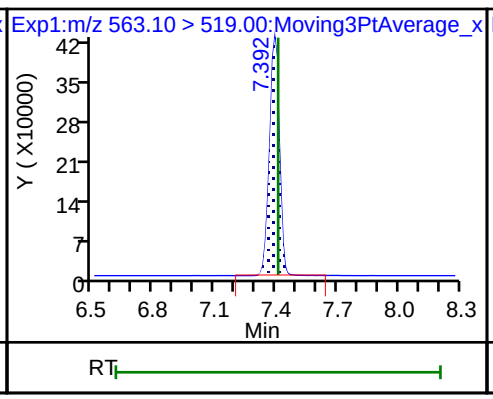
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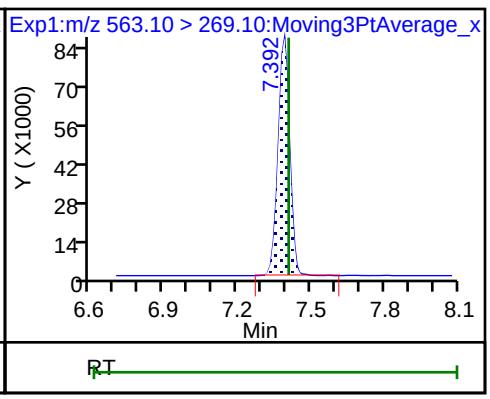
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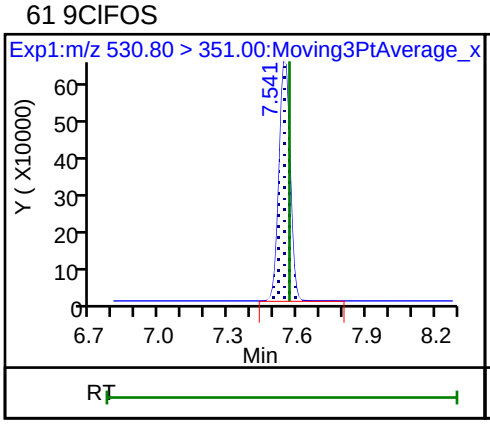
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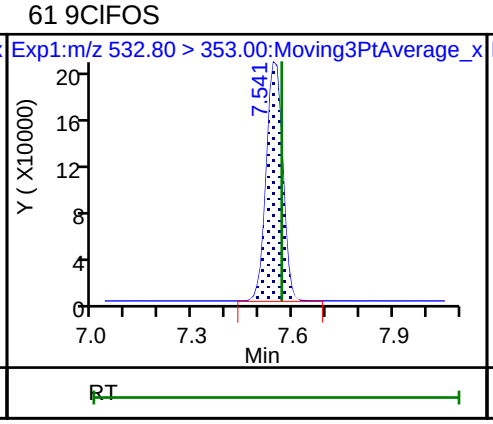
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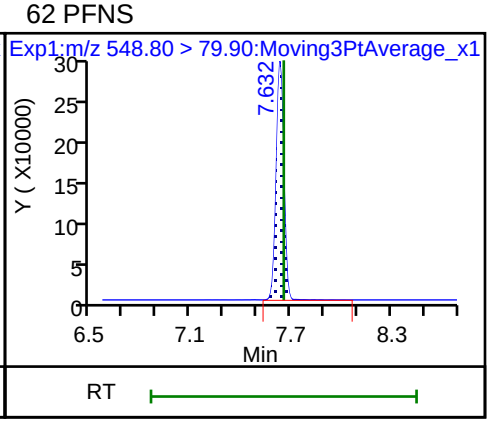
61 9ClFOS



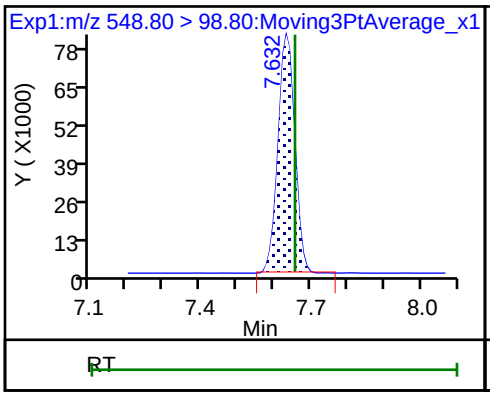
61 9ClFOS



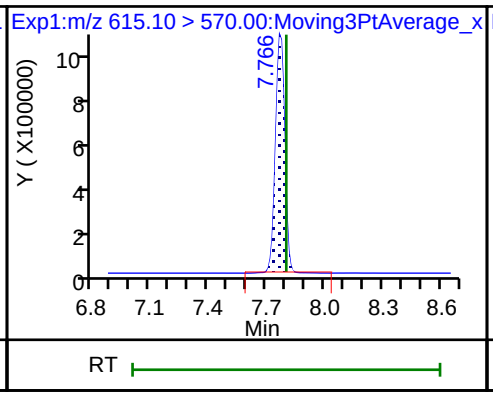
62 PFNS



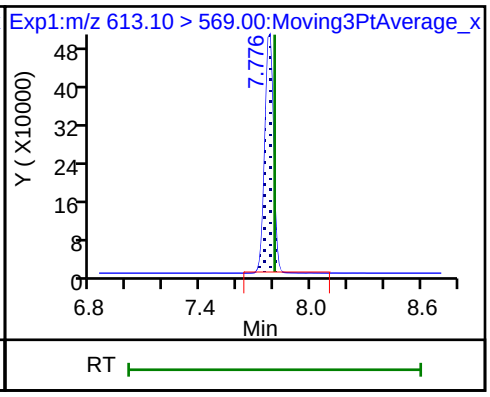
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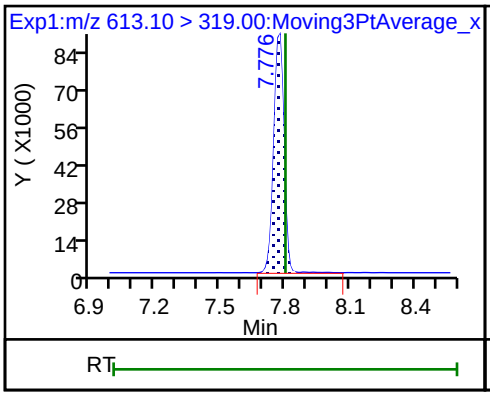
D 81 PFDoA



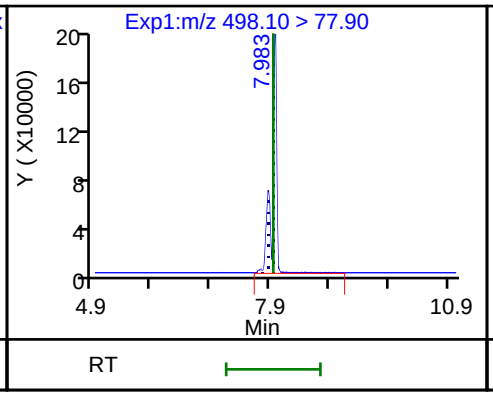
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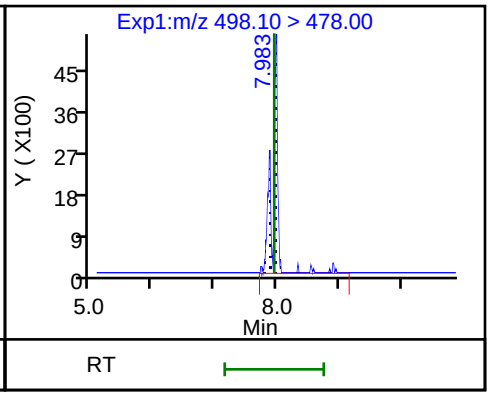
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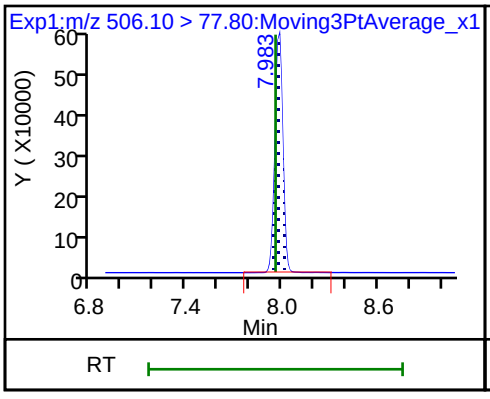
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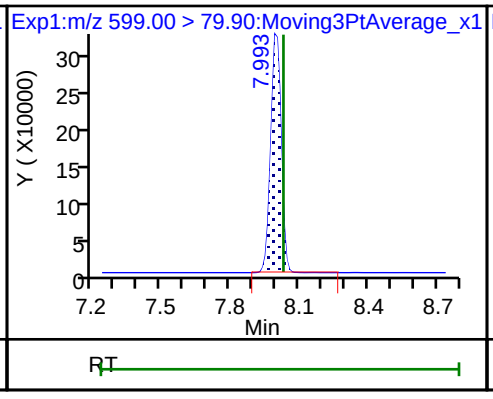
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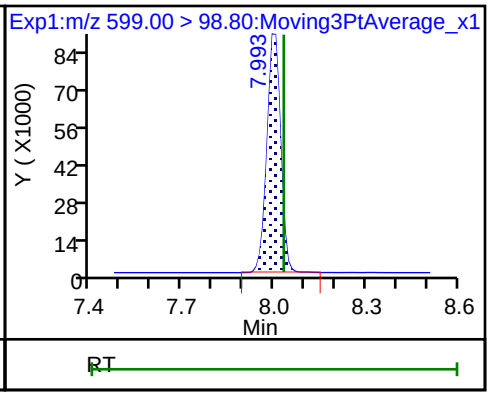
D 65 13C8 FOSA



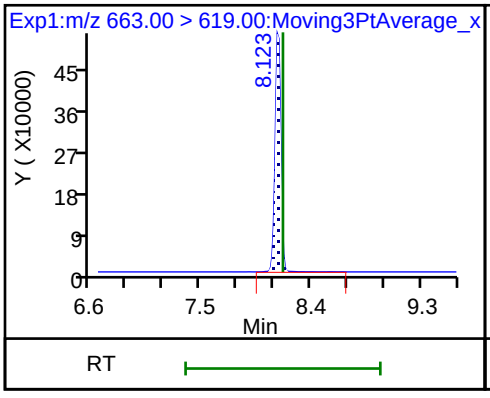
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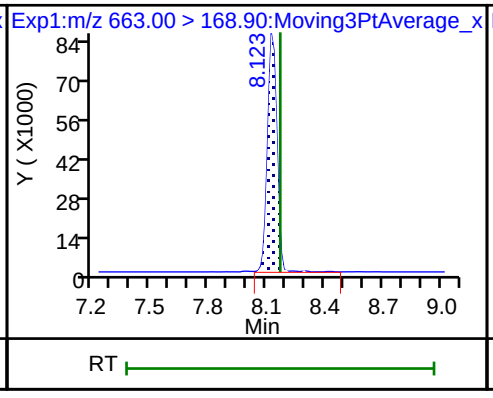
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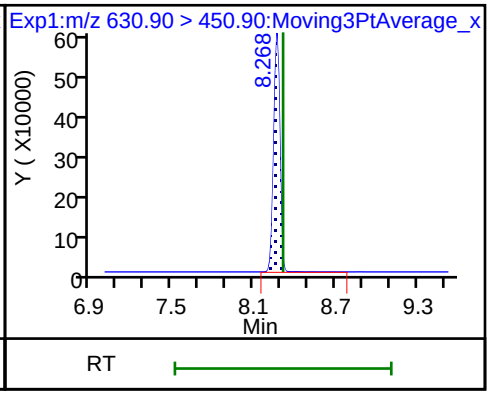
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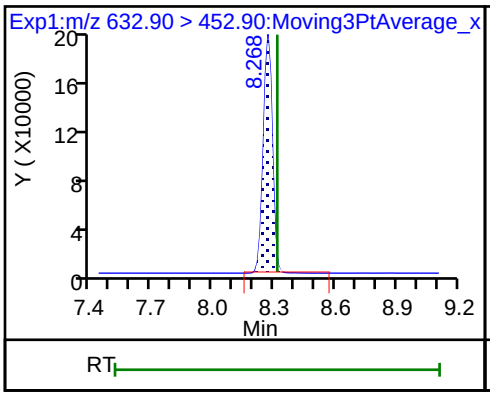
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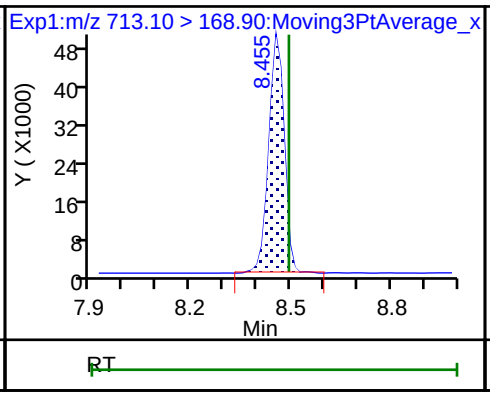
68 11ClFOS



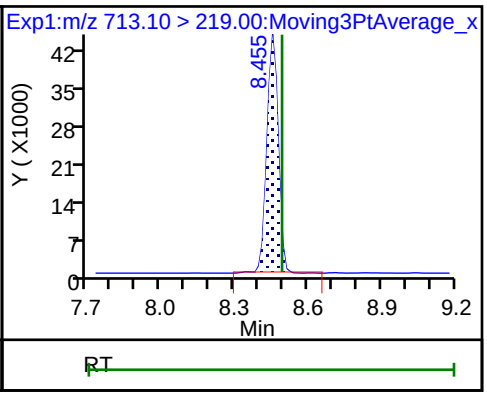
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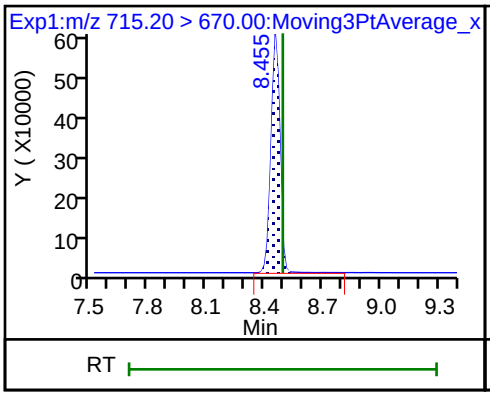
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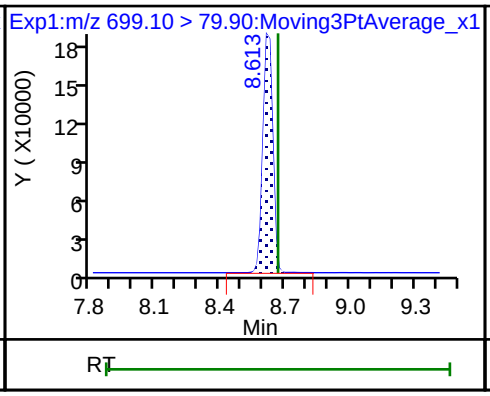
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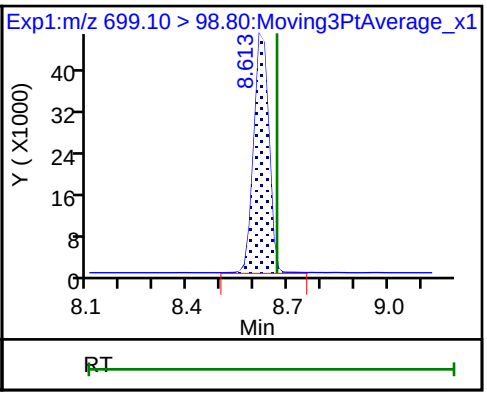
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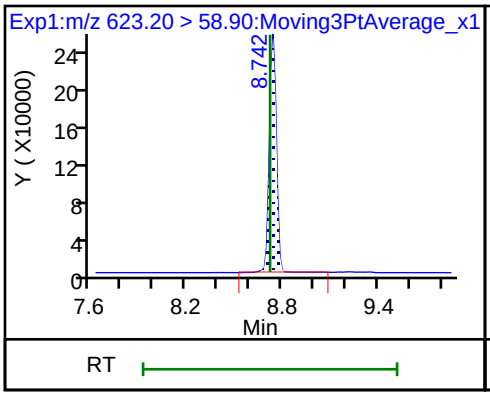
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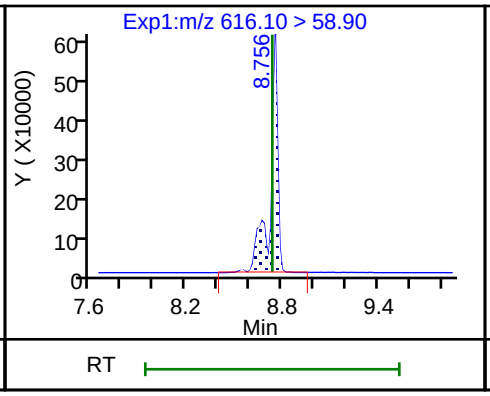
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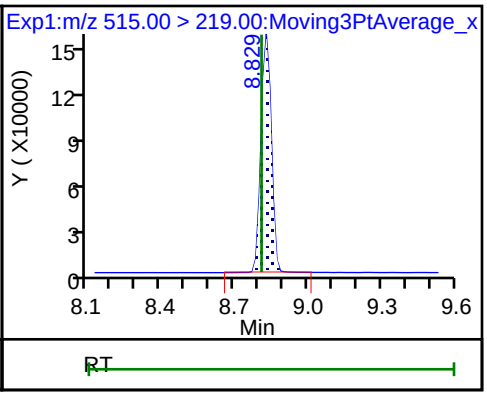
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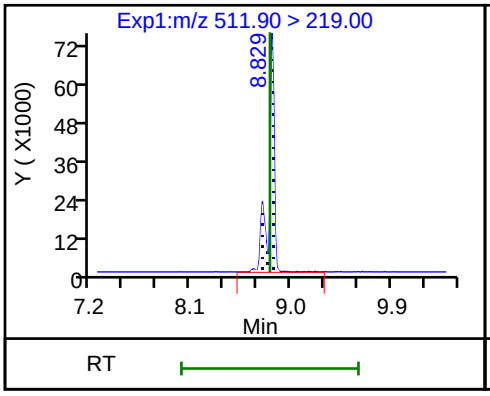
72 N-MeFOSE-M



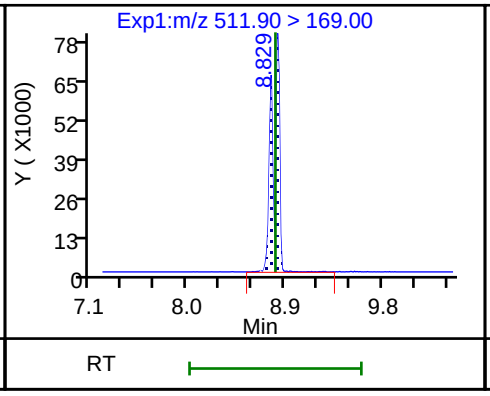
D 74 d3-NMePFOSA



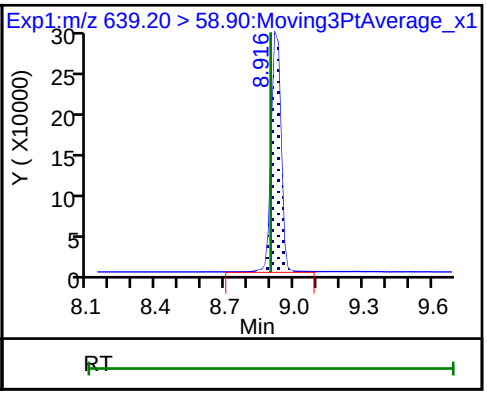
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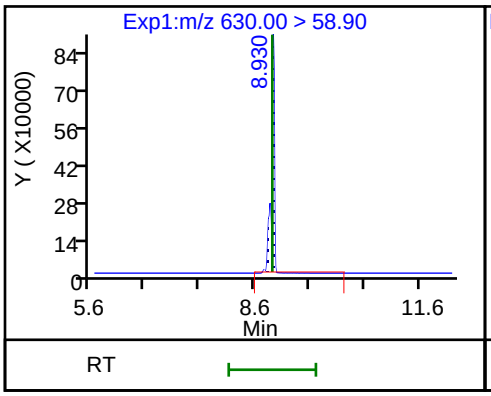
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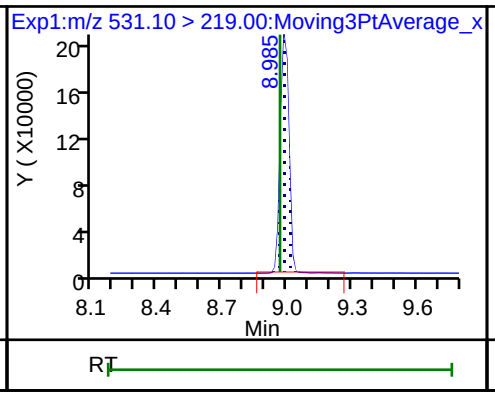
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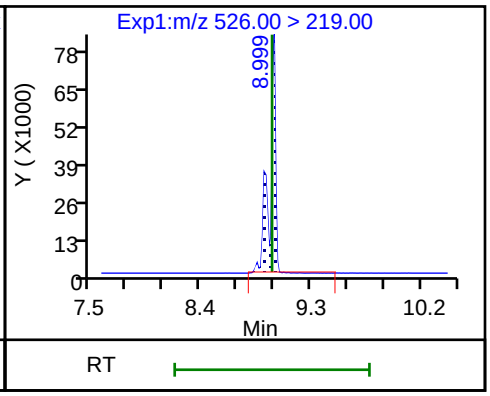
77 N-EtFOSE-M



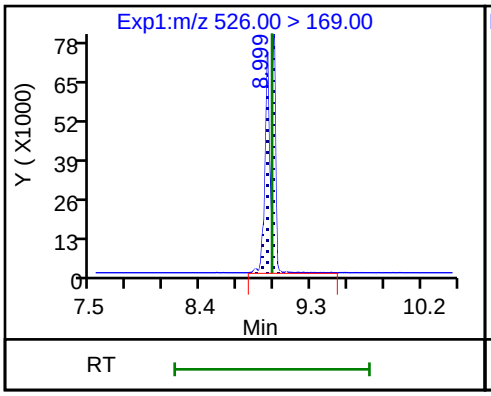
D 78 d5-NEtPFOSA



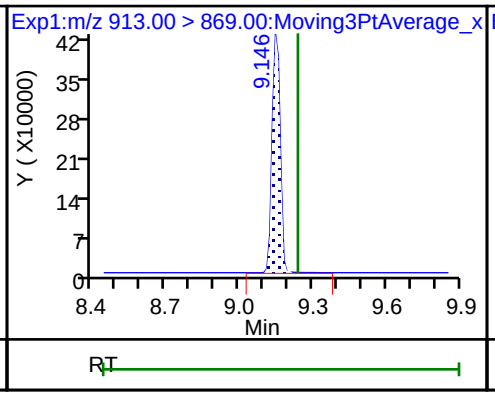
79 N-EtFOSA-M



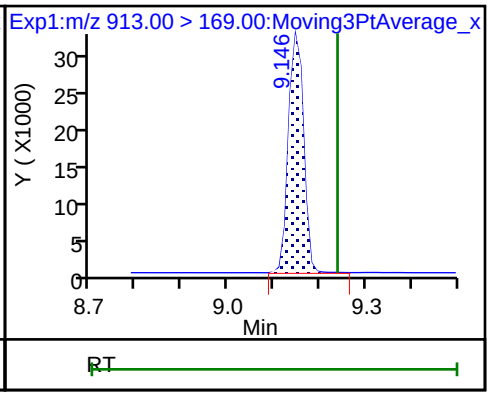
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: ICV 410-761807/10 Calibration Date: 01/29/2026 02:41

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26JAN28CAL-10.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9144	0.8982		4.91	5.00	-2.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.669	1.728		2.59	2.50	4.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0907	0.0867		5.98	6.25	-4.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.858	1.840		2.48	2.50	-1.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	2.124	2.038		2.40	2.50	-4.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.664	1.588		4.47	4.69	-5.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.3510	0.3976		2.83	2.50	13.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8632	0.8289		1.20	1.25	-4.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1115	0.1152		32.3	31.3	3.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.053	1.139		1.20	1.11	8.0	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	0.996	0.999		5.02	5.00	0.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.632	2.952		2.50	2.23	12.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.8410	0.8562		1.27	1.25	2.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	2.382	2.473		4.91	4.73	4.0	30.0
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	AveID	1.657	1.727		4.96	4.76	4.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.113	1.084		1.15	1.18	-3.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.6364	0.6711		1.32	1.25	5.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.0574	0.0591		32.2	31.3	3.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	0.8632	0.7992		1.06	1.14	-7.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.9670	0.9472		1.22	1.25	-2.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.334	1.279		4.60	4.80	-4.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.265	1.288		1.21	1.19	2.0	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	1.157	1.116		1.21	1.25	-4.0	30.0
Perfluorodecanoic acid (PFDA)	AveID	0.6423	0.6712		1.31	1.25	4.0	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7976	0.8368		1.31	1.25	5.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.415	1.369		1.12	1.16	-3.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.4646	0.4839		1.30	1.25	4.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.776	2.681		4.50	4.67	-3.0	30.0

FORM VII 1633A

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: ICV 410-761807/10 Calibration Date: 01/29/2026 02:41

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26JAN28CAL-10.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorononanesulfonic acid (PFNS)	AveID	1.088	1.021		1.13	1.20	-6.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.6975	0.7256		1.30	1.25	4.0	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.046	1.057		1.27	1.26	1.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.153	1.054		1.10	1.21	-9.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	0.9006	0.8682		1.21	1.25	-4.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	1.524	1.529		4.73	4.72	0.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1487	0.1553		1.31	1.25	4.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	1.913	1.774		11.6	12.5	-7.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.064	1.016		1.16	1.21	-5.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	0.995	1.052		1.32	1.25	6.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	2.110	2.126		12.6	12.5	1.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9808	0.9876		1.26	1.25	1.0	30.0
13C3-PFPrA	Ave	0.8660	0.8623		1.99	2.00	0.0	30.0
13C4 PFBA	Ave	1.045	1.011		1.93	2.00	-3.0	30.0
13C5 PFPeA	Ave	0.5814	0.5825		2.00	2.00	0.0	30.0
13C2 4:2 FTS	Ave	0.1525	0.1483		4.56	4.69	-3.0	30.0
13C5 PFHxA	Ave	1.143	1.114		1.95	2.00	-2.0	30.0
13C3 PFBS	Ave	1.125	1.101		1.82	1.86	-2.0	30.0
13C3 HFPO-DA	Ave	0.9887	0.998		2.02	2.00	1.0	30.0
13C4 PFHpA	Ave	1.127	1.146		2.03	2.00	2.0	30.0
13C2 6:2 FTS	Ave	0.1256	0.1256		4.76	4.76	0.0	30.0
13C8 PFOA	Ave	1.000	0.9149		1.83	2.00	-9.0	30.0
13C3 PFHxS	Ave	1.027	1.035		1.91	1.90	1.0	30.0
13C9 PFNA	Ave	0.9366	0.8961		1.91	2.00	-4.0	30.0
13C2 8:2 FTS	Ave	0.1198	0.1172		4.70	4.80	-2.0	30.0
d3-NMeFOSAA	Ave	0.2975	0.2732		4.59	5.00	-8.0	30.0
13C6 PFDA	Ave	1.011	0.9930		1.97	2.00	-2.0	30.0
d5-NEtFOSAA	Ave	0.2572	0.2432		4.73	5.00	-5.0	30.0
13C8 PFOS	Ave	1.015	1.015		1.92	1.92	0.0	30.0
13C7 PFUnA	Ave	1.008	0.9621		1.91	2.00	-5.0	30.0
13C2 PFDoA	Ave	0.7103	0.7216		2.03	2.00	2.0	30.0
13C8 FOSA	Ave	1.138	1.130		1.99	2.00	-1.0	30.0
13C2 PFTeDA	Ave	0.5894	0.5347		1.81	2.00	-9.0	30.0
d7-N-MeFOSE-M	Ave	0.1795	0.1832		5.10	5.00	2.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: ICV 410-761807/10 Calibration Date: 01/29/2026 02:41

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26JAN28CAL-10.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d3-NMePFOSA	Ave	0.3214	0.3198		1.99	2.00	-1.0	30.0
d9-N-EtFOSE-M	Ave	0.2384	0.2335		4.90	5.00	-2.0	30.0
d5-NEtPFOSA	Ave	0.3912	0.4045		2.07	2.00	3.0	30.0
13C3-PFDoS	None				0.000000	2.00	-100.0*	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-10.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 29-Jan-2026 02:41:16 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist:

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 12:09:50 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1631

First Level Reviewer: M4QQ Date: 29-Jan-2026 07:05:29
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.009	2.008	0.001	0.480	1093825	1.99		99.6	540	
2 Perfluoropropionic acid										
163.00 > 119.00	2.017	2.033	-0.016	1.004	1096652	2.19			2776	
3 PFBA										
212.80 > 168.90	4.176	4.179	-0.003	0.998	2880352	4.91			28454	
D 4 13C4-PFBA										
216.80 > 171.90	4.184	4.187	-0.003	1.000	1282696	1.93		96.7	13762	
* 5 13C3PFBA										
216.00 > 172.00	4.184	4.187	-0.003		1268556	2.00			555	
6 PFMPA										
229.00 > 84.90	4.515	4.508	0.007	0.931	1736485	2.59			4569	
7 3:3 FTCA										
241.00 > 177.00	4.525	4.518	0.007	0.934	217809	5.98	Target=1.24		1903	
241.00 > 117.00	4.525	4.518	0.007	0.934	184326		1.18(0.62-1.86)		812	
D 8 13C5 PFPeA										
268.30 > 223.00	4.847	4.842	0.005	0.913	803908	2.00		100	4030	
9 PFPA										
263.00 > 219.00	4.847	4.850	-0.003	1.000	1849355	2.48			2736	
10 PFMBA										
279.00 > 85.10	5.005	4.999	0.006	1.032	2048089	2.40			7997	
D 12 13C2-4:2FTS										
329.10 > 80.90	5.119	5.123	-0.004	0.800	501523	4.56		97.2	2264	
13 4:2FTS										
327.10 > 307.00	5.119	5.123	-0.004	1.000	795558	4.47	Target=1.50		4532	
327.10 > 80.90	5.119	5.123	-0.004	1.000	502789		1.58(0.75-2.24)		3450	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.266	5.271	-0.005	0.992	764329	2.83	Target=1.53		2494	
295.00 > 84.90	5.266	5.271	-0.005	0.992	522622		1.46(0.76-2.29)		3169	
D 15 13C5 PFHxA										
318.00 > 273.00	5.307	5.312	-0.005	1.000	1538012	1.95		97.5	4812	
* 16 13C2 PFHxA										
315.10 > 270.00	5.307	5.312	-0.005		3450124	5.00			10875	
17 PFHxA										
313.00 > 269.00	5.307	5.312	-0.005	1.000	796820	1.20	Target=12.38		1362	
313.00 > 118.90	5.307	5.312	-0.005	1.000	73520		10.84(6.19-18.57)		310	
18 5:3 FTCA										
341.00 > 237.10	5.369	5.375	-0.006	1.012	2769158	32.3	Target=0.84		3291	
341.00 > 217.00	5.369	5.375	-0.006	1.012	3260166		0.85(0.42-1.25)		3150	
19 FBSA										
297.90 > 78.00	5.435	5.441	-0.006	0.995	2105467	2.52			2456	
D 20 13C3 PFBS										
302.10 > 79.90	5.461	5.454	0.007	0.854	1479869	1.82		97.8	456267	
21 PFBS										
298.70 > 79.90	5.448	5.454	-0.006	0.998	1004152	1.20	Target=3.07		3033	
298.70 > 98.80	5.461	5.454	0.007	1.000	302994		3.31(1.54-4.61)		2059	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.502	5.495	0.007	1.037	1377584	2.02		101	7177	
23 HFPO-DA										
284.90 > 168.90	5.502	5.495	0.007	1.000	3441494	5.02	Target=2.35		2976	
284.90 > 184.90	5.502	5.495	0.007	1.000	1402517		2.45(1.17-3.52)		5474	
26 PFEESA										
314.80 > 134.90	5.703	5.697	0.006	1.075	5062045	2.50	Target=11.61		12959	
314.80 > 82.90	5.703	5.697	0.006	1.075	499430		10.14(5.81-17.42)		3146	
27 PFHpA										
363.10 > 319.00	5.746	5.740	0.006	1.000	846626	1.27	Target=2.31		1612	
363.10 > 169.00	5.746	5.740	0.006	1.000	346955		2.44(1.16-3.47)		997	
D 28 13C4 PFHpA										
367.10 > 322.00	5.746	5.740	0.006	1.083	1582030	2.03		102	8214	
29 ADONA										
376.90 > 250.90	5.898	5.892	0.006	1.072	8048777	4.90	Target=1.93		13001	
376.90 > 84.80	5.898	5.892	0.006	1.072	4095918		1.97(0.97-2.90)		9667	
D 30 13C2-6:2FTS										
429.10 > 80.90	5.942	5.936	0.006	0.929	431298	4.76		100	1813	
31 6:2FTS										
427.10 > 407.00	5.942	5.936	0.006	1.000	744134	4.96	Target=1.49		1490	
427.10 > 80.90	5.942	5.936	0.006	1.000	493338		1.51(0.75-2.24)		838	
32 PFPeS										
349.10 > 79.90	5.942	5.951	-0.009	0.929	950476	1.14	Target=3.10		3510	
349.10 > 98.90	5.942	5.951	-0.009	0.929	291847		3.26(1.55-4.65)		898	
33 BTS										
280.00 > 147.00	6.126	6.121	0.005	0.958	8025140	4.14			17976	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 PFOA										
413.00 > 369.00	6.152	6.160	-0.008	1.000	783213	1.32	Target=1.86		784	
413.00 > 169.00	6.152	6.160	-0.008	1.000	403406		1.94(0.93-2.79)		481	
D 35 13C8 PFOA										
421.10 > 376.00	6.152	6.160	-0.008	1.000	1865155	1.83		91.5	5600	
* 36 13C4 PFOA										
417.10 > 372.00	6.152	6.160	-0.008		5096865	5.00			15156	
37 7:3 FTCA										
441.00 > 316.90	6.216	6.212	0.004	1.171	1421015	32.2	Target=0.34		3764	
441.00 > 336.90	6.216	6.212	0.004	1.171	4211451		0.34(0.17-0.51)		5223	
* 40 18O2 PFHxS										
403.00 > 83.90	6.395	6.404	-0.009		1367246	1.90			7892	
D 38 13C3 PFHxS										
402.10 > 79.90	6.395	6.404	-0.009	1.000	1414750	1.91		101	4522	
39 PFHxS										
398.70 > 79.90	6.407	6.404	0.003	1.002	680127	1.06	Target=3.30		922	
398.70 > 98.90	6.407	6.404	0.003	1.002	218042		3.12(1.65-4.96)		364	
D 41 13C9 PFNA										
472.10 > 427.00	6.572	6.568	0.004	1.000	1549061	1.91		95.7	3424	
42 PFNA										
463.00 > 419.00	6.585	6.568	0.017	1.002	916266	1.22	Target=2.61		1373	
463.00 > 219.00	6.585	6.568	0.017	1.002	352444		2.60(1.31-3.92)		496	
* 43 13C5 PFNA										
468.00 > 423.00	6.572	6.581	-0.009		1728657	2.00			7363	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.761	6.758	0.003	1.057	405542	4.69		97.8	1348	
45 8:2FTS										
527.10 > 507.00	6.761	6.770	-0.009	1.000	518817	4.60	Target=1.36		2442	
527.10 > 80.80	6.761	6.770	-0.009	1.000	354530		1.46(0.68-2.04)		968	
46 PFECHS										
461.00 > 381.00	6.811	6.808	0.003	1.065	469134	2.09	Target=0.26		2877	
461.00 > 99.00	6.811	6.808	0.003	1.065	1838499		0.26(0.13-0.39)		6730	
47 FHxSA										
397.90 > 78.00	6.835	6.832	0.003	1.069	2537664	2.45			4206	
48 PFHpS										
449.00 > 79.90	6.848	6.845	0.003	0.940	949974	1.21	Target=4.06		4100	
449.00 > 98.80	6.848	6.845	0.003	0.940	237205		4.00(2.03-6.09)		73582	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.920	6.929	-0.009	0.950	834019	4.59		91.8	1402	
50 NMeFOSAA										
570.10 > 419.00	6.932	6.929	0.003	1.002	232767	1.21	Target=1.95		80421	
570.10 > 483.00	6.932	6.929	0.003	1.002	128535		1.81(0.98-2.93)		39004	
* 51 13C2 PFDA										
515.10 > 470.10	7.002	7.000	0.002		1593752	2.00			6540	
D 52 13C6 PFDA										
519.10 > 474.10	7.002	7.000	0.002	1.000	1582606	1.96		98.2	3986	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
53 PFDA										
512.90 > 469.00	7.002	7.000	0.002	1.000	663905	1.31	Target=3.17		1914	
512.90 > 219.00	7.002	7.000	0.002	1.000	181846		3.65(1.58-4.75)		56693	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.114	7.111	0.003	0.977	742510	4.73		94.6	1383	
55 NEtFOSAA										
584.20 > 419.10	7.126	7.111	0.015	1.002	155518	1.31	Target=1.64		50608	
584.20 > 526.00	7.114	7.111	0.003	1.000	105579		1.47(0.82-2.47)		29288	
D 56 13C8 PFOS										
507.10 > 79.90	7.281	7.291	-0.010	1.000	1187808	1.92		100	850	
* 57 13C4 PFOS										
502.80 > 79.90	7.281	7.291	-0.010		1169724	1.92			4711	
58 PFOS										
498.90 > 79.90	7.294	7.291	0.003	1.002	984571	1.12	Target=4.98		1159	
498.90 > 98.80	7.281	7.291	-0.010	1.000	189095		5.21(2.49-7.47)		351	
D 59 13C7 PFUnA										
570.00 > 525.10	7.439	7.435	0.004	1.062	1533324	1.91		95.4	1708	
60 PFUnA										
563.10 > 519.00	7.439	7.435	0.004	1.000	463728	1.30	Target=2.89		1667	
563.10 > 269.10	7.439	7.435	0.004	1.000	145678		3.18(1.45-4.34)		1025	
61 9ClFOS										
530.80 > 351.00	7.613	7.620	-0.007	1.046	7752153	4.50	Target=3.11		8752	
532.80 > 353.00	7.613	7.620	-0.007	1.046	2560178		3.03(1.55-4.66)		9165	
62 PFNS										
548.80 > 79.90	7.713	7.723	-0.010	1.059	759817	1.13	Target=4.37		3132	
548.80 > 98.80	7.713	7.723	-0.010	1.059	182204		4.17(2.19-6.56)		54876	
63 PFDoA										
613.10 > 569.00	7.863	7.861	0.002	1.001	521576	1.30	Target=3.23		2260	
613.10 > 319.00	7.863	7.861	0.002	1.001	152357		3.42(1.61-4.84)		1577	
D 64 13C2 PFDoA										
615.10 > 570.00	7.851	7.861	-0.010	1.121	1150093	2.03		102	4003	
D 65 13C8 FOSA										
506.10 > 77.80	7.960	7.958	0.002	1.093	1379589	1.99		99.3	5739	
66 PFOSA										
498.10 > 77.90	7.960	7.971	-0.011	1.000	915077	1.27	Target=44.84		1768	
498.10 > 478.00	7.960	7.971	-0.011	1.000	19699		46.45(22.42-67.27)		13.3	
67 PFDS										
599.00 > 79.90	8.122	8.118	0.004	1.115	787343	1.10	Target=4.49		4722	
599.00 > 98.80	8.122	8.118	0.004	1.115	178354		4.41(2.24-6.73)		1207	
68 PFTrDA										
663.00 > 619.00	8.252	8.262	-0.010	0.959	543249	1.21	Target=4.04		4041	
663.00 > 168.90	8.252	8.262	-0.010	0.959	120636		4.50(2.02-6.05)		1329	
69 11ClFOS										
630.90 > 450.90	8.414	8.425	-0.011	1.156	4469652	4.73	Target=2.75		13233	
632.90 > 452.90	8.414	8.425	-0.011	1.156	1521714		2.94(1.37-4.12)		8709	
70 PFTeDA										
713.10 > 168.90	8.606	8.616	-0.010	1.000	82729	1.31	Target=0.87		756	
713.10 > 219.00	8.606	8.616	-0.010	1.000	94296		0.88(0.44-1.31)		294	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 71 13C2 PFTeDA										
715.20 > 670.00	8.606	8.616	-0.010	1.229	852158	1.81		90.7	3809	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.748	8.744	0.004	1.202	559112	5.10		102	291	
73 N-MeFOSE-M										
616.10 > 58.90	8.762	8.758	0.004	1.002	2483111	11.6			6825	
74 PFDoS										
699.10 > 79.90	8.790	8.799	-0.009	1.207	761902	1.16	Target=4.76		6110	
699.10 > 98.80	8.790	8.799	-0.009	1.207	150329		5.07(2.38-7.13)		2583	
D 75 d3-NMePFOSA										
515.00 > 219.00	8.830	8.826	0.004	1.213	390440	1.99		99.5	2959	
76 NMeFOSA										
511.90 > 219.00	8.844	8.839	0.005	1.002	256784	1.32	Target=0.73		1033	
511.90 > 169.00	8.830	8.839	-0.009	1.000	335388		0.77(0.37-1.10)		871	
D 77 d9-N-EtFOSE										
639.20 > 58.90	8.924	8.932	-0.008	1.226	712896	4.90		98.0	603	
78 N-EtFOSE-M										
630.00 > 58.90	8.937	8.945	-0.008	1.001	3801874	12.6			9490	
D 79 d5-NEtPFOSA										
531.10 > 219.00	9.001	8.996	0.005	1.236	493914	2.07		103	2376	
80 N-EtFOSA-M										
526.00 > 219.00	9.001	9.009	-0.008	1.000	305491	1.26	Target=0.85		1729	
526.00 > 169.00	9.001	9.009	-0.008	1.000	364350		0.84(0.43-1.28)		1933	
81 Perfluorooctadecanoic acid										
913.00 > 869.00	9.678	9.782	-0.104	1.125	1493351	5.80	Target=10.32		39519	
913.00 > 169.00	9.671	9.782	-0.111	1.124	112659		13.26(5.16-15.48)		4509	

QC Flag Legend

Processing Flags

Reagents:

1633_125_ICV_00034 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 12:09:54 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-10.d

Injection Date: 29-Jan-2026 02:41:16 Instrument ID: 30576

Lims ID: ICV

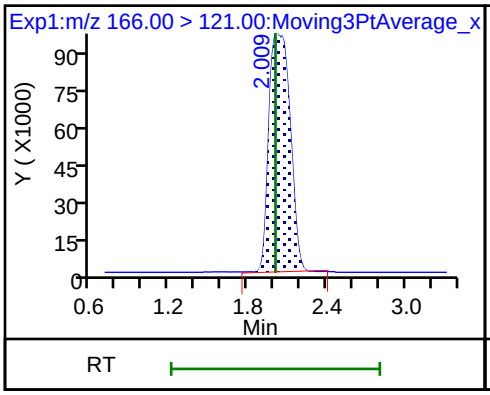
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 10 Worklist Smp#: 10

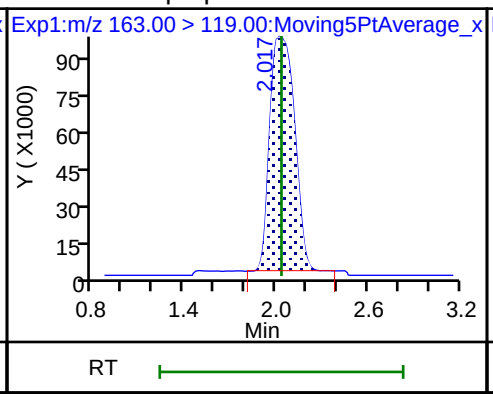
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Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

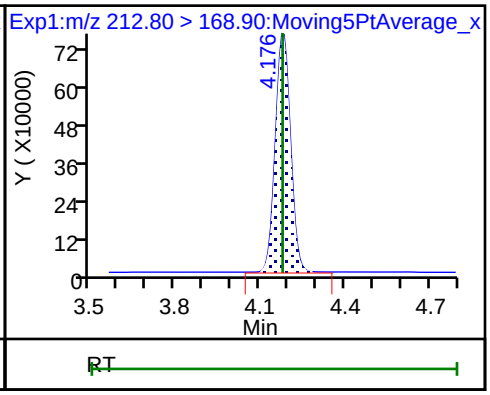
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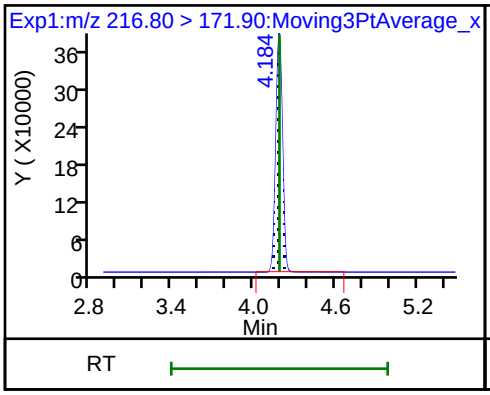
2 Perfluoropropionic acid



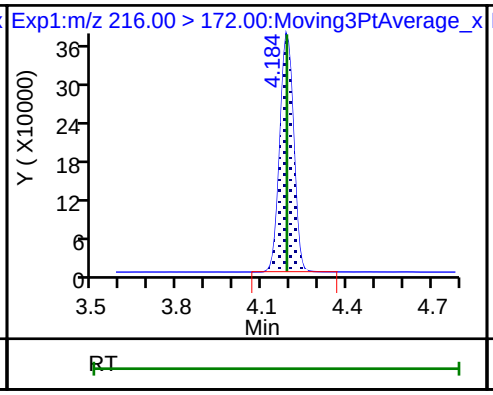
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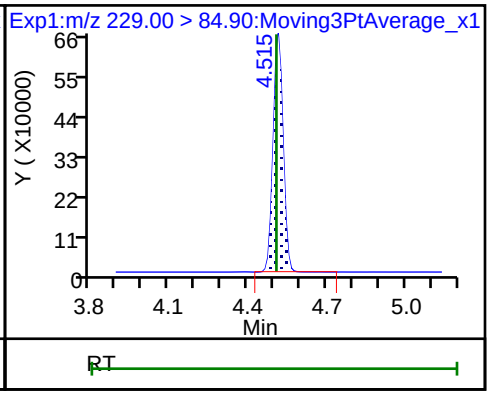
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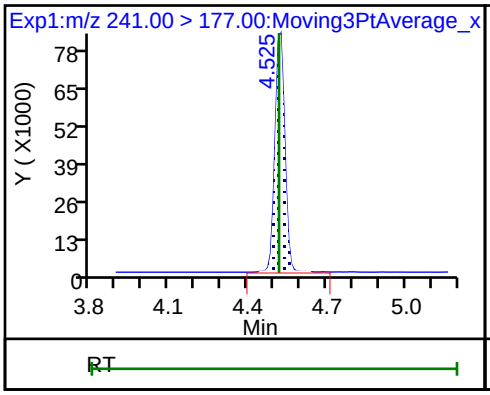
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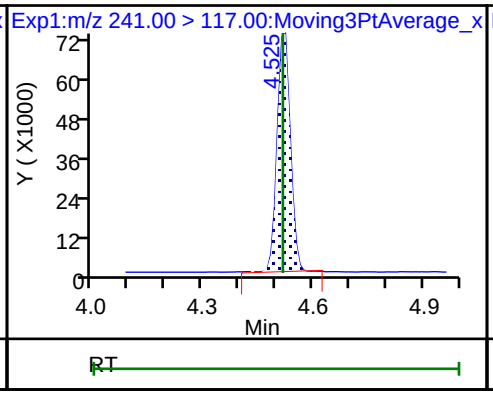
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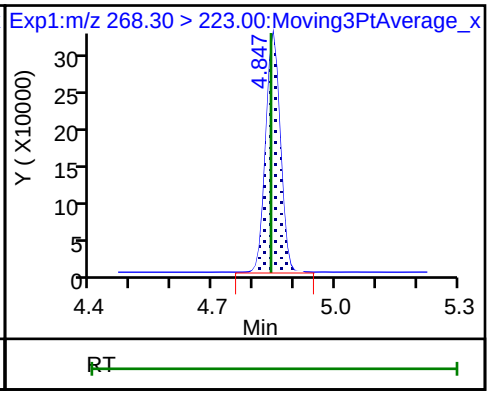
7 3:3 FTCA



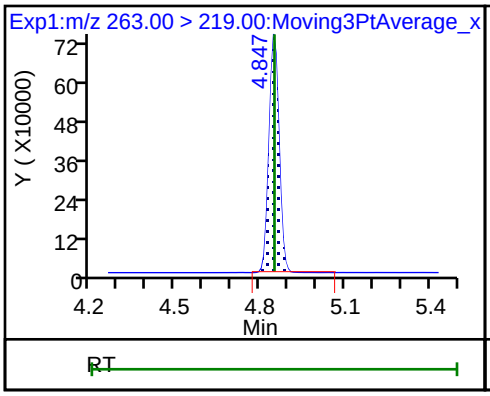
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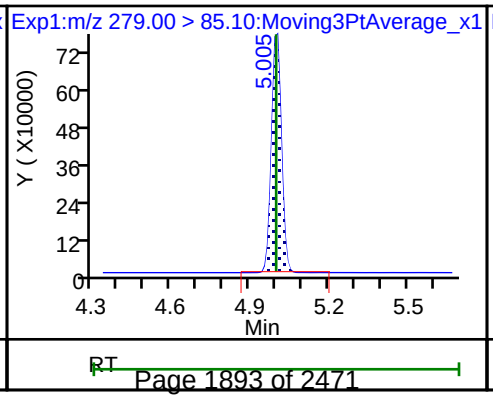
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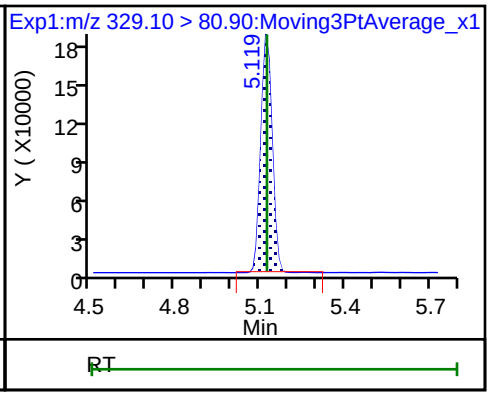
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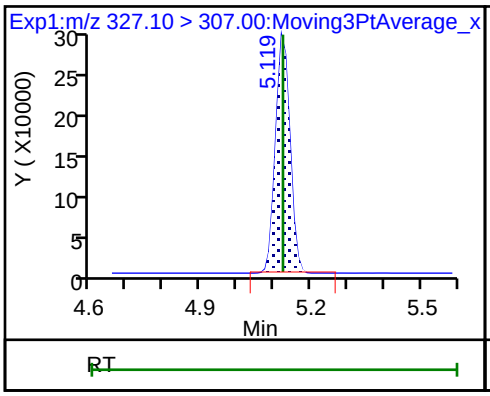
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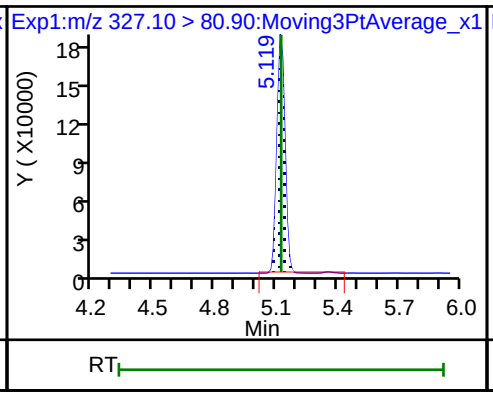
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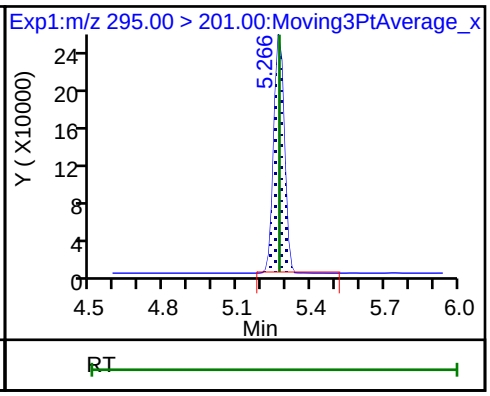
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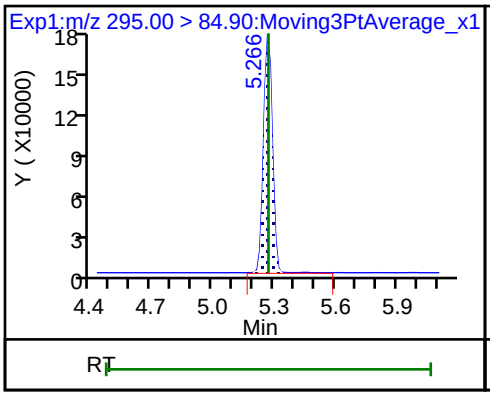
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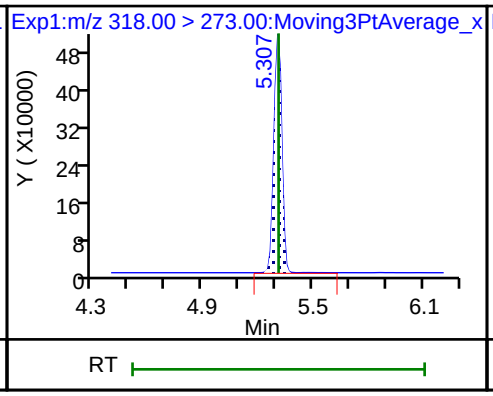
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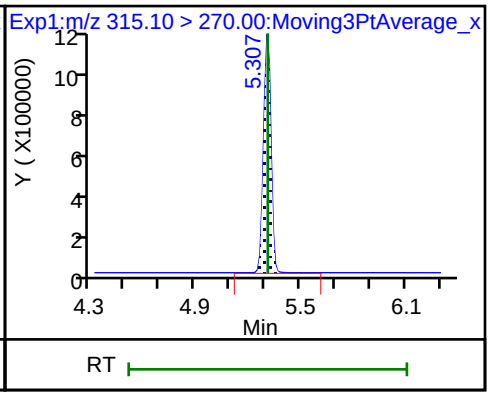
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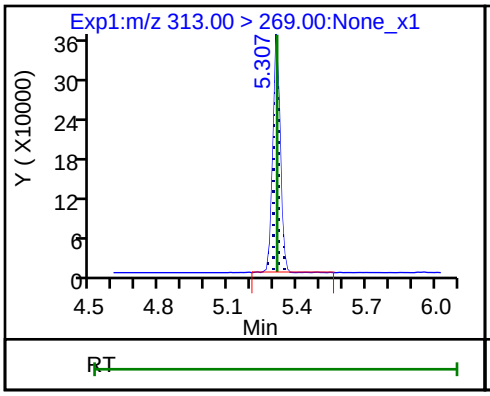
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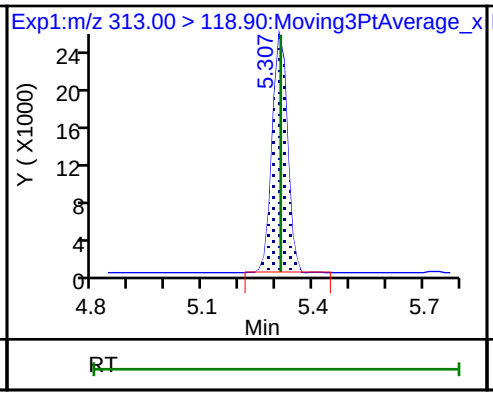
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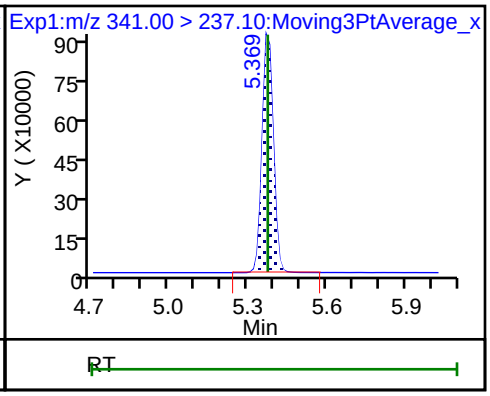
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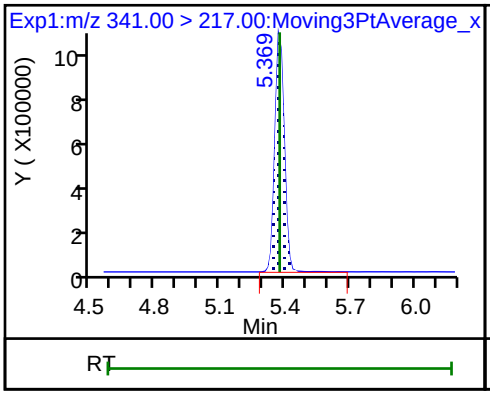
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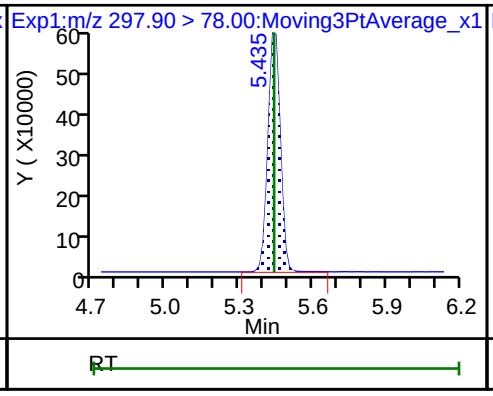
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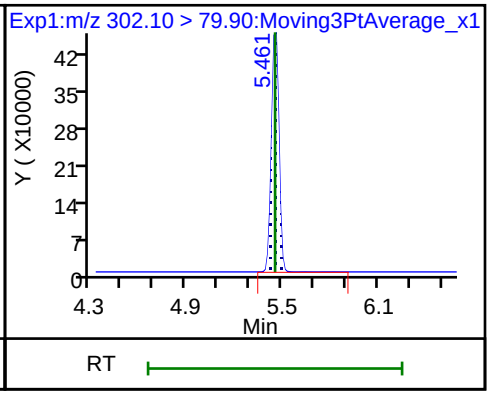
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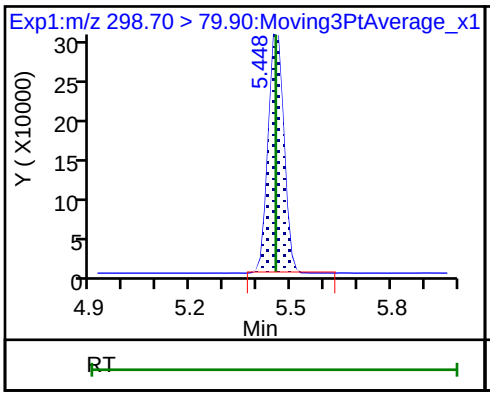
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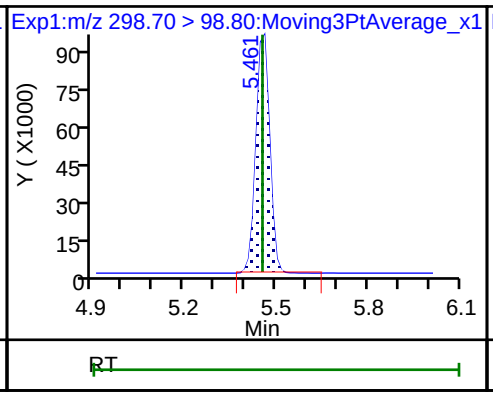
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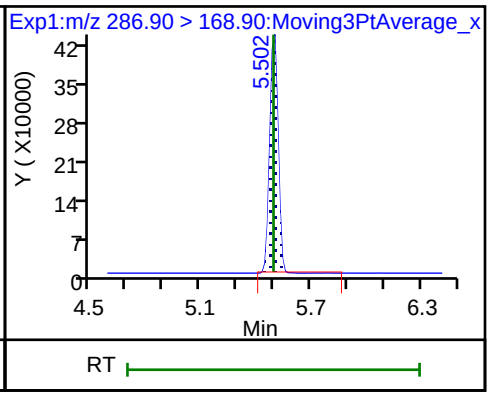
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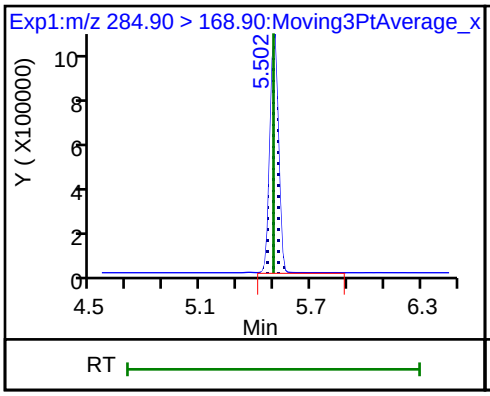
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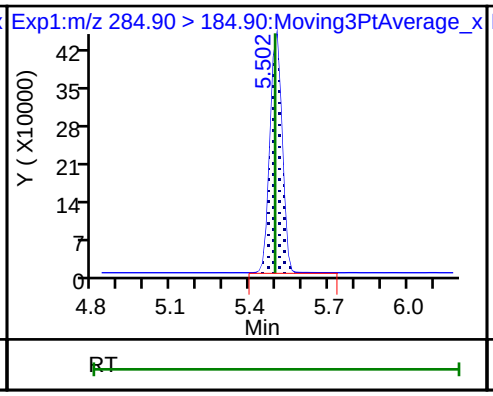
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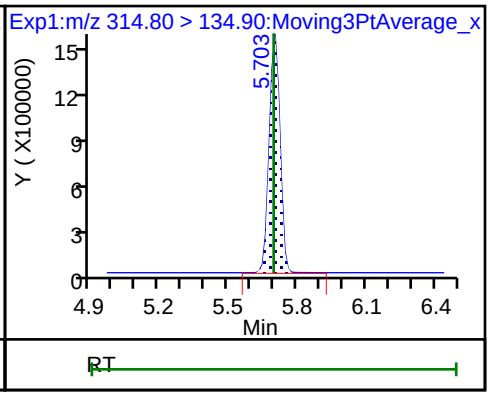
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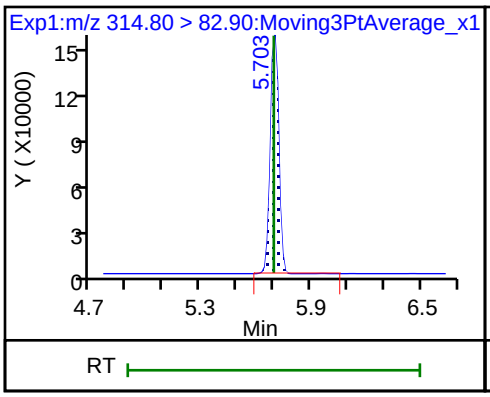
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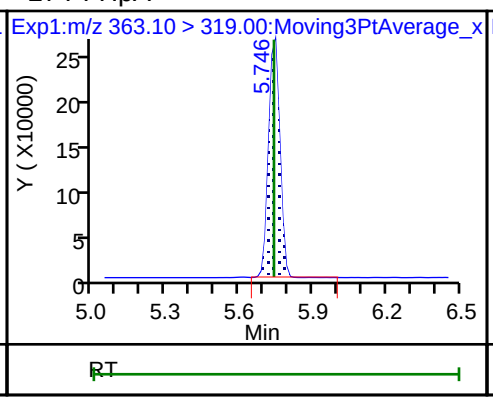
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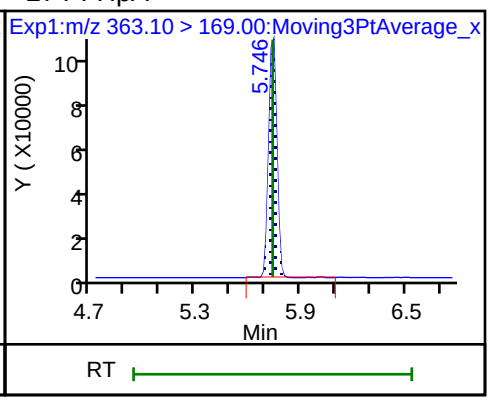
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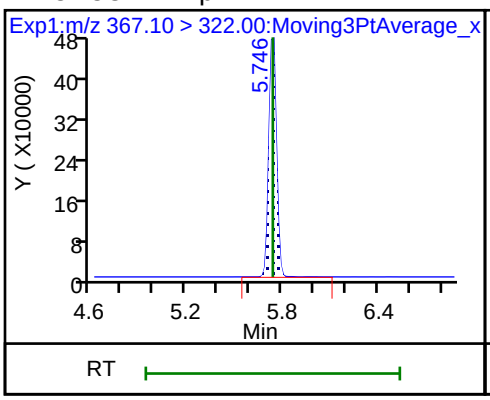
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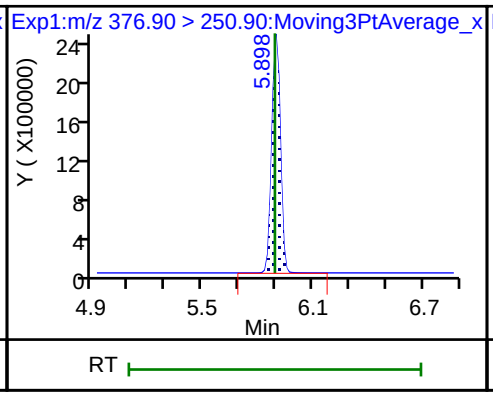
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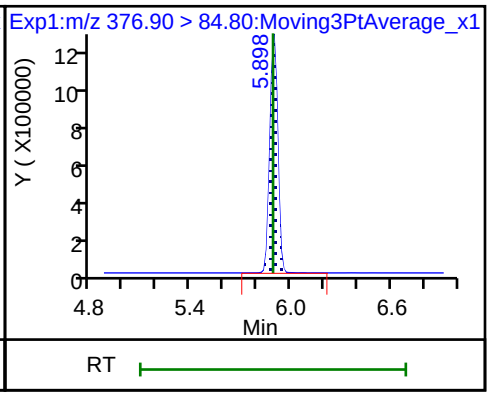
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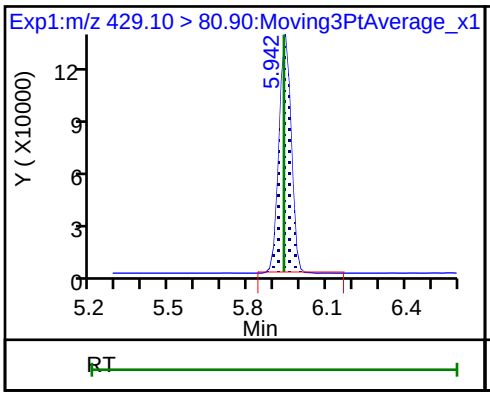
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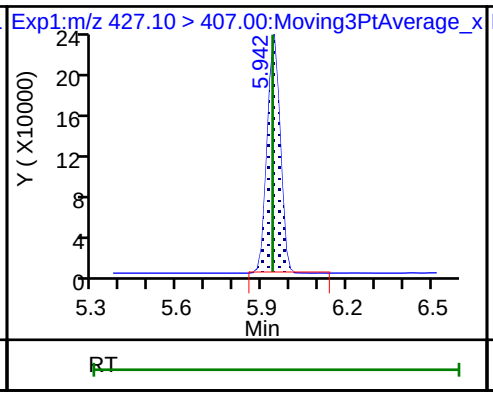
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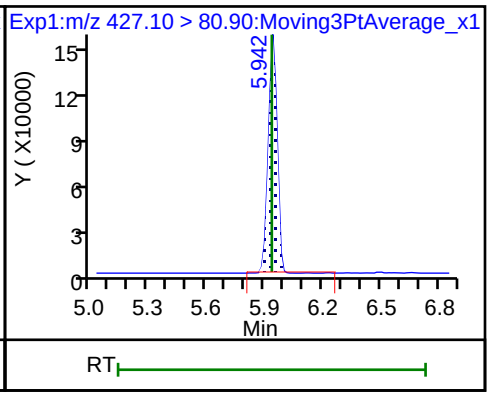
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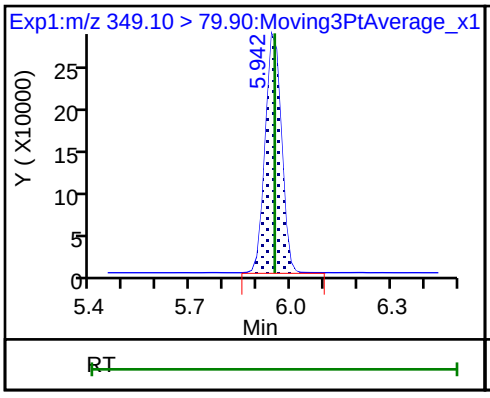
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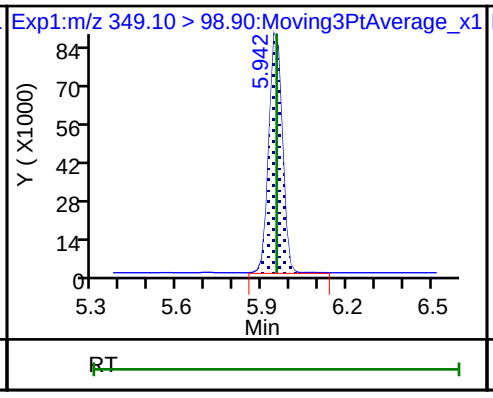
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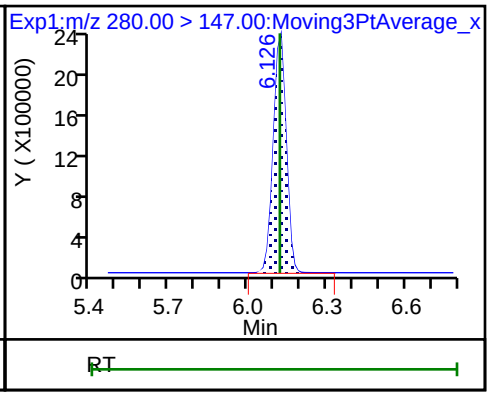
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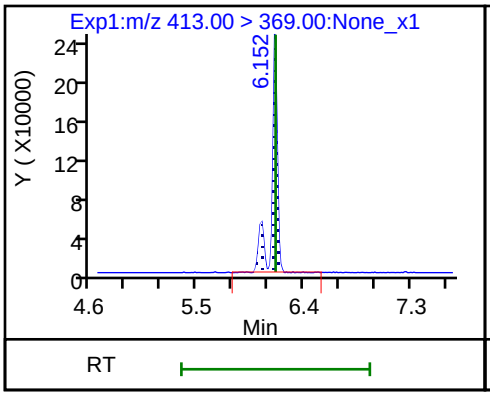
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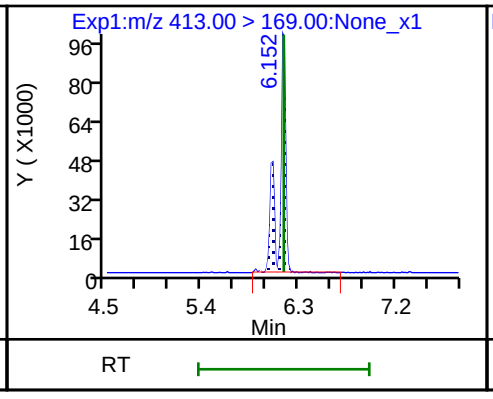
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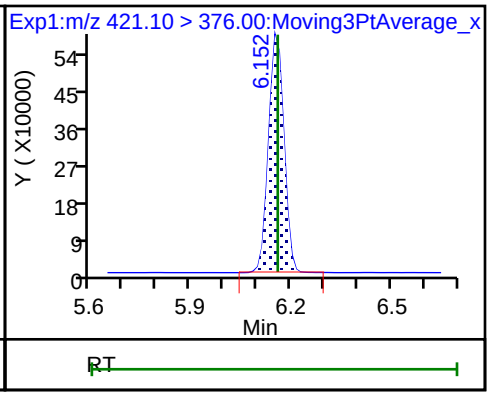
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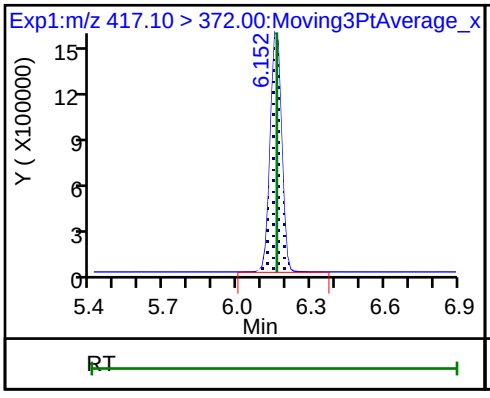
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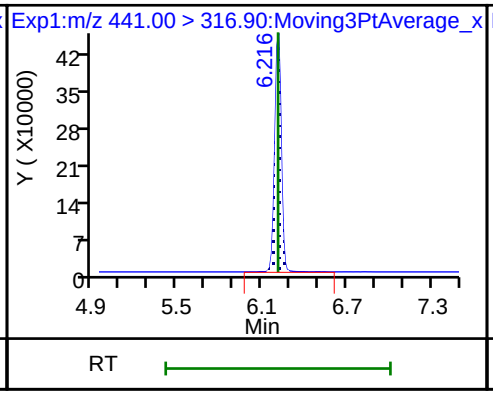
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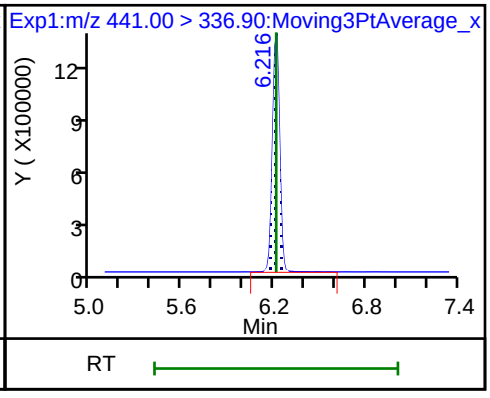
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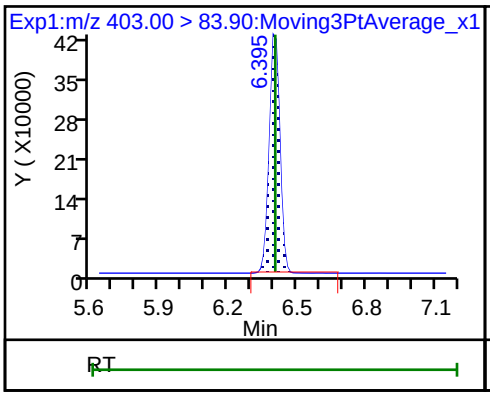
37 7:3 FTCA



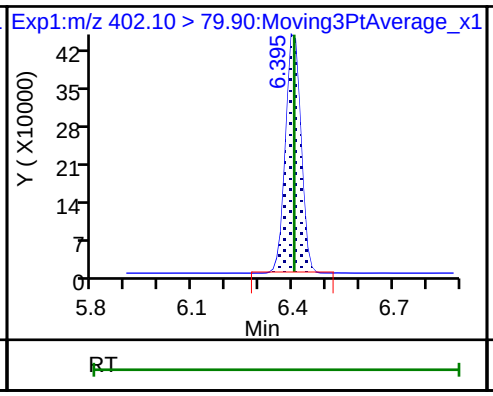
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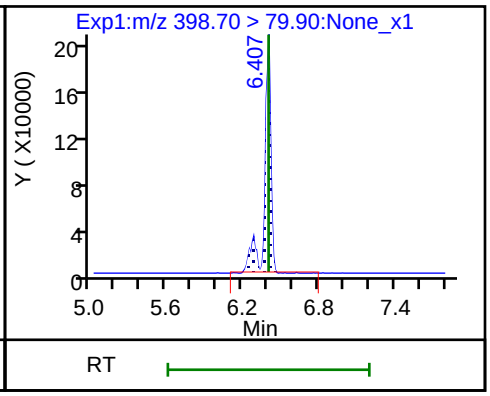
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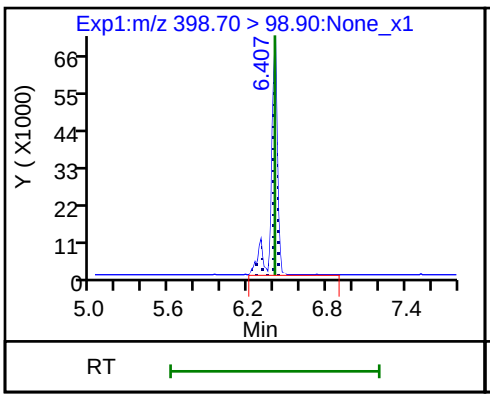
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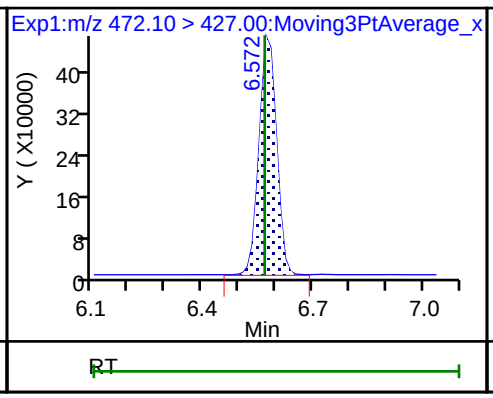
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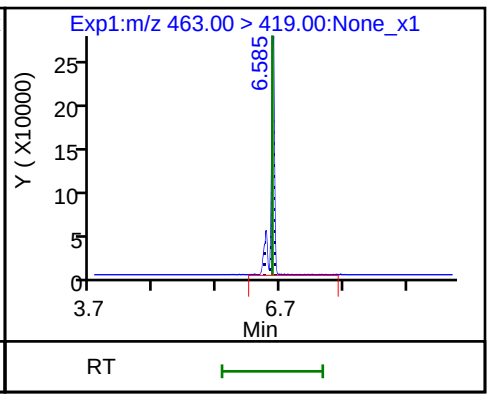
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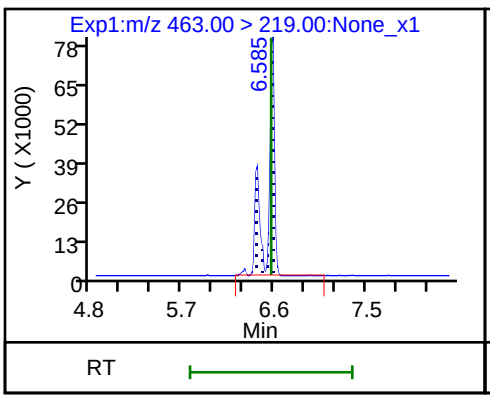
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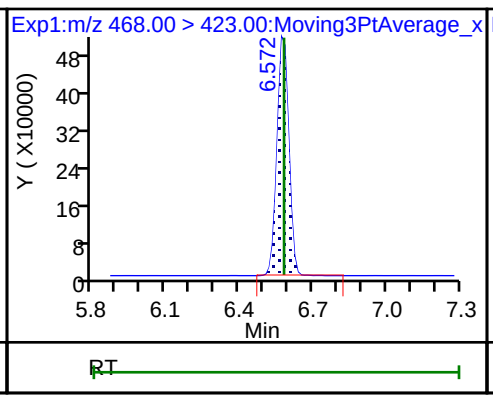
42 PFNA



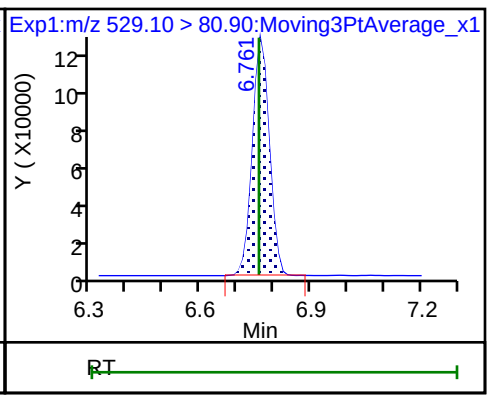
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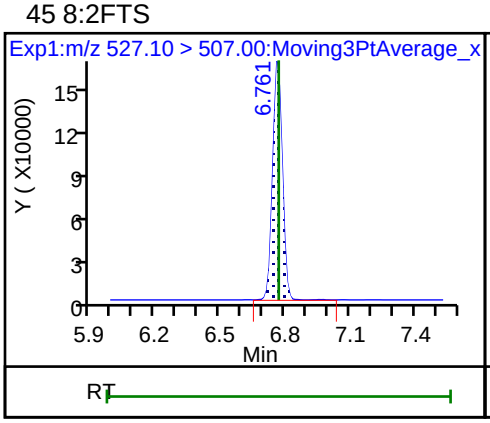
* 43 13C5 PFNA



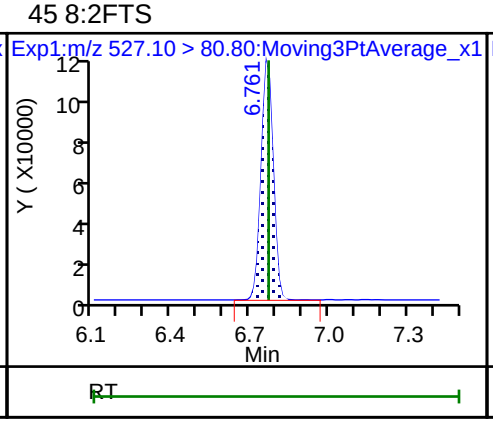
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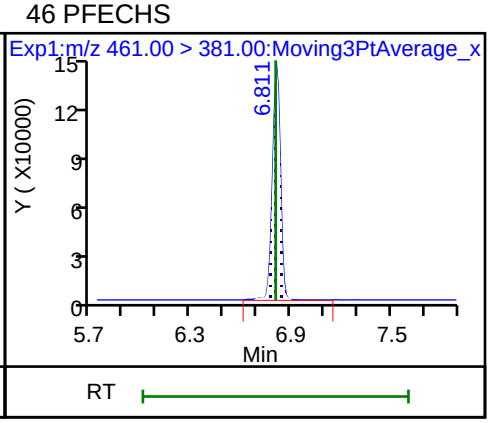
45 8:2FTS



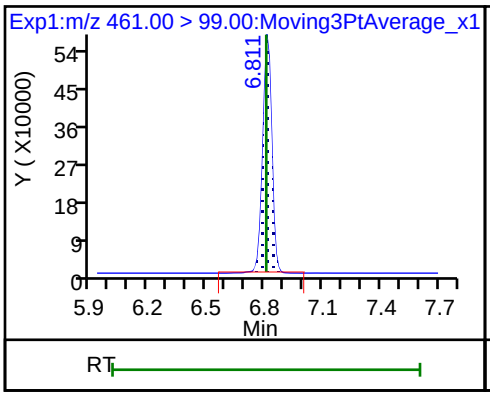
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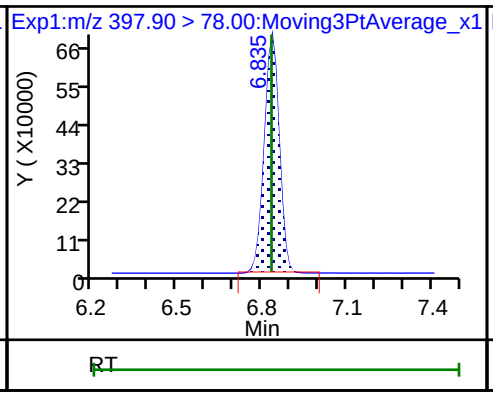
46 PFECHS



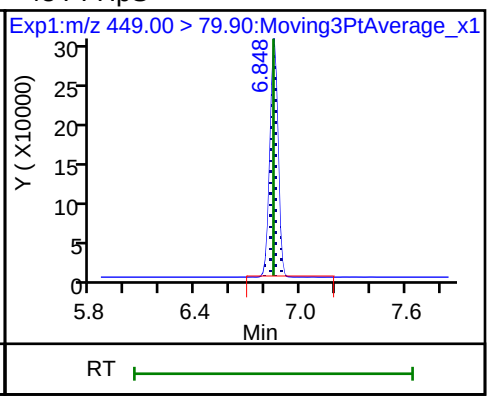
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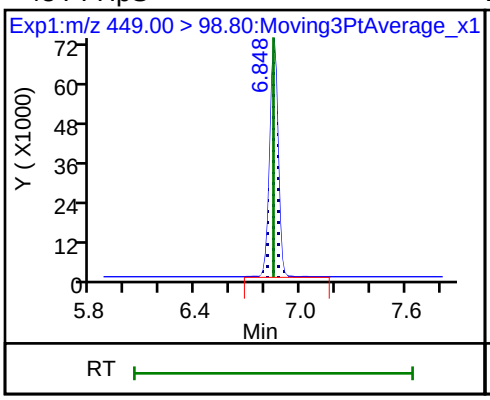
47 FHxSA



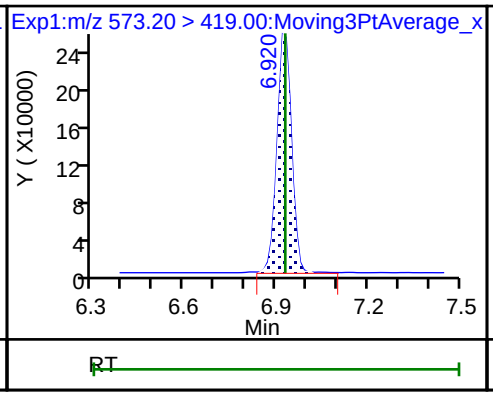
48 PFHpS



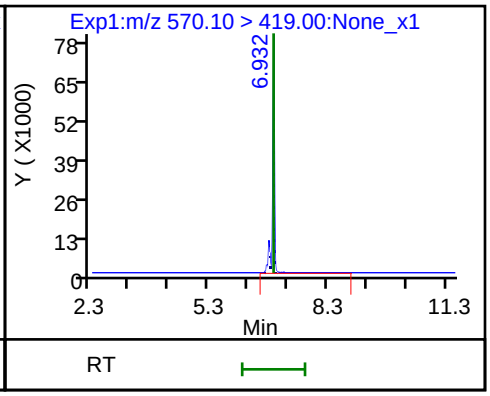
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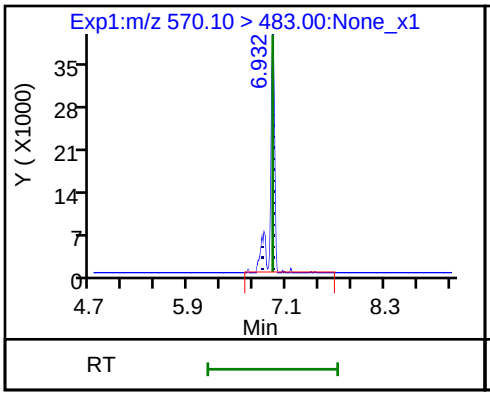
D 49 d3-NMeFOSAA



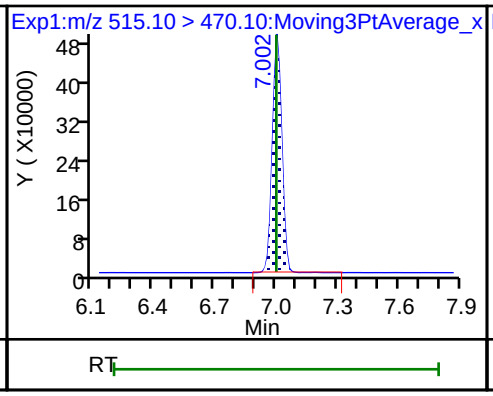
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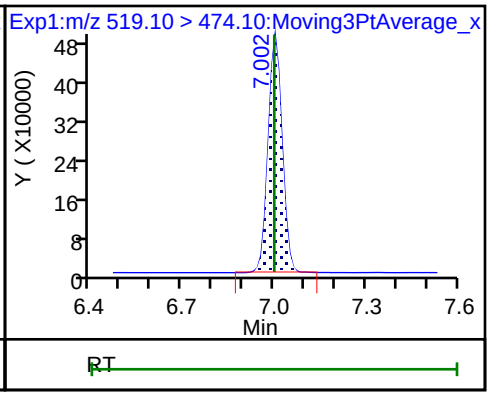
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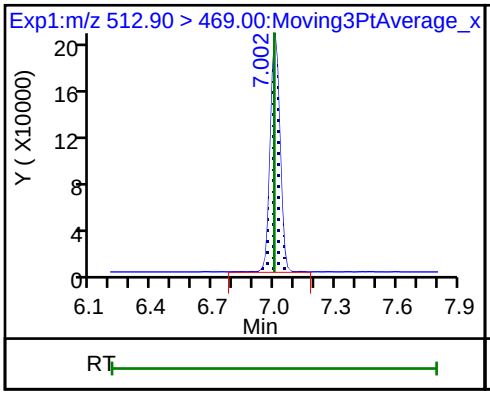
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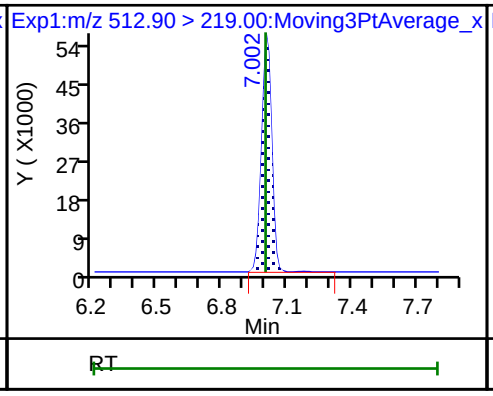
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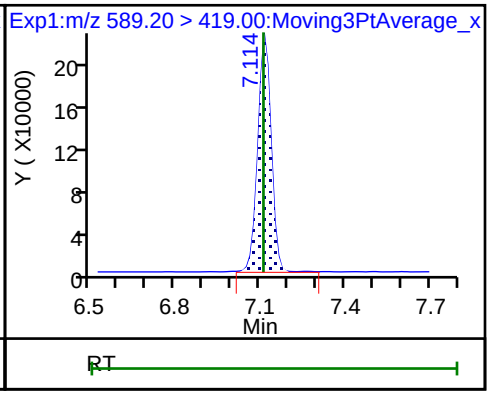
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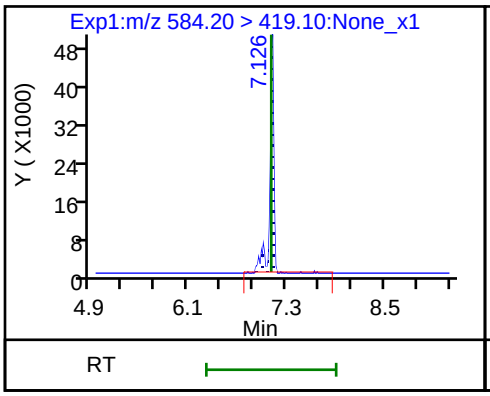
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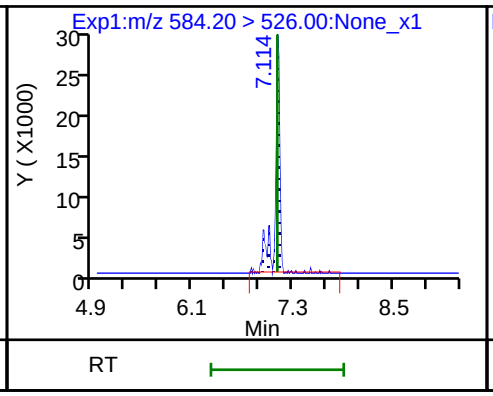
D 54 d5-NEtFOSAA



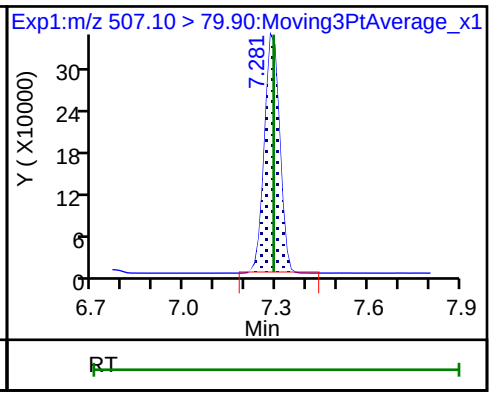
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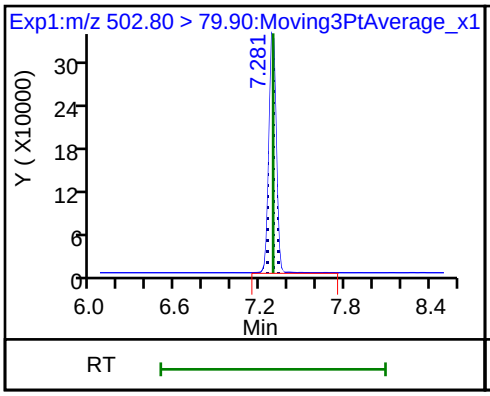
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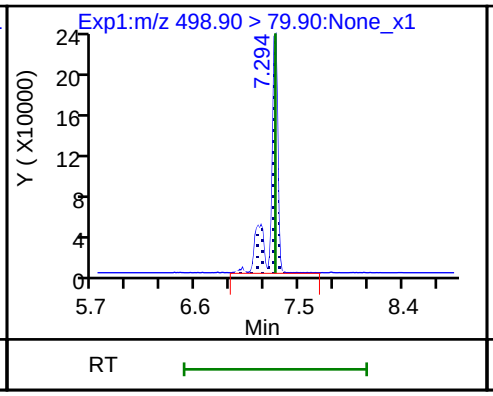
D 56 13C8 PFOS



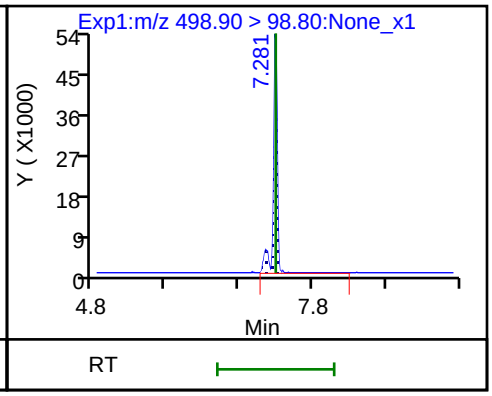
* 57 13C4 PFOS



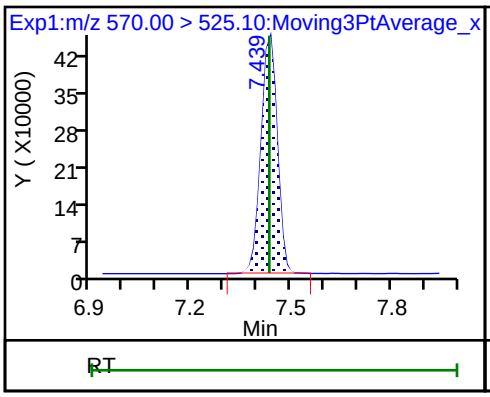
58 PFOS



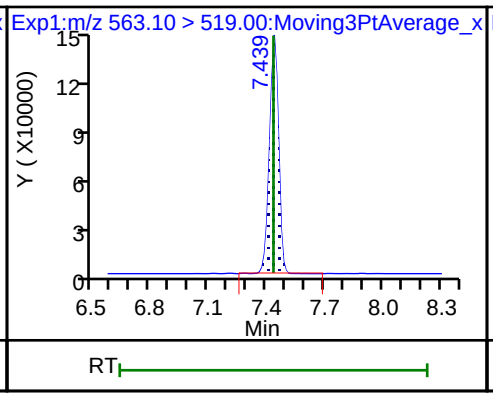
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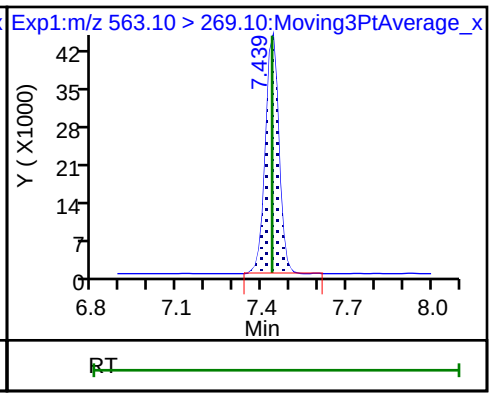
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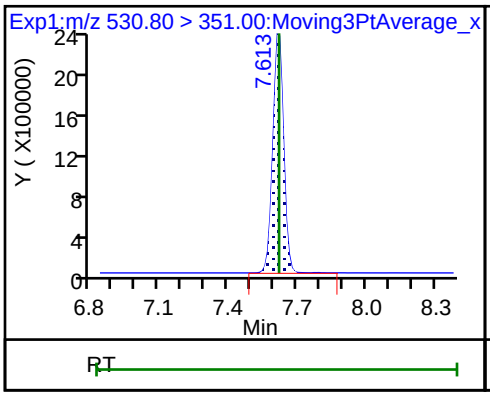
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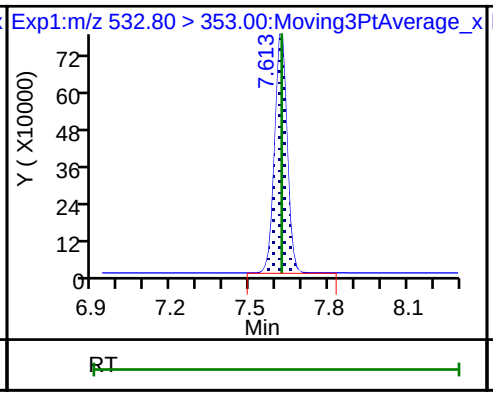
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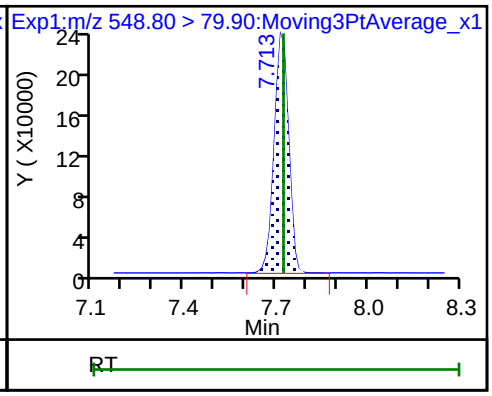
61 9ClFOS



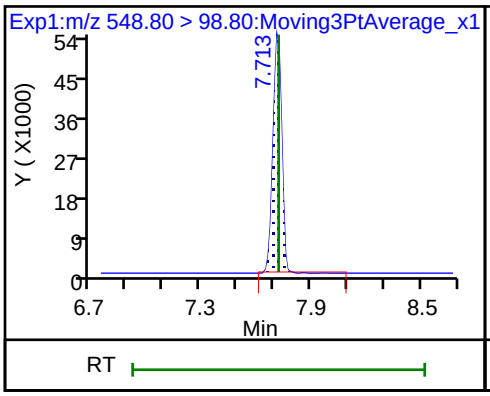
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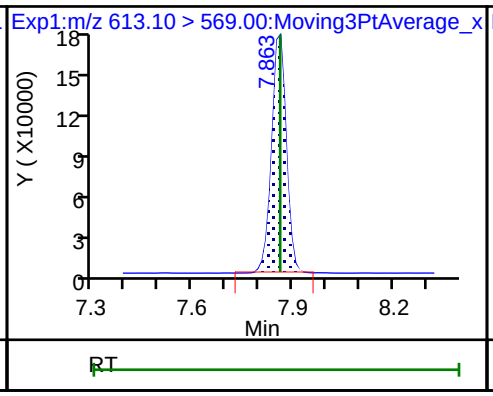
62 PFNS



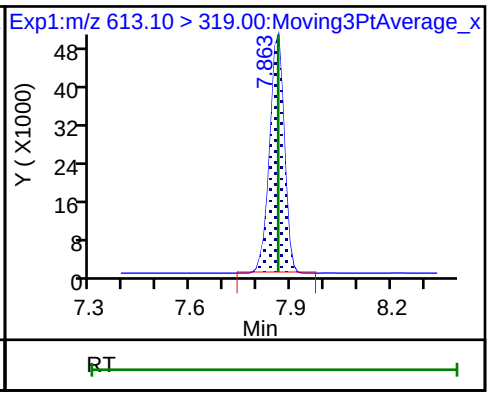
62 PFNS



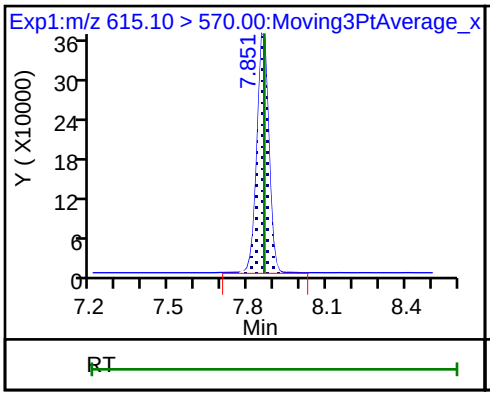
63 PFDoA



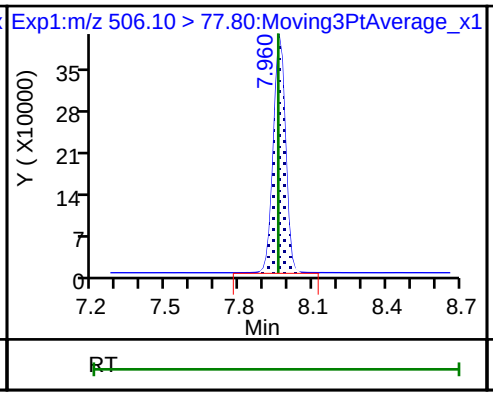
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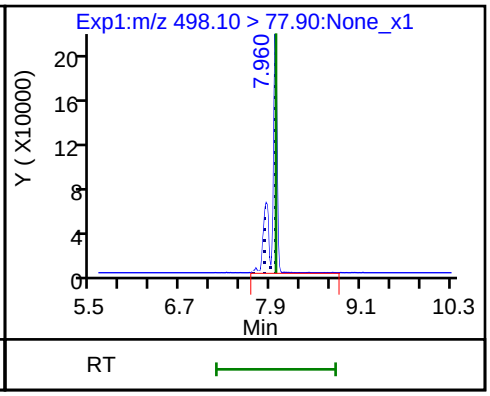
D 64 13C2 PFDoA



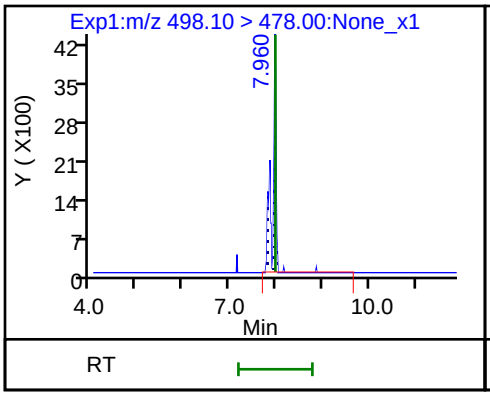
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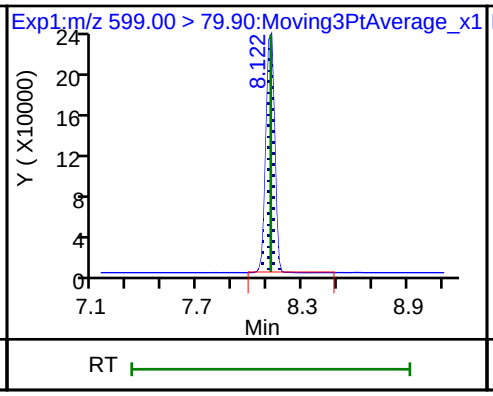
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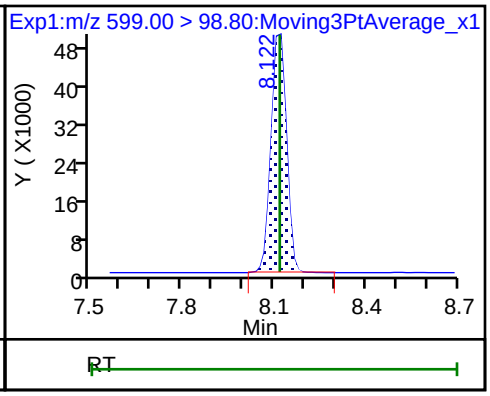
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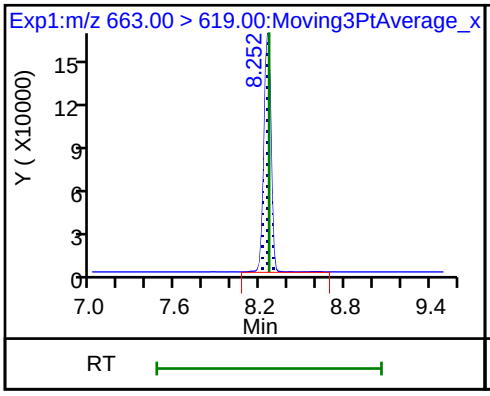
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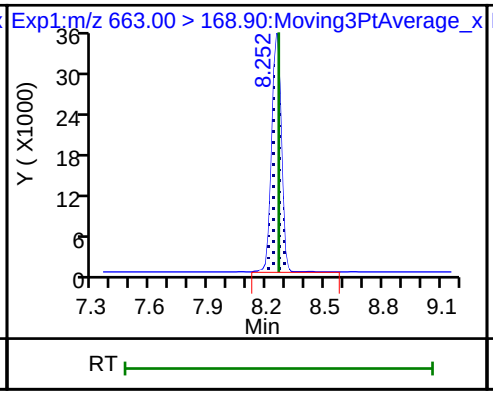
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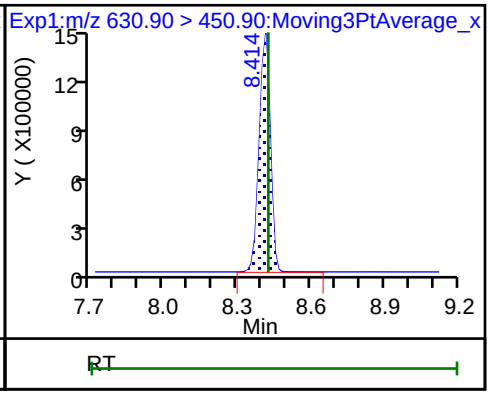
68 PFTrDA



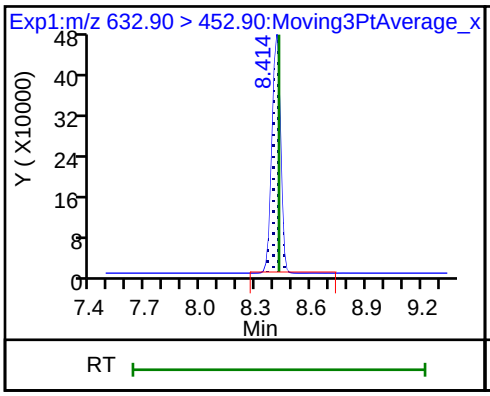
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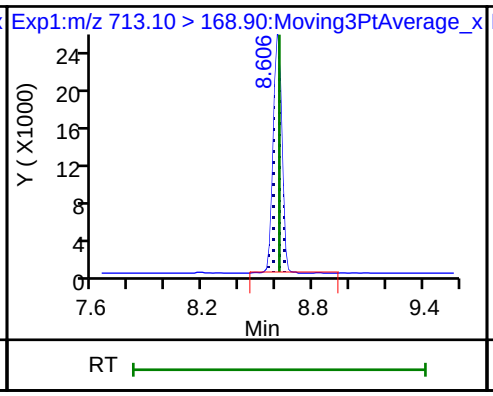
69 11ClFOS



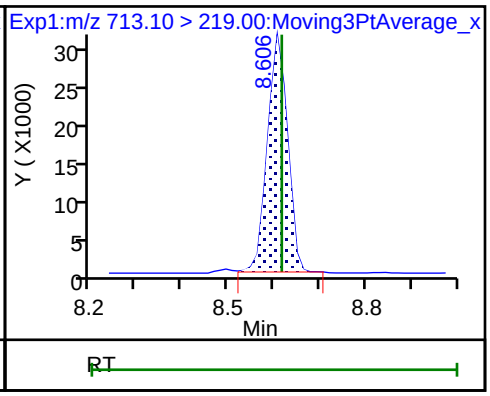
69 11ClFOS



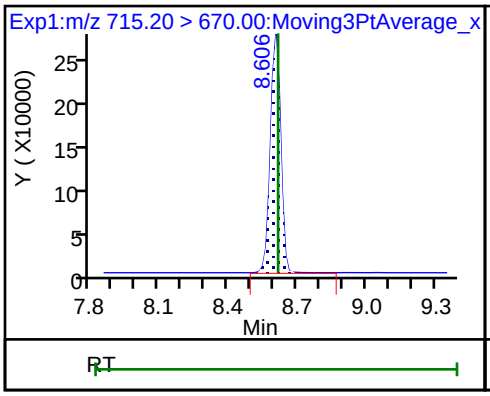
70 PFTeDA



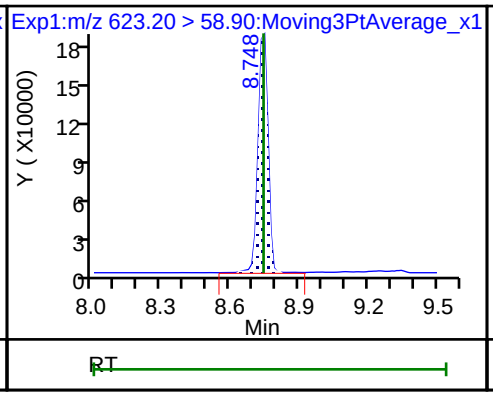
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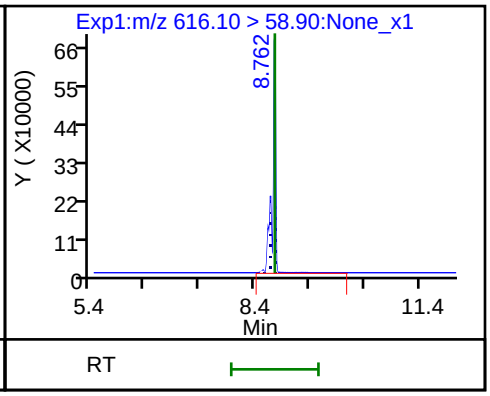
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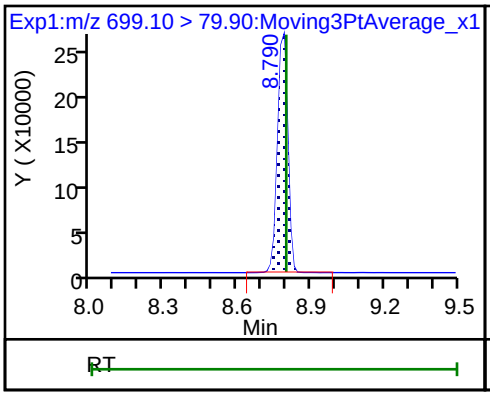
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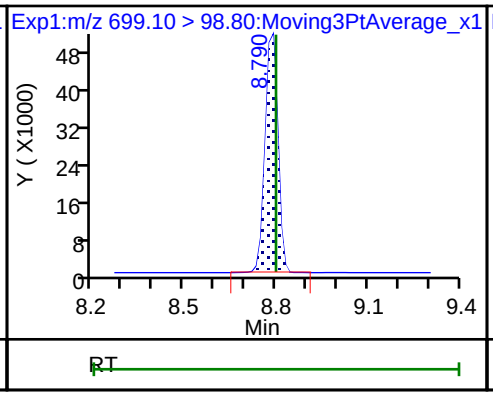
73 N-MeFOSE-M



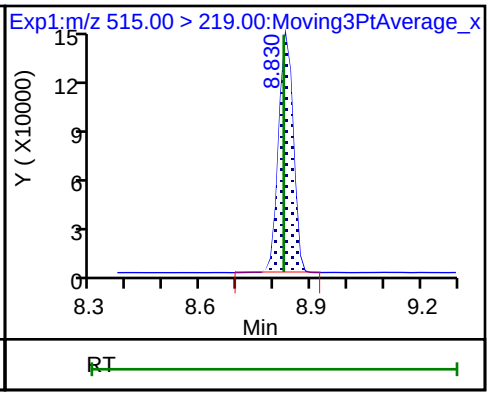
74 PFDoS



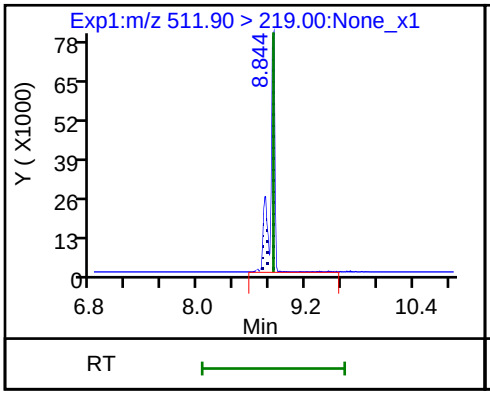
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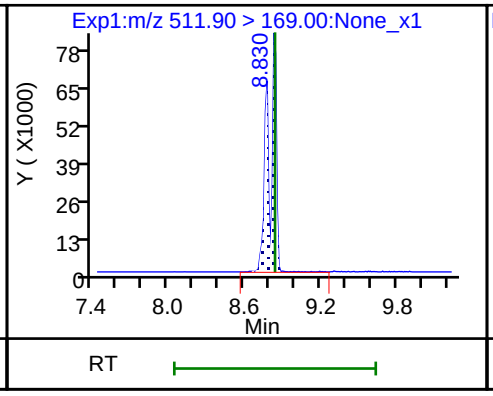
D 75 d3-NMePFOSA



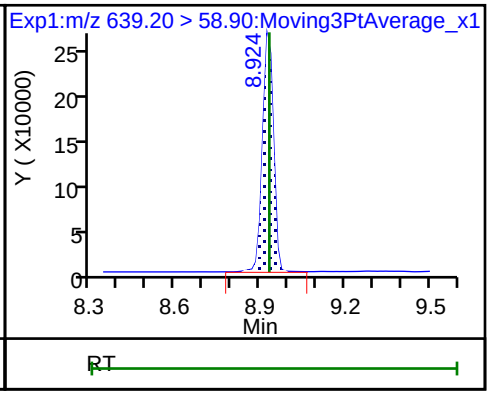
76 NMeFOSA



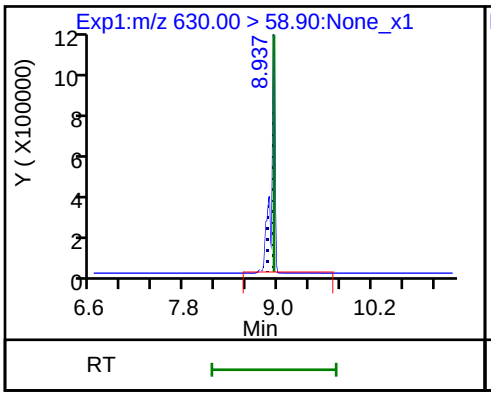
76 NMeFOSA



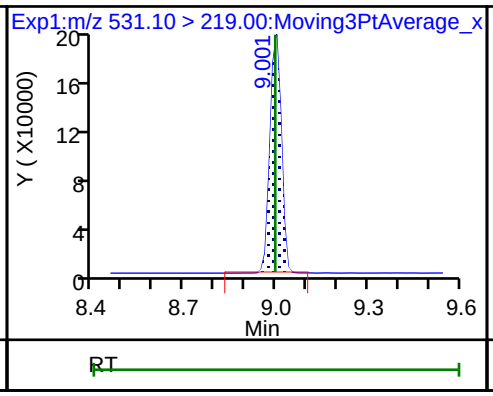
D 77 d9-N-EtFOSE



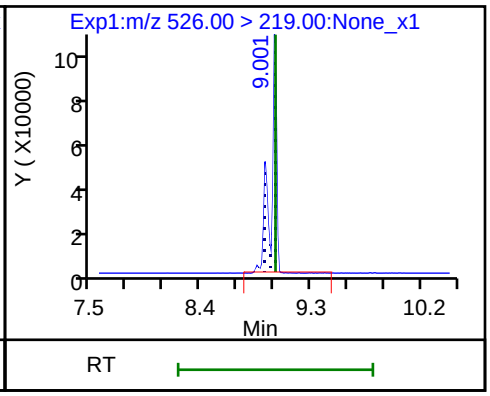
78 N-EtFOSE-M



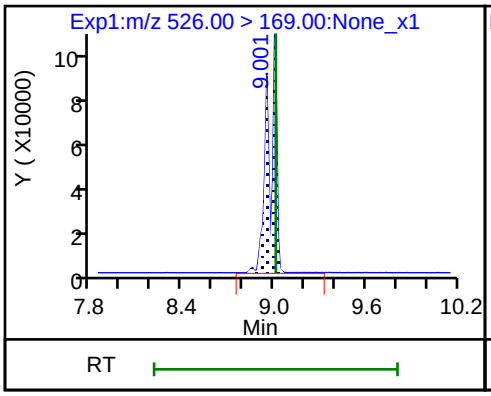
D 79 d5-NEtPFOSA



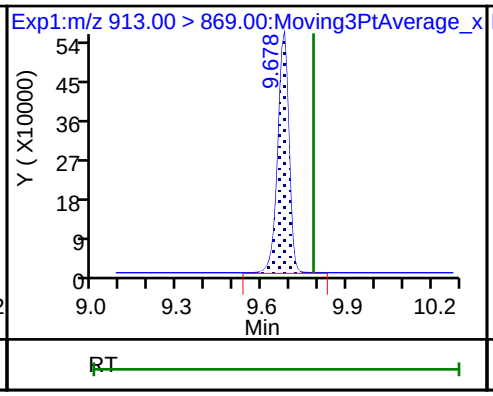
80 N-EtFOSA-M



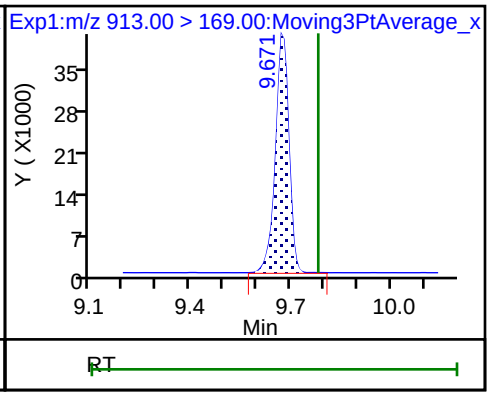
80 N-EtFOSA-M



81 Perfluorooctadecanoic acid



81 Perfluorooctadecanoic acid



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCVO 410-763219/1 Calibration Date: 02/02/2026 09:55

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26Feb02c-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9142	1.174		0.321	0.250	28.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9144	0.9520		0.104	0.100	4.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0907	0.0845		0.0932	0.100	-7.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.669	1.610		0.0482	0.0500	-4.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.858	1.993		0.0536	0.0500	7.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	2.124	2.156		0.0508	0.0500	2.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.664	2.038		0.115	0.0938	22.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.3510	0.3216		0.0458	0.0500	-8.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8632	0.9237		0.0535	0.0500	7.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1115	0.1049		0.235	0.250	-6.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	1.054	0.9739		0.0462	0.0500	-8.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.053	0.9511		0.0401	0.0444	-10.0	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	0.996	1.205		0.0454	0.0375	21.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.632	2.232		0.0378	0.0446	-15.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.8410	0.9001		0.0535	0.0500	7.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	2.382	2.470		0.0490	0.0473	4.0	30.0
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	AveID	1.657	1.674		0.0962	0.0952	1.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.113	1.096		0.0463	0.0470	-1.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.599	2.710		0.0510	0.0490	4.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.6364	0.7317		0.0575	0.0500	15.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.0574	0.0526		0.229	0.250	-8.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	0.8632	0.9668		0.0511	0.0456	12.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.9670	1.094		0.0566	0.0500	13.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.334	1.301		0.0936	0.0960	-2.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.3009	0.2990		0.0459	0.0462	-1.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.265	1.404		0.0530	0.0477	11.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.386	1.349		0.0487	0.0500	-3.0	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	1.157	1.008		0.0435	0.0500	-13.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCVO 410-763219/1 Calibration Date: 02/02/2026 09:55

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26Feb02c-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.6423	0.7444		0.0579	0.0500	16.0	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7976	1.024		0.0642	0.0500	28.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.415	1.561		0.0513	0.0465	10.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.4646	0.4515		0.0486	0.0500	-3.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.776	2.779		0.0467	0.0467	0.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.088	1.178		0.0521	0.0481	8.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.6975	0.7335		0.0526	0.0500	5.0	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.046	1.021		0.0488	0.0500	-2.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.153	1.212		0.0507	0.0482	5.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	0.9006	1.009		0.0560	0.0500	12.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	1.524	1.453		0.0450	0.0472	-5.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1487	0.1423		0.0478	0.0500	-4.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.064	0.9293		0.0424	0.0485	-13.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	1.913	2.129		0.278	0.250	11.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	0.995	1.090		0.0547	0.0500	9.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	2.110	2.220		0.263	0.250	5.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9808	0.9840		0.0502	0.0500	0.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6043	2.280		0.189	0.0500	277.0*	30.0
13C3-PFPrA	Ave	0.8660	0.8270		1.91	2.00	-5.0	30.0
13C4 PFBA	Ave	1.045	1.019		1.95	2.00	-3.0	30.0
13C5 PFPeA	Ave	0.5814	0.5610		1.93	2.00	-4.0	30.0
13C2 4:2 FTS	Ave	0.1525	0.1627		5.00	4.69	7.0	30.0
13C5 PFHxA	Ave	1.143	1.135		1.99	2.00	-1.0	30.0
13C3 PFBS	Ave	1.125	1.134		1.88	1.86	1.0	30.0
13C3 HFPO-DA	Ave	0.9887	0.9416		1.91	2.00	-5.0	30.0
13C4 PFHpA	Ave	1.127	1.145		2.03	2.00	2.0	30.0
13C2 6:2 FTS	Ave	0.1256	0.1435		5.44	4.76	14.0	30.0
13C8 PFOA	Ave	1.000	0.9647		1.93	2.00	-4.0	30.0
13C3 PFHxS	Ave	1.027	1.023		1.89	1.90	0.0	30.0
13C9 PFNA	Ave	0.9366	0.9098		1.94	2.00	-3.0	30.0
13C2 8:2 FTS	Ave	0.1198	0.1345		5.39	4.80	12.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCVO 410-763219/1 Calibration Date: 02/02/2026 09:55

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26Feb02c-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d3-NMeFOSAA	Ave	0.2975	0.3027		5.09	5.00	2.0	30.0
13C6 PFDA	Ave	1.011	1.015		2.01	2.00	0.0	30.0
d5-NEtFOSAA	Ave	0.2572	0.2594		5.04	5.00	1.0	30.0
13C8 PFOS	Ave	1.015	0.9926		1.87	1.92	-2.0	30.0
13C7 PFUnA	Ave	1.008	1.088		2.16	2.00	8.0	30.0
13C2 PFDoA	Ave	0.7103	0.7552		2.13	2.00	6.0	30.0
13C8 FOSA	Ave	1.138	1.029		1.81	2.00	-10.0	30.0
13C2 PFTeDA	Ave	0.5894	0.5834		1.98	2.00	-1.0	30.0
d7-N-MeFOSE-M	Ave	0.1795	0.1593		4.44	5.00	-11.0	30.0
d3-NMePFOSA	Ave	0.3214	0.2767		1.72	2.00	-14.0	30.0
d9-N-EtFOSE-M	Ave	0.2384	0.2030		4.26	5.00	-15.0	30.0
d5-NEtPFOSA	Ave	0.3912	0.3282		1.68	2.00	-16.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02c-01.d
Lims ID: CCVO 1_CAL1
Client ID:
Sample Type: CCVO
Inject. Date: 02-Feb-2026 09:55:07 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CAL 1
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub14

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 13:23:30 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1613

First Level Reviewer: M4QQ Date: 02-Feb-2026 11:26:07
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.992	1.992	0.0	0.478	1222414	1.91		95.5	594	
2 Perfluoropropionic acid										
163.00 > 119.00	2.001	2.001	0.0	1.004	179376	0.3210		128	313	
5 PFBA										
212.80 > 168.90	4.161	4.161	0.0	1.000	71718	0.1041		104	577	
D 3 13C4-PFBA										
216.80 > 171.90	4.161	4.161	0.0	0.998	1506661	1.95		97.5	5732	
* 4 13C3PFBA										
216.00 > 172.00	4.169	4.169	0.0		1478208	2.00			1183	
6 PFMPA										
229.00 > 84.90	4.496	4.496	0.0	0.932	37976	0.0482		96.5	401	
7 3:3 FTCA										
241.00 > 177.00	4.496	4.496	0.0	0.932	3985	0.0932	Target=1.24	93.2	146	
241.00 > 117.00	4.506	4.496	0.010	0.934	3714		1.07(0.62-1.86)		28.1	
D 8 13C5 PFPeA										
268.30 > 223.00	4.822	4.822	0.0	0.913	943265	1.93		96.5	4379	
9 PFPA										
263.00 > 219.00	4.822	4.822	0.0	1.000	47000	0.0536		107	78.3	
10 PFMBA										
279.00 > 85.10	4.978	4.978	0.0	1.032	50849	0.0508		102	469	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.099	5.099	0.0	0.804	625469	5.00		107	3156	
12 4:2FTS										
327.10 > 307.00	5.099	5.099	0.0	1.000	25493	0.1149	Target=1.50	122	355	
327.10 > 80.90	5.099	5.099	0.0	1.000	13946		1.83(0.75-2.24)		33.5	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.242	5.242	0.0	0.992	15342	0.0458	Target=1.53	91.6	132	
295.00 > 84.90	5.242	5.242	0.0	0.992	13475		1.14(0.76-2.29)		73.7	
17 PFHxA										
313.00 > 269.00	5.282	5.282	0.0	1.000	44063	0.0535	Target=12.38	107	84.6	
313.00 > 118.90	5.282	5.282	0.0	1.000	3799		11.60(6.19-18.57)		17.3	
D 15 13C5 PFHxA										
318.00 > 273.00	5.282	5.282	0.0	1.000	1908164	1.99		99.3	4885	
* 16 13C2 PFHxA										
315.10 > 270.00	5.282	5.282	0.0		4203630	5.00			11173	
20 5:3 FTCA										
341.00 > 237.10	5.347	5.347	0.0	1.012	25013	0.2351	Target=0.84	94.0	190	
341.00 > 217.00	5.347	5.347	0.0	1.012	24877		1.01(0.42-1.25)		129	
D 18 13C3 PFBS										
302.10 > 79.90	5.410	5.410	0.0	0.853	1732124	1.88		101	4282	
19 PFBS										
298.70 > 79.90	5.424	5.424	0.0	1.002	39240	0.0401	Target=3.07	90.3	220	
298.70 > 98.80	5.424	5.424	0.0	1.002	13432		2.92(1.54-4.61)		53.6	
25 FBSA										
297.90 > 78.00	5.424	5.424	0.0	1.002	45250	0.0462		92.4	187	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.464	5.464	0.0	1.034	1583282	1.90		95.2	4963	
22 HFPO-DA										
284.90 > 168.90	5.464	5.464	0.0	1.000	35761	0.0454	Target=2.35	121	149	
284.90 > 184.90	5.464	5.464	0.0	1.000	11930		3.00(1.17-3.52)		62.3	
24 PFEESA										
314.80 > 134.90	5.665	5.665	0.0	1.072	94977	0.0378	Target=11.61	84.8	465	
314.80 > 82.90	5.665	5.665	0.0	1.072	10563		8.99(5.81-17.42)		38.7	
28 PFHpA										
363.10 > 319.00	5.707	5.707	0.0	1.000	43311	0.0535	Target=2.31	107	96.9	
363.10 > 169.00	5.707	5.707	0.0	1.000	18116		2.39(1.16-3.47)		106	
D 26 13C4 PFHpA										
367.10 > 322.00	5.707	5.707	0.0	1.080	1924742	2.03		102	3045	
30 ADONA										
376.90 > 250.90	5.857	5.857	0.0	1.072	92472	0.0490	Target=1.93	104	755	
376.90 > 84.80	5.857	5.857	0.0	1.072	44392		2.08(0.97-2.90)		200	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.903	5.903	0.0	0.930	559778	5.44		114	3406	
32 6:2FTS										
427.10 > 407.00	5.903	5.903	0.0	1.000	18744	0.0962	Target=1.49	101	19.0	
427.10 > 80.90	5.903	5.903	0.0	1.000	12792		1.47(0.75-2.24)		17.8	
29 PFPeS										
349.10 > 79.90	5.903	5.903	0.0	0.930	43206	0.0463	Target=3.10	98.5	114	
349.10 > 98.90	5.903	5.903	0.0	0.930	12623		3.42(1.55-4.65)		72.9	
33 BTS										
280.00 > 147.00	6.063	6.063	0.0	0.956	111241	0.0510		104	33077	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										M
413.00 > 369.00	6.104	6.104	0.0	0.998	41573	0.0575	Target=1.86	115	39.0	M
413.00 > 169.00	6.117	6.104	0.013	1.000	20948		1.98(0.93-2.79)		21.1	
* 35 13C4 PFOA										
417.10 > 372.00	6.117	6.117	0.0		5889684	5.00			12259	
D 34 13C8 PFOA										
421.10 > 376.00	6.117	6.117	0.0	1.000	2272726	1.93		96.4	6973	
39 7:3 FTCA										
441.00 > 316.90	6.182	6.182	0.0	1.170	12546	0.2289	Target=0.34	91.6	3726	
441.00 > 336.90	6.182	6.182	0.0	1.170	36874		0.34(0.17-0.51)		125	
40 PFHxS										
398.70 > 79.90	6.345	6.345	0.0	1.000	36967	0.0511	Target=3.30	112	61.8	
398.70 > 98.90	6.345	6.345	0.0	1.000	10765		3.43(1.65-4.96)		27.9	
D 38 13C3 PFHxS										
402.10 > 79.90	6.345	6.345	0.0	1.000	1589775	1.89		99.6	7684	
* 37 18O2 PFHxS										
403.00 > 83.90	6.345	6.345	0.0		1554302	1.90			10353	
* 42 13C5 PFNA										
468.00 > 423.00	6.525	6.525	0.0		2002071	2.00			6666	
D 41 13C9 PFNA										
472.10 > 427.00	6.525	6.525	0.0	1.000	1821410	1.94		97.1	5572	
43 PFNA										
463.00 > 419.00	6.525	6.525	0.0	1.000	49811	0.0566	Target=2.61	113	50.8	
463.00 > 219.00	6.525	6.525	0.0	1.000	12977		3.84(1.31-3.92)		16.7	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.707	6.707	0.0	1.057	529215	5.39		112	1676	
46 8:2FTS										
527.10 > 507.00	6.707	6.707	0.0	1.000	13770	0.0936	Target=1.36	97.5	4112	
527.10 > 80.80	6.707	6.707	0.0	1.000	9463		1.46(0.68-2.04)		39.5	
44 PFECHS										
461.00 > 381.00	6.742	6.742	0.0	1.063	11582	0.0459	Target=0.26	99.4	41.1	
461.00 > 99.00	6.754	6.742	0.012	1.065	40546		0.29(0.13-0.39)		154	
47 PFHpS										
449.00 > 79.90	6.779	6.779	0.0	0.940	46503	0.0530	Target=4.06	111	273	
449.00 > 98.80	6.792	6.779	0.013	0.942	11393		4.08(2.03-6.09)		38.0	
48 FHxSA										
397.90 > 78.00	6.841	6.841	0.0	1.078	56536	0.0487		97.3	289	
50 NMeFOSAA										M
570.10 > 419.00	6.877	6.877	0.0	1.000	10666	0.0435	Target=1.95	87.1	25.4	M
570.10 > 483.00	6.877	6.877	0.0	1.000	4382		2.43(0.98-2.93)			M
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.877	6.877	0.0	0.954	1058485	5.09		102	3193	
D 51 13C6 PFDA										
519.10 > 474.10	6.938	6.938	0.0	1.000	1781093	2.01		100	5933	
53 PFDA										
512.90 > 469.00	6.938	6.938	0.0	1.000	33148	0.0579	Target=3.17	116	72.4	
512.90 > 219.00	6.938	6.938	0.0	1.000	7602		4.36(1.58-4.75)		18.3	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 52 13C2 PFDA										
515.10 > 470.10	6.938	6.938	0.0		1755078	2.00			9350	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.057	7.057	0.0	0.979	907197	5.04		101	4489	
55 NEtFOSAA										M
584.20 > 419.10	7.057	7.057	0.0	1.000	9288	0.0642	Target=1.64	128	18.8	M
584.20 > 526.00	7.069	7.057	0.012	1.002	5580		1.66(0.82-2.47)		10.2	
D 56 13C8 PFOS										
507.10 > 79.90	7.208	7.208	0.0	1.000	1330291	1.87		97.8	2890	
* 57 13C4 PFOS										
502.80 > 79.90	7.208	7.208	0.0		1340198	1.92			6296	
58 PFOS										
498.90 > 79.90	7.221	7.221	0.0	1.002	50384	0.0513	Target=4.98	110	55.4	
498.90 > 98.80	7.221	7.221	0.0	1.002	9911		5.08(2.49-7.47)		11.0	
60 PFUnA										
563.10 > 519.00	7.353	7.353	0.0	1.000	21551	0.0486	Target=2.89	97.2	127	
563.10 > 269.10	7.353	7.353	0.0	1.000	7166		3.01(1.45-4.34)		27.6	
D 59 13C7 PFUnA										
570.00 > 525.10	7.353	7.353	0.0	1.060	1909190	2.16		108	3581	
61 9ClFOS										
530.80 > 351.00	7.540	7.540	0.0	1.046	90098	0.0467	Target=3.11	100	889	
532.80 > 353.00	7.540	7.540	0.0	1.046	27894		3.23(1.55-4.66)		149	
62 PFNS										
548.80 > 79.90	7.637	7.637	0.0	1.059	39354	0.0521	Target=4.37	108	228	
548.80 > 98.80	7.637	7.637	0.0	1.059	9806		4.01(2.19-6.56)		3566	
63 PFDoA										
613.10 > 569.00	7.777	7.777	0.0	1.000	24305	0.0526	Target=3.23	105	146	
613.10 > 319.00	7.777	7.777	0.0	1.000	5856		4.15(1.61-4.84)		54.7	
D 82 PFDoA										
615.10 > 570.00	7.777	7.777	0.0	1.121	1325387	2.13		106	2885	
65 PFOSA										M
498.10 > 77.90	7.951	7.951	0.0	0.998	36755	0.0488	Target=44.84	97.7	68.7	M
498.10 > 478.00	7.951	7.951	0.0	0.998	756		48.62(22.42-67.27)		3.0	M
D 64 13C8 FOSA										
506.10 > 77.80	7.965	7.965	0.0	1.105	1439638	1.81		90.4	6120	
66 PFDS										
599.00 > 79.90	8.032	8.032	0.0	1.114	40576	0.0507	Target=4.49	105	194	
599.00 > 98.80	8.032	8.032	0.0	1.114	6999		5.80(2.24-6.73)		80.0	
67 PFTrDA										
663.00 > 619.00	8.169	8.169	0.0	0.960	29645	0.0560	Target=4.04	112	156	
663.00 > 168.90	8.169	8.169	0.0	0.960	6374		4.65(2.02-6.05)		35.8	
68 11ClFOS										
630.90 > 450.90	8.329	8.329	0.0	1.156	47633	0.0450	Target=2.75	95.4	279	
632.90 > 452.90	8.329	8.329	0.0	1.156	15831		3.01(1.37-4.12)		183	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.510	8.510	0.0	1.227	1023988	1.98		99.0	4493	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
70 PFTeDA										
713.10 > 168.90	8.510	8.510	0.0	1.000	3644	0.0478	Target=0.87	95.7	52.3	
713.10 > 219.00	8.523	8.510	0.013	1.002	5059		0.72(0.44-1.31)		46.6	
73 PFDoS										
699.10 > 79.90	8.695	8.695	0.0	1.206	31294	0.0424	Target=4.76	87.3	262	
699.10 > 98.80	8.695	8.695	0.0	1.206	7419		4.22(2.38-7.13)		129	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.738	8.738	0.0	1.212	556980	4.44		88.7	370	
72 N-MeFOSE-M										
616.10 > 58.90	8.752	8.752	0.0	1.002	59287	0.2783		111	365	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.834	8.834	0.0	1.226	387127	1.72		86.1	2527	
75 NMeFOSA										
511.90 > 219.00	8.834	8.834	0.0	1.000	10545	0.0547	Target=0.73	109	56.5	
511.90 > 169.00	8.834	8.834	0.0	1.000	12921		0.82(0.37-1.10)		44.7	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.926	8.926	0.0	1.238	709962	4.26		85.2	740	
77 N-EtFOSE-M										
630.00 > 58.90	8.939	8.939	0.0	1.001	78807	0.2631		105	368	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.991	8.991	0.0	1.247	459072	1.68		83.9	2655	
79 N-EtFOSA-M										
526.00 > 219.00	9.004	9.004	0.0	1.001	11293	0.0502	Target=0.85	100	97.1	
526.00 > 169.00	9.004	9.004	0.0	1.001	14803		0.76(0.43-1.28)		83.9	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.319	9.319	0.0	1.095	58356	0.1886	Target=10.32	377	1826	
913.00 > 169.00	9.319	9.319	0.0	1.095	4266		13.68(5.16-15.48)		197	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_CAL1_00080 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 13:23:34 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02c-01.d

Injection Date: 02-Feb-2026 09:55:07 Instrument ID: 30576

Lims ID: CCVO 1_CAL1

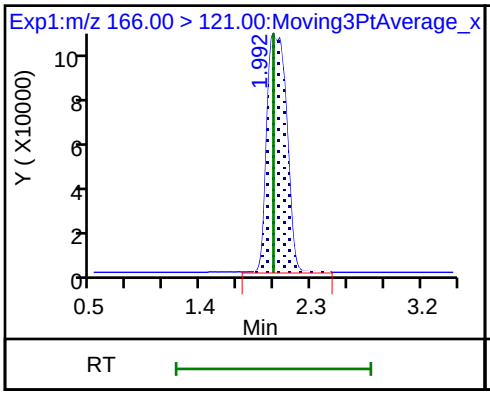
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Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 2 Worklist Smp#: 1

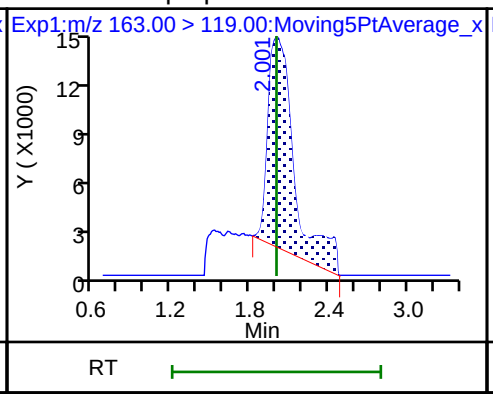
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

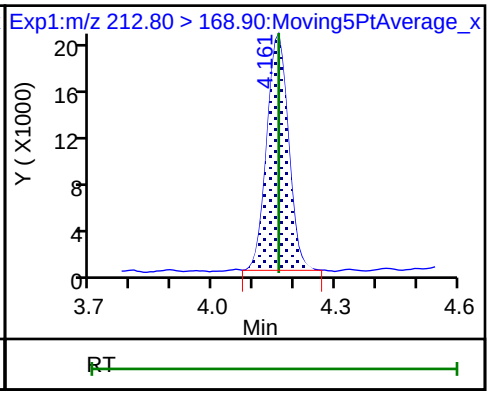
D 1 13C3PFPrA



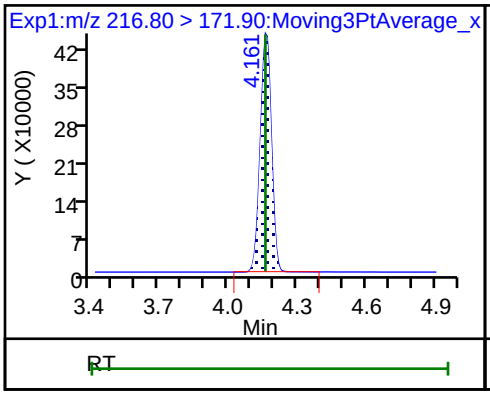
2 Perfluoropropionic acid



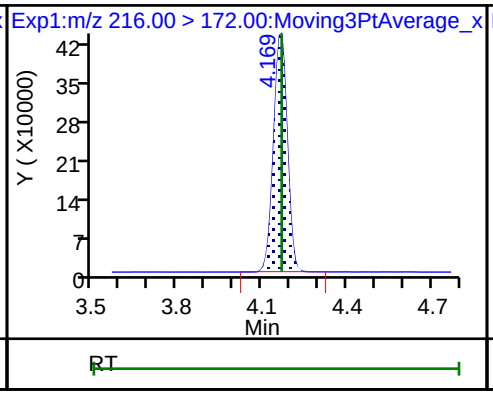
5 PFBA



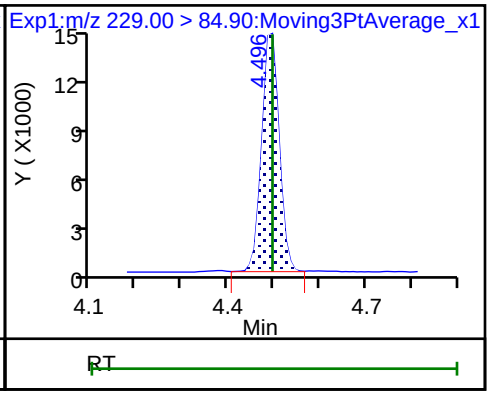
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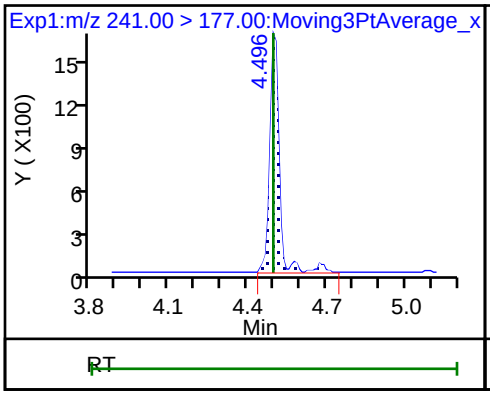
* 4 13C3PFBA



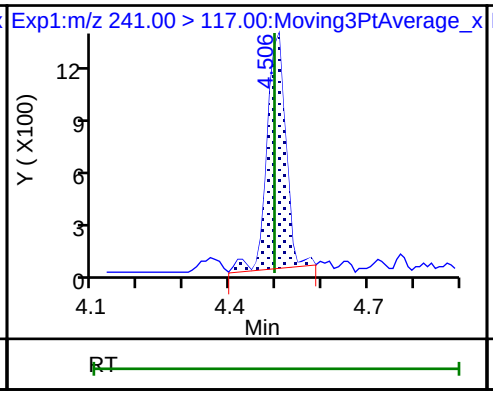
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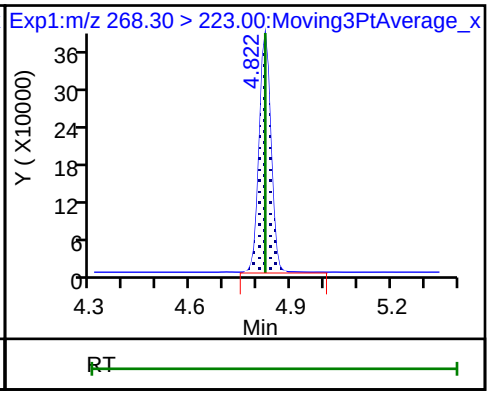
7 3:3 FTCA



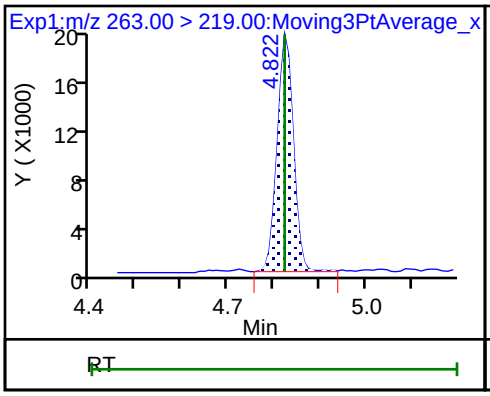
7 3:3 FTCA



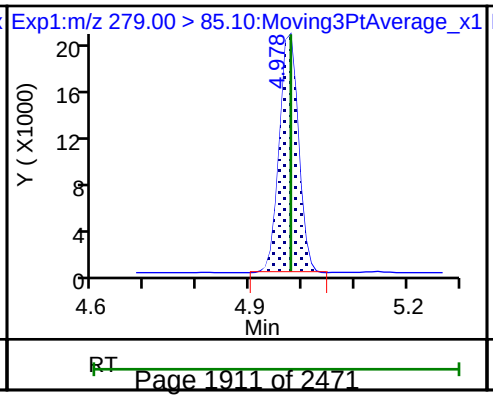
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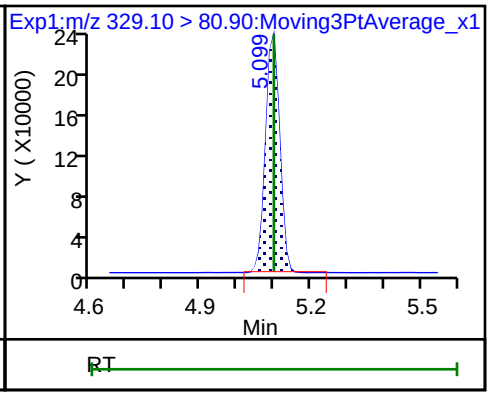
9 PFPA



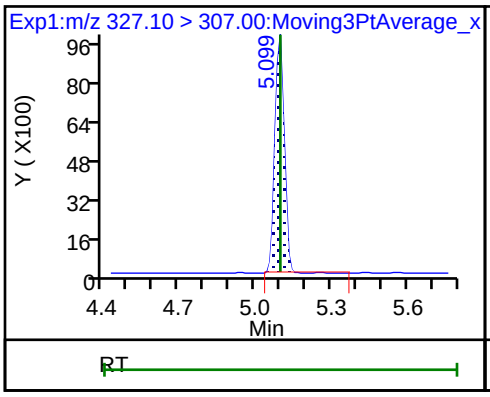
10 PFMBA



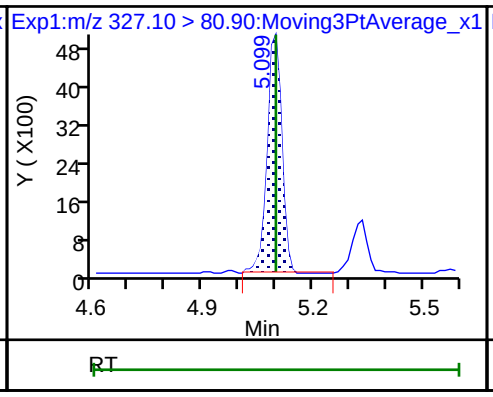
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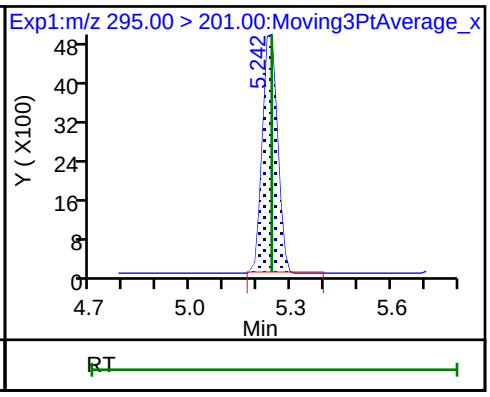
12 4:2FTS



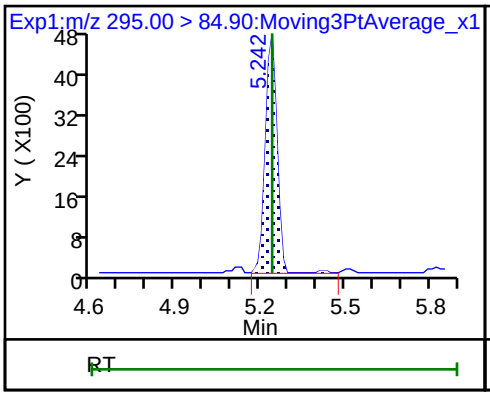
12 4:2FTS



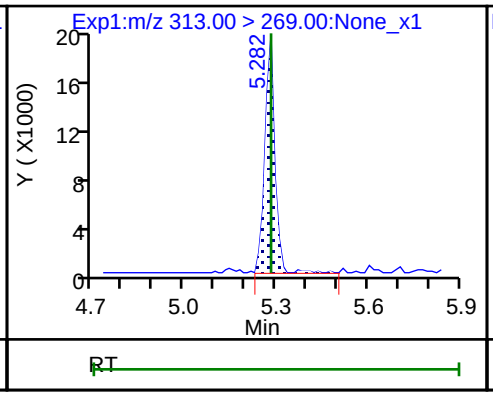
14 NFDHA



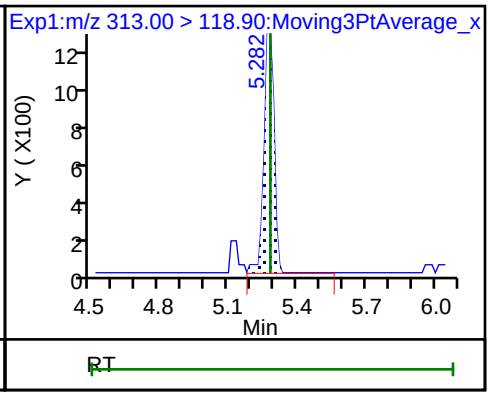
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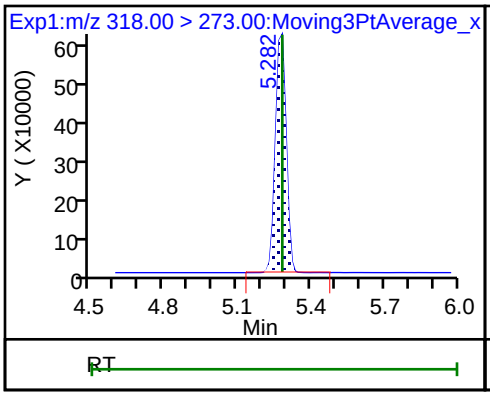
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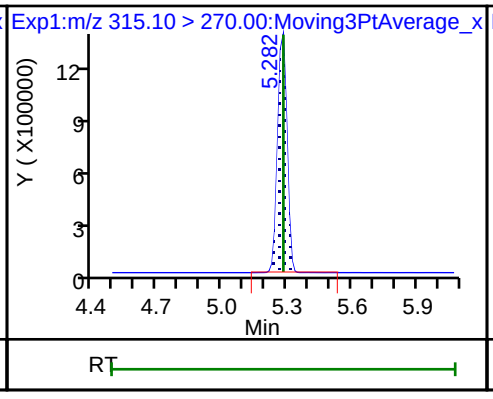
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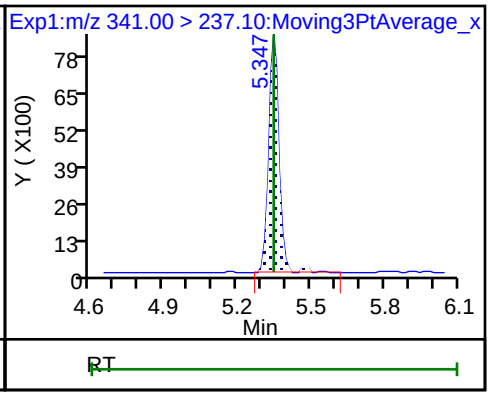
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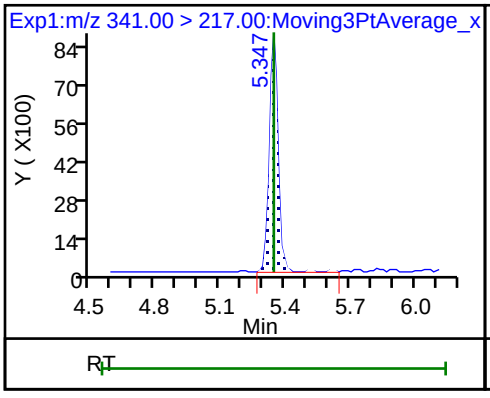
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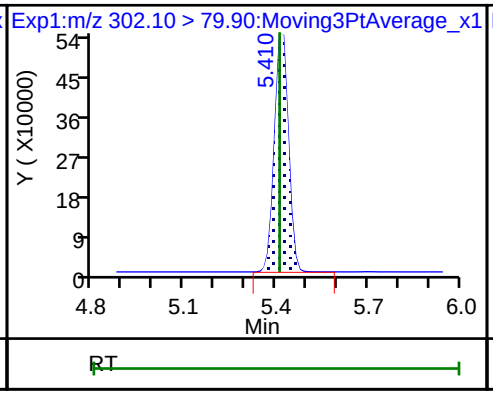
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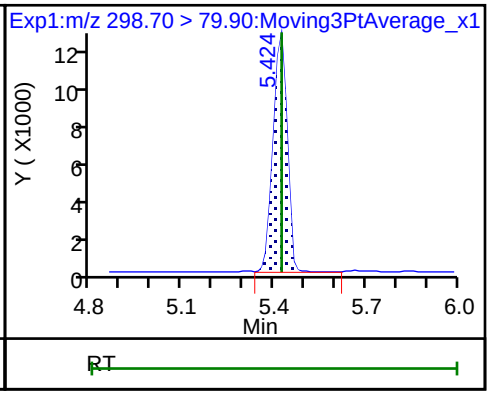
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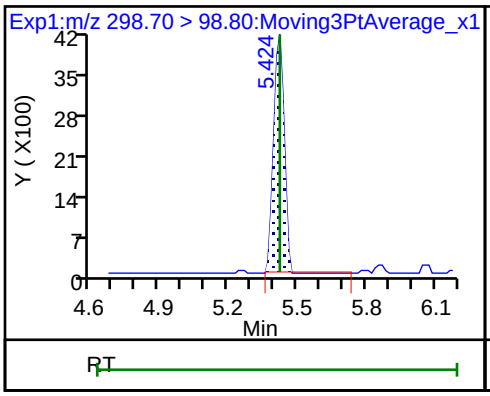
D 18 13C3 PFBS



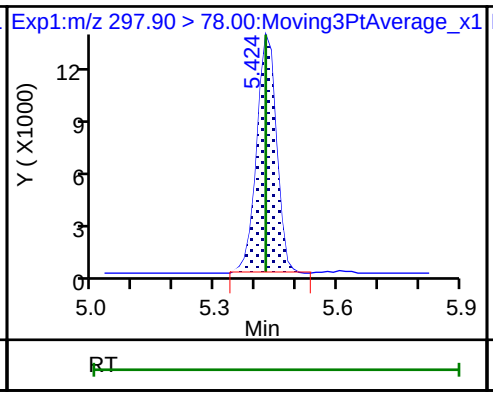
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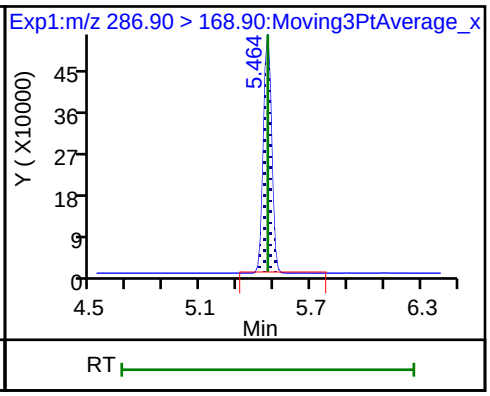
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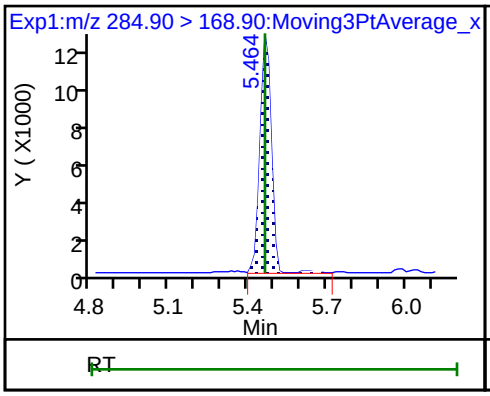
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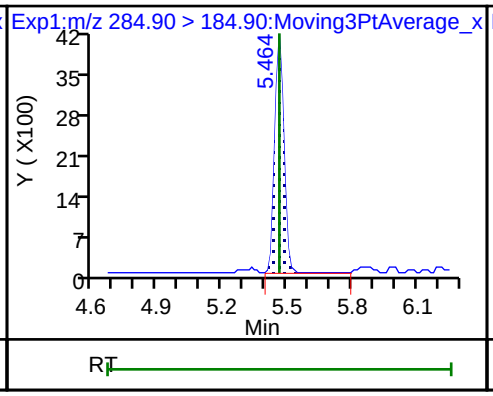
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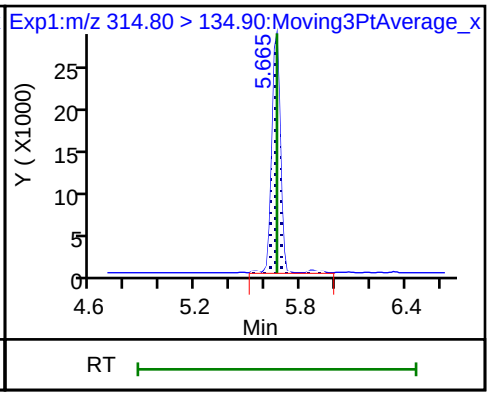
22 HFPO-DA



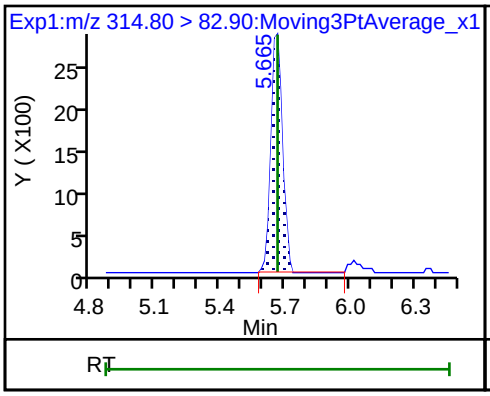
22 HFPO-DA



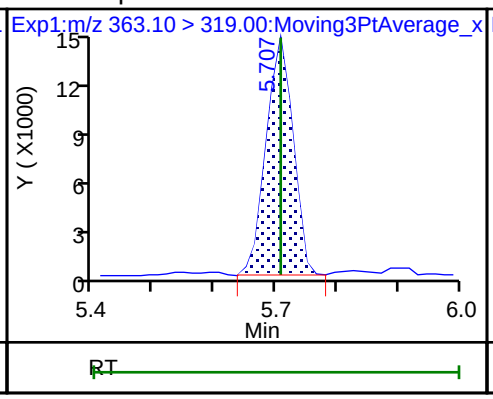
24 PFEESA



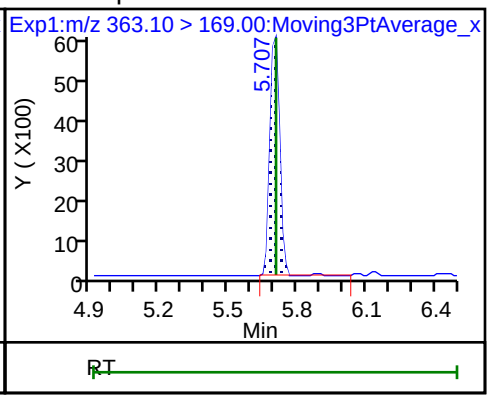
24 PFEESA



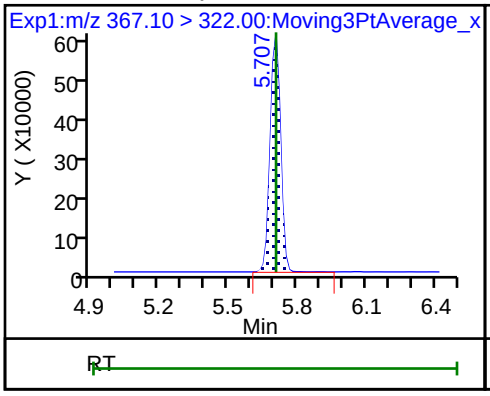
28 PFHpA



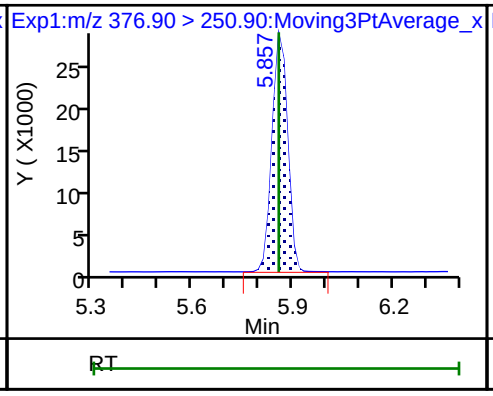
28 PFHpA



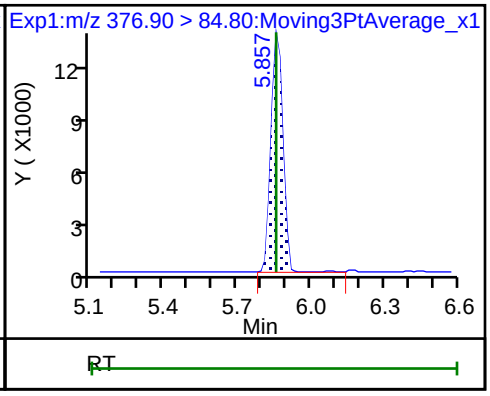
D 26 13C4 PFHpA



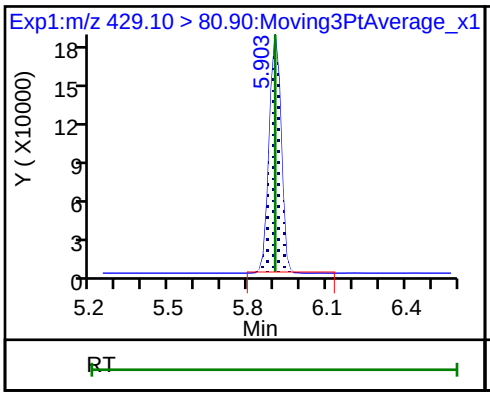
30 ADONA



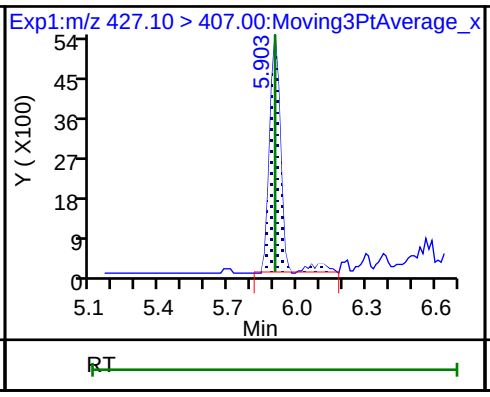
30 ADONA



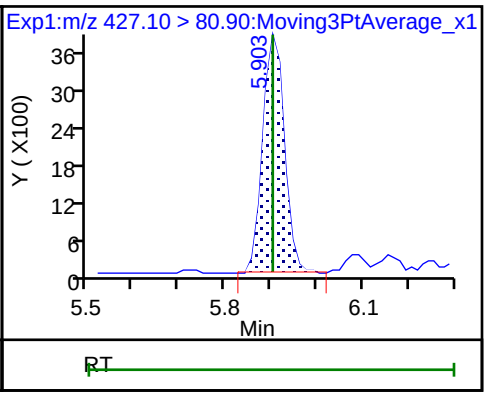
D 31 13C2-6:2FTS



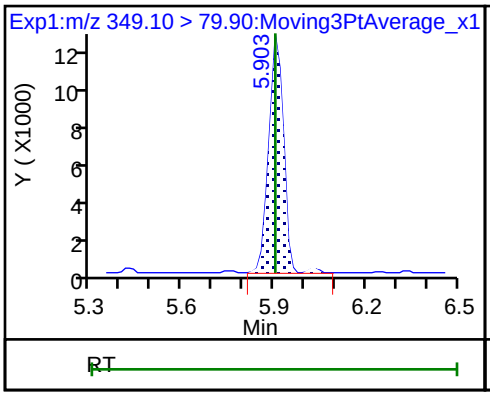
32 6:2FTS



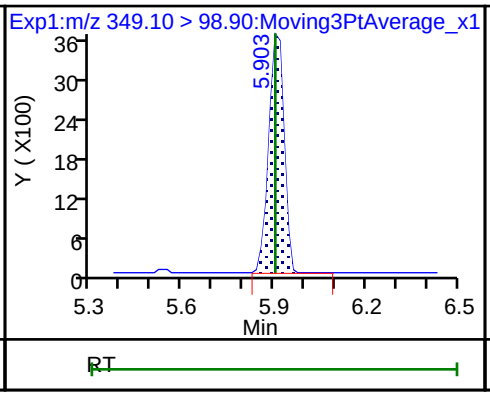
32 6:2FTS



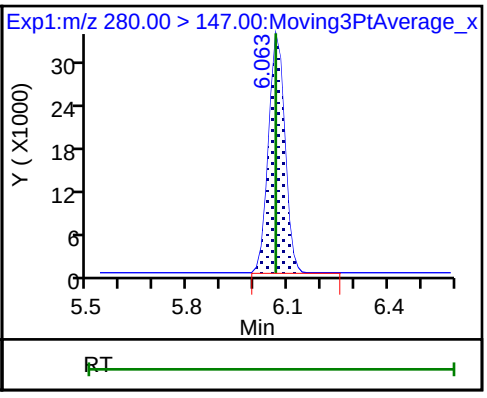
29 PFPeS



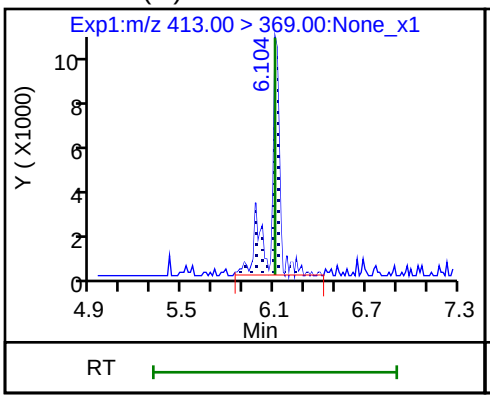
29 PFPeS



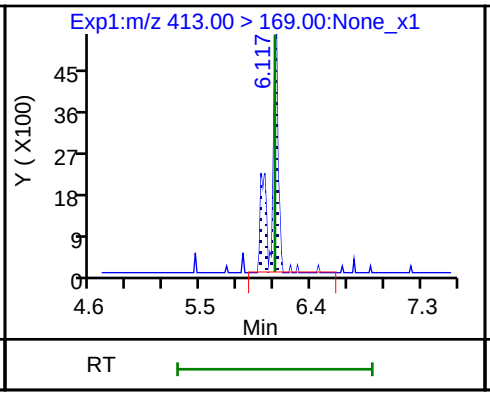
33 BTS



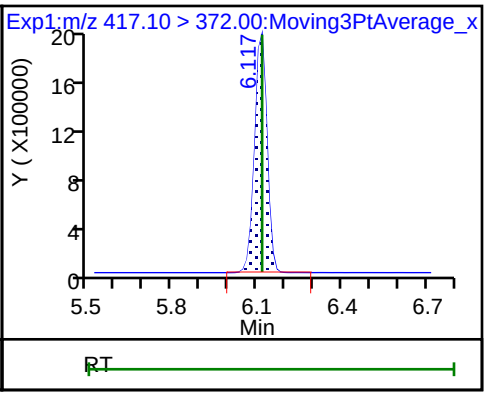
36 PFOA (M)



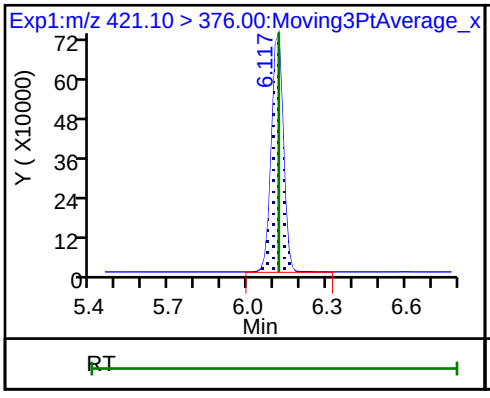
36 PFOA



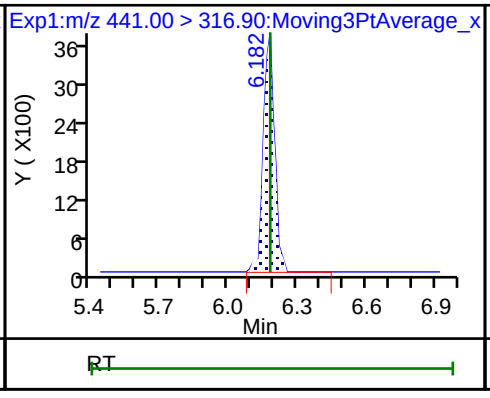
* 35 13C4 PFOA



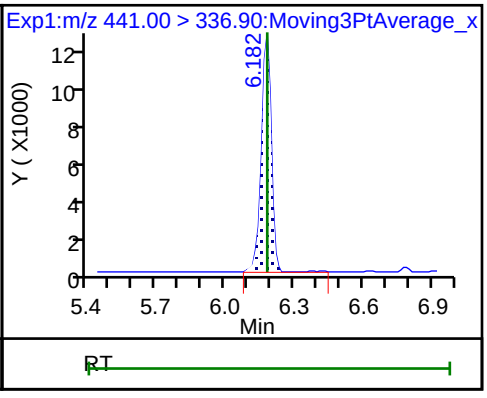
D 34 13C8 PFOA



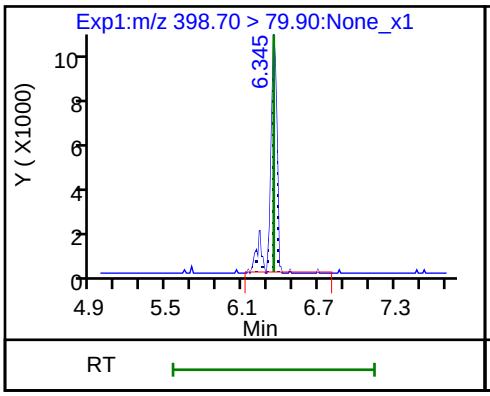
39 7:3 FTCA



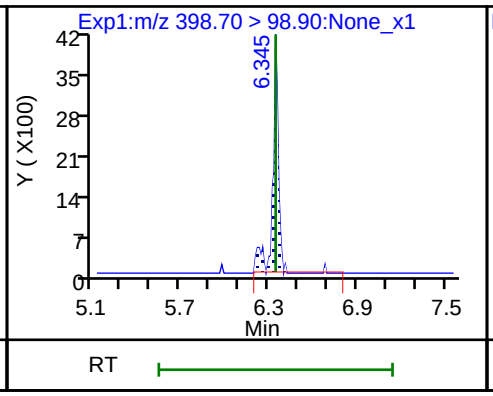
39 7:3 FTCA



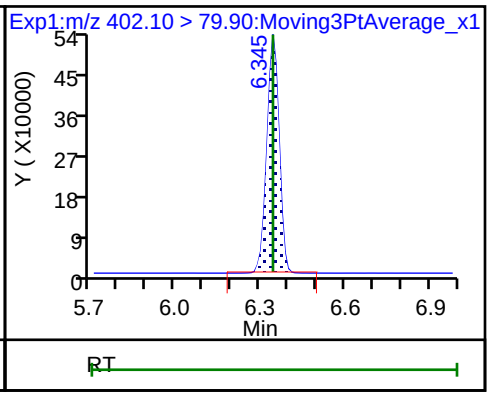
40 PFHxS



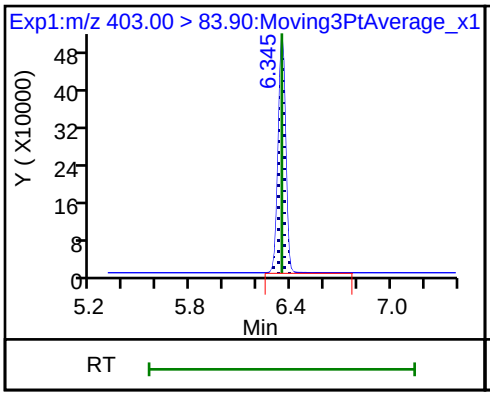
40 PFHxS



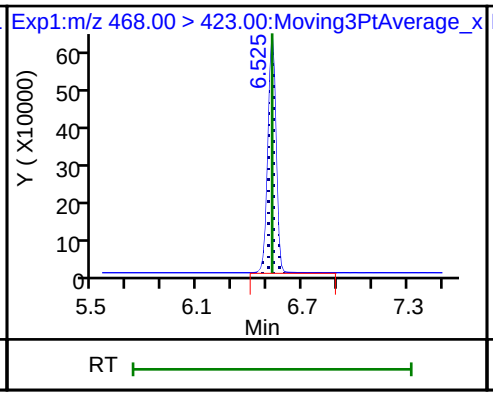
D 38 13C3 PFHxS



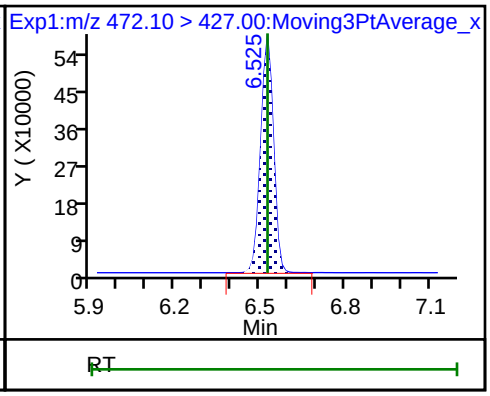
* 37 18O2 PFHxS



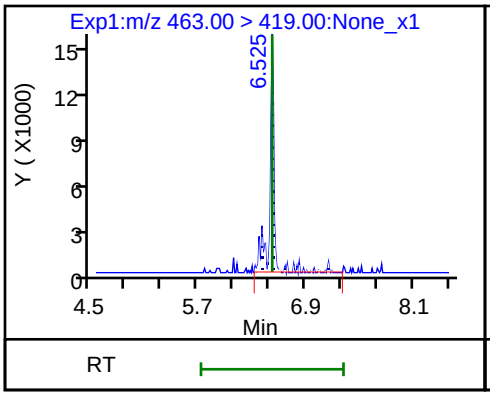
* 42 13C5 PFNA



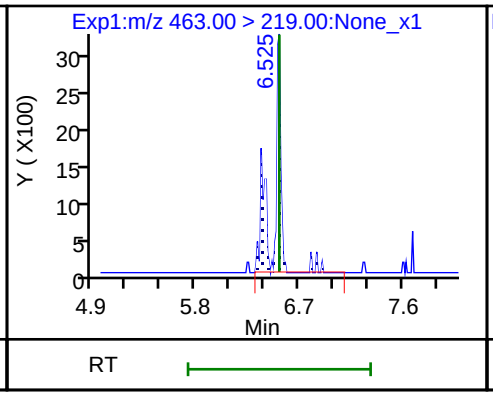
D 41 13C9 PFNA



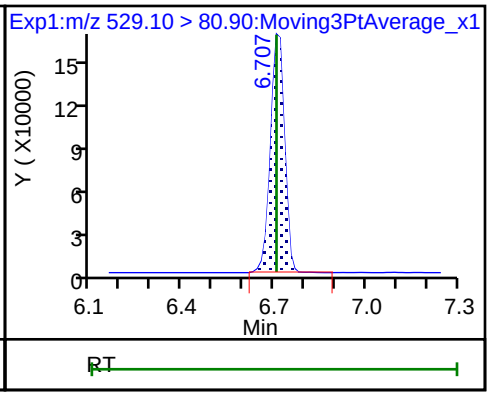
43 PFNA



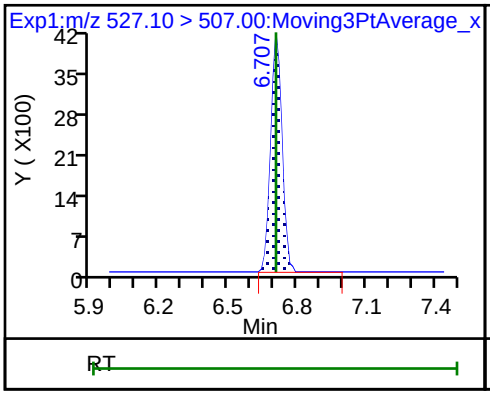
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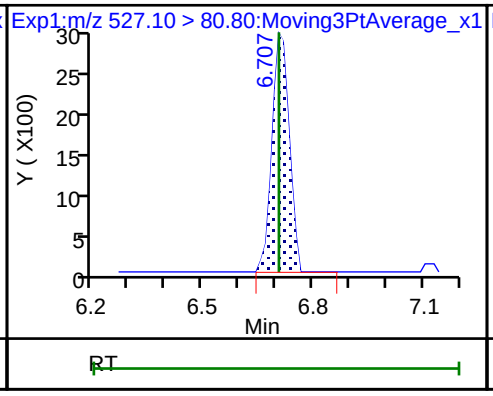
D 45 13C2-8:2FTS



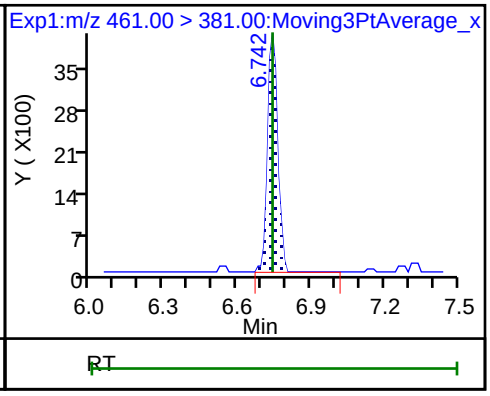
46 8:2FTS



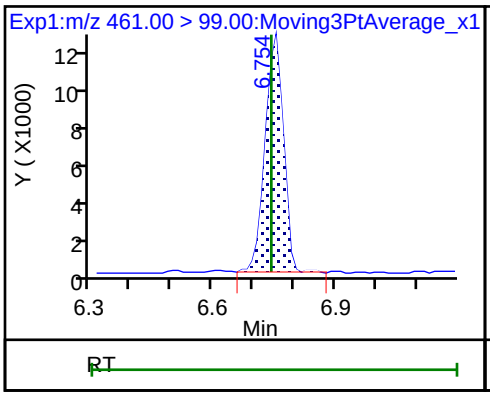
46 8:2FTS



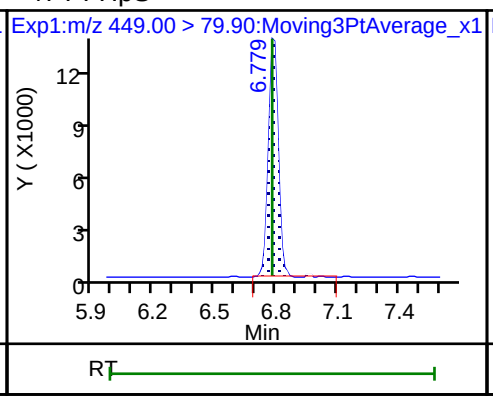
44 PFECHS



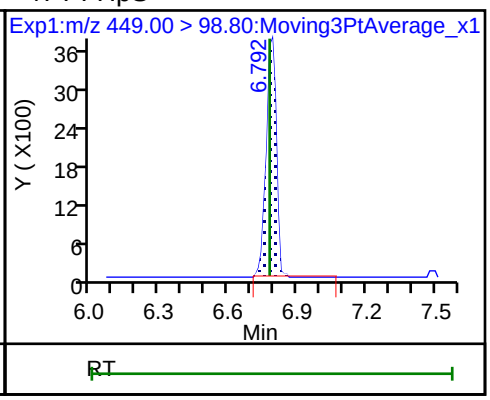
44 PFECHS



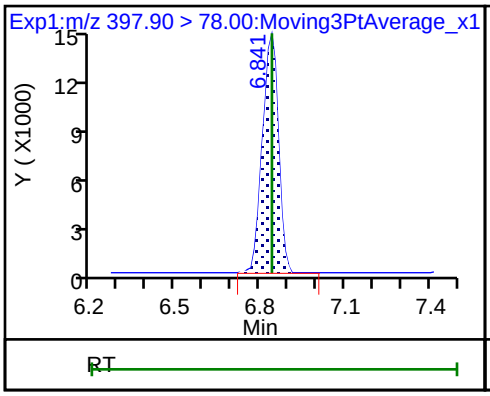
47 PFHpS



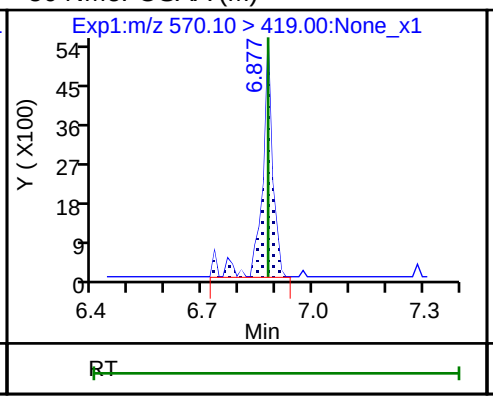
47 PFHpS



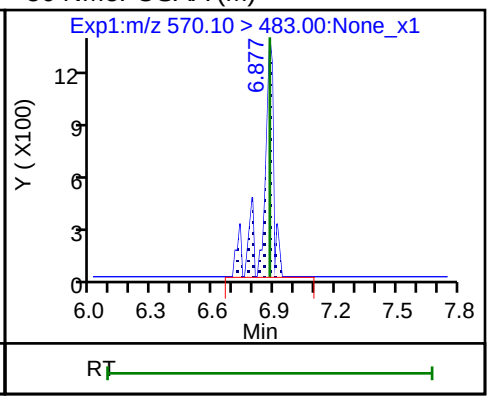
48 FHxSA



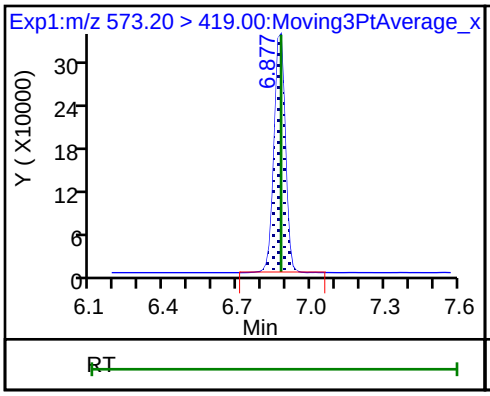
50 NMeFOSAA (M)



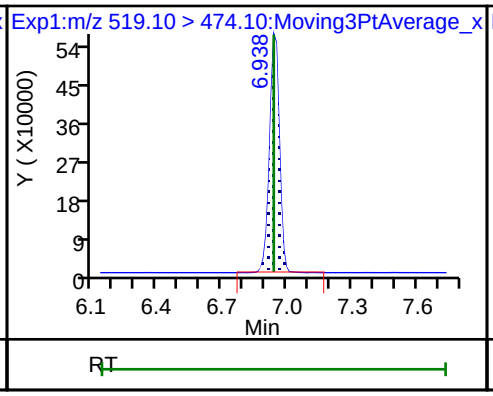
50 NMeFOSAA (M)



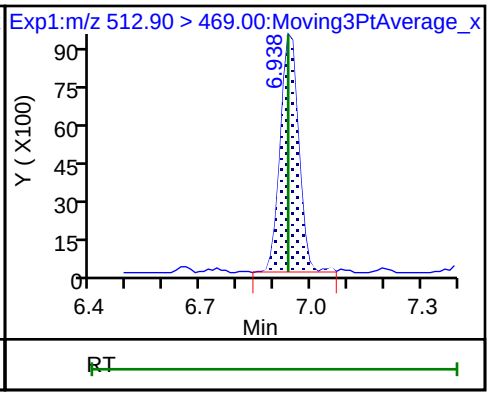
D 49 d3-NMeFOSAA



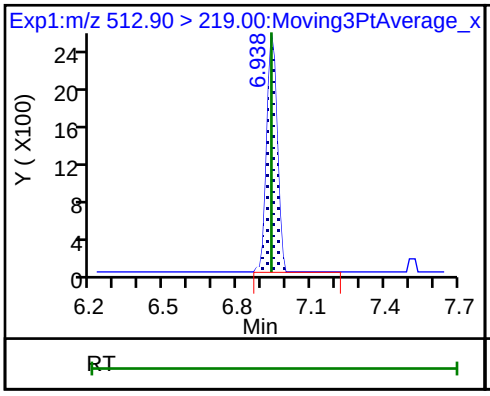
D 51 13C6 PFDA



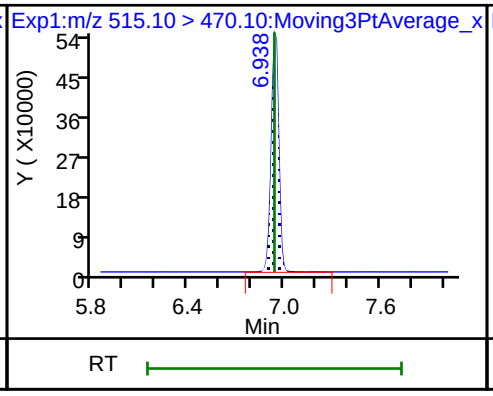
53 PFDA



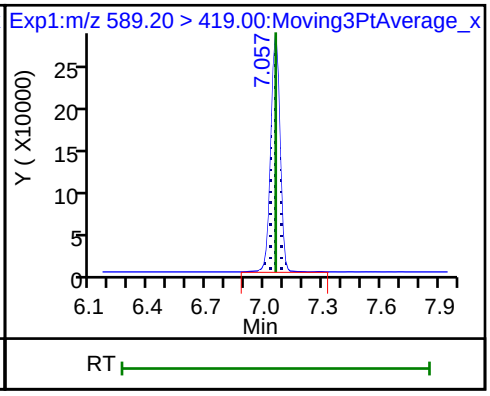
53 PFDA



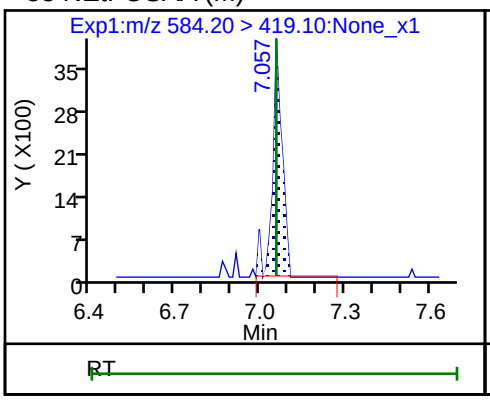
* 52 13C2 PFDA



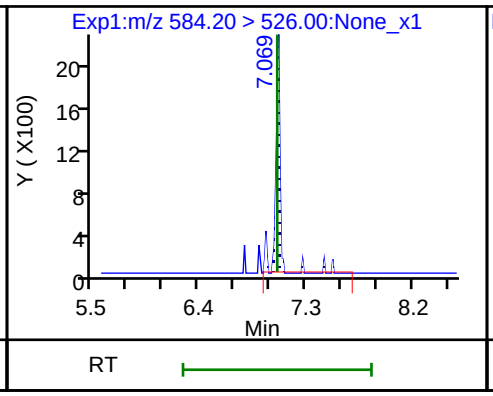
D 54 d5-NEtFOSAA



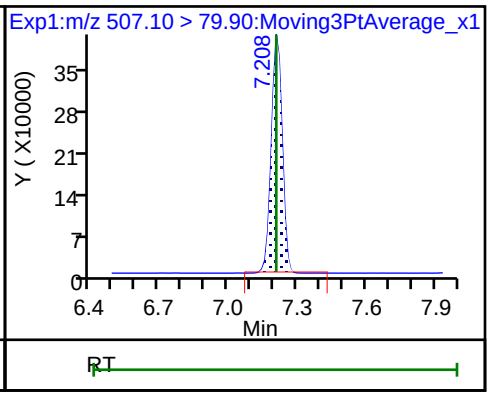
55 NEtFOSAA (M)



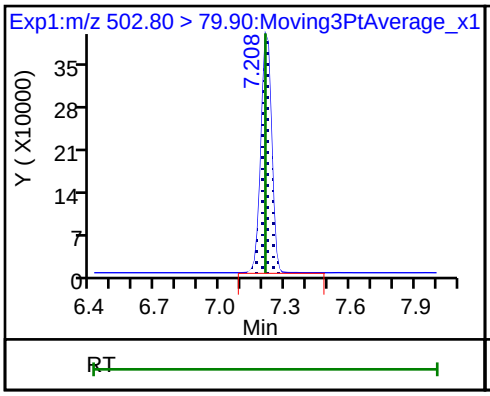
55 NEtFOSAA



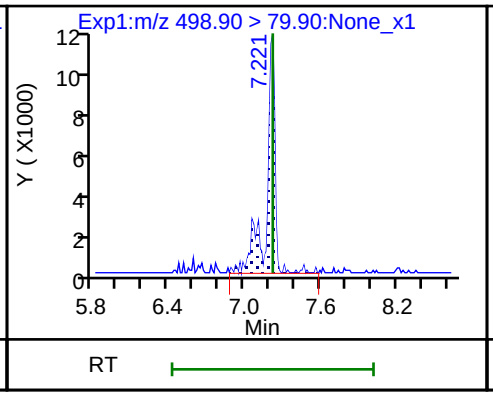
D 56 13C8 PFOS



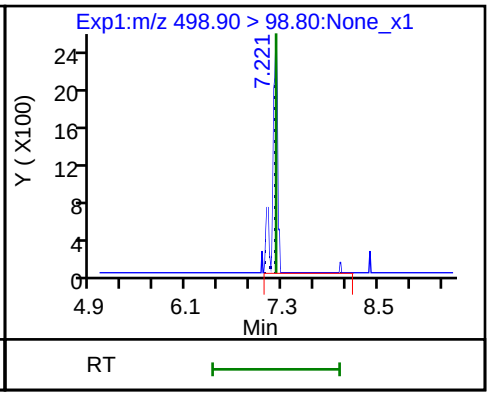
* 57 13C4 PFOS



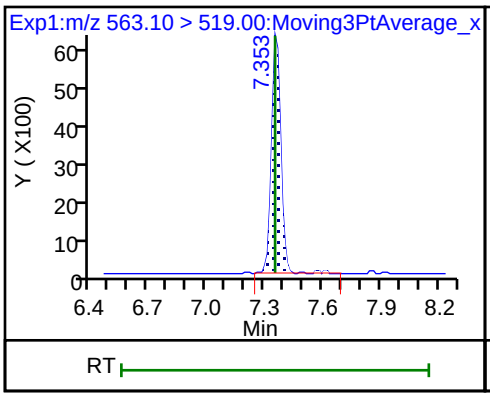
58 PFOS



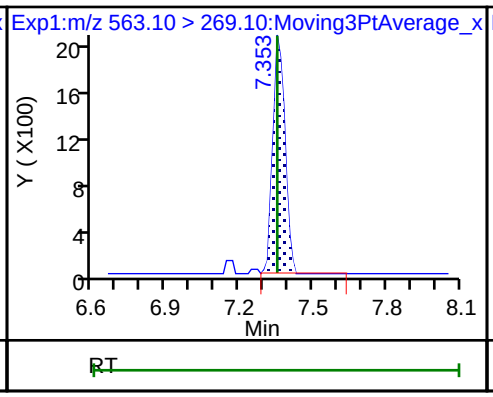
58 PFOS



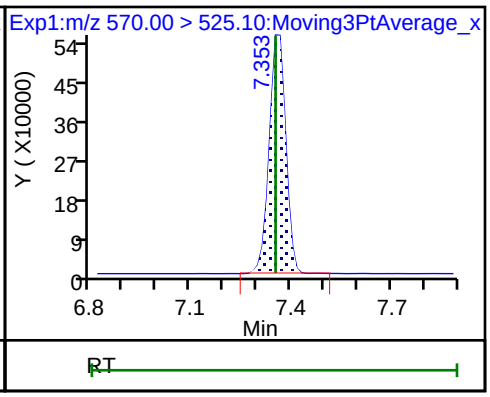
60 PFUnA



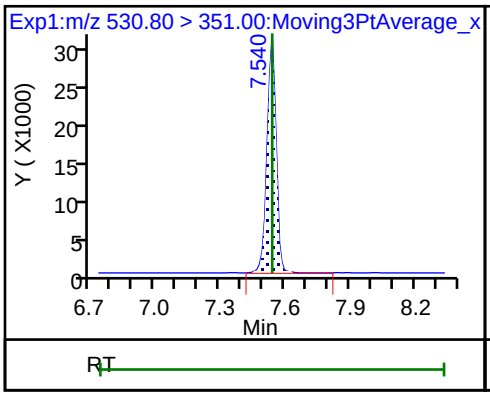
60 PFUnA



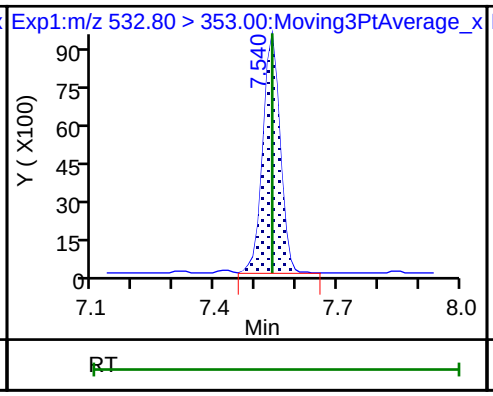
D 59 13C7 PFUnA



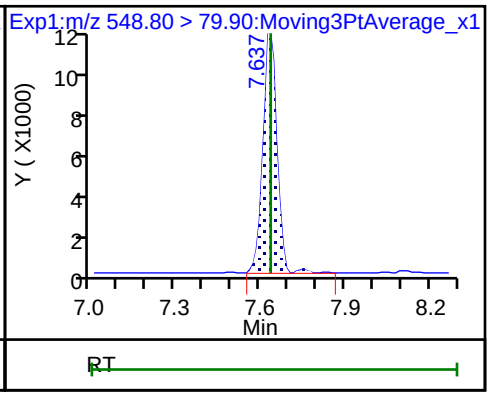
61 9ClFOS



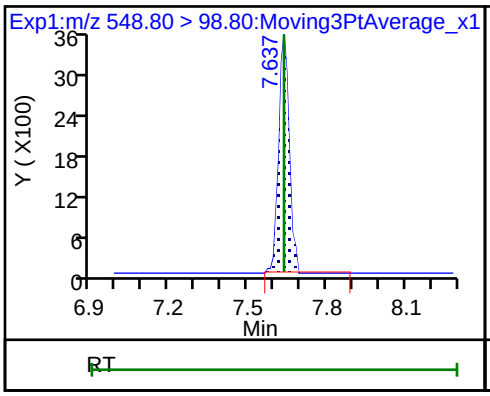
61 9ClFOS



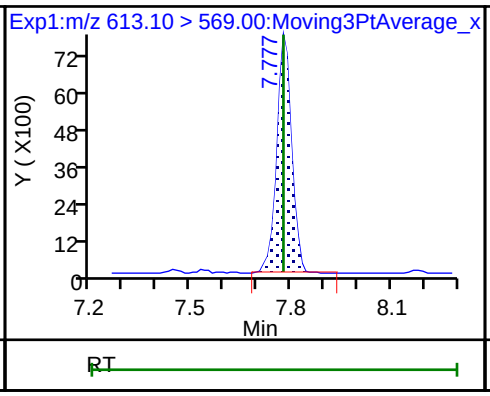
62 PFNS



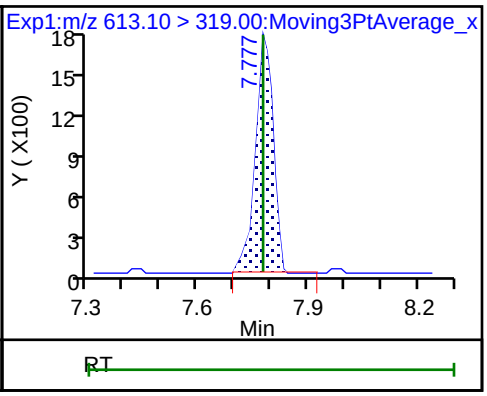
62 PFNS



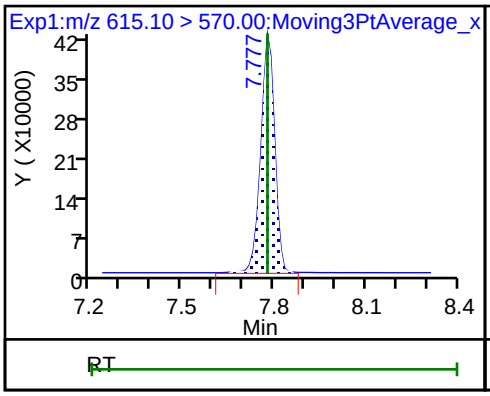
63 PFDoA



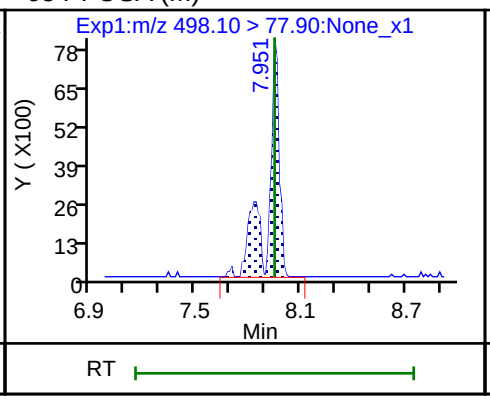
63 PFDoA



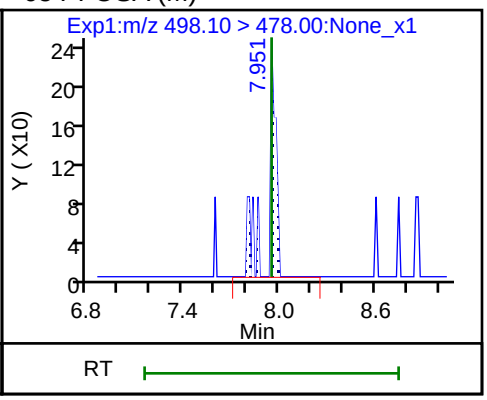
D 82 PFDoA



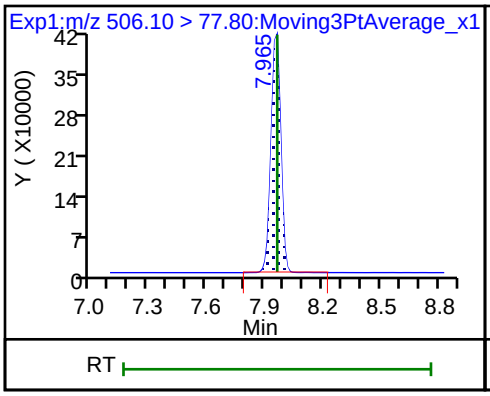
65 PFOSA (M)



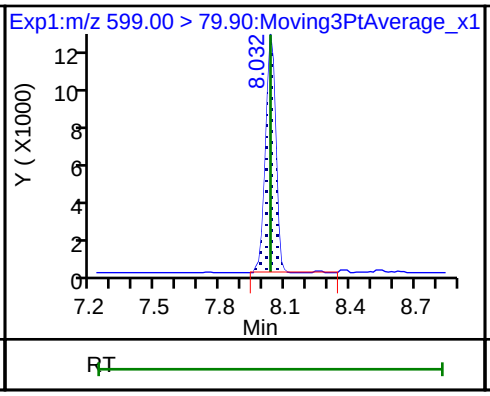
65 PFOSA (M)



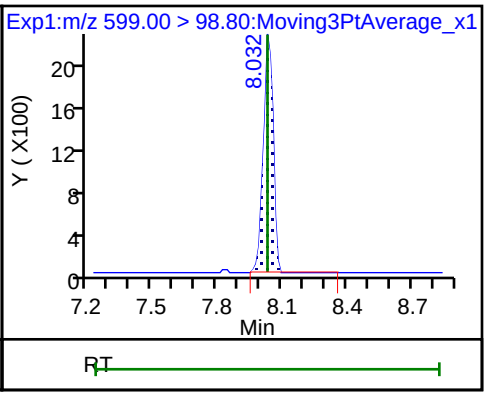
D 64 13C8 FOSA



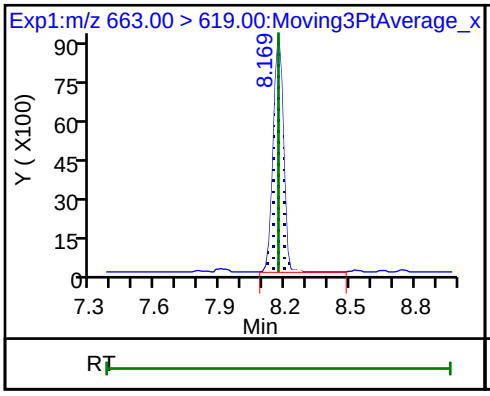
66 PFDS



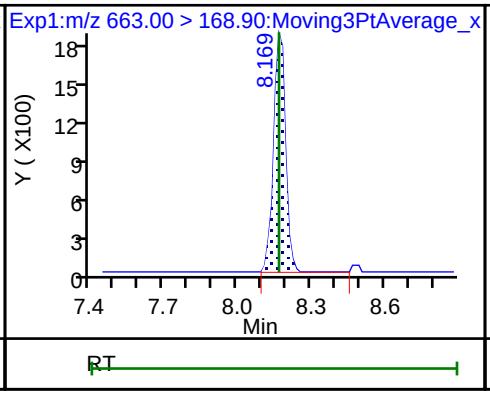
66 PFDS



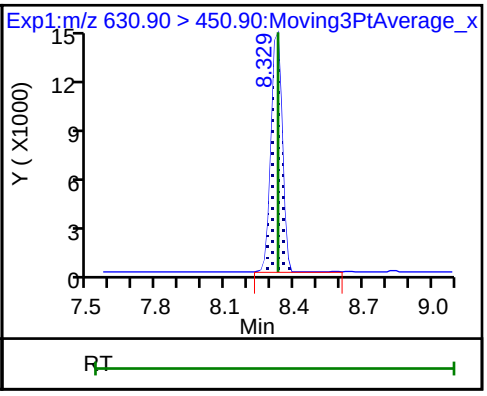
67 PFTrDA



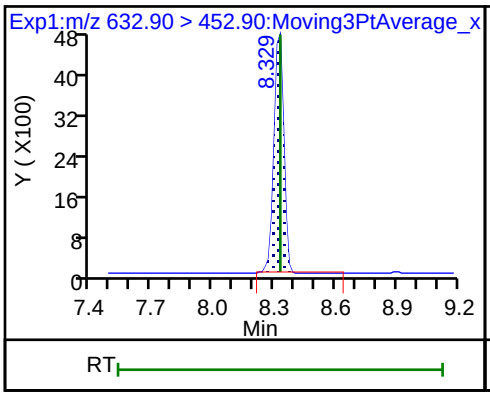
67 PFTrDA



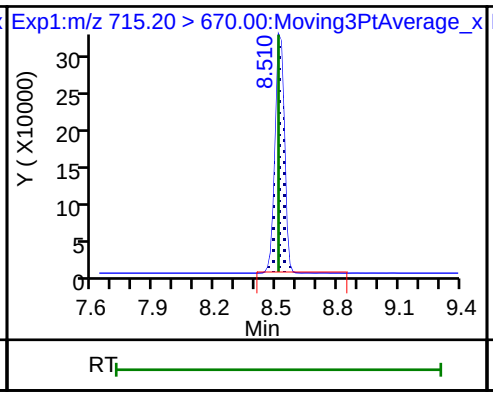
68 11ClFOS



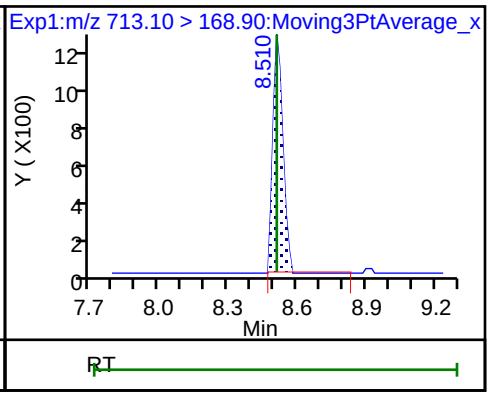
68 11ClFOS



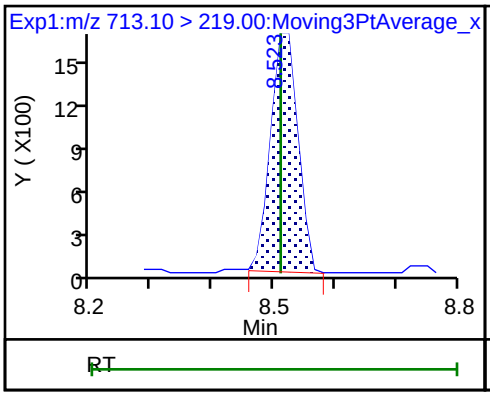
D 69 13C2 PFTeDA



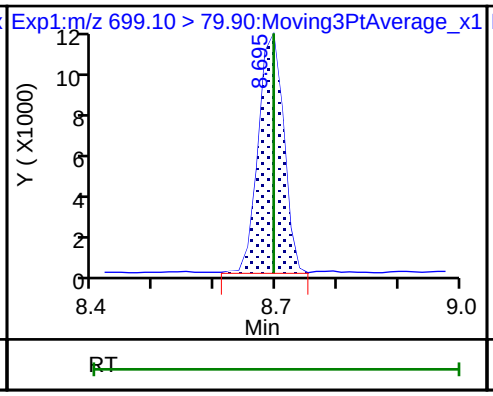
70 PFTeDA



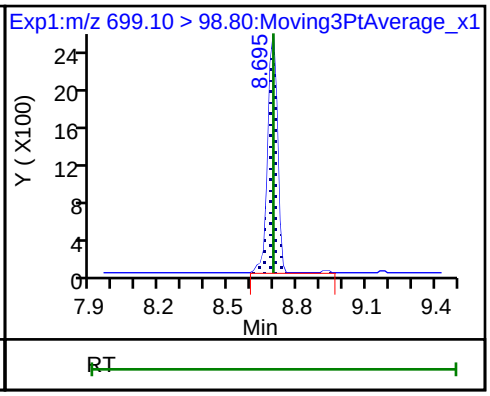
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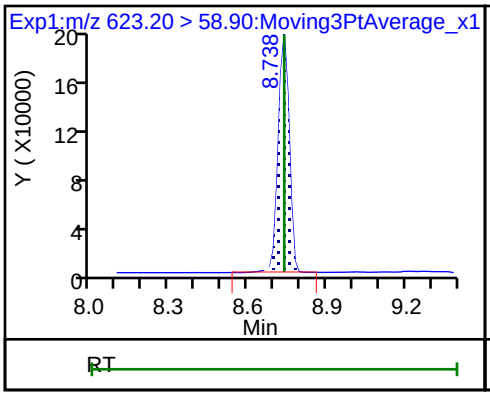
73 PFDoS



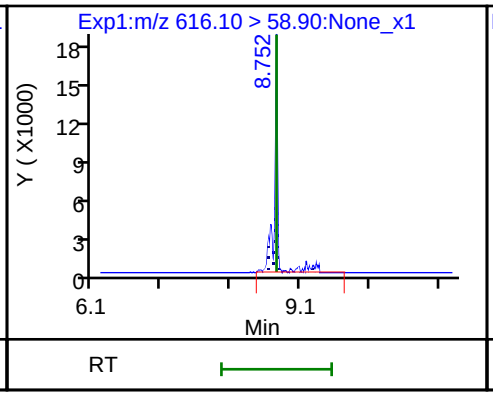
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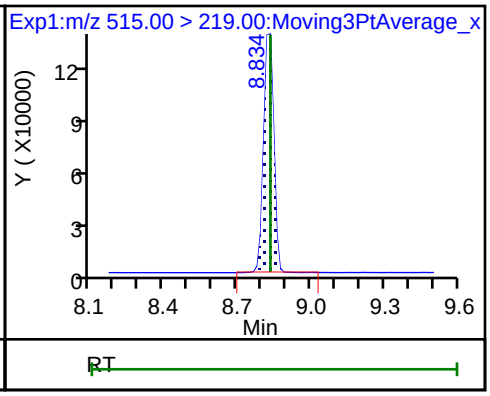
D 71 d7-N-Me-FOSE



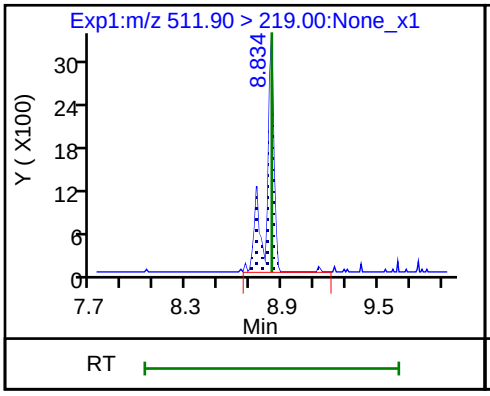
72 N-MeFOSE-M



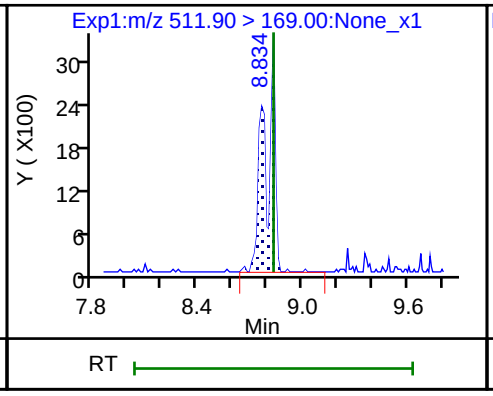
D 74 d3-NMePFOSA



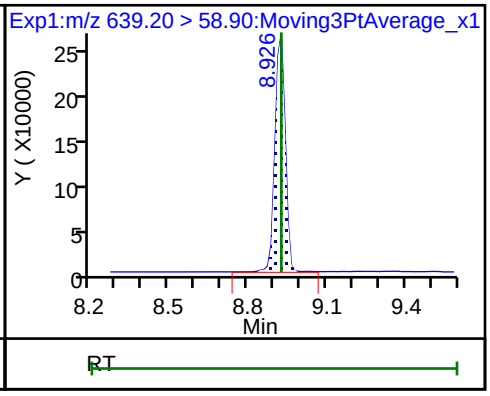
75 NMeFOSA



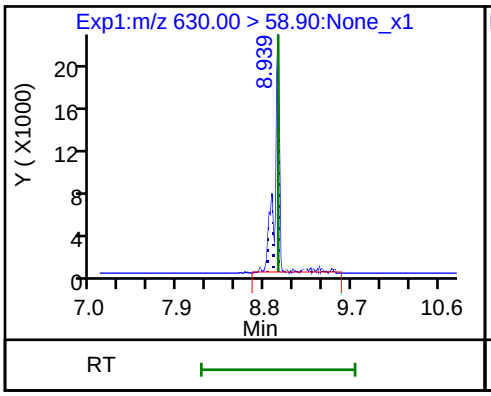
75 NMeFOSA



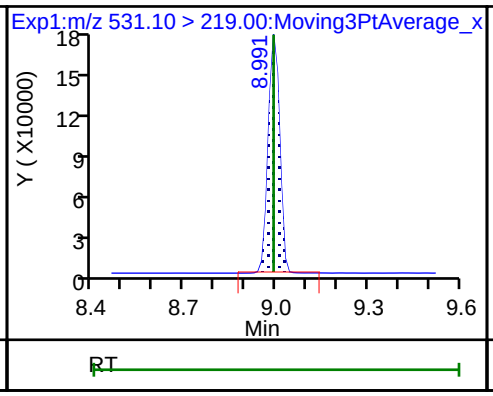
D 76 d9-N-EtFOSE



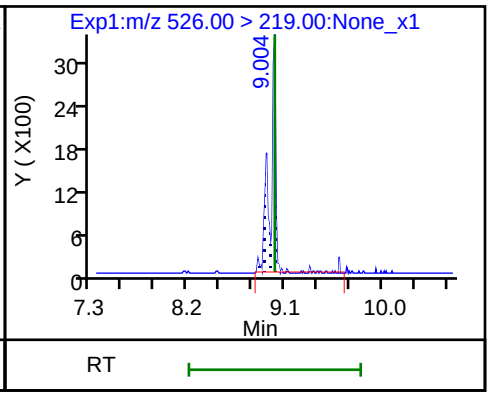
77 N-EtFOSE-M



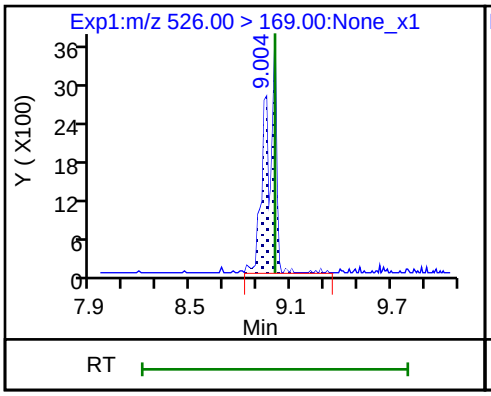
D 78 d5-NEtPFOSA



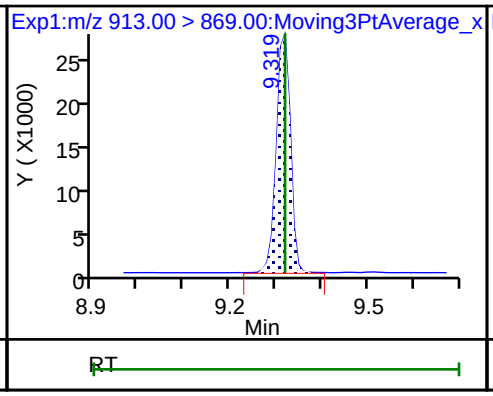
79 N-EtFOSA-M



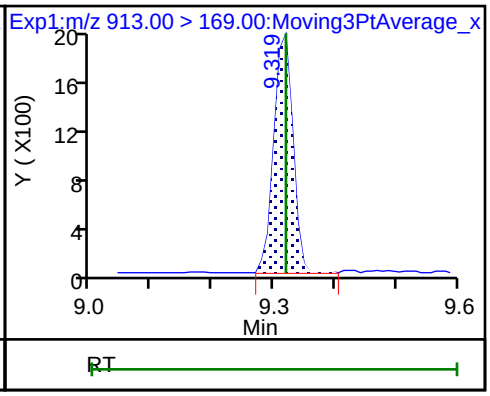
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

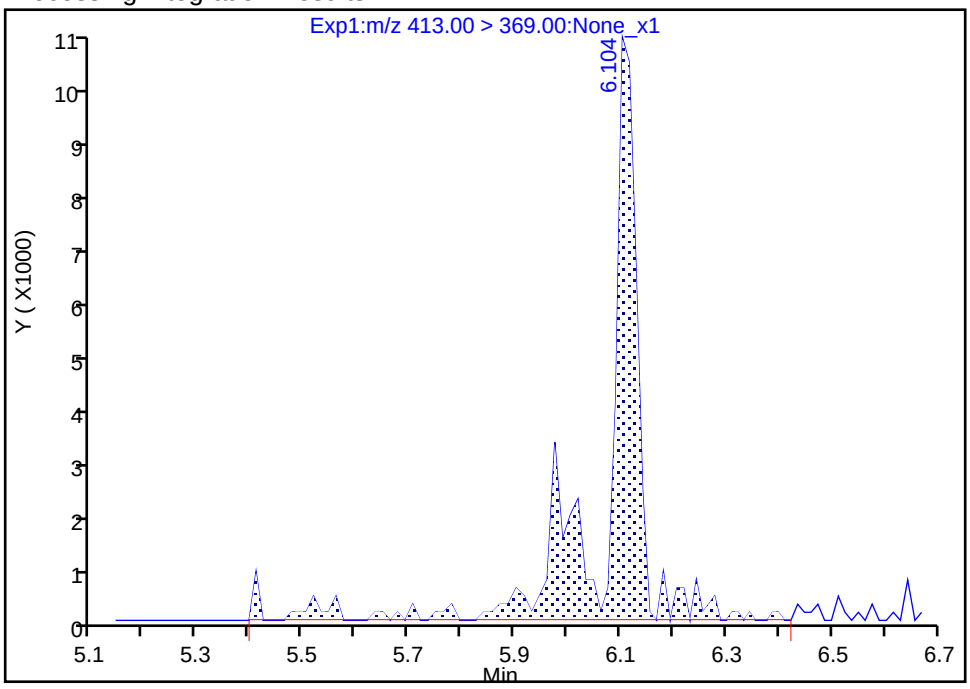
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Injection Date:	02-Feb-2026 09:55:07	Instrument ID:	30576		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 1

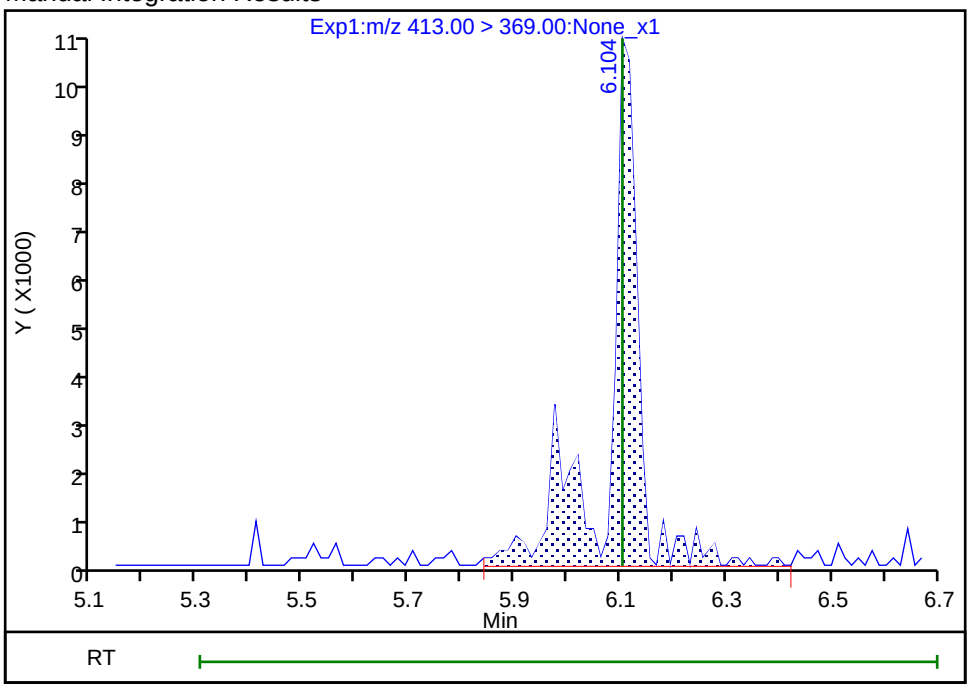
Processing Integration Results

RT: 6.10
Area: 44879
Amount: 0.062059
Amount Units: ng/ml



Manual Integration Results

RT: 6.10
Area: 41573
Amount: 0.057488
Amount Units: ng/ml



Reviewer: M4QQ, 02-Feb-2026 10:19:13 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

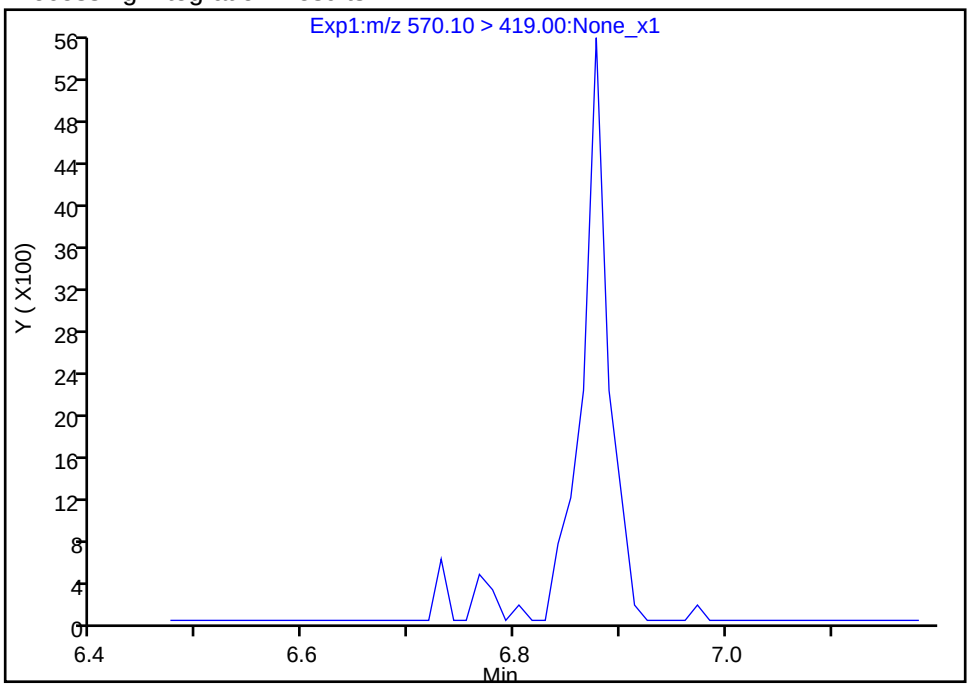
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Injection Date:	02-Feb-2026 09:55:07	Instrument ID:	30576		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

50 NMeFOSAA, CAS: 2355-31-9

Signal: 1

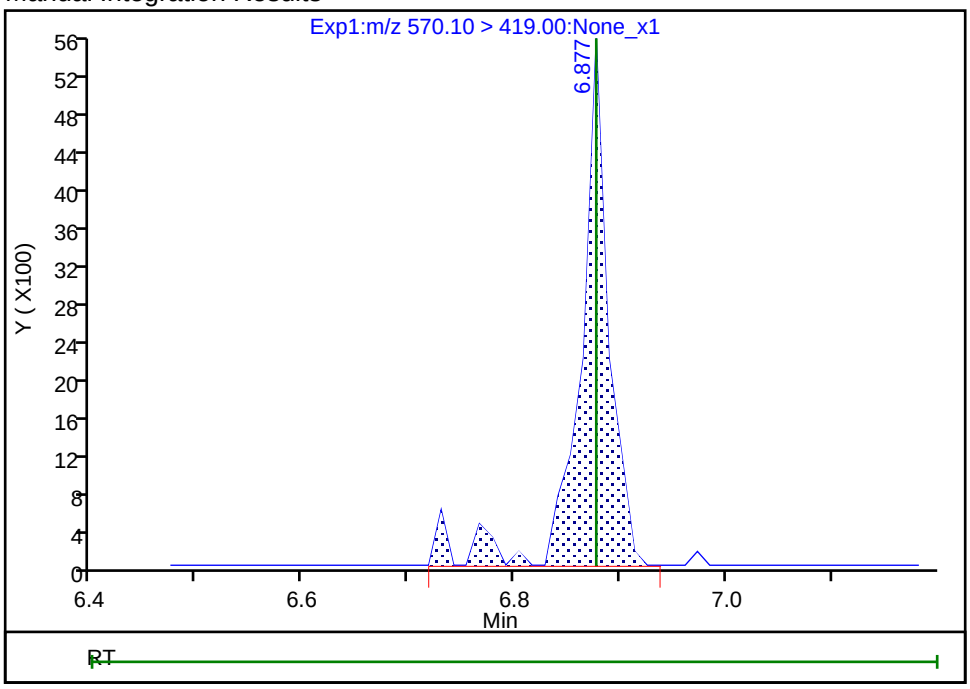
Not Detected
Expected RT: 6.88

Processing Integration Results



Manual Integration Results

RT: 6.88
Area: 10666
Amount: 0.043530
Amount Units: ng/ml



Reviewer: M4QQ, 02-Feb-2026 10:18:03 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

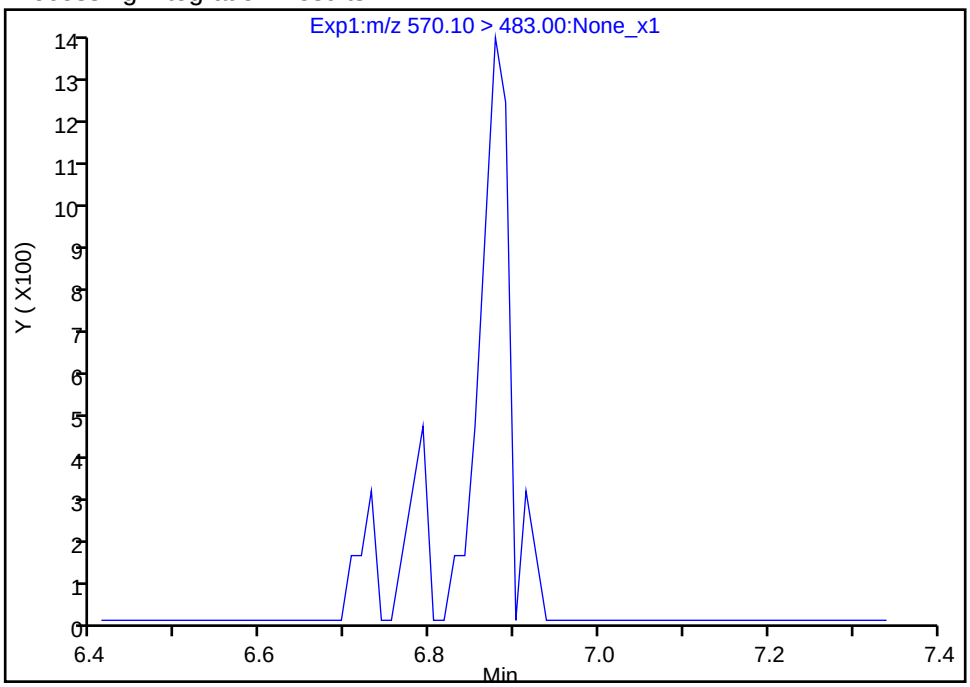
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Injection Date:	02-Feb-2026 09:55:07	Instrument ID:	30576		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

50 NMeFOSAA, CAS: 2355-31-9

Signal: 2

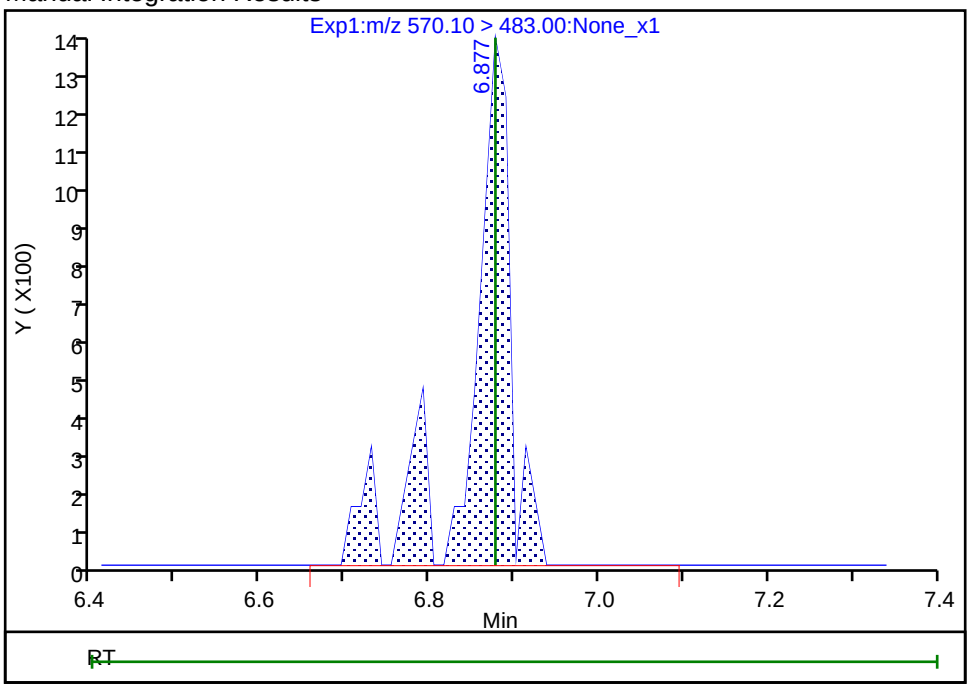
Not Detected
Expected RT: 6.88

Processing Integration Results



Manual Integration Results

RT: 6.88
Area: 4382
Amount: 0.043530
Amount Units: ng/ml



Reviewer: M4QQ, 02-Feb-2026 10:18:06 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

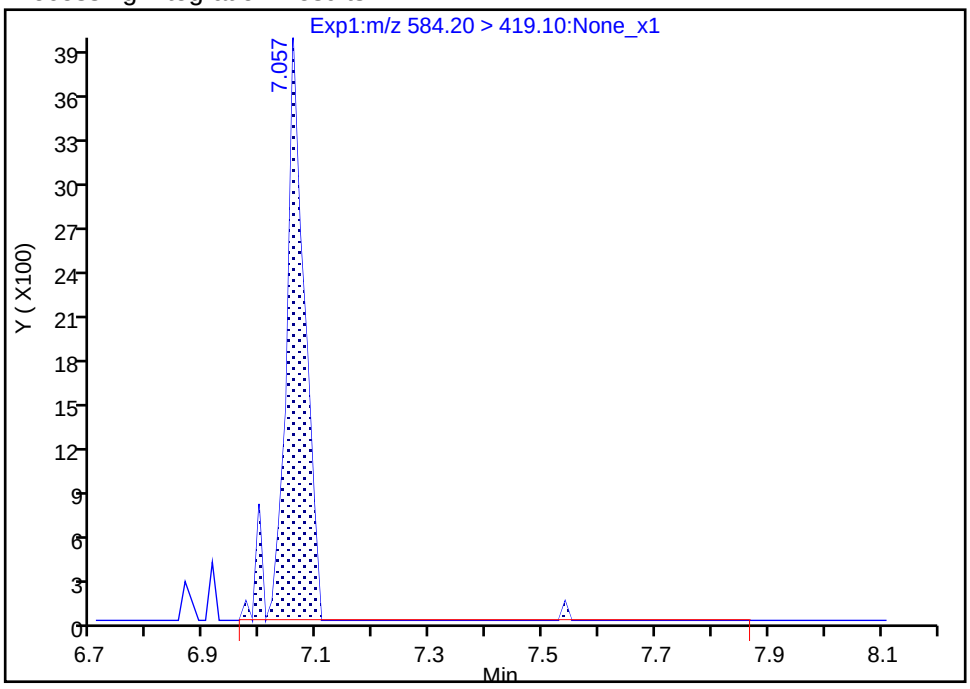
Data File:	\\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02c-01.d				
Injection Date:	02-Feb-2026 09:55:07	Instrument ID:	30576		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

55 NEtFOSAA, CAS: 2991-50-6

Signal: 1

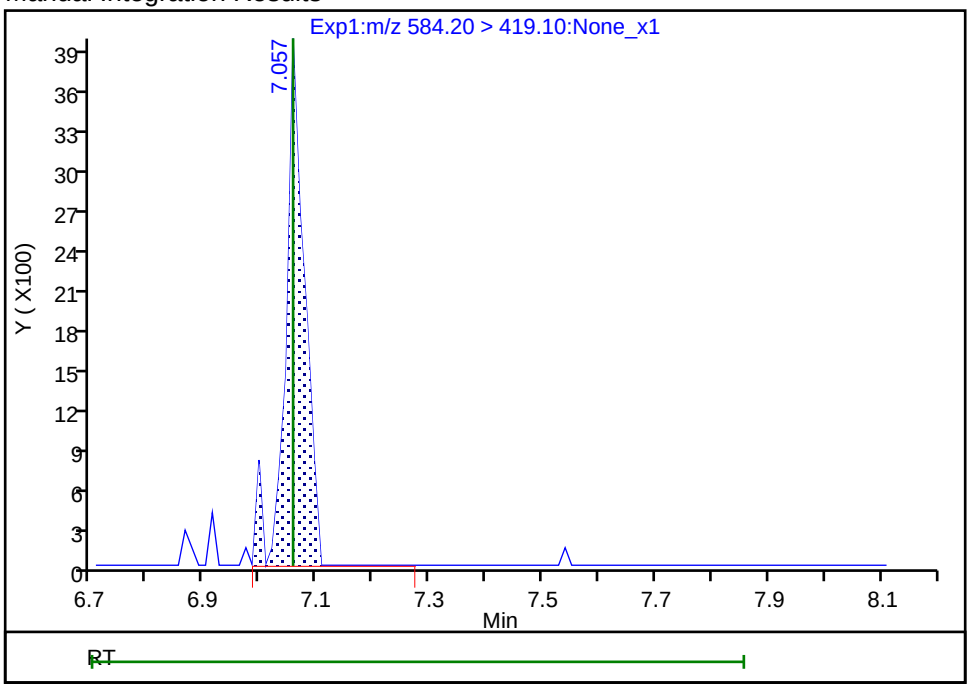
Processing Integration Results

RT: 7.06
Area: 9474
Amount: 0.065464
Amount Units: ng/ml



Manual Integration Results

RT: 7.06
Area: 9288
Amount: 0.064179
Amount Units: ng/ml



Reviewer: M4QQ, 02-Feb-2026 10:18:40 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

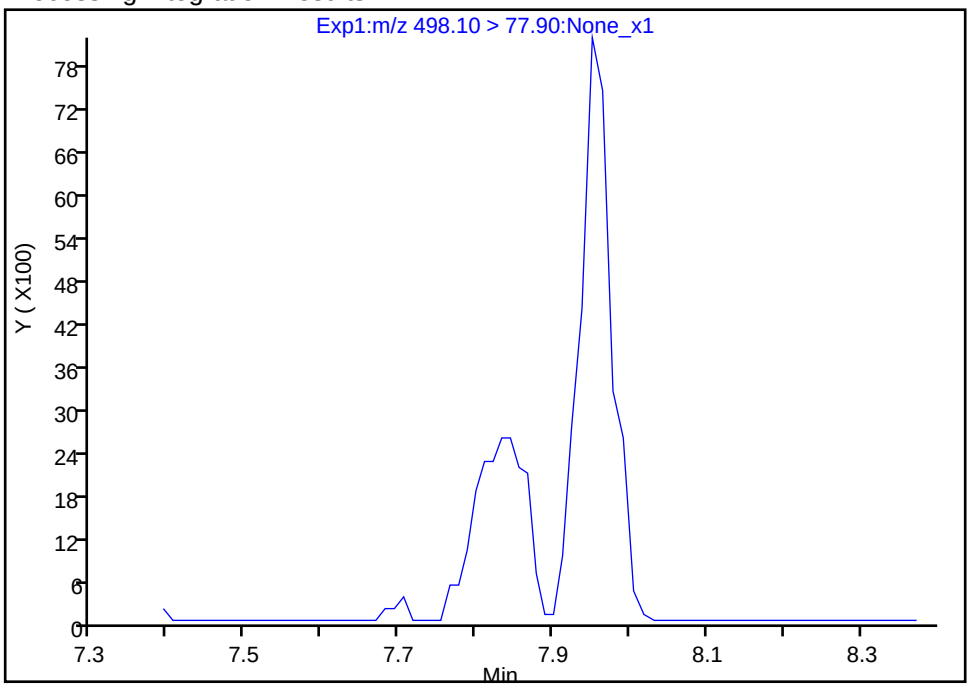
Data File:	\\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02c-01.d				
Injection Date:	02-Feb-2026 09:55:07	Instrument ID:	30576		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

65 PFOSA, CAS: 754-91-6

Signal: 1

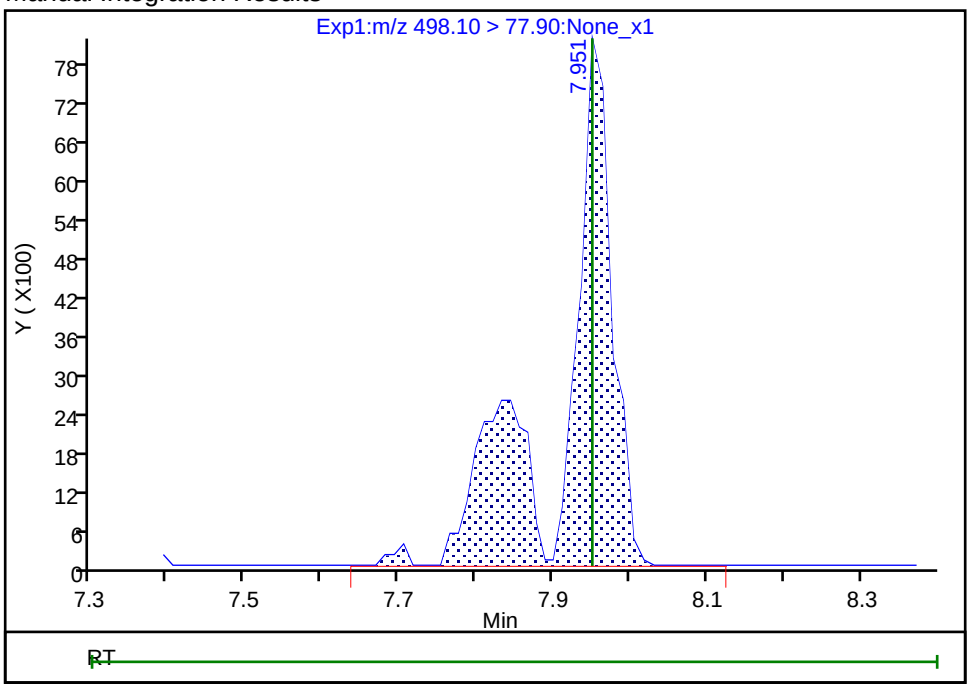
Not Detected
Expected RT: 7.95

Processing Integration Results



Manual Integration Results

RT: 7.95
Area: 36755
Amount: 0.048838
Amount Units: ng/ml



Reviewer: M4QQ, 02-Feb-2026 10:18:25 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

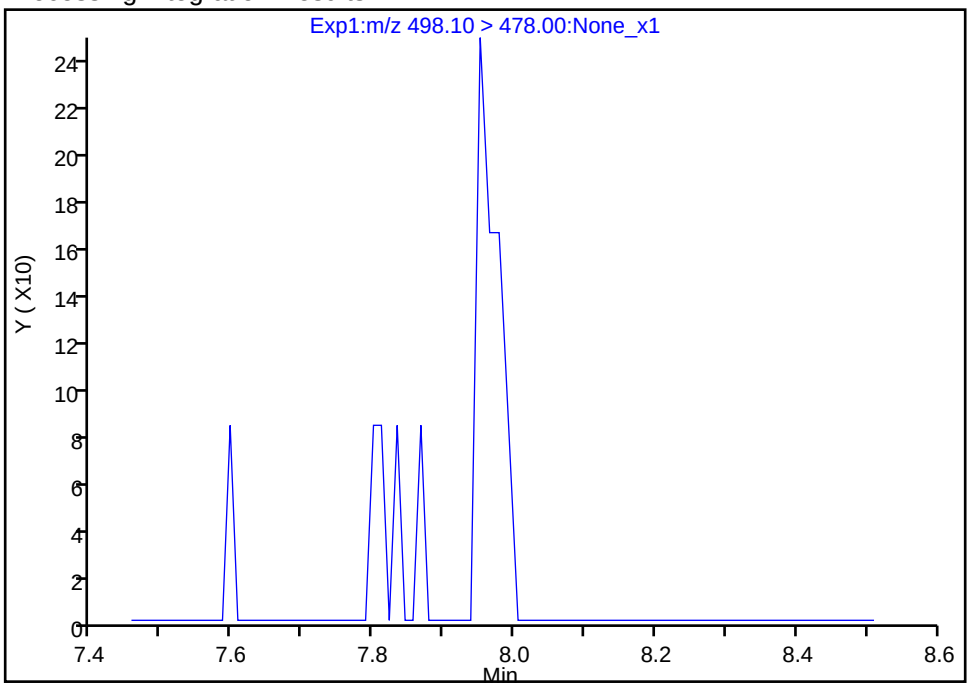
Data File:	\\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02c-01.d				
Injection Date:	02-Feb-2026 09:55:07	Instrument ID:	30576		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

65 PFOSA, CAS: 754-91-6

Signal: 2

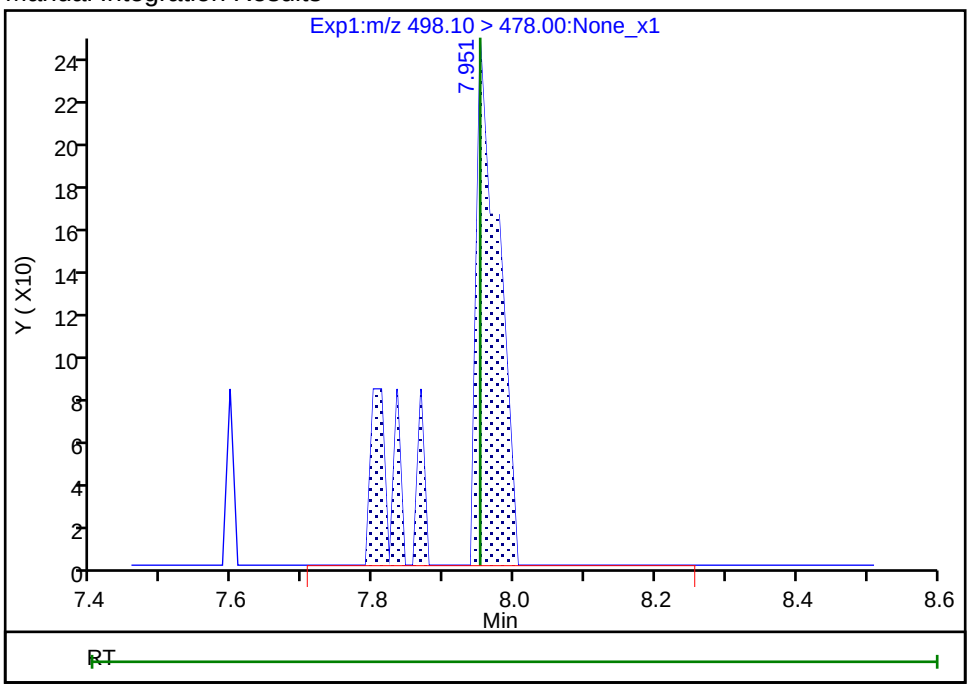
Not Detected
Expected RT: 7.95

Processing Integration Results



Manual Integration Results

RT: 7.95
Area: 756
Amount: 0.048838
Amount Units: ng/ml



Reviewer: M4QQ, 02-Feb-2026 10:18:28 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-763219/37 Calibration Date: 02/02/2026 19:39

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26feb02PC-41.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9142	0.9025		4.94	5.00	-1.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9144	0.8980		1.96	2.00	-2.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.669	1.574		0.943	1.00	-6.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0907	0.0762		1.68	2.00	-16.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.858	1.737		0.935	1.00	-7.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	2.124	2.053		0.967	1.00	-3.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.664	1.570		1.77	1.88	-6.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.3510	0.3172		0.904	1.00	-10.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8632	0.7750		0.898	1.00	-10.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1115	0.1036		4.64	5.00	-7.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.053	1.027		0.866	0.888	-3.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	1.054	0.9238		0.877	1.00	-12.0	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	0.996	1.089		0.820	0.750	9.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.632	2.478		0.840	0.892	-6.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.8410	0.8387		0.997	1.00	0.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	2.382	2.584		1.03	0.946	8.0	30.0
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	AveID	1.657	1.637		1.88	1.90	-1.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.113	1.096		0.926	0.940	-1.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.599	2.487		0.937	0.979	-4.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.6364	0.6510		1.02	1.00	2.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.0574	0.0499		4.34	5.00	-13.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	0.8632	0.8269		0.874	0.912	-4.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.9670	0.9684		1.00	1.00	0.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.334	1.224		1.76	1.92	-8.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.3009	0.3044		0.935	0.924	1.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.265	1.293		0.976	0.954	2.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.386	1.288		0.929	1.00	-7.0	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	1.157	1.132		0.978	1.00	-2.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-763219/37 Calibration Date: 02/02/2026 19:39

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26feb02PC-41.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.6423	0.5924		0.922	1.00	-8.0	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7976	0.8425		1.06	1.00	6.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.415	1.292		0.849	0.930	-9.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.4646	0.4847		1.04	1.00	4.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.776	2.587		0.870	0.934	-7.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.088	1.086		0.960	0.962	0.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.6975	0.6786		0.973	1.00	-3.0	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.046	1.027		0.982	1.00	-2.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.153	1.144		0.956	0.964	-1.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	0.9006	0.9409		1.05	1.00	4.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	1.524	1.370		0.849	0.944	-10.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1487	0.1461		0.982	1.00	-2.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.064	0.8992		0.820	0.970	-15.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	1.913	1.843		4.82	5.00	-4.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	0.995	1.008		1.01	1.00	1.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	2.110	2.103		4.99	5.00	0.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9808	0.9630		0.982	1.00	-2.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6043	1.994		3.30	1.00	230.0*	30.0
13C3-PFPrA	Ave	0.8660	0.8475		1.96	2.00	-2.0	30.0
13C4 PFBA	Ave	1.045	1.075		2.06	2.00	3.0	30.0
13C5 PFPeA	Ave	0.5814	0.5789		1.99	2.00	0.0	30.0
13C2 4:2 FTS	Ave	0.1525	0.1685		5.18	4.69	10.0	30.0
13C5 PFHxA	Ave	1.143	1.138		1.99	2.00	0.0	30.0
13C3 PFBS	Ave	1.125	1.204		1.99	1.86	7.0	30.0
13C3 HFPO-DA	Ave	0.9887	0.8942		1.81	2.00	-10.0	30.0
13C4 PFHpA	Ave	1.127	1.107		1.96	2.00	-2.0	30.0
13C2 6:2 FTS	Ave	0.1256	0.1442		5.47	4.76	15.0	30.0
13C8 PFOA	Ave	1.000	1.050		2.10	2.00	5.0	30.0
13C3 PFHxS	Ave	1.027	1.040		1.92	1.90	1.0	30.0
13C9 PFNA	Ave	0.9366	0.9470		2.02	2.00	1.0	30.0
13C2 8:2 FTS	Ave	0.1198	0.1379		5.53	4.80	15.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-763219/37 Calibration Date: 02/02/2026 19:39

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26feb02PC-41.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d3-NMeFOSAA	Ave	0.2975	0.3108		5.22	5.00	4.0	30.0
13C6 PFDA	Ave	1.011	1.066		2.11	2.00	5.0	30.0
d5-NEtFOSAA	Ave	0.2572	0.2803		5.45	5.00	9.0	30.0
13C8 PFOS	Ave	1.015	1.104		2.08	1.92	9.0	30.0
13C7 PFUnA	Ave	1.008	1.028		2.04	2.00	2.0	30.0
13C2 PFDoA	Ave	0.7103	0.7230		2.04	2.00	2.0	30.0
13C8 FOSA	Ave	1.138	1.138		2.00	2.00	0.0	30.0
13C2 PFTeDA	Ave	0.5894	0.5188		1.76	2.00	-12.0	30.0
d7-N-MeFOSE-M	Ave	0.1795	0.1660		4.62	5.00	-8.0	30.0
d3-NMePFOSA	Ave	0.3214	0.2978		1.85	2.00	-7.0	30.0
d9-N-EtFOSE-M	Ave	0.2384	0.2141		4.49	5.00	-10.0	30.0
d5-NEtPFOSA	Ave	0.3912	0.3591		1.84	2.00	-8.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26feb02PC-41.d
Lims ID: CCV 4_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 02-Feb-2026 19:39:41 ALS Bottle#: 5 Worklist Smp#: 37
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub11

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 03-Feb-2026 08:03:50 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1674

First Level Reviewer: VGQ7 Date: 03-Feb-2026 07:21:05
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.983	1.992	-0.009	0.476	1198722	1.96		97.9	382	
2 Perfluoropropionic acid										
163.00 > 119.00	2.008	2.001	0.007	1.013	2704530	4.94		98.7	2047	
5 PFBA										
212.80 > 168.90	4.156	4.161	-0.005	0.998	1365122	1.96		98.2	3402	
D 3 13C4-PFBA										
216.80 > 171.90	4.164	4.161	0.003	1.000	1520182	2.06		103	5101	
* 4 13C3PFBA										
216.00 > 172.00	4.164	4.169	-0.005		1414443	2.00			1317	
6 PFMPA										
229.00 > 84.90	4.491	4.496	-0.005	0.930	771422	0.9427		94.3	3404	
7 3:3 FTCA										
241.00 > 177.00	4.501	4.496	0.005	0.933	74754	1.68	Target=1.24	84.1	1158	
241.00 > 117.00	4.501	4.496	0.005	0.933	61996		1.21(0.62-1.86)		412	
D 8 13C5 PFPeA										
268.30 > 223.00	4.826	4.822	0.004	0.915	980430	1.99		99.6	6560	
9 PFPA										
263.00 > 219.00	4.826	4.822	0.004	1.000	851414	0.9346		93.5	1037	
10 PFMBA										
279.00 > 85.10	4.972	4.978	-0.006	1.030	1006421	0.9667		96.7	5570	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.093	5.099	-0.005	0.805	656517	5.18		110	3478	
12 4:2FTS										
327.10 > 307.00	5.093	5.099	-0.005	1.000	412390	1.77	Target=1.50	94.4	1381	
327.10 > 80.90	5.093	5.099	-0.005	1.000	272694		1.51(0.75-2.24)		490	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.235	5.242	-0.007	0.992	305617	0.9036	Target=1.53	90.4	2894	
295.00 > 84.90	5.235	5.242	-0.007	0.992	219410		1.39(0.76-2.29)		1256	
17 PFHxA										
313.00 > 269.00	5.275	5.282	-0.007	1.000	746767	0.8978	Target=12.38	89.8	882	
313.00 > 118.90	5.275	5.282	-0.007	1.000	66623		11.21(6.19-18.57)		227	
D 15 13C5 PFHxA										
318.00 > 273.00	5.275	5.282	-0.007	1.000	1927228	1.99		99.6	5702	
* 16 13C2 PFHxA										
315.10 > 270.00	5.275	5.282	-0.007		4233945	5.00			6471	
20 5:3 FTCA										
341.00 > 237.10	5.342	5.347	-0.005	1.013	499036	4.64	Target=0.84	92.9	1453	
341.00 > 217.00	5.342	5.347	-0.005	1.013	519761		0.96(0.42-1.25)		1534	
D 18 13C3 PFBS										
302.10 > 79.90	5.405	5.410	-0.005	0.854	1864011	1.99		107	6395	
19 PFBS										
298.70 > 79.90	5.405	5.424	-0.019	1.000	911746	0.8658	Target=3.07	97.5	6360	
298.70 > 98.80	5.405	5.424	-0.019	1.000	263548		3.46(1.54-4.61)		1578	
25 FBSA										
297.90 > 78.00	5.418	5.424	-0.006	1.002	923854	0.8766		87.7	2303	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.458	5.464	-0.006	1.035	1514319	1.81		90.4	5019	
22 HFPO-DA										
284.90 > 168.90	5.458	5.464	-0.006	1.000	618332	0.8198	Target=2.35	109	1415	
284.90 > 184.90	5.458	5.464	-0.006	1.000	253682		2.44(1.17-3.52)		834	
24 PFEESA										
314.80 > 134.90	5.658	5.665	-0.007	1.073	2129690	0.8398	Target=11.61	94.1	6906	
314.80 > 82.90	5.658	5.665	-0.007	1.073	192474		11.06(5.81-17.42)		744	
28 PFHpA										
363.10 > 319.00	5.700	5.707	-0.007	1.000	786097	1.00	Target=2.31	99.7	1660	
363.10 > 169.00	5.700	5.707	-0.007	1.000	337148		2.33(1.16-3.47)		1494	
D 26 13C4 PFHpA										
367.10 > 322.00	5.700	5.707	-0.007	1.081	1874636	1.96		98.2	6473	
30 ADONA										
376.90 > 250.90	5.849	5.857	-0.008	1.072	1850519	1.03	Target=1.93	108	10206	
376.90 > 84.80	5.849	5.857	-0.008	1.072	949120		1.95(0.97-2.90)		2877	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.895	5.903	-0.008	0.932	570178	5.46		115	2124	
32 6:2FTS										
427.10 > 407.00	5.895	5.903	-0.008	1.000	373346	1.88	Target=1.49	98.8	373	
427.10 > 80.90	5.895	5.903	-0.008	1.000	249761		1.49(0.75-2.24)		426	
29 PFPeS										
349.10 > 79.90	5.895	5.903	-0.008	0.932	890157	0.9262	Target=3.10	98.5	4061	
349.10 > 98.90	5.895	5.903	-0.008	0.932	262745		3.39(1.55-4.65)		524	
33 BTS										
280.00 > 147.00	6.055	6.063	-0.008	0.957	2103070	0.9365		95.7	7343	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.097	6.104	-0.007	1.000	772475	1.02	Target=1.86	102	812	
413.00 > 169.00	6.097	6.104	-0.007	1.000	399379		1.93(0.93-2.79)		682	
* 35 13C4 PFOA										
417.10 > 372.00	6.097	6.117	-0.020		5650144	5.00			11031	
D 34 13C8 PFOA										
421.10 > 376.00	6.097	6.117	-0.020	1.000	2373262	2.10		105	8151	
39 7:3 FTCA										
441.00 > 316.90	6.162	6.182	-0.020	1.168	240351	4.34	Target=0.34	86.8	1539	
441.00 > 336.90	6.162	6.182	-0.020	1.168	732536		0.33(0.17-0.51)		3099	
40 PFHxS										
398.70 > 79.90	6.327	6.345	-0.018	1.000	651465	0.8736	Target=3.30	95.8	1015	
398.70 > 98.90	6.338	6.345	-0.007	1.002	207083		3.15(1.65-4.96)		493	
D 38 13C3 PFHxS										
402.10 > 79.90	6.327	6.345	-0.018	1.000	1637886	1.92		101	5875	
* 37 18O2 PFHxS										
403.00 > 83.90	6.327	6.345	-0.018		1575317	1.90			10760	
* 42 13C5 PFNA										
468.00 > 423.00	6.505	6.525	-0.020		1927727	2.00			4869	
D 41 13C9 PFNA										
472.10 > 427.00	6.505	6.525	-0.020	1.000	1825535	2.02		101	5850	
43 PFNA										
463.00 > 419.00	6.518	6.525	-0.007	1.002	883930	1.00	Target=2.61	100	867	
463.00 > 219.00	6.518	6.525	-0.007	1.002	316447		2.79(1.31-3.92)		374	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.699	6.707	-0.008	1.059	550113	5.53		115	2629	
46 8:2FTS										
527.10 > 507.00	6.687	6.707	-0.020	0.998	269371	1.76	Target=1.36	91.8	1771	
527.10 > 80.80	6.699	6.707	-0.008	1.000	183152		1.47(0.68-2.04)		646	
44 PFECHS										
461.00 > 381.00	6.735	6.742	-0.007	1.064	243015	0.9349	Target=0.26	101	1509	
461.00 > 99.00	6.723	6.742	-0.019	1.063	944402		0.26(0.13-0.39)		992	
47 PFHpS										
449.00 > 79.90	6.771	6.779	-0.008	0.942	895552	0.9756	Target=4.06	102	2956	
449.00 > 98.80	6.771	6.779	-0.008	0.942	197610		4.53(2.03-6.09)		61580	
48 FHxSA										
397.90 > 78.00	6.821	6.841	-0.020	1.078	1112379	0.9291		92.9	2162	
50 NMeFOSAA										
570.10 > 419.00	6.857	6.877	-0.020	1.000	231224	0.9782	Target=1.95	97.8	82781	
570.10 > 483.00	6.857	6.877	-0.020	1.000	119980		1.93(0.98-2.93)		150	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.857	6.877	-0.020	0.954	1021115	5.22		104	1547	
D 51 13C6 PFDA										
519.10 > 474.10	6.917	6.938	-0.021	1.000	1964124	2.11		105	5188	
53 PFDA										
512.90 > 469.00	6.917	6.938	-0.021	1.000	581775	0.9223	Target=3.17	92.2	1356	
512.90 > 219.00	6.929	6.938	-0.009	1.002	185776		3.13(1.58-4.75)		815	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 52 13C2 PFDA										
515.10 > 470.10	6.917	6.938	-0.021		1843174	2.00			4961	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.036	7.057	-0.021	0.979	920995	5.45		109	1286	
55 NEtFOSAA										
584.20 > 419.10	7.048	7.057	-0.009	1.002	155189	1.06	Target=1.64	106	311	
584.20 > 526.00	7.036	7.057	-0.021	1.000	94581		1.64(0.82-2.47)		216	
D 56 13C8 PFOS										
507.10 > 79.90	7.188	7.208	-0.020	1.000	1390545	2.08		109	1056	
* 57 13C4 PFOS										
502.80 > 79.90	7.188	7.208	-0.020		1259087	1.92			6978	
58 PFOS										
498.90 > 79.90	7.188	7.221	-0.033	1.000	871803	0.8491	Target=4.98	91.3	1255	
498.90 > 98.80	7.188	7.221	-0.033	1.000	185408		4.70(2.49-7.47)		540	
60 PFUnA										
563.10 > 519.00	7.345	7.353	-0.008	1.000	459215	1.04	Target=2.89	104	1327	
563.10 > 269.10	7.345	7.353	-0.008	1.000	135854		3.38(1.45-4.34)		565	
D 59 13C7 PFUnA										
570.00 > 525.10	7.345	7.353	-0.008	1.062	1895030	2.04		102	3168	
61 9ClFOS										
530.80 > 351.00	7.520	7.540	-0.020	1.046	1753460	0.8703	Target=3.11	93.2	12319	
532.80 > 353.00	7.520	7.540	-0.020	1.046	577332		3.04(1.55-4.66)		2563	
62 PFNS										
548.80 > 79.90	7.611	7.637	-0.026	1.059	758085	0.9601	Target=4.37	99.8	2569	
548.80 > 98.80	7.611	7.637	-0.026	1.059	174606		4.34(2.19-6.56)		1094	
63 PFDoA										
613.10 > 569.00	7.760	7.777	-0.017	1.000	452137	0.9728	Target=3.23	97.3	1832	
613.10 > 319.00	7.760	7.777	-0.017	1.000	134332		3.37(1.61-4.84)		1332	
D 82 PFDoA										
615.10 > 570.00	7.760	7.777	-0.017	1.122	1332640	2.04		102	3743	
65 PFOSA										
498.10 > 77.90	7.958	7.951	0.007	1.000	767818	0.9823	Target=44.84	98.2	1549	
498.10 > 478.00	7.958	7.951	0.007	1.000	15618		49.16(22.42-67.27)		29.3	
D 64 13C8 FOSA										
506.10 > 77.80	7.958	7.965	-0.007	1.107	1495232	2.00		100.0	8110	
66 PFDS										
599.00 > 79.90	8.011	8.032	-0.021	1.115	800277	0.9561	Target=4.49	99.2	3849	
599.00 > 98.80	8.011	8.032	-0.021	1.115	173541		4.61(2.24-6.73)		1158	
67 PFTrDA										
663.00 > 619.00	8.147	8.169	-0.022	0.960	538420	1.04	Target=4.04	104	3024	
663.00 > 168.90	8.147	8.169	-0.022	0.960	115388		4.67(2.02-6.05)		657	
68 11ClFOS										
630.90 > 450.90	8.292	8.329	-0.037	1.154	938729	0.8487	Target=2.75	89.9	2905	
632.90 > 452.90	8.292	8.329	-0.037	1.154	336857		2.79(1.37-4.12)		2512	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.491	8.510	-0.019	1.227	956217	1.76		88.0	4165	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
70 PFTeDA										
713.10 > 168.90	8.491	8.510	-0.019	1.000	69828	0.9819	Target=0.87	98.2	984	
713.10 > 219.00	8.491	8.510	-0.019	1.000	77515		0.90(0.44-1.31)		543	
73 PFDoS										
699.10 > 79.90	8.674	8.695	-0.021	1.207	633044	0.8198	Target=4.76	84.5	5065	
699.10 > 98.80	8.674	8.695	-0.021	1.207	126905		4.99(2.38-7.13)		1271	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.744	8.738	0.006	1.217	545437	4.62		92.5	359	
72 N-MeFOSE-M										
616.10 > 58.90	8.758	8.752	0.006	1.002	1005141	4.82		96.4	3329	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.839	8.834	0.005	1.230	391373	1.85		92.6	2647	
75 NMeFOSA										
511.90 > 219.00	8.839	8.834	0.005	1.000	197256	1.01	Target=0.73	101	1221	
511.90 > 169.00	8.839	8.834	0.005	1.000	257225		0.77(0.37-1.10)		937	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.932	8.926	0.006	1.243	703502	4.49		89.8	848	
77 N-EtFOSE-M										
630.00 > 58.90	8.945	8.939	0.006	1.001	1479758	4.99		99.7	6128	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.996	8.991	0.005	1.252	471989	1.84		91.8	3863	
79 N-EtFOSA-M										
526.00 > 219.00	9.009	9.004	0.005	1.001	227258	0.9818	Target=0.85	98.2	1625	
526.00 > 169.00	9.009	9.004	0.005	1.001	276173		0.82(0.43-1.28)		1609	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.253	9.319	-0.066	1.090	953450	3.30	Target=10.32	330	22507	
913.00 > 169.00	9.253	9.319	-0.066	1.090	62534		15.25(5.16-15.48)		3037	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL4_00083 Amount Added: 1.00 Units: mL

Report Date: 03-Feb-2026 08:03:54 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26feb02PC-41.d

Injection Date: 02-Feb-2026 19:39:41 Instrument ID: 30576

Lims ID: CCV 4_CAL4

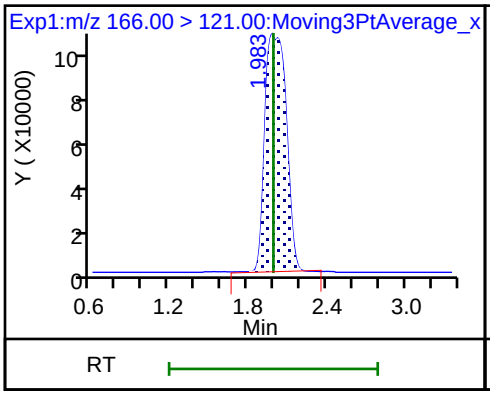
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Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 5 Worklist Smp#: 37

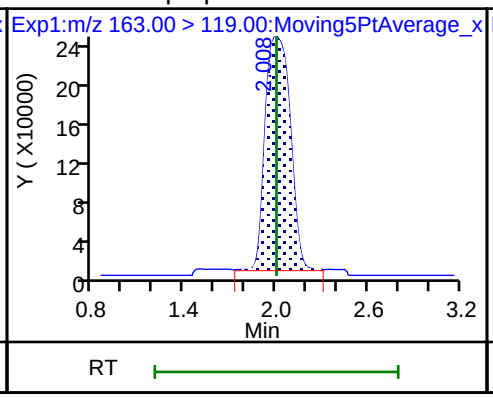
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

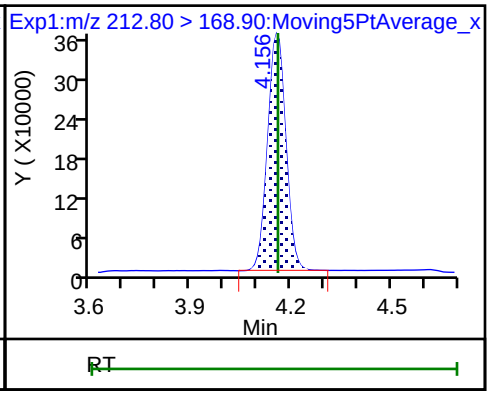
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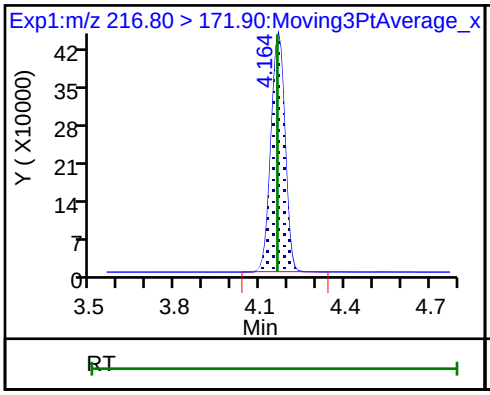
2 Perfluoropropionic acid



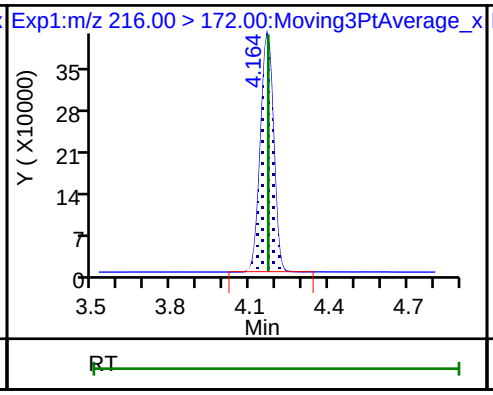
5 PFBA



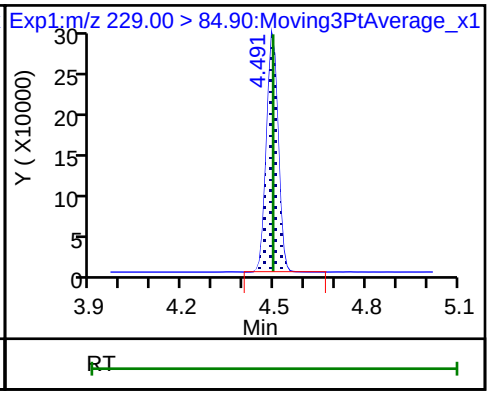
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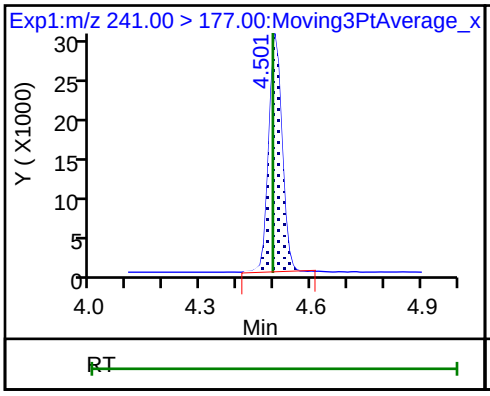
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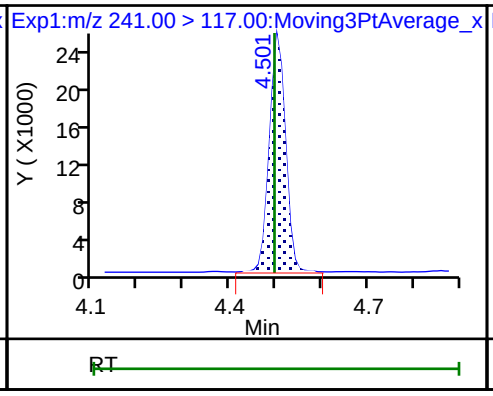
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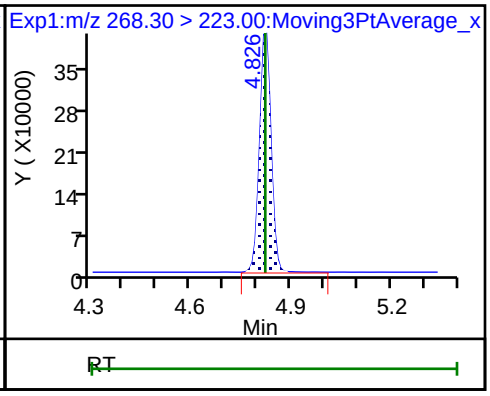
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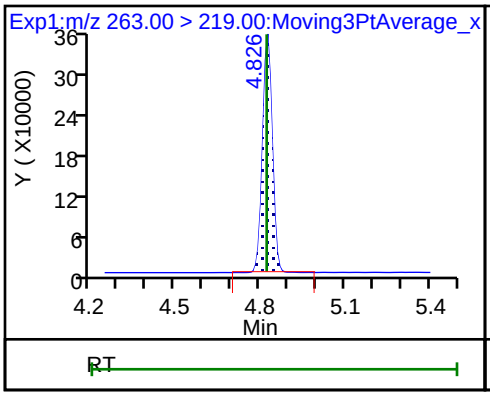
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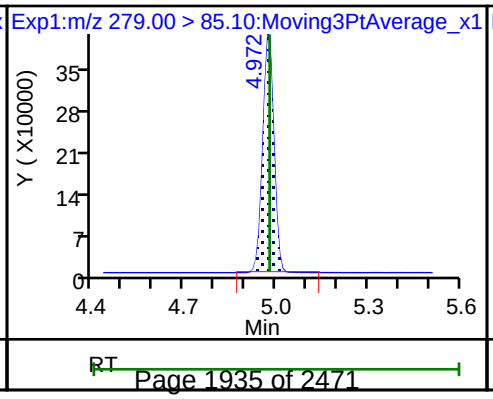
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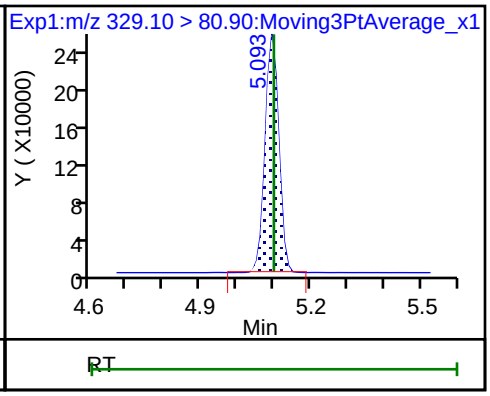
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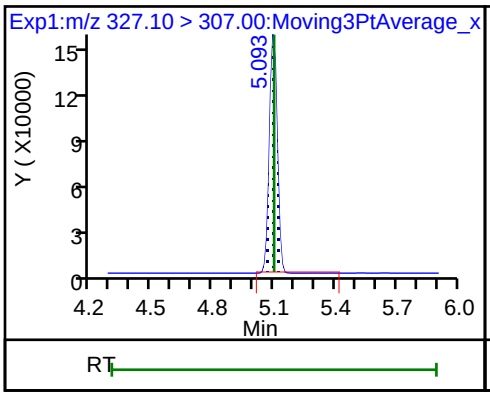
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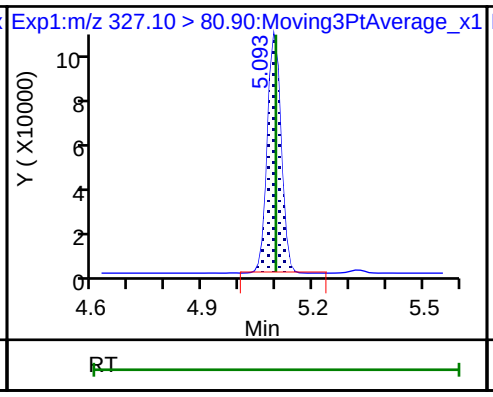
D 11 13C2-4:2FTS



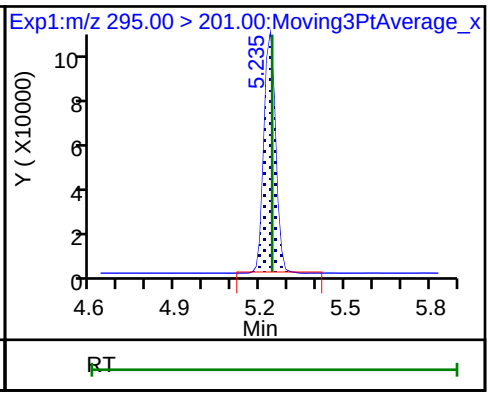
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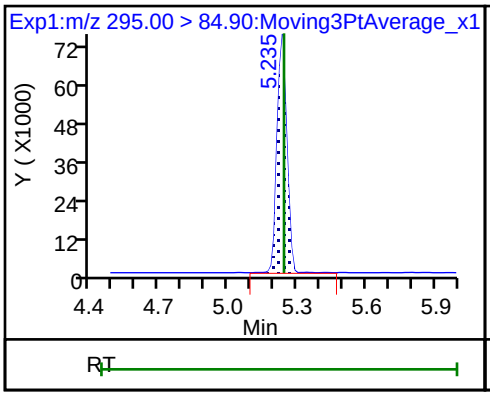
12 4:2FTS



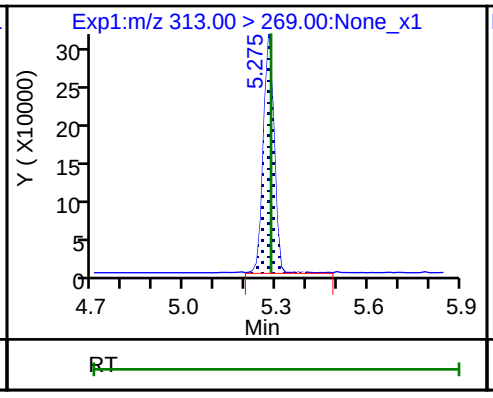
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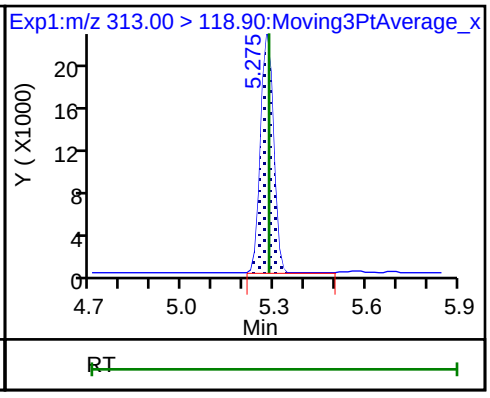
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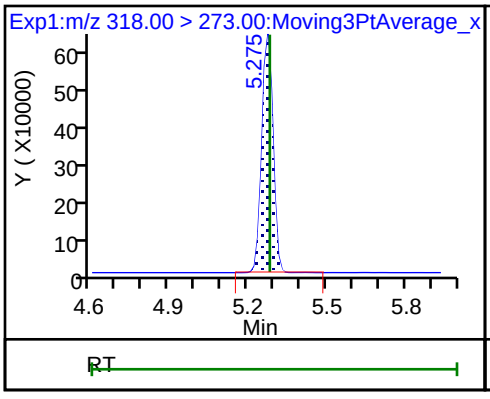
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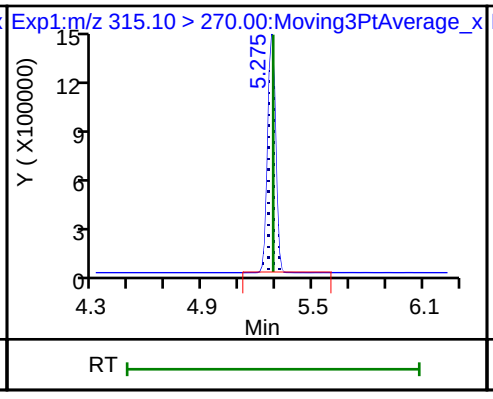
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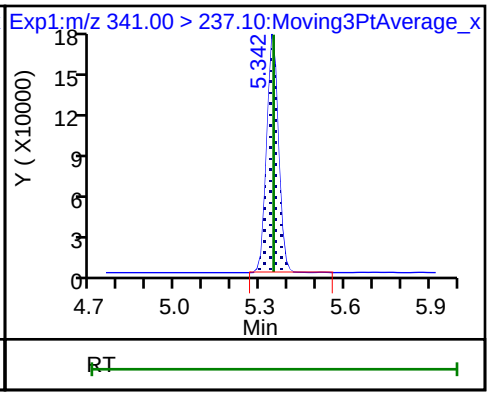
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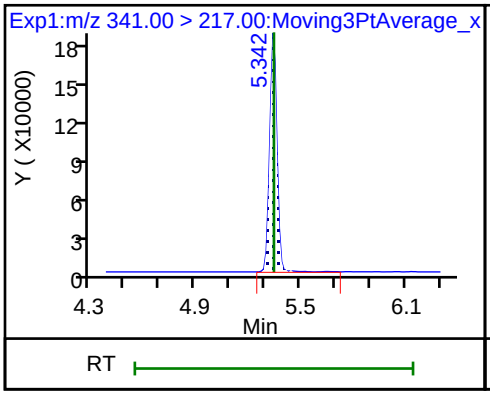
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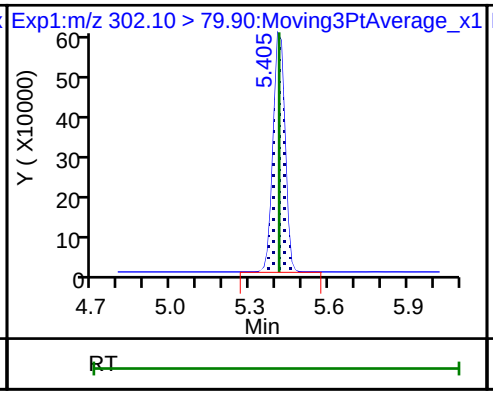
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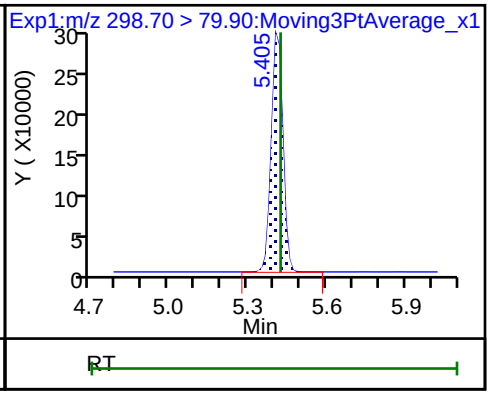
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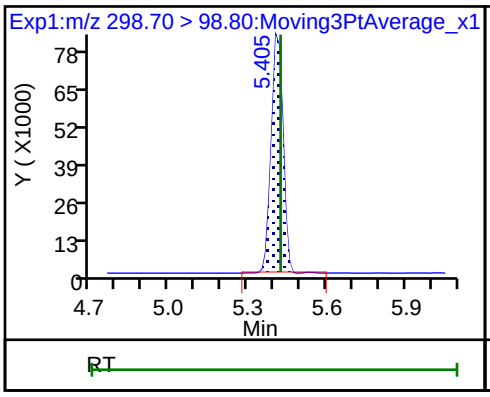
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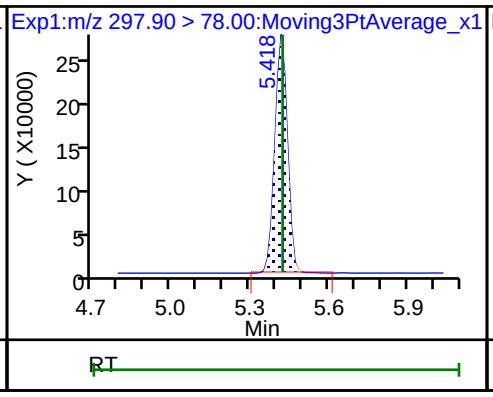
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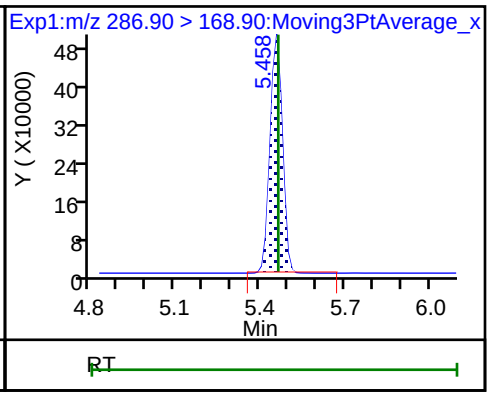
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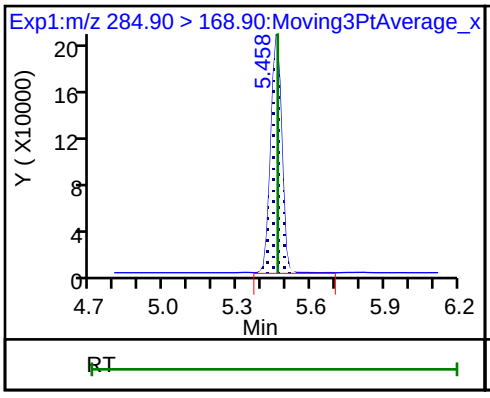
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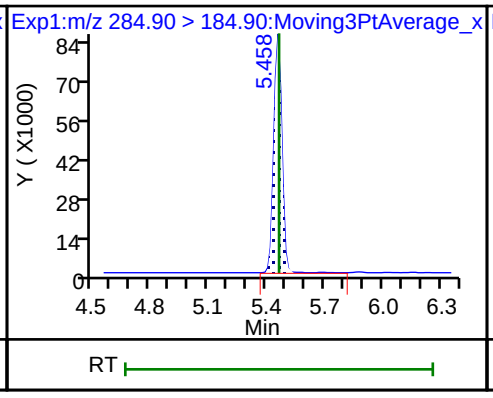
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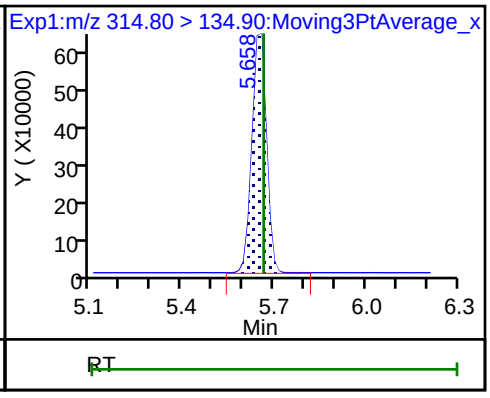
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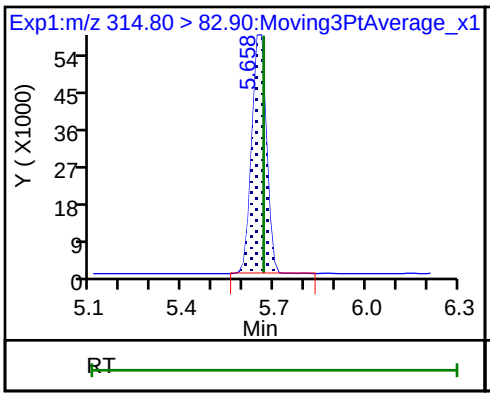
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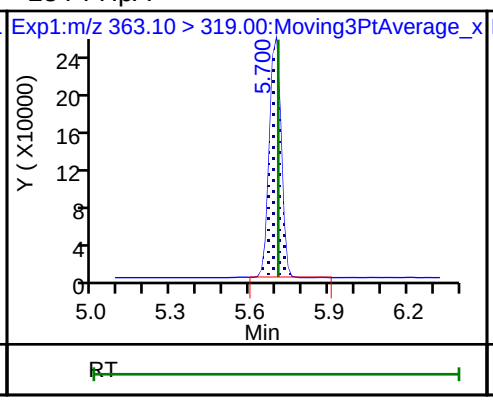
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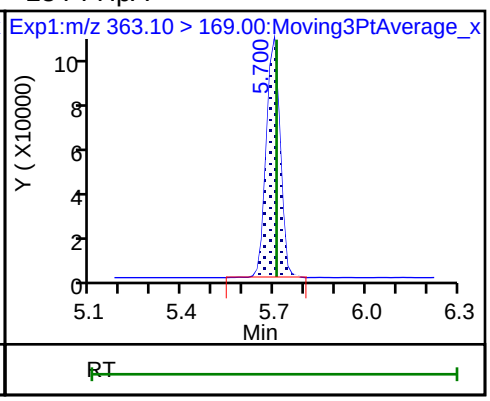
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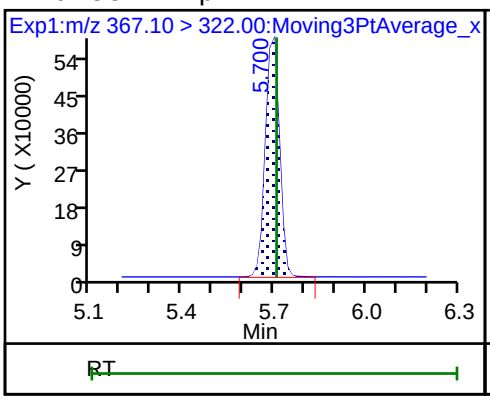
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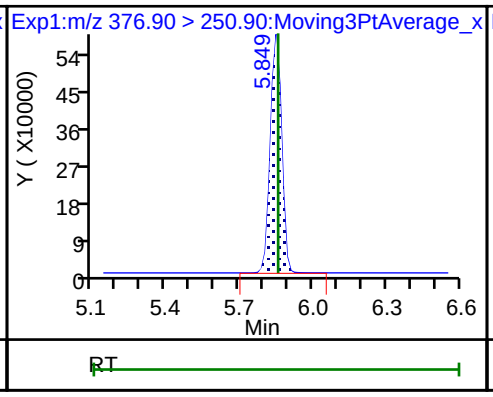
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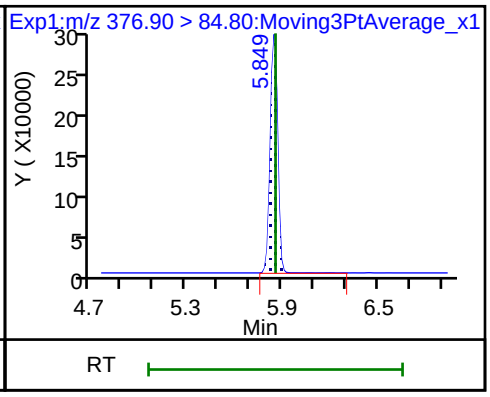
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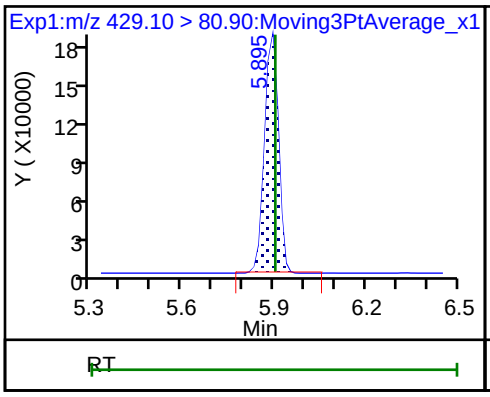
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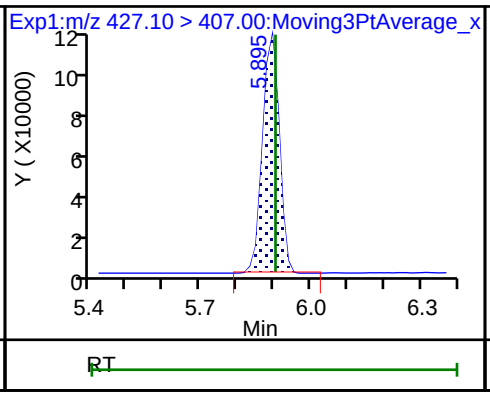
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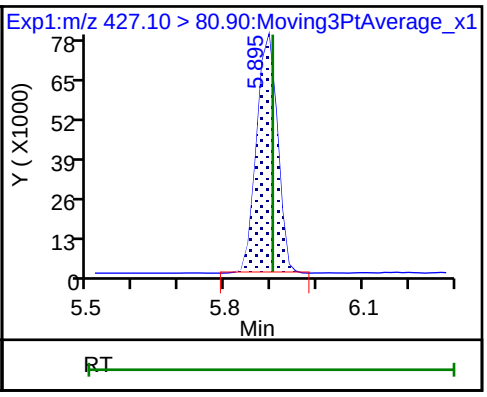
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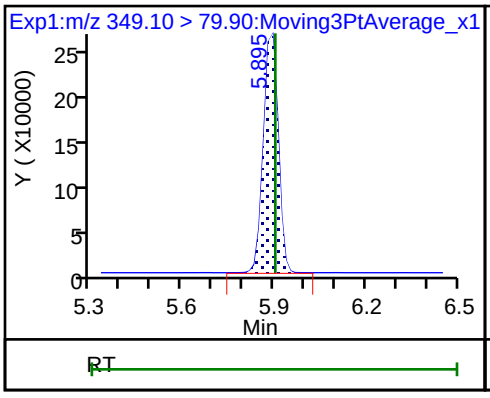
32 6:2FTS



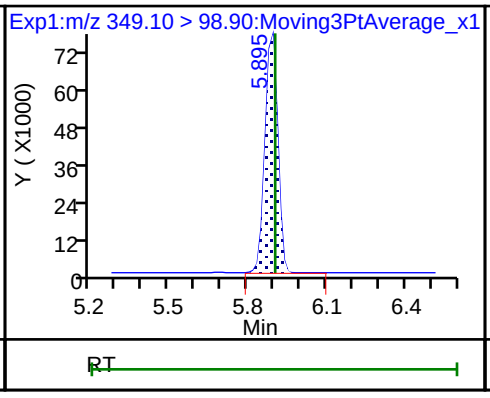
32 6:2FTS



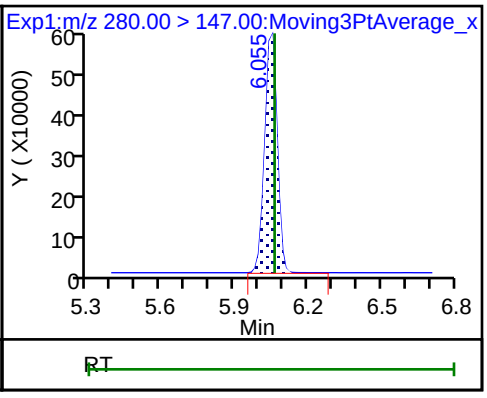
29 PFPeS



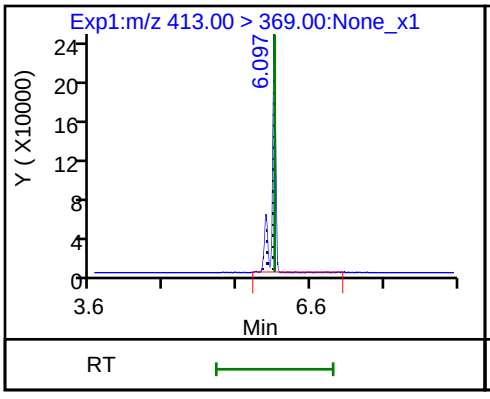
29 PFPeS



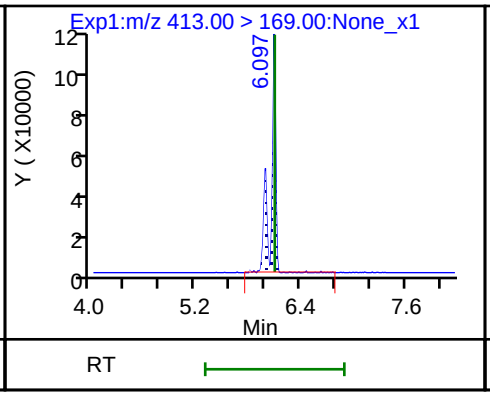
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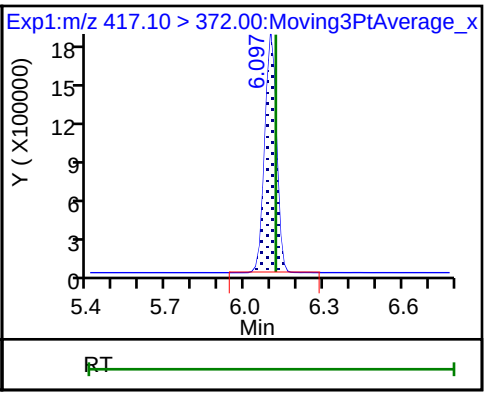
36 PFOA



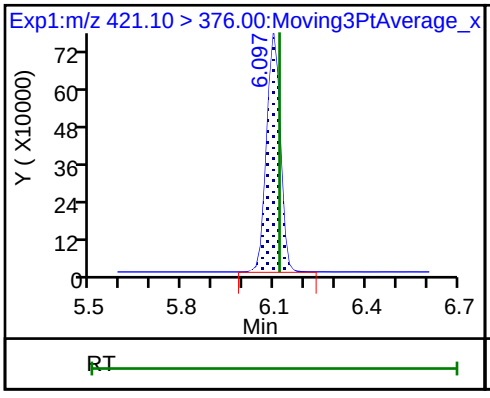
36 PFOA



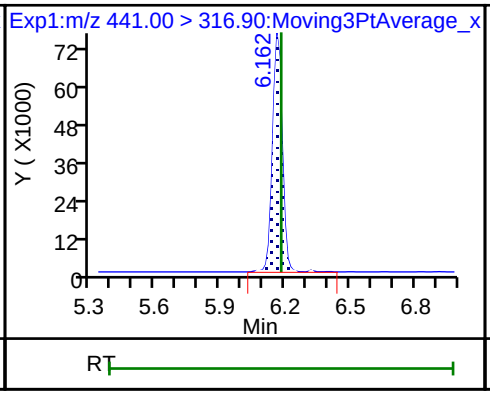
* 35 13C4 PFOA



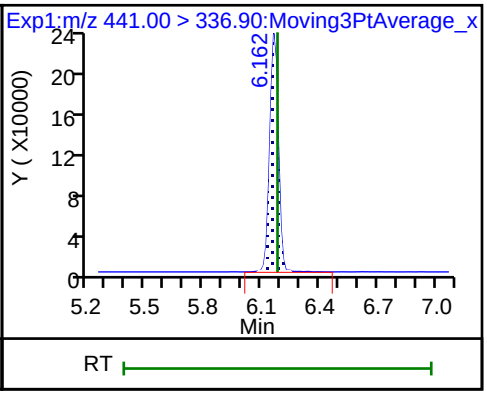
D 34 13C8 PFOA



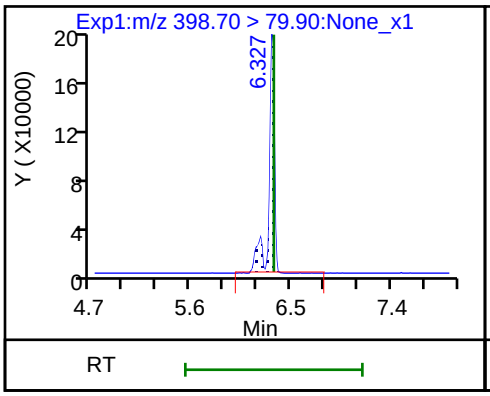
39 7:3 FTCA



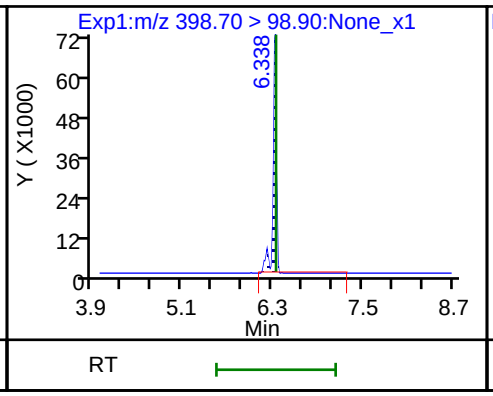
39 7:3 FTCA



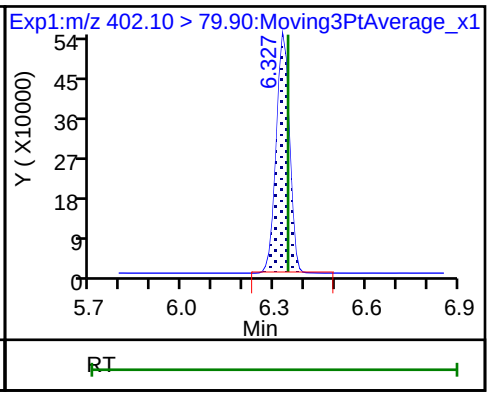
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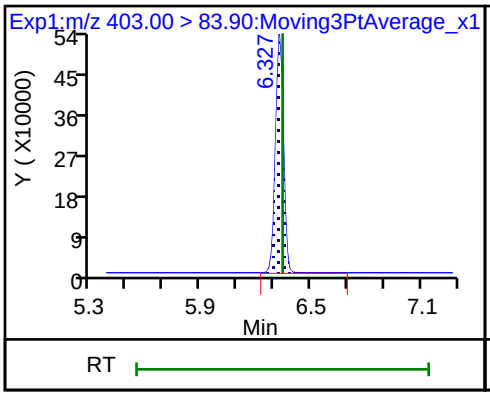
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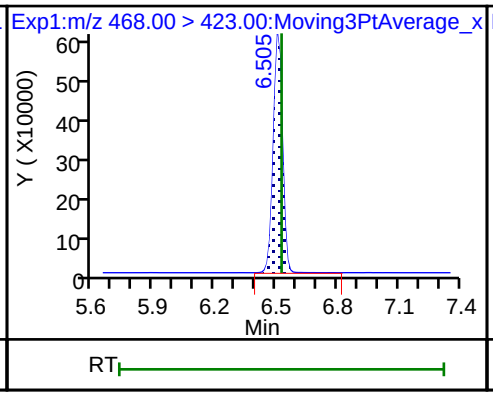
D 38 13C3 PFHxS



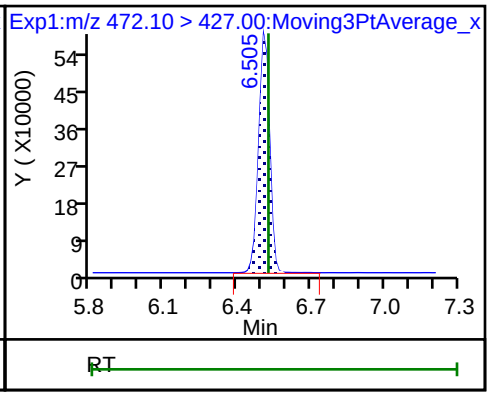
* 37 18O2 PFHxS



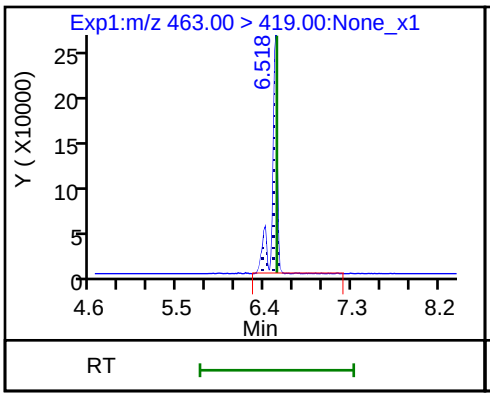
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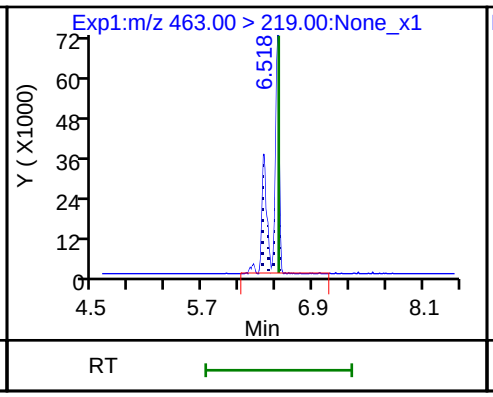
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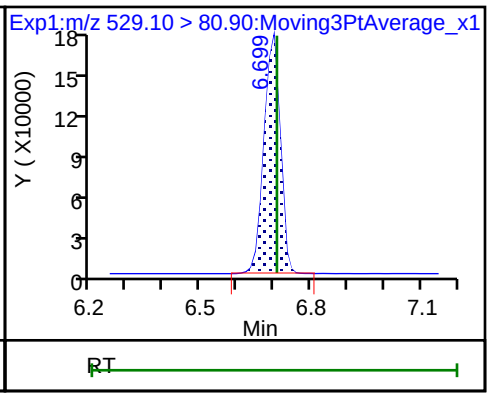
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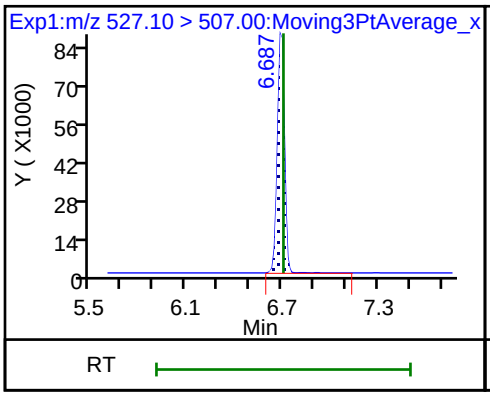
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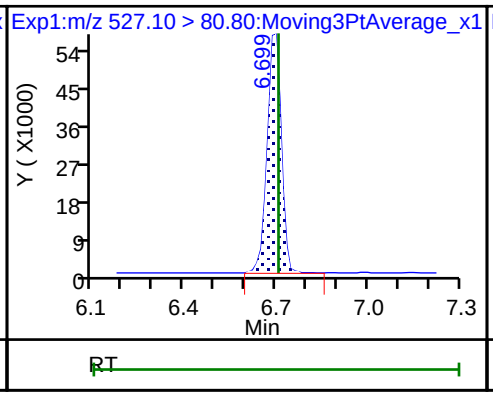
D 45 13C2-8:2FTS



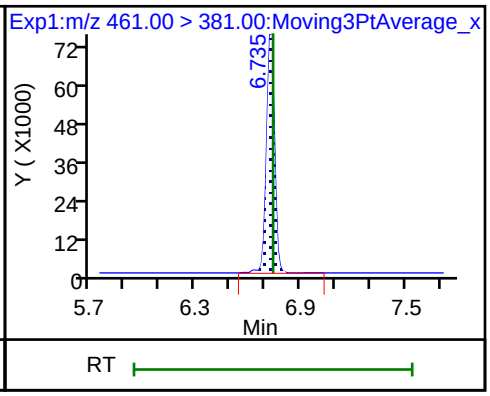
46 8:2FTS



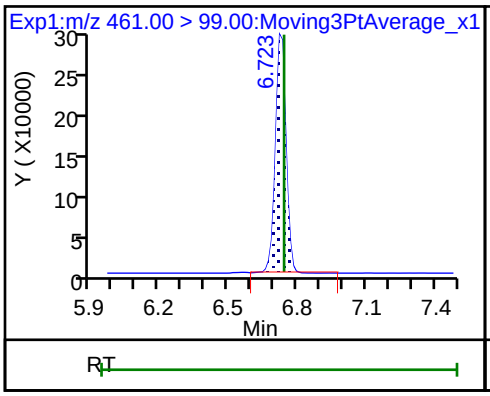
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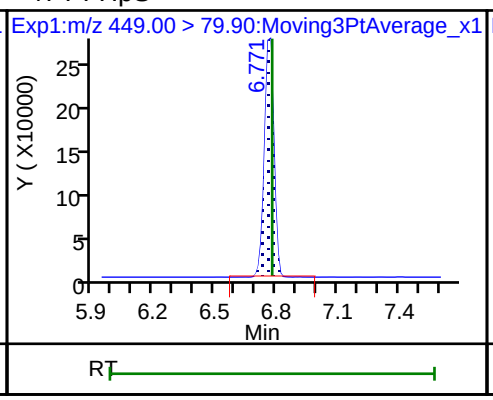
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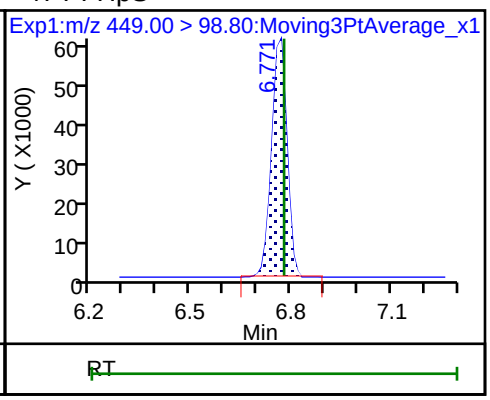
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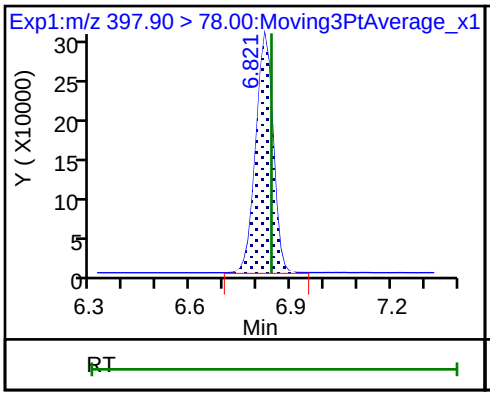
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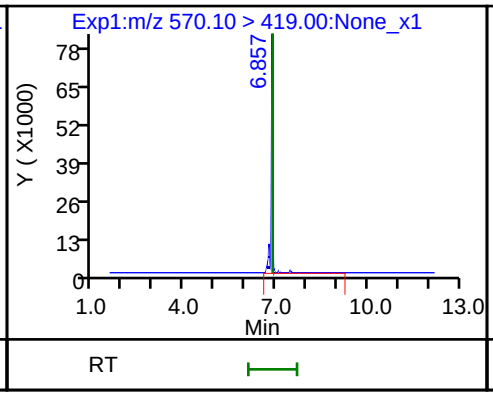
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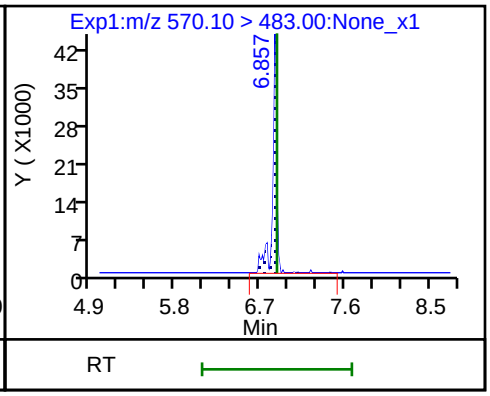
48 FHxSA



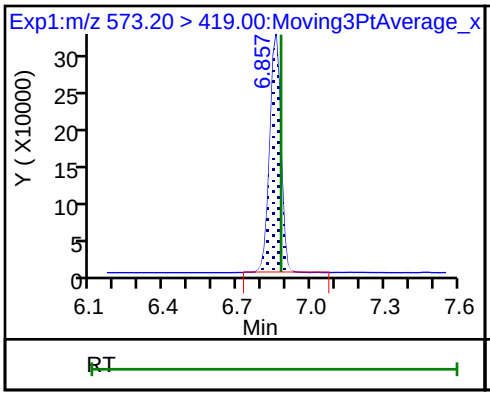
50 NMeFOSAA



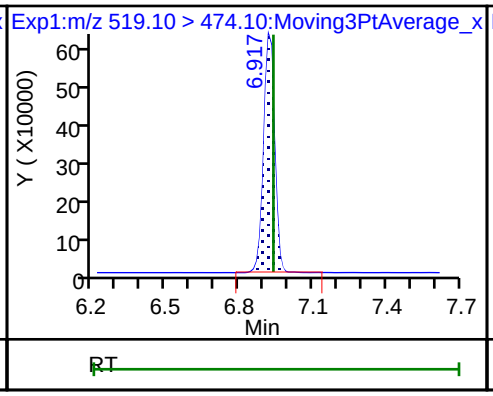
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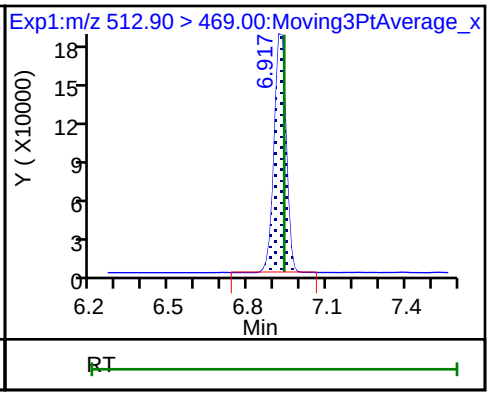
D 49 d3-NMeFOSAA



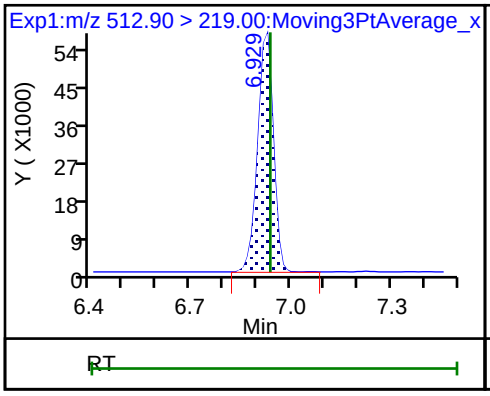
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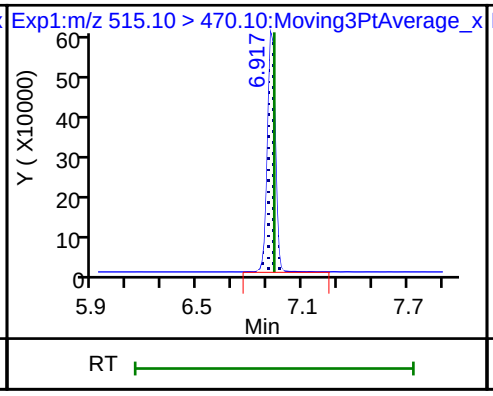
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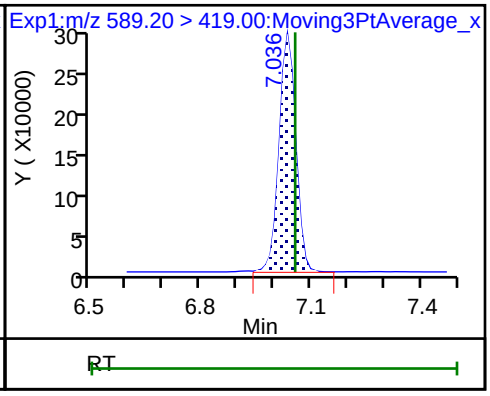
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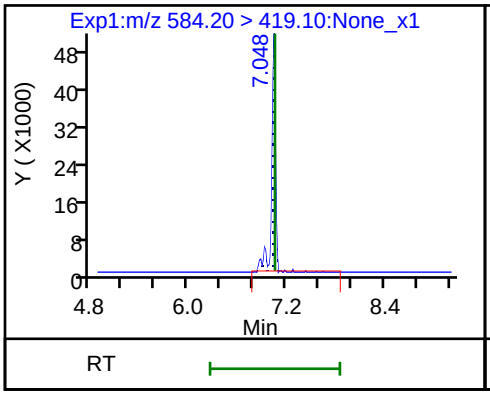
* 52 13C2 PFDA



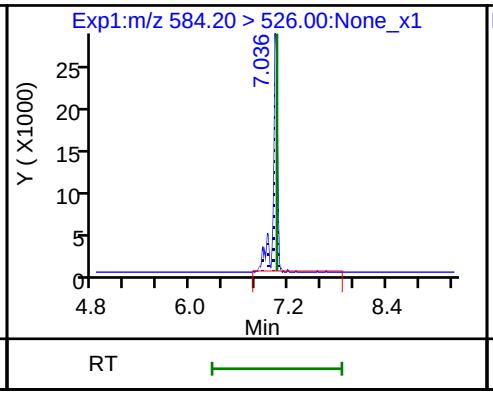
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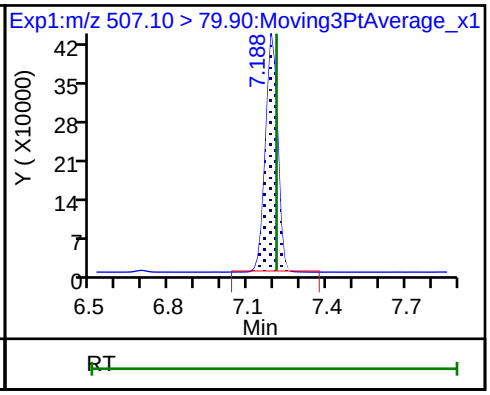
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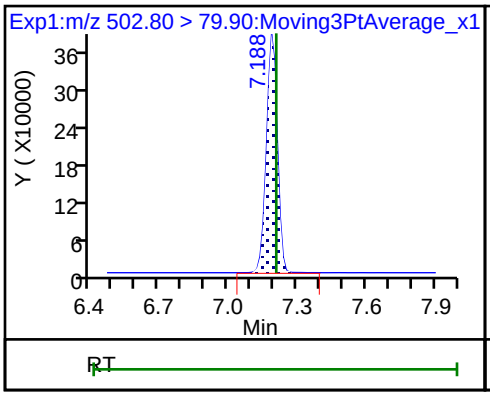
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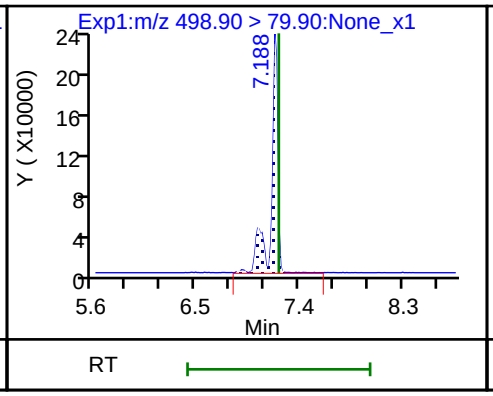
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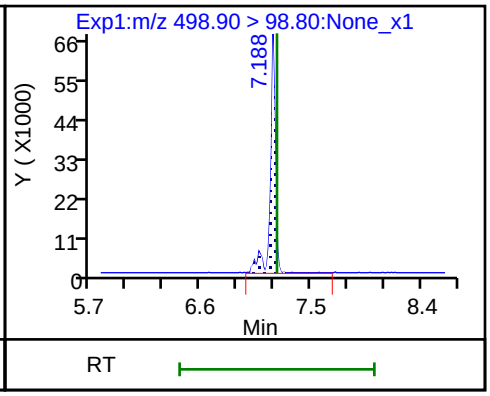
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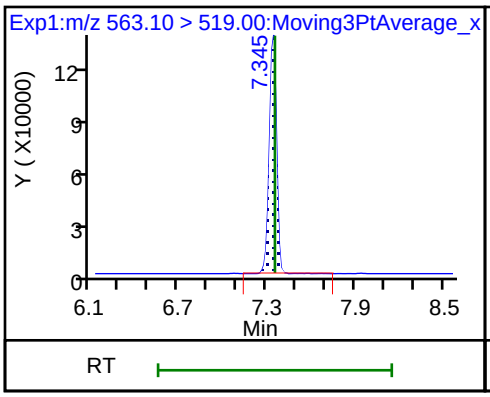
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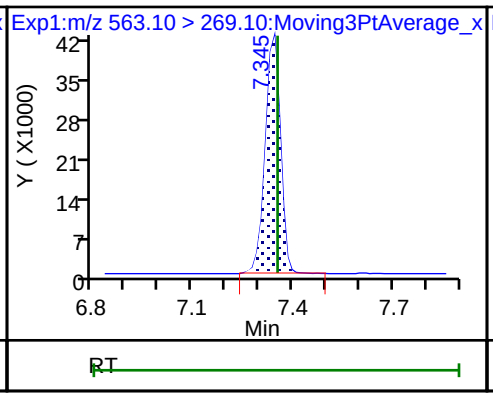
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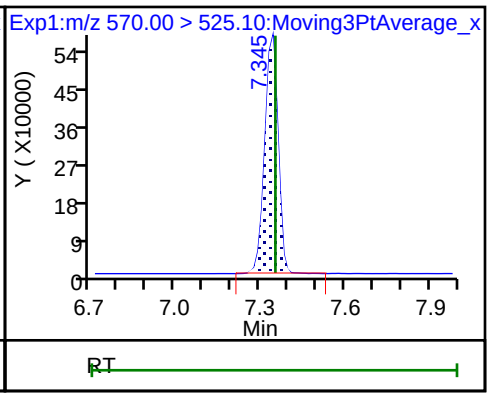
60 PFUnA



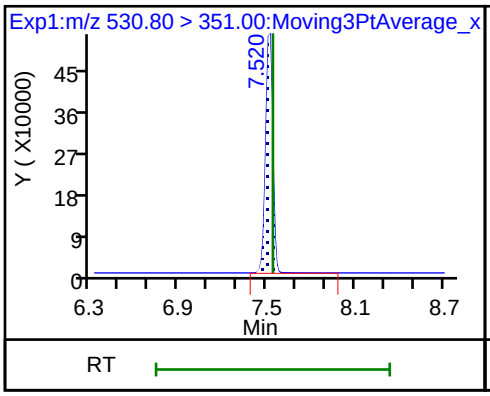
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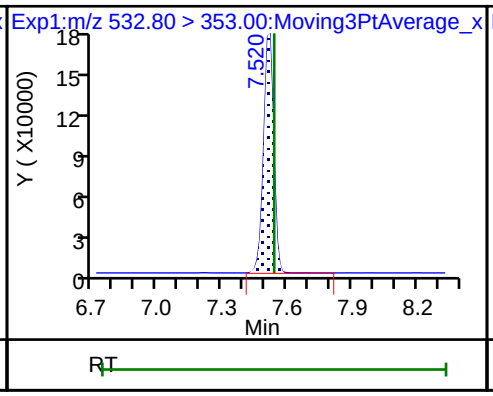
D 59 13C7 PFUnA



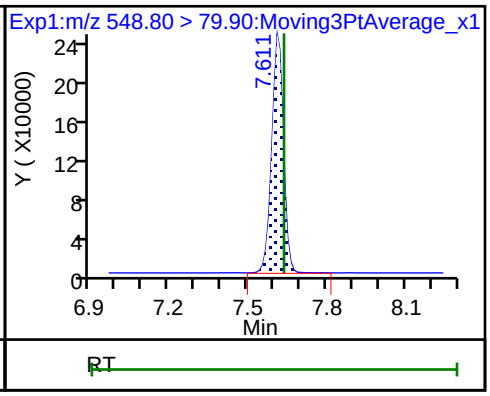
61 9ClFOS



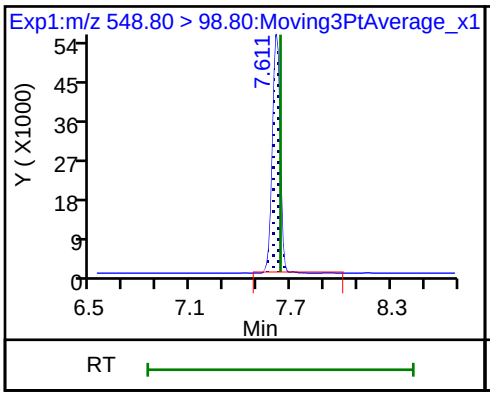
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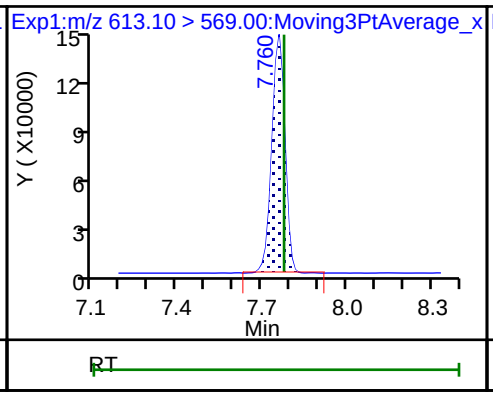
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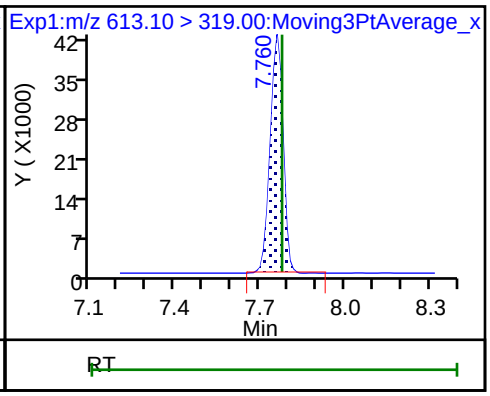
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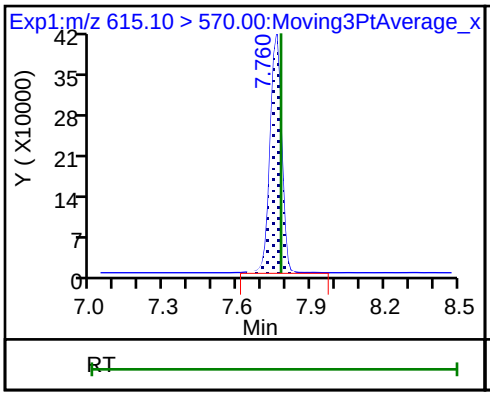
63 PFDoA



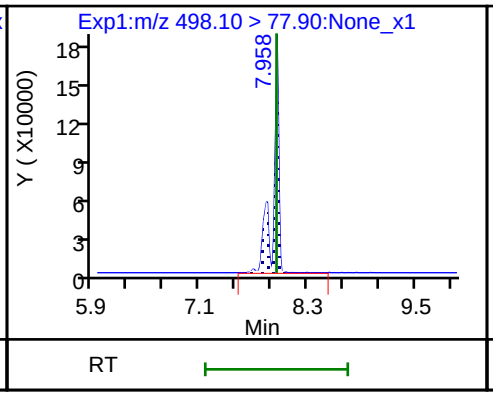
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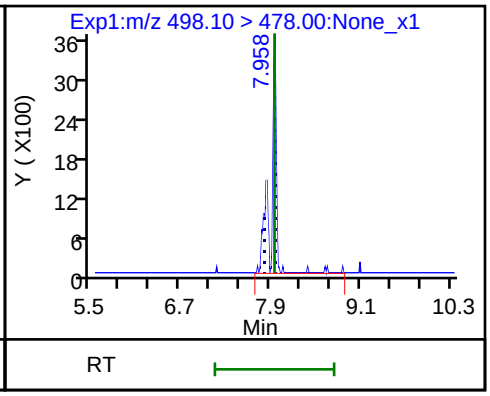
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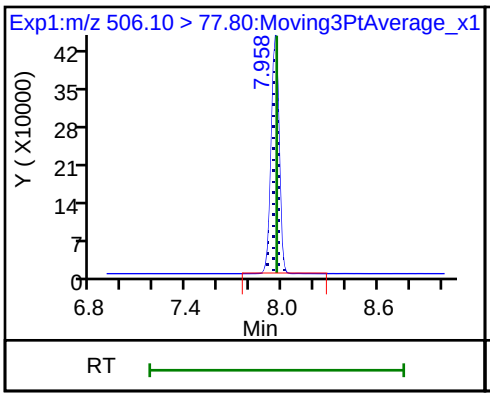
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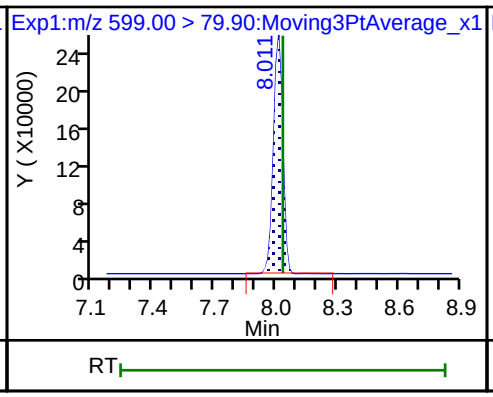
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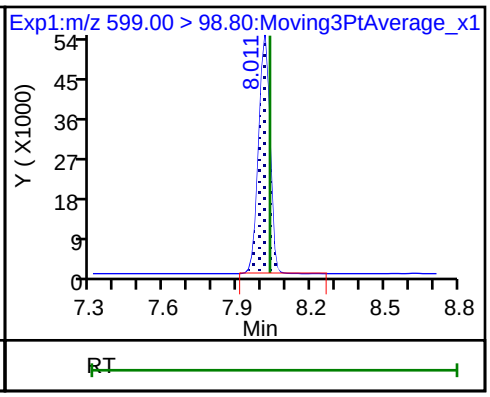
D 64 13C8 FOSA



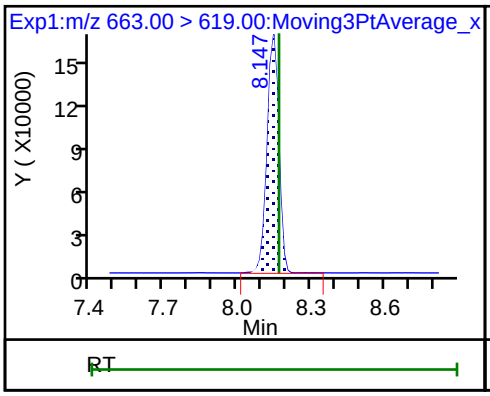
66 PFDS



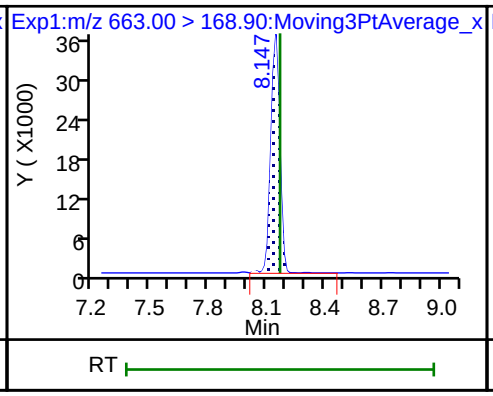
66 PFDS



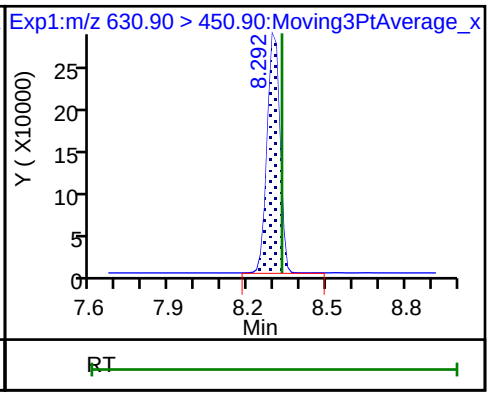
67 PFTrDA



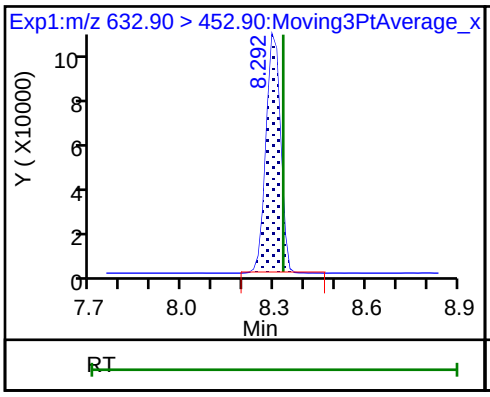
67 PFTrDA



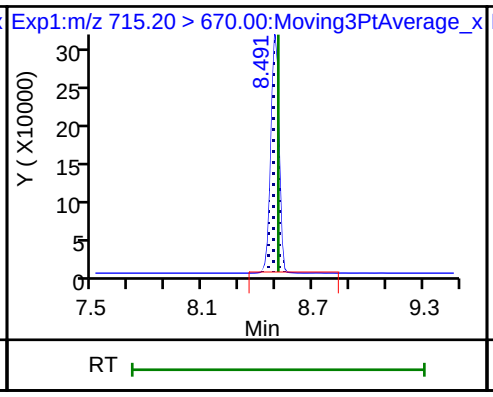
68 11ClFOS



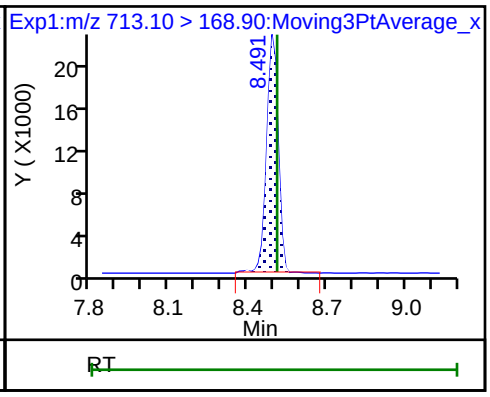
68 11ClFOS



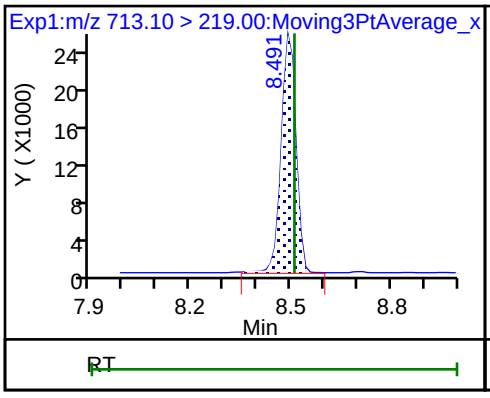
D 69 13C2 PFTeDA



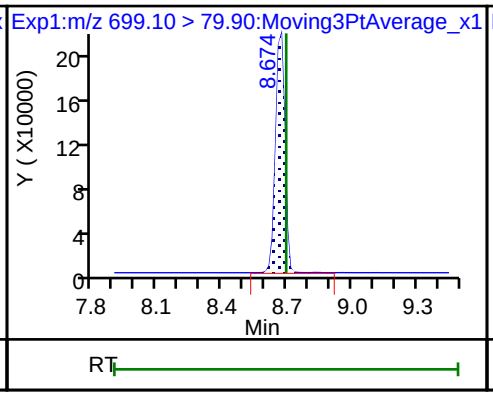
70 PFTeDA



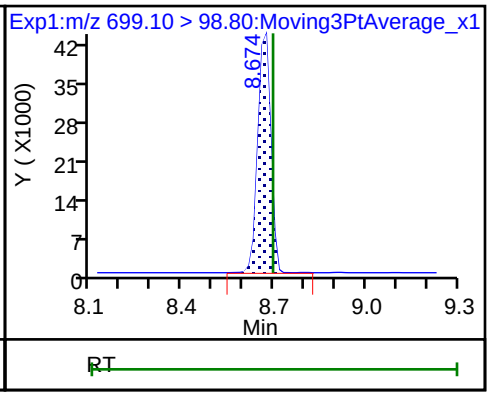
70 PFTeDA



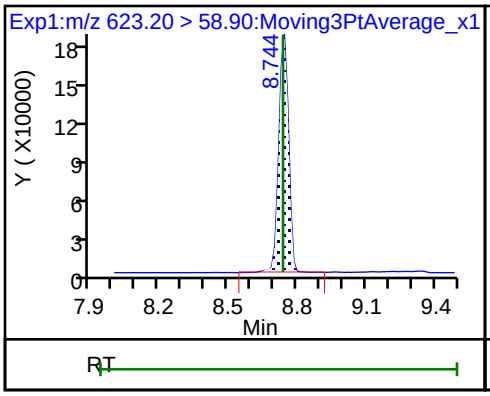
73 PFDoS



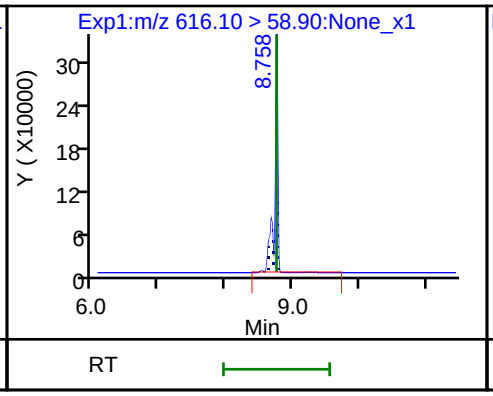
73 PFDoS



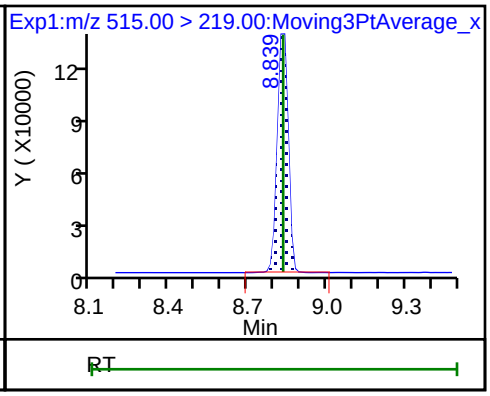
D 71 d7-N-Me-FOSE



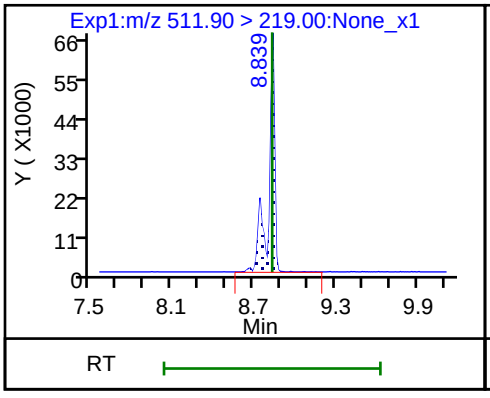
72 N-MeFOSE-M



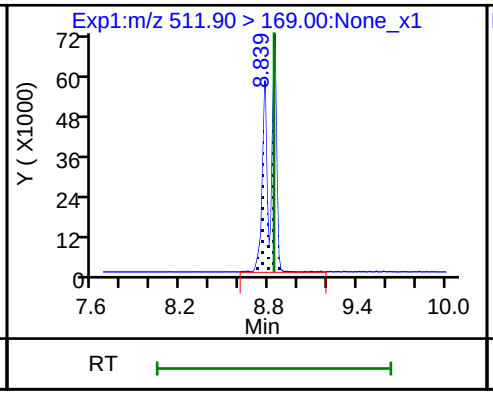
D 74 d3-NMePFOSA



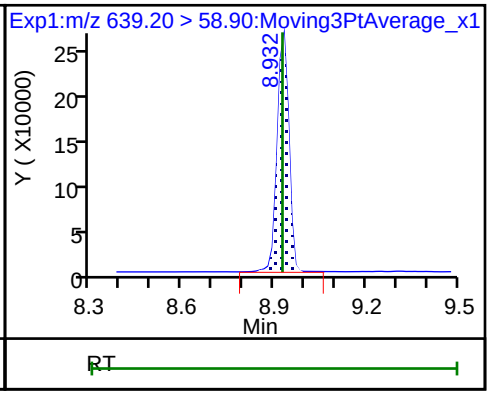
75 NMeFOSA



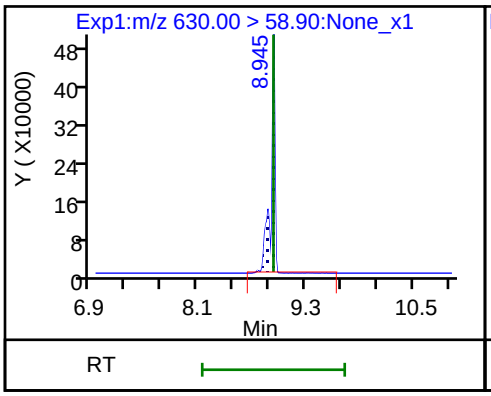
75 NMeFOSA



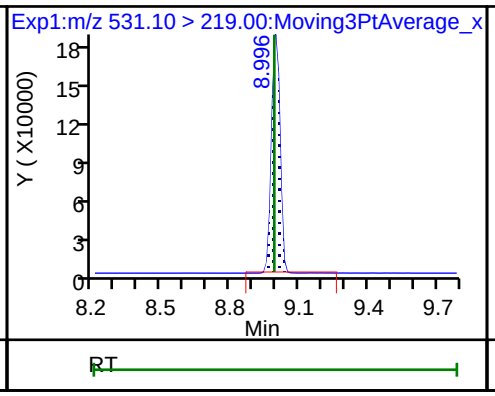
D 76 d9-N-EtFOSE



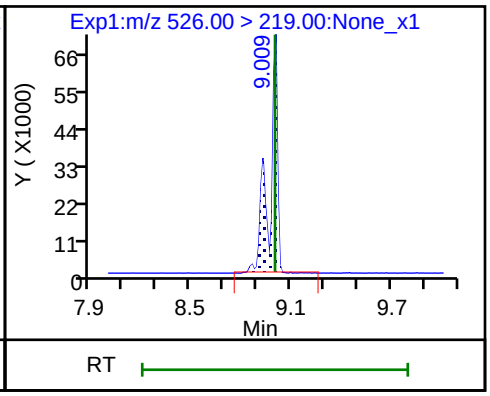
77 N-EtFOSE-M



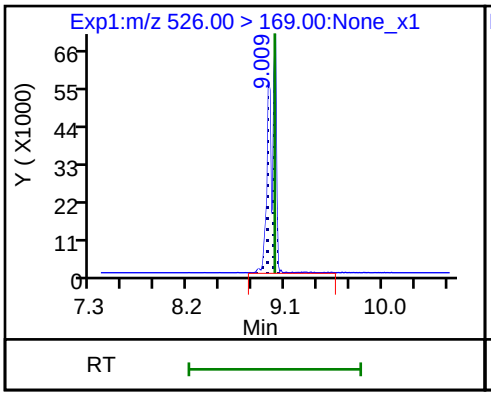
D 78 d5-NEtPFOSA



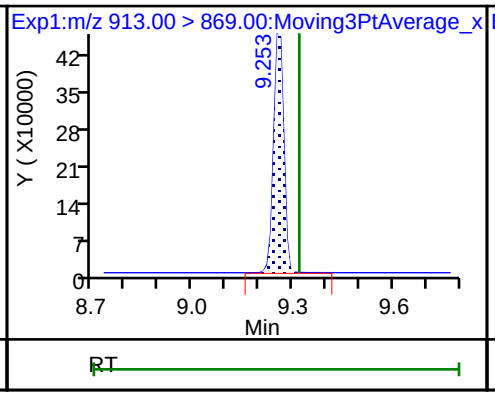
79 N-EtFOSA-M



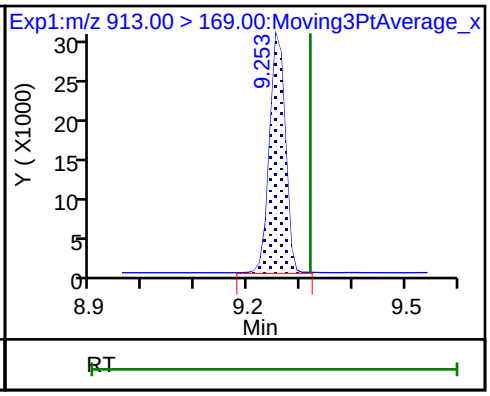
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-763219/64 Calibration Date: 02/03/2026 00:40

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26Feb02n-15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9142	0.9163		5.01	5.00	0.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9144	0.9225		2.02	2.00	1.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.669	1.576		0.944	1.00	-6.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0907	0.0767		1.69	2.00	-15.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.858	1.798		0.968	1.00	-3.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	2.124	2.044		0.962	1.00	-4.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.664	1.730		1.95	1.88	4.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.3510	0.3257		0.928	1.00	-7.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8632	0.8329		0.965	1.00	-4.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1115	0.0972		4.36	5.00	-13.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	1.054	0.9212		0.874	1.00	-13.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.053	1.049		0.884	0.888	0.0	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	0.996	1.121		0.844	0.750	13.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.632	2.606		0.883	0.892	-1.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.8410	0.9164		1.09	1.00	9.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	2.382	2.461		0.977	0.946	3.0	30.0
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	AveID	1.657	1.713		1.97	1.90	3.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.113	1.052		0.889	0.940	-5.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.599	2.449		0.923	0.979	-6.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.6364	0.6150		0.966	1.00	-3.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.0574	0.0545		4.75	5.00	-5.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	0.8632	0.8163		0.862	0.912	-5.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.9670	0.9681		1.00	1.00	0.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.334	1.271		1.83	1.92	-5.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.3009	0.2892		0.888	0.924	-4.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.265	1.201		0.906	0.954	-5.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.386	1.242		0.896	1.00	-10.0	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	1.157	1.218		1.05	1.00	5.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-763219/64 Calibration Date: 02/03/2026 00:40

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26Feb02n-15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.6423	0.6093		0.949	1.00	-5.0	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7976	0.8123		1.02	1.00	2.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.415	1.286		0.846	0.930	-9.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.4646	0.5055		1.09	1.00	9.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.776	2.466		0.829	0.934	-11.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.088	1.018		0.900	0.962	-6.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.6975	0.7538		1.08	1.00	8.0	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.046	1.025		0.980	1.00	-2.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.153	1.018		0.851	0.964	-12.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	0.9006	0.8480		0.942	1.00	-6.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	1.524	1.364		0.845	0.944	-10.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1487	0.1471		0.989	1.00	-1.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.064	0.8467		0.772	0.970	-20.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	1.913	1.862		4.87	5.00	-3.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	0.995	1.045		1.05	1.00	5.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	2.110	2.106		4.99	5.00	0.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.9808	0.9652		0.984	1.00	-2.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6043	1.940		3.21	1.00	221.0*	30.0
13C3-PFPrA	Ave	0.8660	0.8556		1.98	2.00	-1.0	30.0
13C4 PFBA	Ave	1.045	1.048		2.00	2.00	0.0	30.0
13C5 PFPeA	Ave	0.5814	0.5859		2.02	2.00	1.0	30.0
13C2 4:2 FTS	Ave	0.1525	0.1537		4.72	4.69	1.0	30.0
13C5 PFHxA	Ave	1.143	1.150		2.01	2.00	1.0	30.0
13C3 PFBS	Ave	1.125	1.208		2.00	1.86	7.0	30.0
13C3 HFPO-DA	Ave	0.9887	0.9505		1.92	2.00	-4.0	30.0
13C4 PFHpA	Ave	1.127	1.145		2.03	2.00	2.0	30.0
13C2 6:2 FTS	Ave	0.1256	0.1333		5.05	4.76	6.0	30.0
13C8 PFOA	Ave	1.000	1.018		2.03	2.00	2.0	30.0
13C3 PFHxS	Ave	1.027	1.084		2.00	1.90	6.0	30.0
13C9 PFNA	Ave	0.9366	0.9751		2.08	2.00	4.0	30.0
13C2 8:2 FTS	Ave	0.1198	0.1227		4.92	4.80	2.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-763219/64 Calibration Date: 02/03/2026 00:40

Instrument ID: 30576 Calib Start Date: 01/29/2026 00:38

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 01/29/2026 02:14

Lab File ID: 26Feb02n-15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d3-NMeFOSAA	Ave	0.2975	0.2847		4.78	5.00	-4.0	30.0
13C6 PFDA	Ave	1.011	1.002		1.98	2.00	-1.0	30.0
d5-NEtFOSAA	Ave	0.2572	0.2558		4.97	5.00	-1.0	30.0
13C8 PFOS	Ave	1.015	1.134		2.14	1.92	12.0	30.0
13C7 PFUnA	Ave	1.008	1.063		2.11	2.00	5.0	30.0
13C2 PFDoA	Ave	0.7103	0.7533		2.12	2.00	6.0	30.0
13C8 FOSA	Ave	1.138	1.107		1.95	2.00	-3.0	30.0
13C2 PFTeDA	Ave	0.5894	0.5161		1.75	2.00	-12.0	30.0
d7-N-MeFOSE-M	Ave	0.1795	0.1590		4.43	5.00	-11.0	30.0
d3-NMePFOSA	Ave	0.3214	0.2827		1.76	2.00	-12.0	30.0
d9-N-EtFOSE-M	Ave	0.2384	0.2070		4.34	5.00	-13.0	30.0
d5-NEtPFOSA	Ave	0.3912	0.3394		1.74	2.00	-13.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-15.d
Lims ID: CCV 5_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 03-Feb-2026 00:40:29 ALS Bottle#: 5 Worklist Smp#: 64
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCV 5_CAL4
Misc. Info.: Plate: 1 Rack: 1 410-0174324-064
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576
Sublist: chrom-30576-1633-125ml*sub11

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 03-Feb-2026 11:40:23 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1674

First Level Reviewer: VGQ7 Date: 03-Feb-2026 07:22:21
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.984	1.992	-0.008	0.476	1229110	1.98		98.8	499	
2 Perfluoropropionic acid										
163.00 > 119.00	1.984	2.001	-0.017	1.000	2815648	5.01		100	4131	
5 PFBA										
212.80 > 168.90	4.156	4.161	-0.005	1.000	1388385	2.02		101	5007	
D 3 13C4-PFBA										
216.80 > 171.90	4.156	4.161	-0.005	0.998	1505089	2.00		100	4963	
* 4 13C3PFBA										
216.00 > 172.00	4.164	4.169	-0.005		1436515	2.00			1245	
6 PFMPA										
229.00 > 84.90	4.491	4.496	-0.005	0.932	786138	0.9443		94.4	3430	
7 3:3 FTCA										
241.00 > 177.00	4.501	4.496	0.005	0.934	76489	1.69	Target=1.24	84.6	1345	
241.00 > 117.00	4.501	4.496	0.005	0.934	62006		1.23(0.62-1.86)		436	
D 8 13C5 PFPeA										
268.30 > 223.00	4.817	4.822	-0.005	0.913	997482	2.02		101	5111	
9 PFPA										
263.00 > 219.00	4.817	4.822	-0.005	1.000	896932	0.9677		96.8	1218	
10 PFMBA										
279.00 > 85.10	4.971	4.978	-0.007	1.032	1019448	0.9625		96.2	6026	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.092	5.099	-0.006	0.805	593268	4.72		101	3682	
12 4:2FTS										
327.10 > 307.00	5.092	5.099	-0.006	1.000	410517	1.95	Target=1.50	104	4380	
327.10 > 80.90	5.092	5.099	-0.006	1.000	274418		1.50(0.75-2.24)		2076	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.234	5.242	-0.008	0.992	318930	0.9281	Target=1.53	92.8	1623	
295.00 > 84.90	5.234	5.242	-0.008	0.992	228520		1.40(0.76-2.29)		1527	
17 PFHxA										
313.00 > 269.00	5.274	5.282	-0.008	1.000	815476	0.9649	Target=12.38	96.5	1508	
313.00 > 118.90	5.274	5.282	-0.008	1.000	75769		10.76(6.19-18.57)		271	
D 15 13C5 PFHxA										
318.00 > 273.00	5.274	5.282	-0.008	1.000	1958163	2.01		101	5496	
* 16 13C2 PFHxA										
315.10 > 270.00	5.274	5.282	-0.008		4256358	5.00			7899	
20 5:3 FTCA										
341.00 > 237.10	5.340	5.347	-0.007	1.013	475935	4.36	Target=0.84	87.2	2986	
341.00 > 217.00	5.340	5.347	-0.007	1.013	592549		0.80(0.42-1.25)		1130	
D 18 13C3 PFBS										
302.10 > 79.90	5.404	5.410	-0.006	0.854	1853017	2.00		107	9780	
19 PFBS										
298.70 > 79.90	5.417	5.424	-0.007	1.002	925856	0.8844	Target=3.07	99.6	3403	
298.70 > 98.80	5.417	5.424	-0.007	1.002	312631		2.96(1.54-4.61)		1514	
25 FBSA										
297.90 > 78.00	5.417	5.424	-0.007	1.002	915775	0.8741		87.4	2075	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.457	5.464	-0.007	1.035	1618260	1.92		96.1	5542	
22 HFPO-DA										
284.90 > 168.90	5.457	5.464	-0.007	1.000	680064	0.8438	Target=2.35	113	2997	
284.90 > 184.90	5.457	5.464	-0.007	1.000	257148		2.64(1.17-3.52)		1088	
24 PFEESA										
314.80 > 134.90	5.656	5.665	-0.009	1.073	2276347	0.8835	Target=11.61	99.0	6610	
314.80 > 82.90	5.656	5.665	-0.009	1.073	193869		11.74(5.81-17.42)		1012	
28 PFHpA										
363.10 > 319.00	5.698	5.707	-0.009	1.000	892919	1.09	Target=2.31	109	1587	
363.10 > 169.00	5.698	5.707	-0.009	1.000	330435		2.70(1.16-3.47)		879	
D 26 13C4 PFHpA										
367.10 > 322.00	5.698	5.707	-0.009	1.080	1948712	2.03		102	5139	
30 ADONA										
376.90 > 250.90	5.847	5.857	-0.010	1.071	1883576	0.9771	Target=1.93	103	11495	
376.90 > 84.80	5.847	5.857	-0.010	1.071	908664		2.07(0.97-2.90)		3681	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.892	5.903	-0.011	0.931	522355	5.05		106	3316	
32 6:2FTS										
427.10 > 407.00	5.892	5.903	-0.011	1.000	357946	1.97	Target=1.49	103	369	
427.10 > 80.90	5.892	5.903	-0.011	1.000	235280		1.52(0.75-2.24)		420	
29 PFPeS										
349.10 > 79.90	5.892	5.903	-0.011	0.931	881981	0.8886	Target=3.10	94.5	2486	
349.10 > 98.90	5.892	5.903	-0.011	0.931	297943		2.96(1.55-4.65)		1262	
33 BTS										
280.00 > 147.00	6.054	6.063	-0.009	0.957	2139150	0.9225		94.2	8836	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.096	6.104	-0.008	1.000	760975	0.9664	Target=1.86	96.6	805	
413.00 > 169.00	6.096	6.104	-0.008	1.000	401481		1.90(0.93-2.79)		416	
* 35 13C4 PFOA										
417.10 > 372.00	6.096	6.117	-0.021		6080435	5.00			12875	
D 34 13C8 PFOA										
421.10 > 376.00	6.096	6.117	-0.021	1.000	2474790	2.03		102	7198	
39 7:3 FTCA										
441.00 > 316.90	6.174	6.182	-0.008	1.171	266963	4.75	Target=0.34	94.9	1486	
441.00 > 336.90	6.161	6.182	-0.021	1.168	725636		0.37(0.17-0.51)		1525	
40 PFHxS										
398.70 > 79.90	6.327	6.345	-0.018	1.000	664118	0.8624	Target=3.30	94.6	1142	
398.70 > 98.90	6.327	6.345	-0.018	1.000	197006		3.37(1.65-4.96)		440	
D 38 13C3 PFHxS										
402.10 > 79.90	6.327	6.345	-0.018	1.000	1691347	2.00		106	7598	
* 37 18O2 PFHxS										
403.00 > 83.90	6.327	6.345	-0.018		1560899	1.90			10419	
* 42 13C5 PFNA										
468.00 > 423.00	6.505	6.525	-0.020		1940150	2.00			4215	
D 41 13C9 PFNA										
472.10 > 427.00	6.505	6.525	-0.020	1.000	1891815	2.08		104	4863	
43 PFNA										
463.00 > 419.00	6.505	6.525	-0.020	1.000	915733	1.00	Target=2.61	100	1246	
463.00 > 219.00	6.505	6.525	-0.020	1.000	326298		2.81(1.31-3.92)		360	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.687	6.707	-0.020	1.057	484857	4.92		102	1794	
46 8:2FTS										
527.10 > 507.00	6.687	6.707	-0.020	1.000	246520	1.83	Target=1.36	95.3	647	
527.10 > 80.80	6.687	6.707	-0.020	1.000	180312		1.37(0.68-2.04)		686	
44 PFECHS										
461.00 > 381.00	6.723	6.742	-0.019	1.063	238388	0.8881	Target=0.26	96.1	1476	
461.00 > 99.00	6.723	6.742	-0.019	1.063	983925		0.24(0.13-0.39)		3709	
47 PFHpS										
449.00 > 79.90	6.758	6.779	-0.021	0.940	883907	0.9055	Target=4.06	94.9	2806	
449.00 > 98.80	6.758	6.779	-0.021	0.940	213976		4.13(2.03-6.09)		1379	
48 FHxSA										
397.90 > 78.00	6.820	6.841	-0.021	1.078	1107781	0.8960		89.6	2214	
50 NMeFOSAA										
570.10 > 419.00	6.857	6.877	-0.020	1.002	236122	1.05	Target=1.95	105	522	
570.10 > 483.00	6.857	6.877	-0.020	1.002	120434		1.96(0.98-2.93)		181	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.845	6.877	-0.032	0.952	969083	4.78		95.7	1310	
D 51 13C6 PFDA										
519.10 > 474.10	6.917	6.938	-0.021	1.000	1860986	1.98		99.2	4397	
53 PFDA										
512.90 > 469.00	6.917	6.938	-0.021	1.000	566978	0.9486	Target=3.17	94.9	1358	
512.90 > 219.00	6.917	6.938	-0.021	1.000	199878		2.84(1.58-4.75)		1091	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 52 13C2 PFDA										
515.10 > 470.10	6.917	6.938	-0.021		1856819	2.00			5975	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.035	7.057	-0.022	0.979	870883	4.97		99.5	2403	
55 NEtFOSAA										
584.20 > 419.10	7.035	7.057	-0.022	1.000	141482	1.02	Target=1.64	102	324	
584.20 > 526.00	7.035	7.057	-0.022	1.000	80670		1.75(0.82-2.47)		82.8	
D 56 13C8 PFOS										
507.10 > 79.90	7.187	7.208	-0.021	1.000	1478720	2.14		112	1712	
* 57 13C4 PFOS										
502.80 > 79.90	7.187	7.208	-0.021		1304551	1.92			7500	
58 PFOS										
498.90 > 79.90	7.187	7.221	-0.034	1.000	923347	0.8456	Target=4.98	90.9	1320	
498.90 > 98.80	7.187	7.221	-0.034	1.000	187957		4.91(2.49-7.47)		503	
60 PFUnA										
563.10 > 519.00	7.331	7.353	-0.022	1.000	498921	1.09	Target=2.89	109	1737	
563.10 > 269.10	7.331	7.353	-0.022	1.000	141720		3.52(1.45-4.34)		868	
D 59 13C7 PFUnA										
570.00 > 525.10	7.331	7.353	-0.022	1.060	1973930	2.11		105	3385	
61 9ClFOS										
530.80 > 351.00	7.508	7.540	-0.032	1.045	1777225	0.8295	Target=3.11	88.8	6150	
532.80 > 353.00	7.508	7.540	-0.032	1.045	594763		2.99(1.55-4.66)		2460	
62 PFNS										
548.80 > 79.90	7.600	7.637	-0.037	1.057	755614	0.8999	Target=4.37	93.5	3697	
548.80 > 98.80	7.600	7.637	-0.037	1.057	173509		4.35(2.19-6.56)		752	
63 PFDoA										
613.10 > 569.00	7.747	7.777	-0.030	1.000	527191	1.08	Target=3.23	108	1595	
613.10 > 319.00	7.747	7.777	-0.030	1.000	136373		3.87(1.61-4.84)		573	
D 82 PFDoA										
615.10 > 570.00	7.747	7.777	-0.030	1.120	1398785	2.12		106	2044	
65 PFOSA										
498.10 > 77.90	7.944	7.951	-0.007	1.000	772939	0.9805	Target=44.84	98.0	2058	
498.10 > 478.00	7.944	7.951	-0.007	1.000	17975		43.00(22.42-67.27)		48.7	
D 64 13C8 FOSA										
506.10 > 77.80	7.944	7.965	-0.021	1.105	1508057	1.95		97.3	7623	
66 PFDS										
599.00 > 79.90	7.998	8.032	-0.034	1.113	757388	0.8509	Target=4.49	88.3	4597	
599.00 > 98.80	7.998	8.032	-0.034	1.113	179466		4.22(2.24-6.73)		540	
67 PFTrDA										
663.00 > 619.00	8.132	8.169	-0.037	0.959	499703	0.9416	Target=4.04	94.2	1562	
663.00 > 168.90	8.132	8.169	-0.037	0.959	113302		4.41(2.02-6.05)		594	
68 11ClFOS										
630.90 > 450.90	8.277	8.329	-0.052	1.152	994092	0.8451	Target=2.75	89.5	4809	
632.90 > 452.90	8.277	8.329	-0.052	1.152	342600		2.90(1.37-4.12)		2033	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.476	8.510	-0.034	1.225	958242	1.75		87.6	5383	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
70 PFTeDA										
713.10 > 168.90	8.476	8.510	-0.034	1.000	70487	0.9890	Target=0.87	98.9	605	
713.10 > 219.00	8.476	8.510	-0.034	1.000	79627		0.89(0.44-1.31)		442	
73 PFDoS										
699.10 > 79.90	8.658	8.695	-0.037	1.205	633838	0.7719	Target=4.76	79.6	4325	
699.10 > 98.80	8.658	8.695	-0.037	1.205	128351		4.94(2.38-7.13)		1193	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.728	8.738	-0.010	1.214	541151	4.43		88.5	322	
72 N-MeFOSE-M										
616.10 > 58.90	8.742	8.752	-0.010	1.002	1007620	4.87		97.4	928	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.824	8.834	-0.010	1.228	384958	1.76		87.9	2638	
75 NMeFOSA										
511.90 > 219.00	8.824	8.834	-0.010	1.000	201143	1.05	Target=0.73	105	1282	
511.90 > 169.00	8.824	8.834	-0.010	1.000	246056		0.82(0.37-1.10)		942	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.918	8.926	-0.008	1.241	704712	4.34		86.8	648	
77 N-EtFOSE-M										
630.00 > 58.90	8.931	8.939	-0.008	1.001	1483987	4.99		99.8	2740	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.995	8.991	0.004	1.252	462151	1.74		86.8	2558	
79 N-EtFOSA-M										
526.00 > 219.00	8.995	9.004	-0.009	1.000	223027	0.9840	Target=0.85	98.4	1341	
526.00 > 169.00	8.995	9.004	-0.009	1.000	263288		0.85(0.43-1.28)		1230	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.252	9.319	-0.067	1.091	929694	3.21	Target=10.32	321	13865	
913.00 > 169.00	9.242	9.319	-0.077	1.090	60823		15.29(5.16-15.48)		3550	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL4_00083 Amount Added: 1.00 Units: mL

Report Date: 03-Feb-2026 11:40:26 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-15.d

Injection Date: 03-Feb-2026 00:40:29 Instrument ID: 30576

Lims ID: CCV 5_CAL4

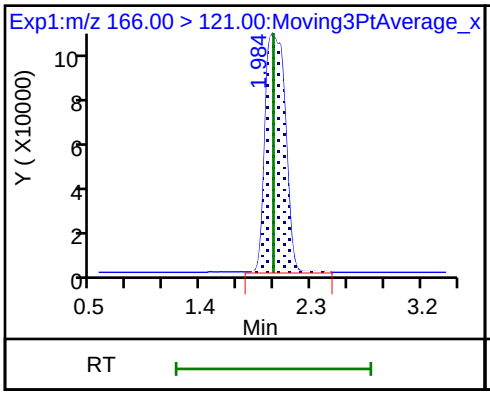
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Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 5 Worklist Smp#: 64

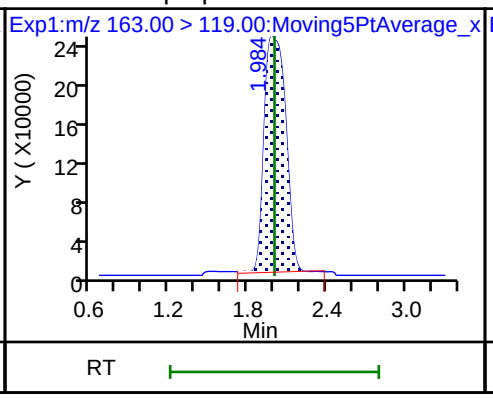
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Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

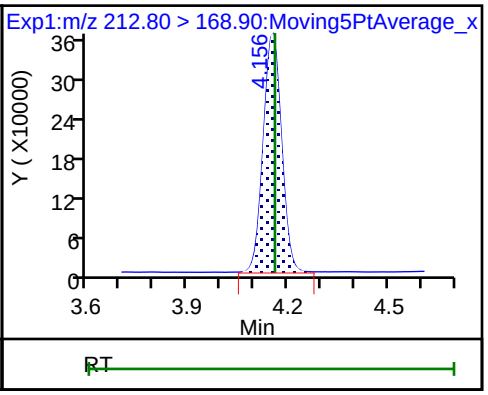
D 1 13C3PFPrA



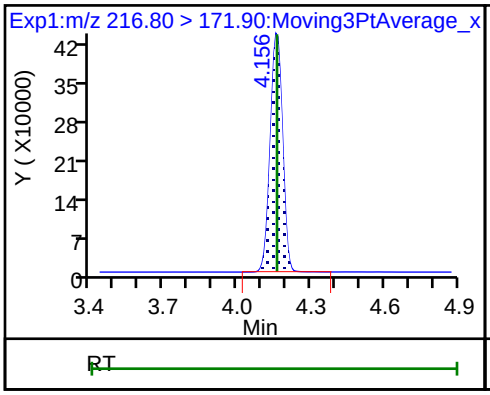
2 Perfluoropropionic acid



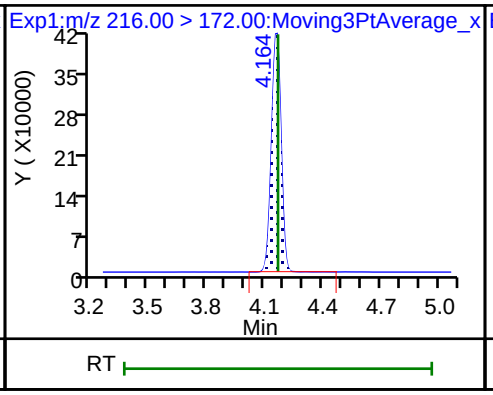
5 PFBA



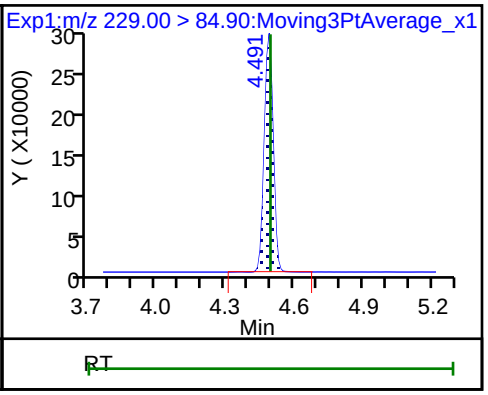
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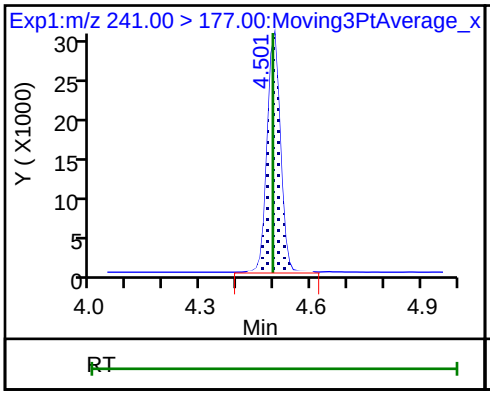
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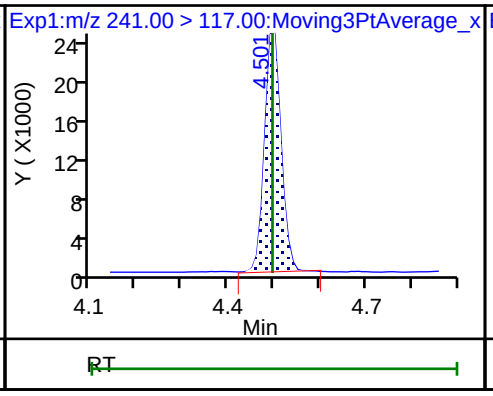
6 PFMPA



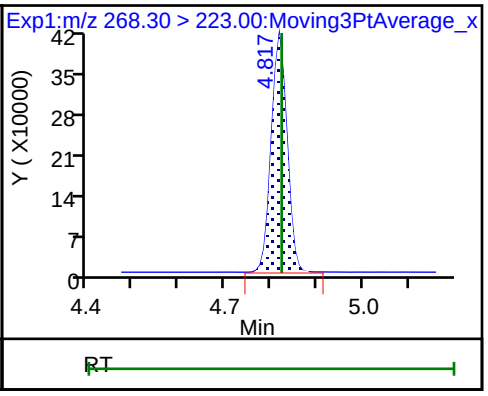
7 3:3 FTCA



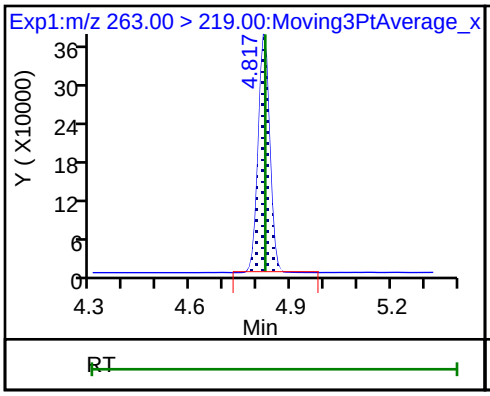
7 3:3 FTCA



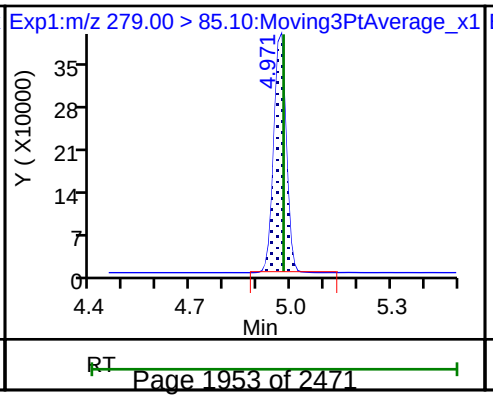
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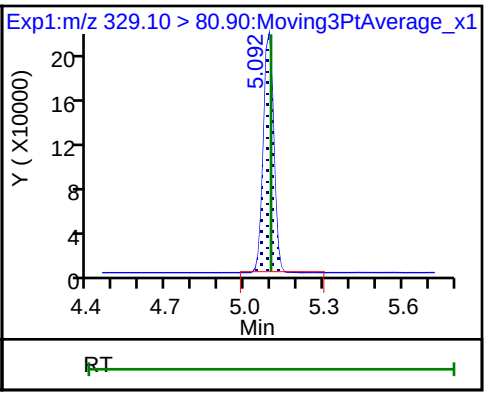
9 PFPA



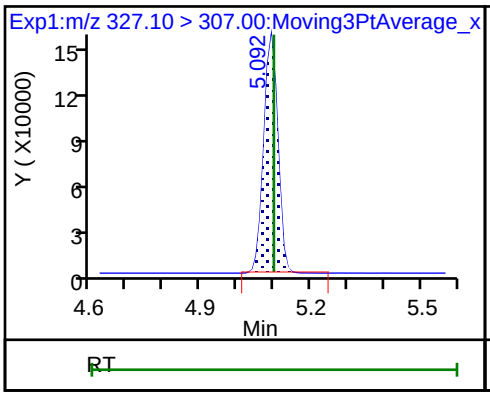
10 PFMBA



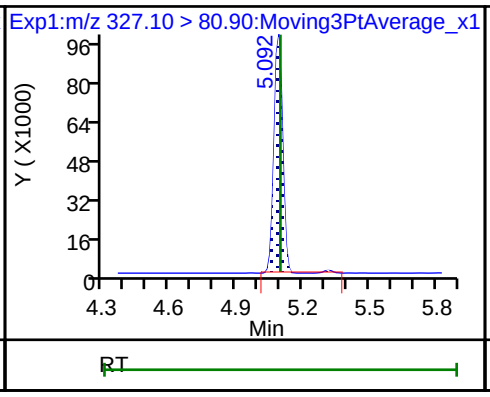
D 11 13C2-4:2FTS



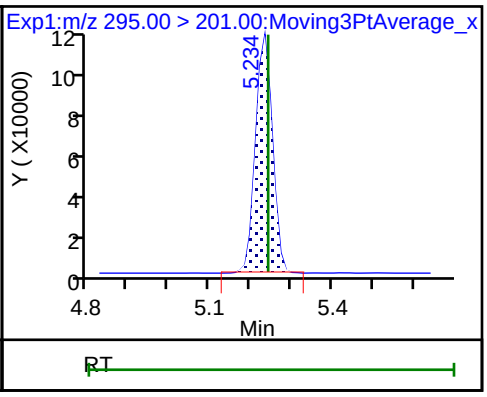
12 4:2FTS



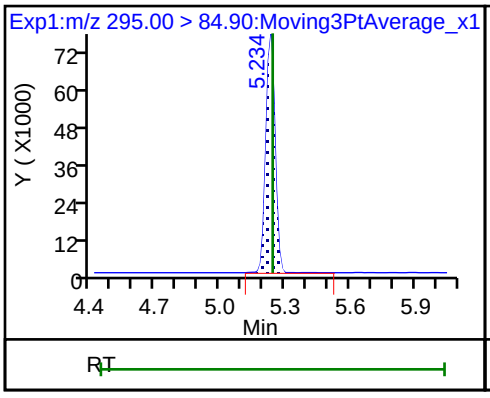
12 4:2FTS



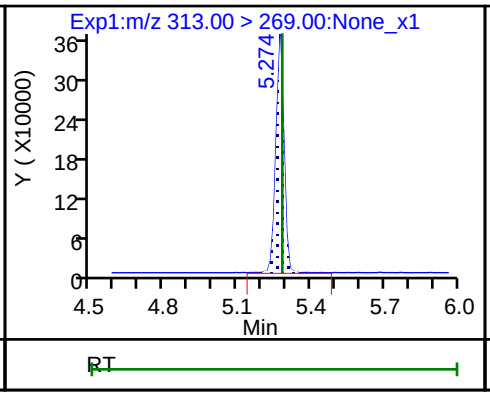
14 NFDHA



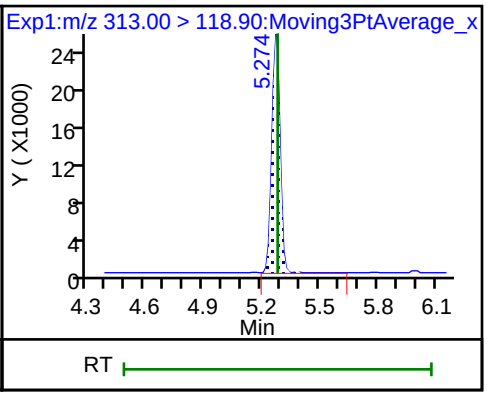
14 NFDHA



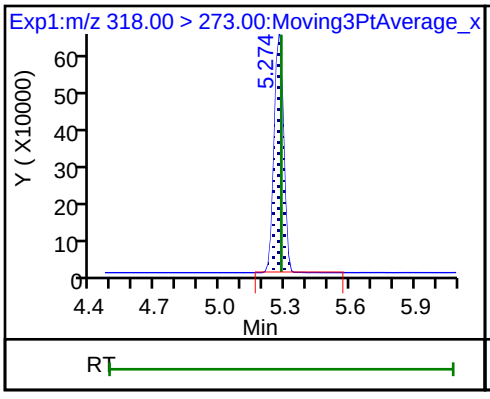
17 PFHxA



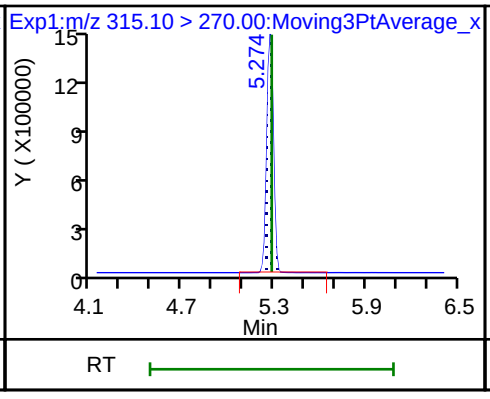
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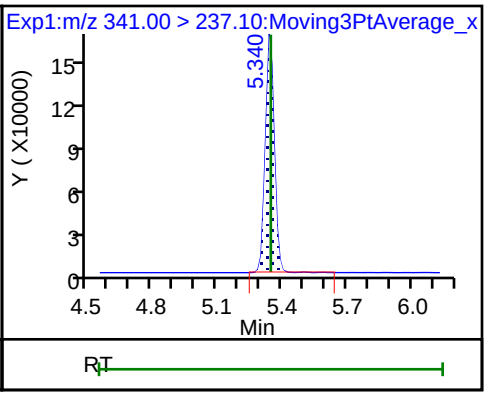
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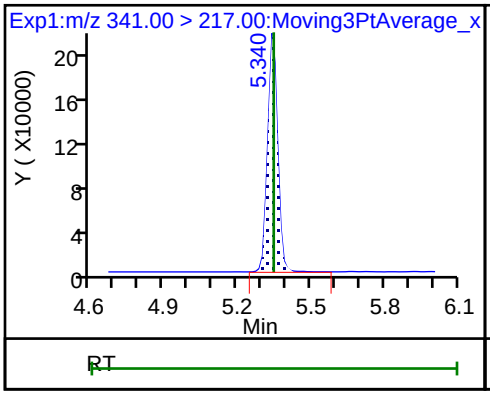
* 16 13C2 PFHxA



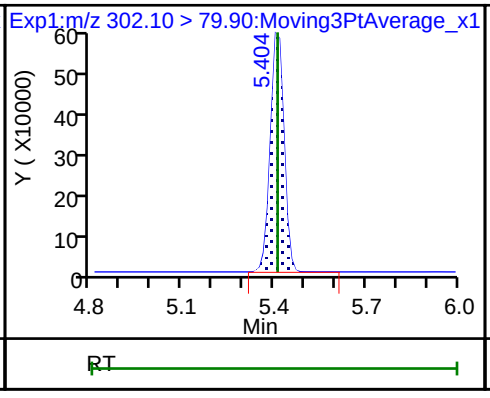
20 5:3 FTCA



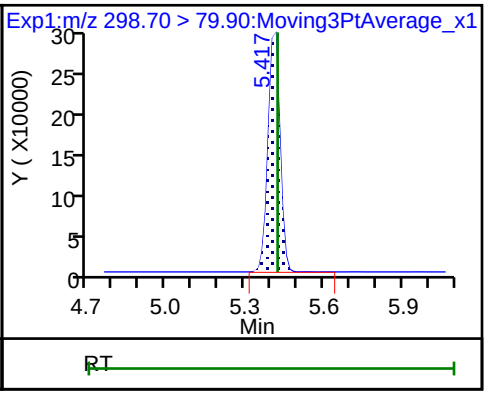
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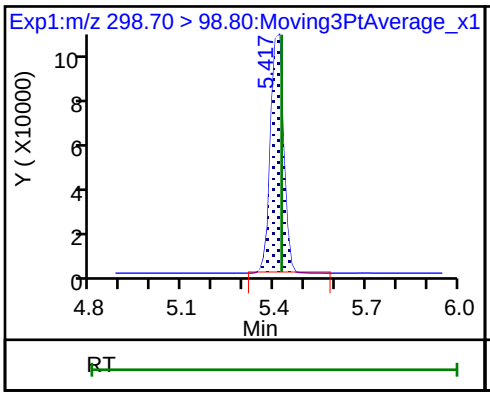
D 18 13C3 PFBS



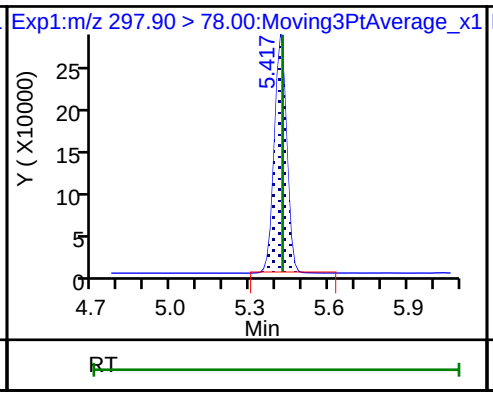
19 PFBS



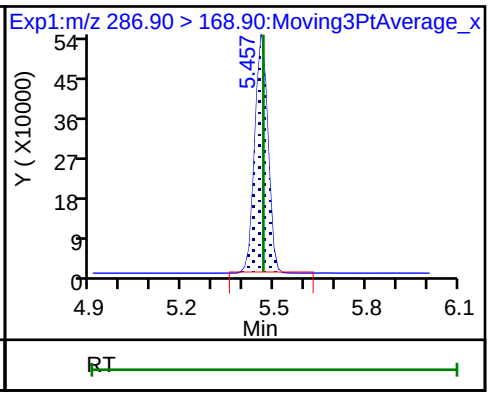
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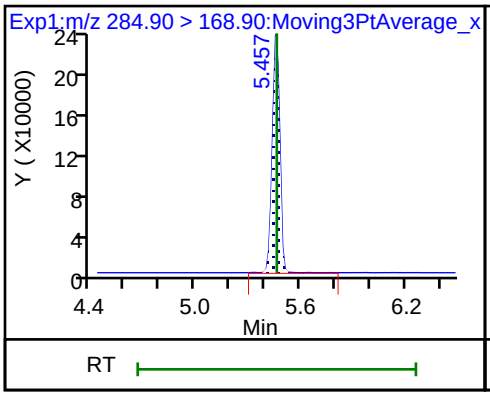
25 FBSA



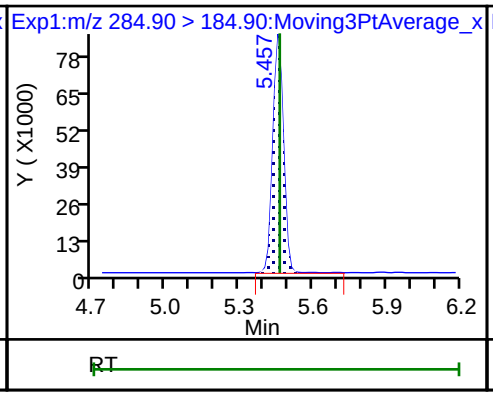
D 21 13C3 HFPO-DA



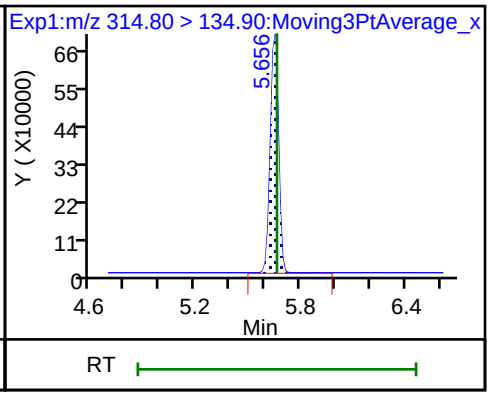
22 HFPO-DA



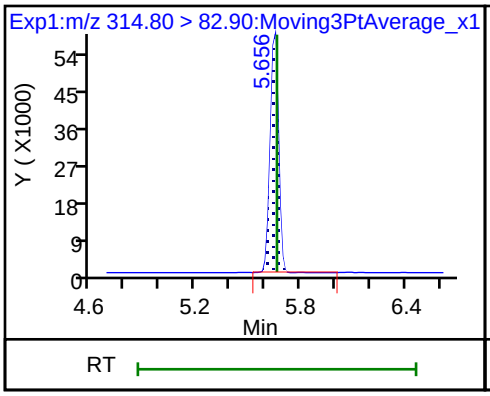
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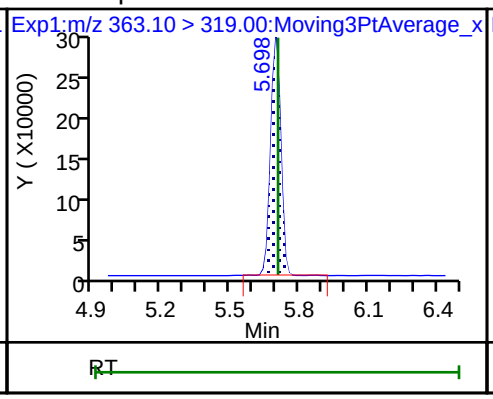
24 PFEESA



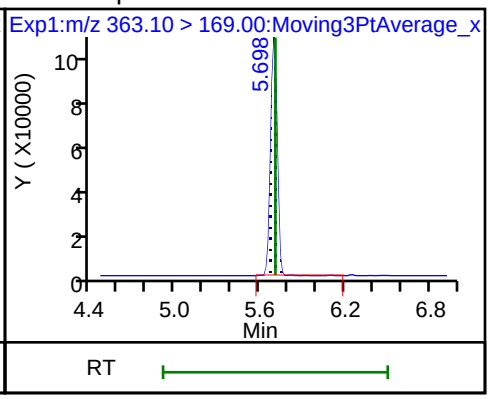
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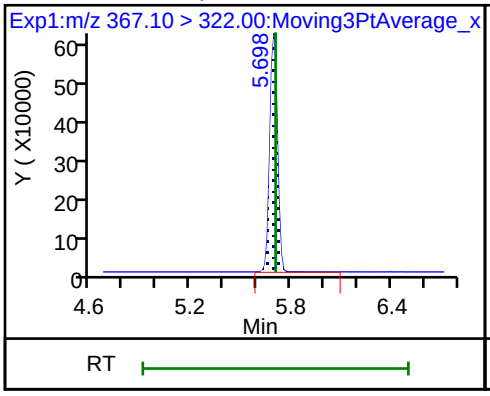
28 PFHpA



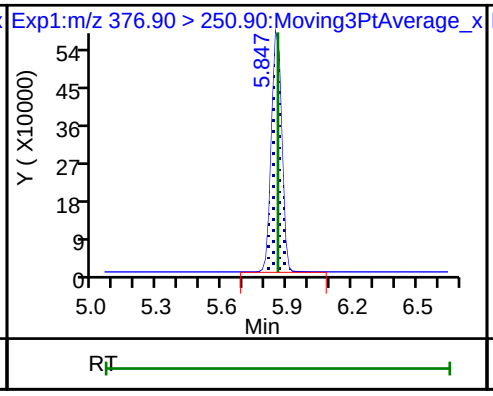
28 PFHpA



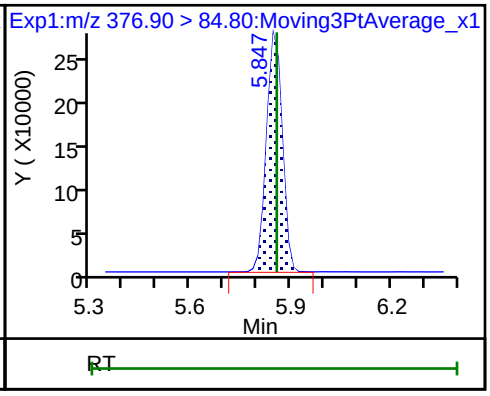
D 26 13C4 PFHpA



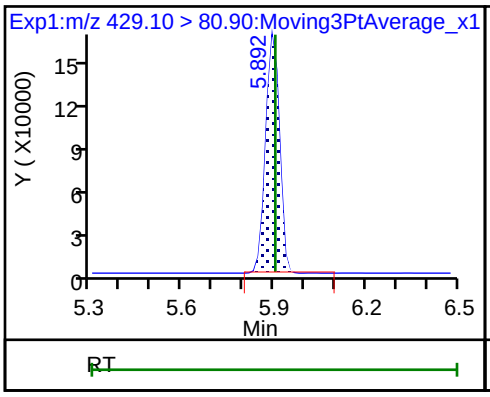
30 ADONA



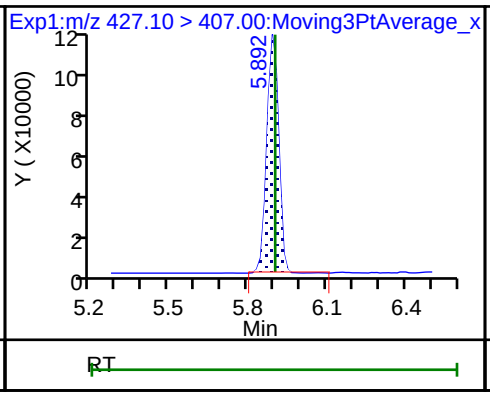
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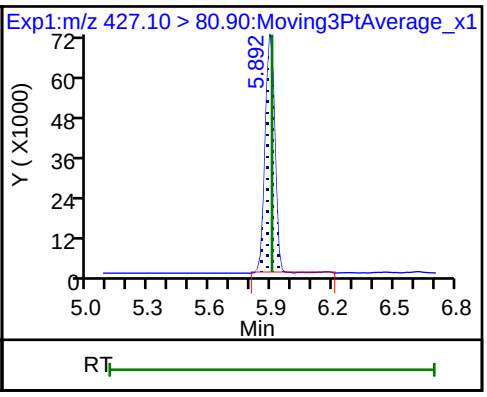
D 31 13C2-6:2FTS



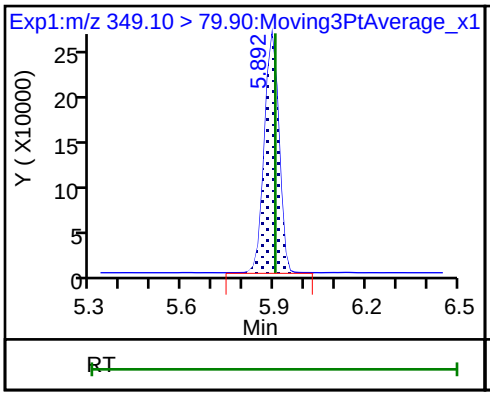
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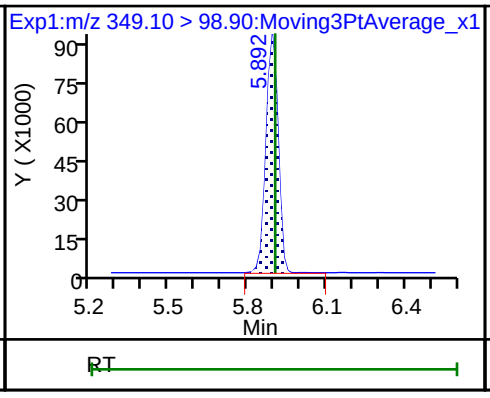
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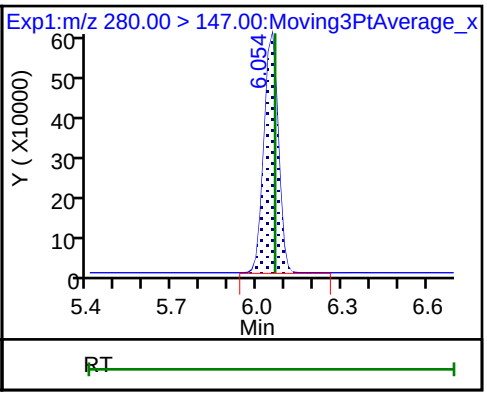
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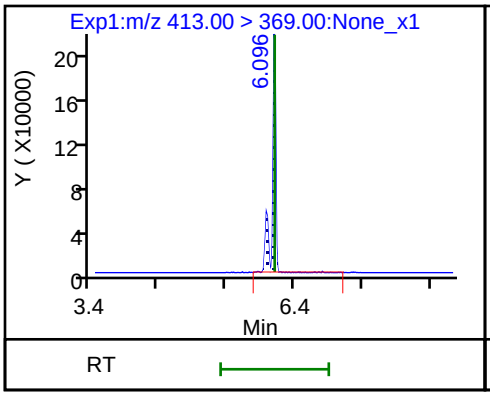
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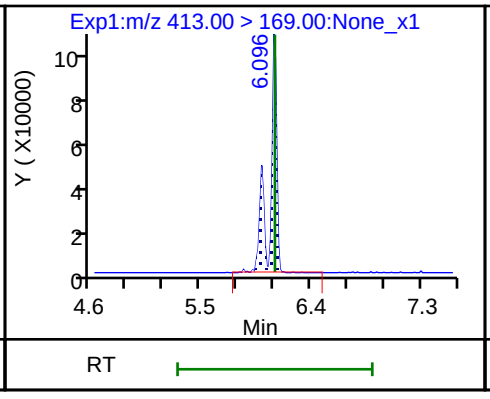
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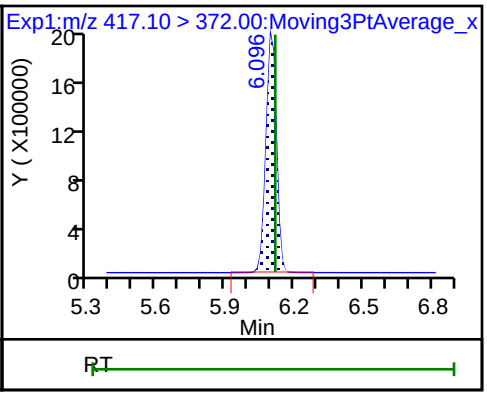
36 PFOA



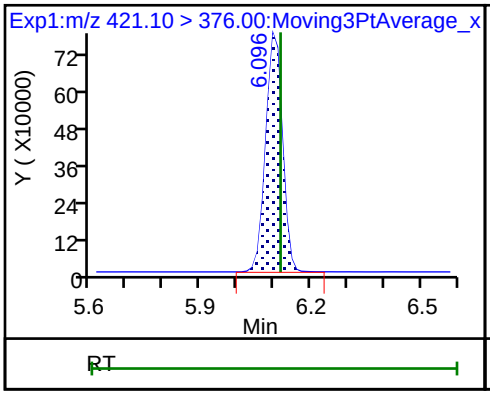
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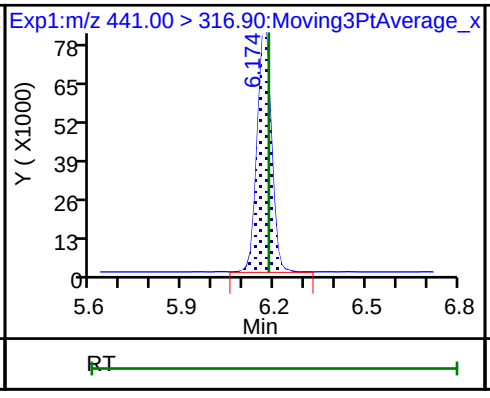
* 35 13C4 PFOA



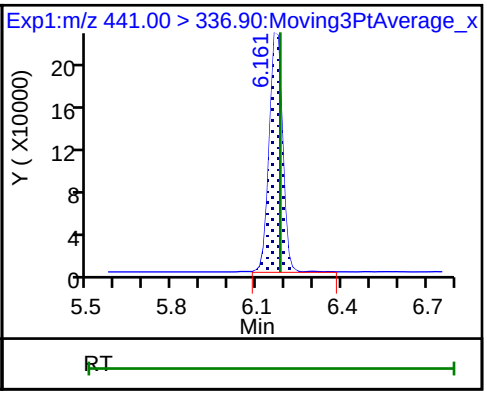
D 34 13C8 PFOA



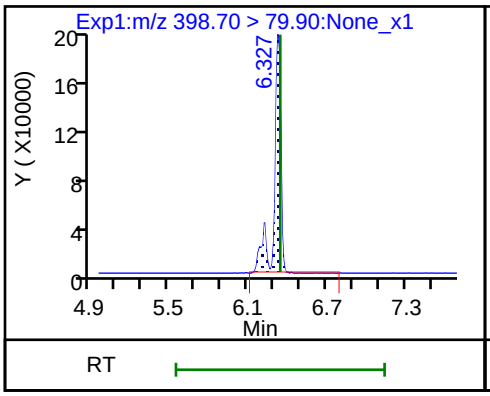
39 7:3 FTCA



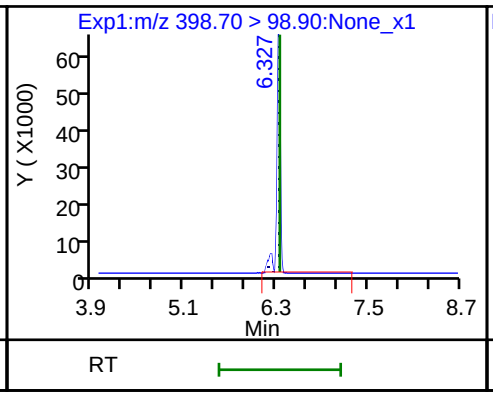
39 7:3 FTCA



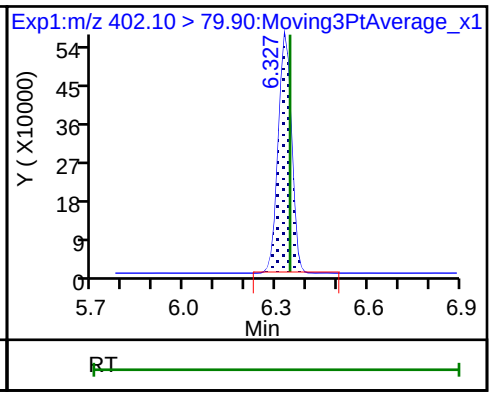
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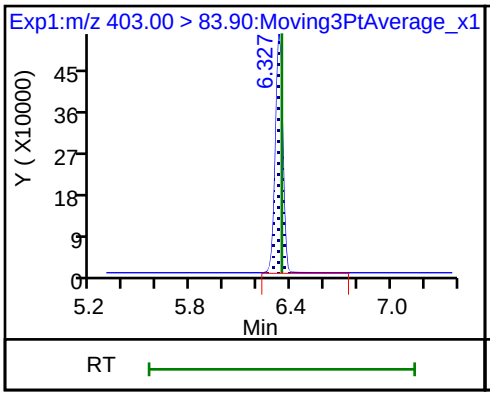
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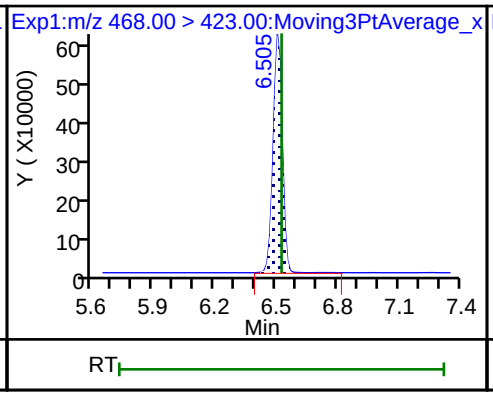
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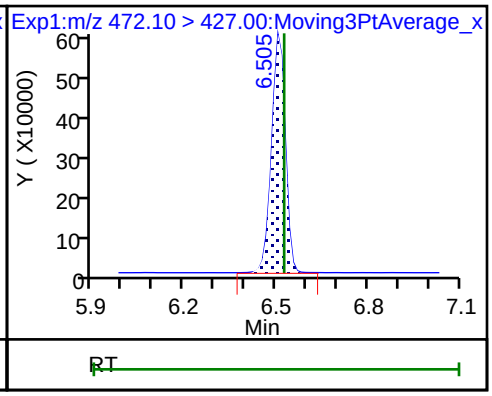
* 37 18O2 PFHxS



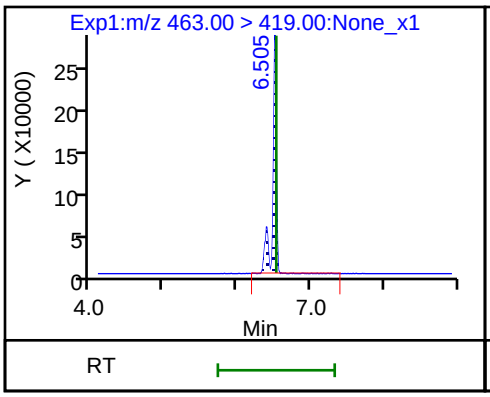
* 42 13C5 PFNA



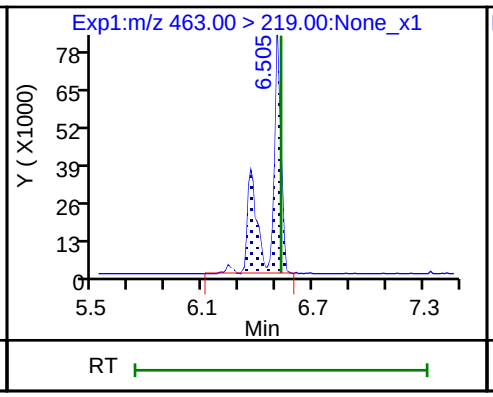
D 41 13C9 PFNA



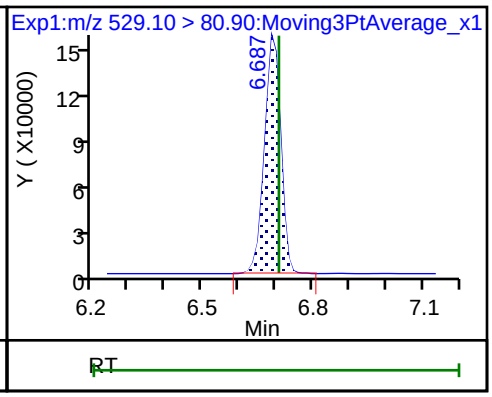
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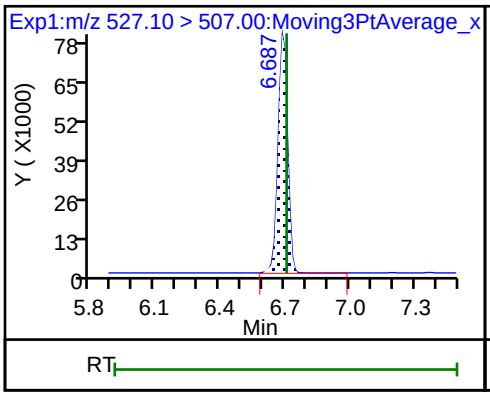
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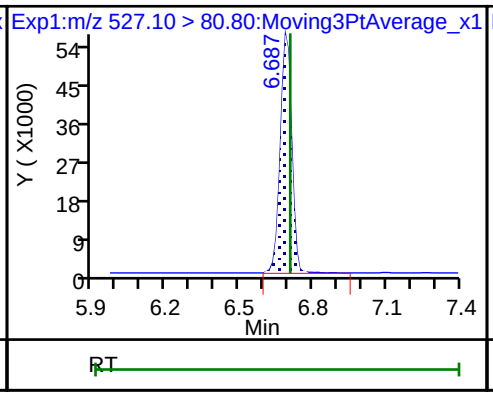
D 45 13C2-8:2FTS



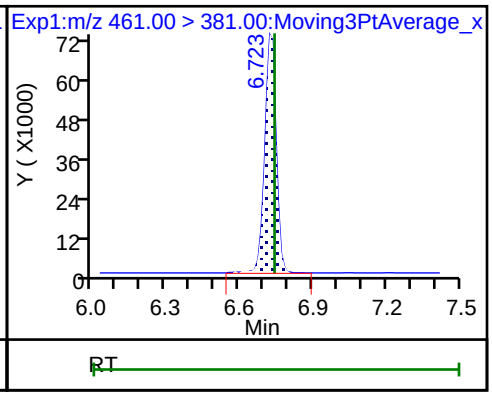
46 8:2FTS



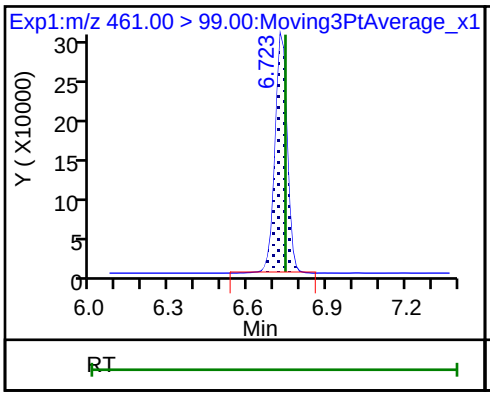
46 8:2FTS



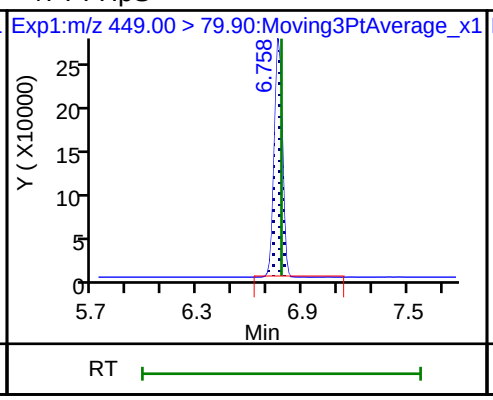
44 PFECHS



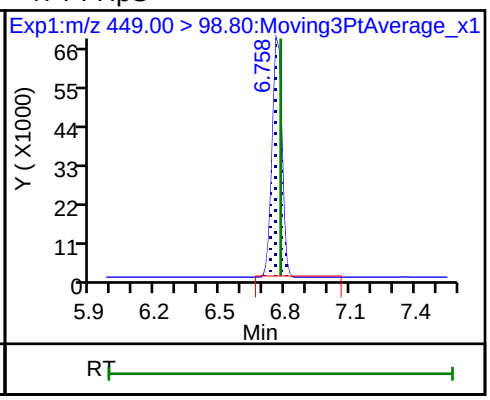
44 PFECHS



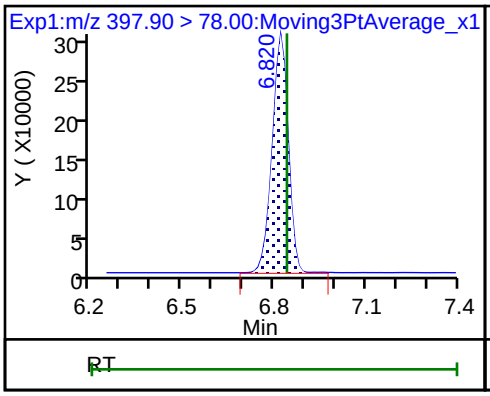
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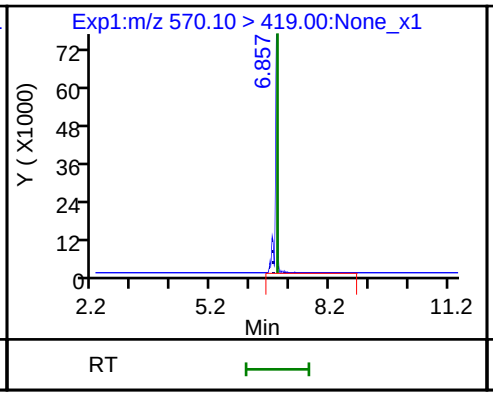
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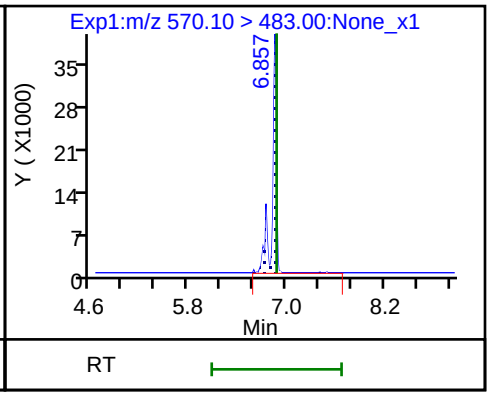
48 FHxSA



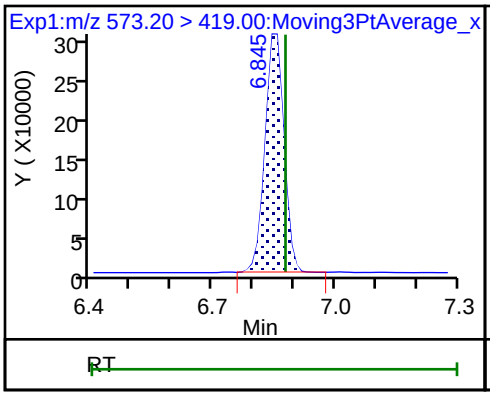
50 NMeFOSAA



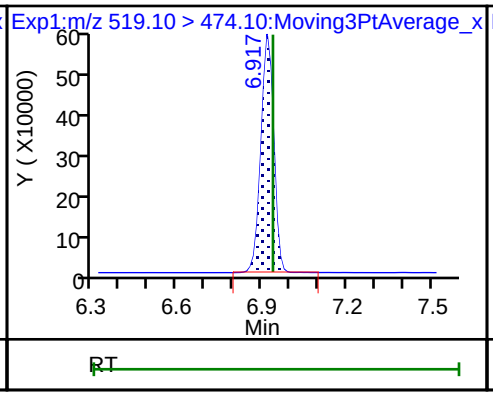
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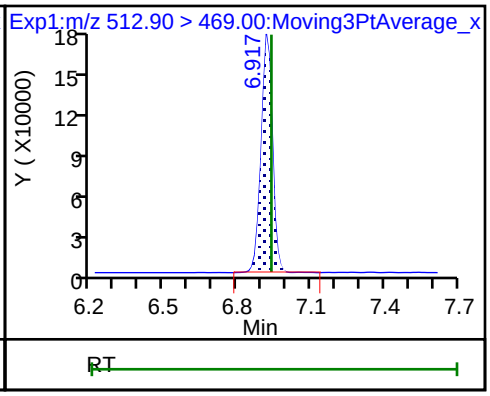
D 49 d3-NMeFOSAA



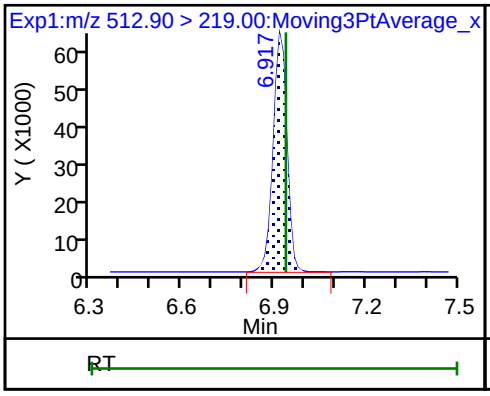
D 51 13C6 PFDA



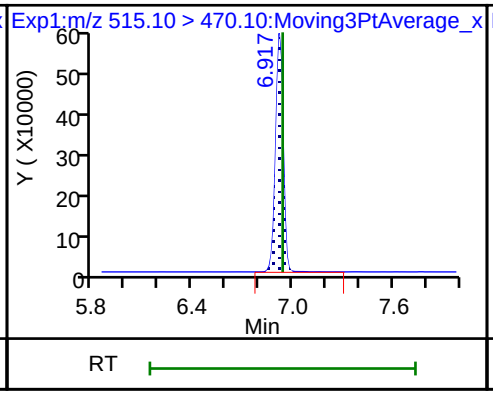
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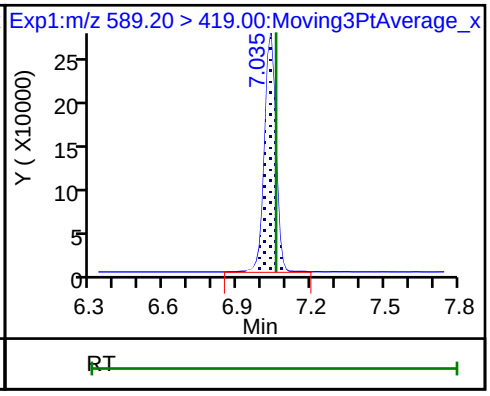
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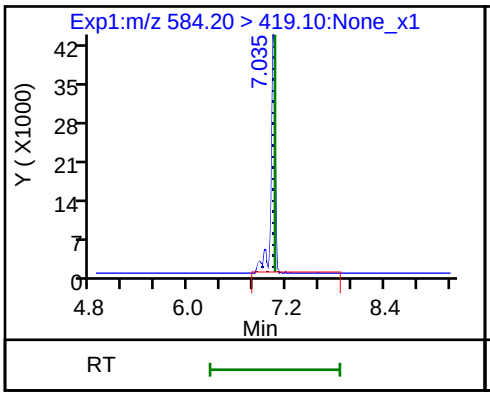
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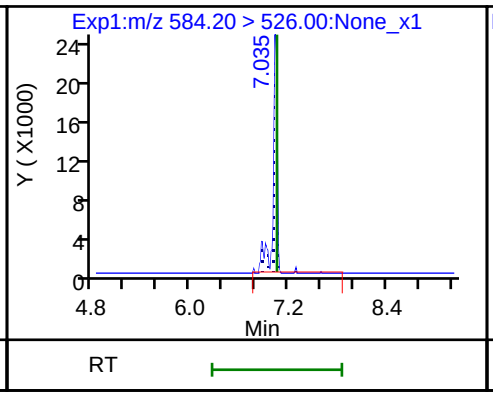
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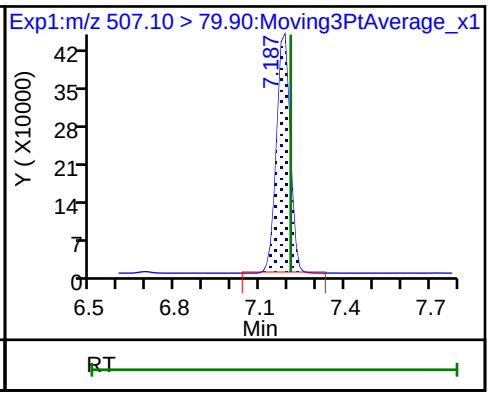
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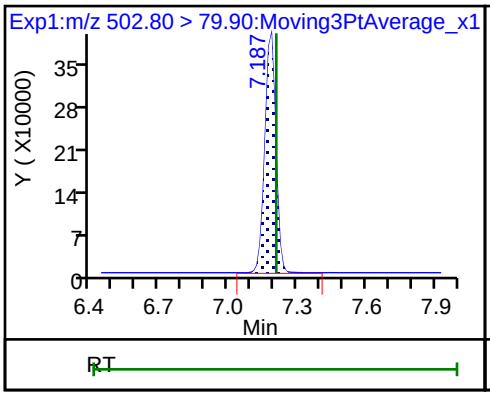
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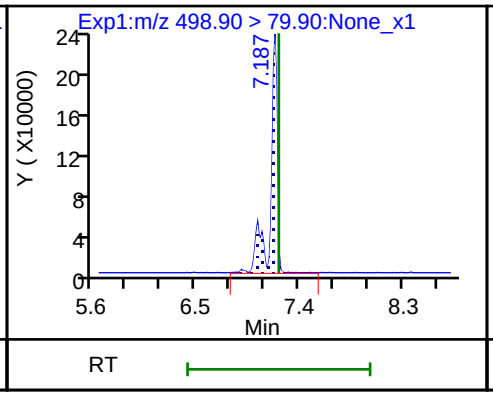
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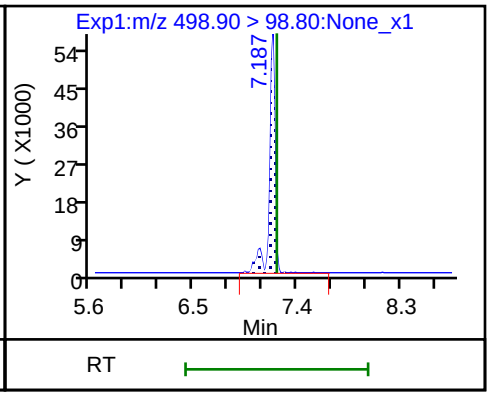
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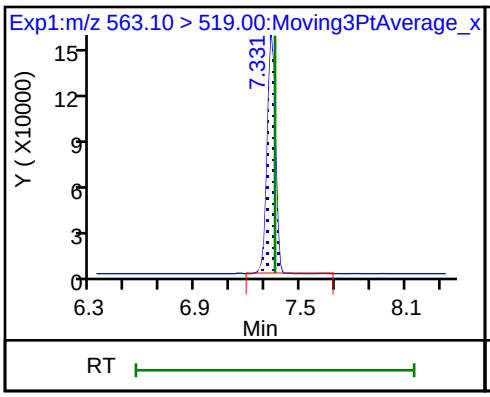
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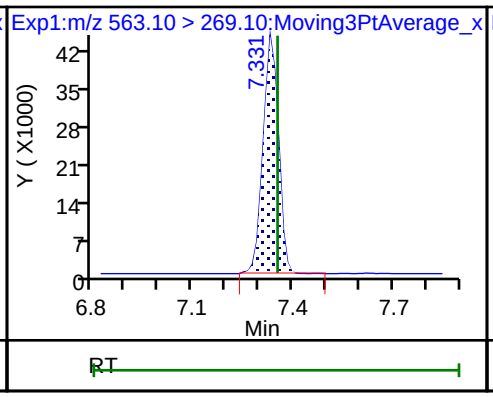
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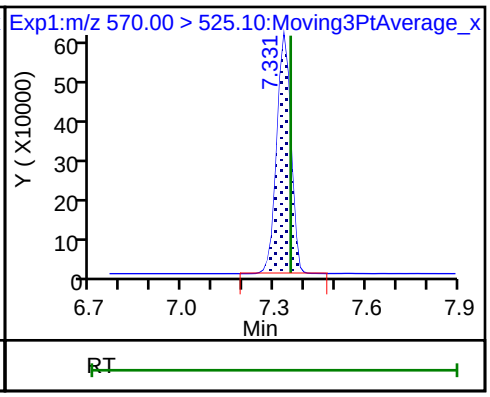
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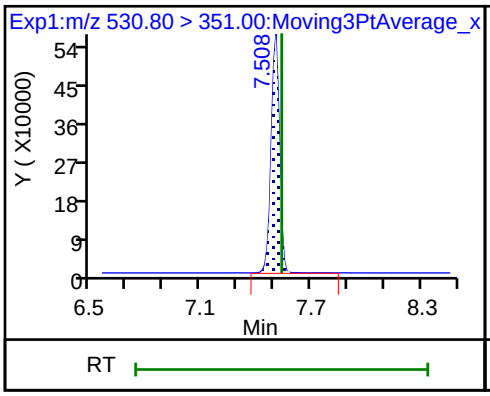
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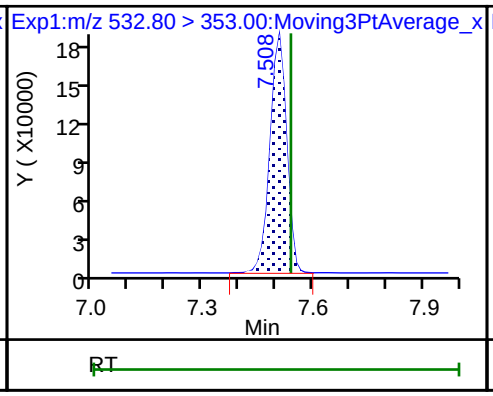
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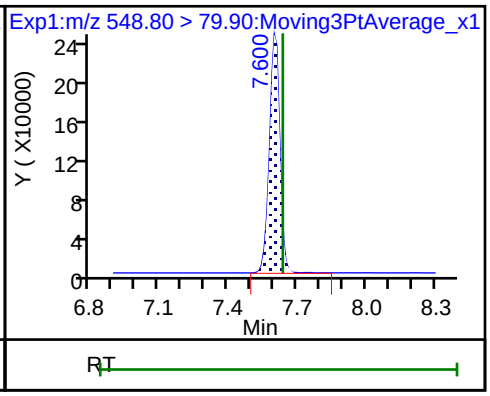
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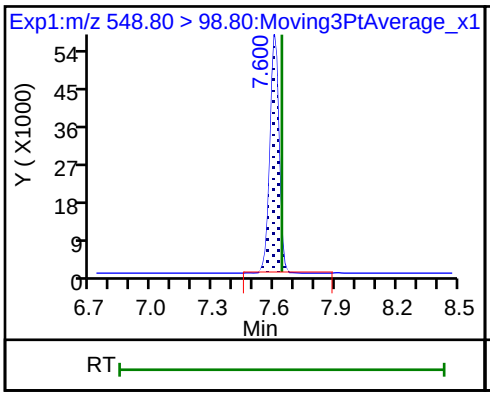
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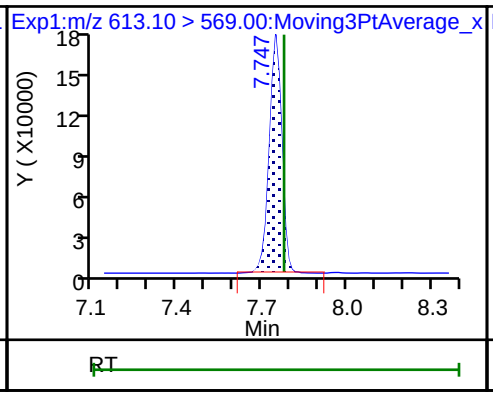
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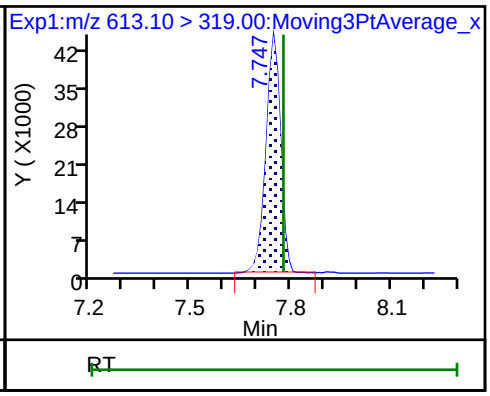
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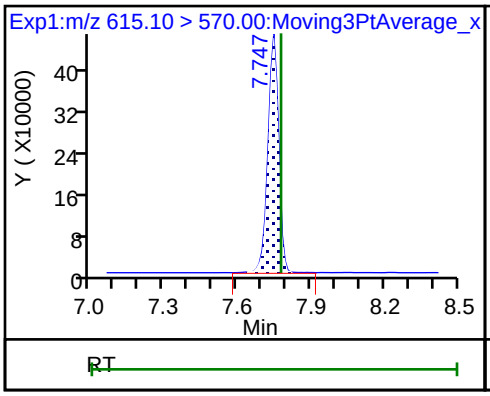
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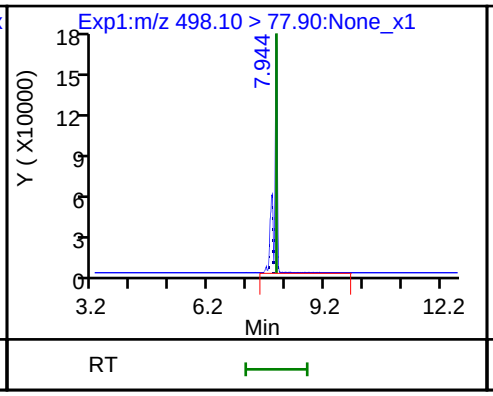
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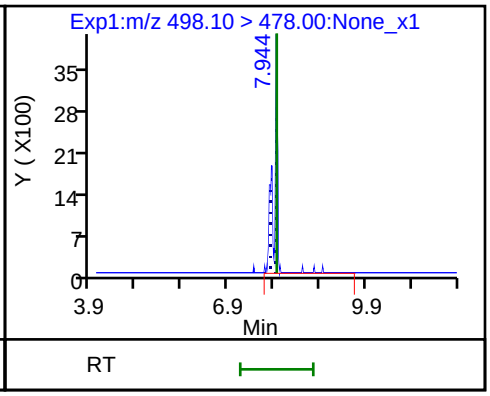
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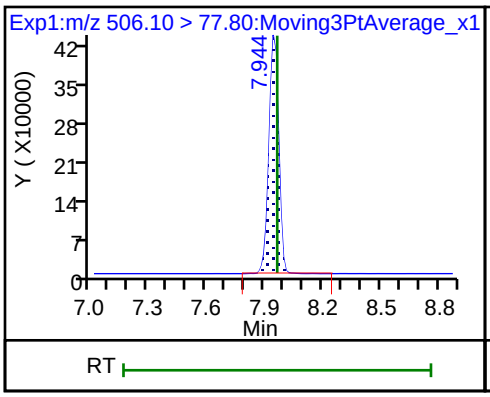
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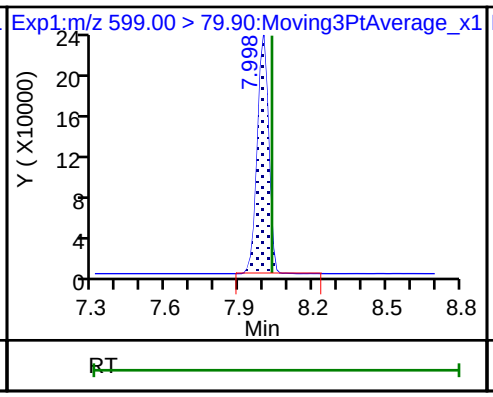
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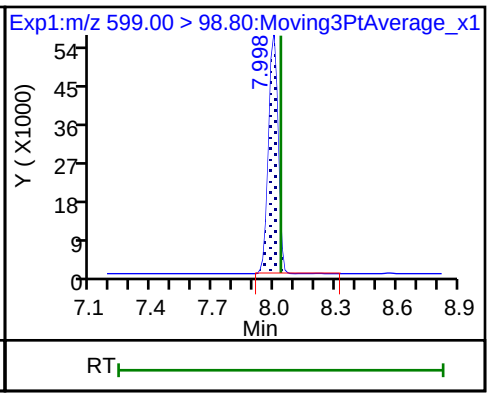
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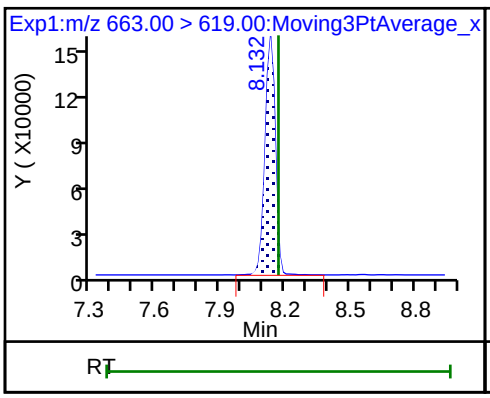
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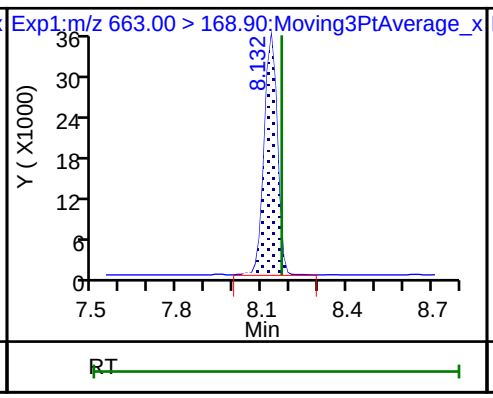
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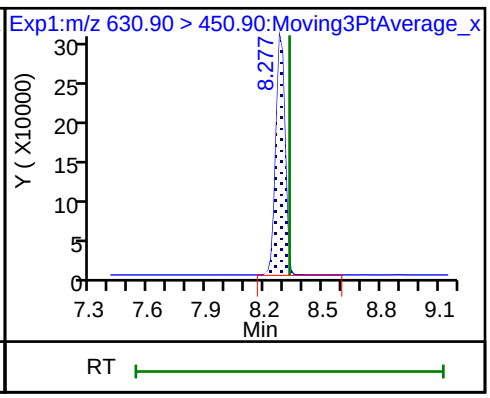
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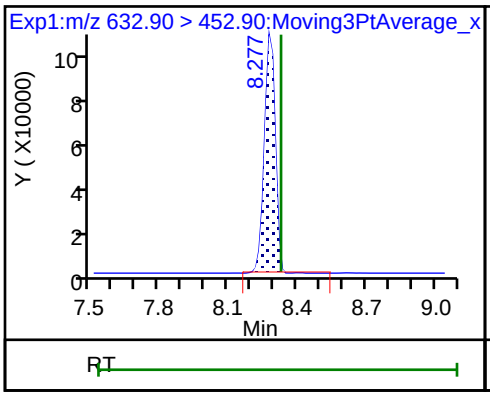
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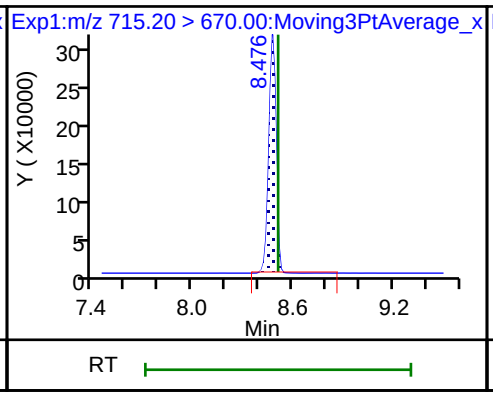
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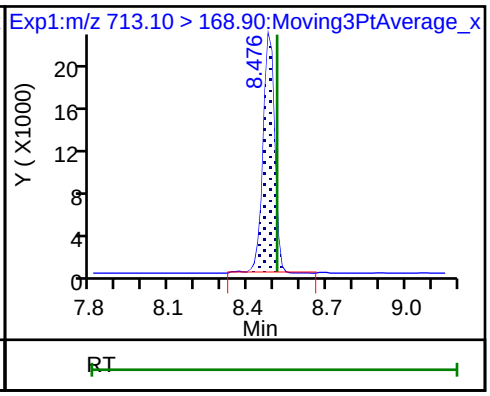
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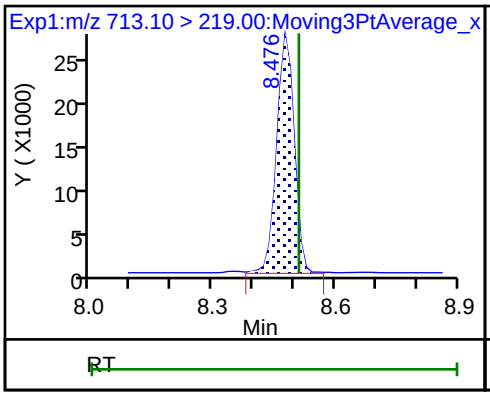
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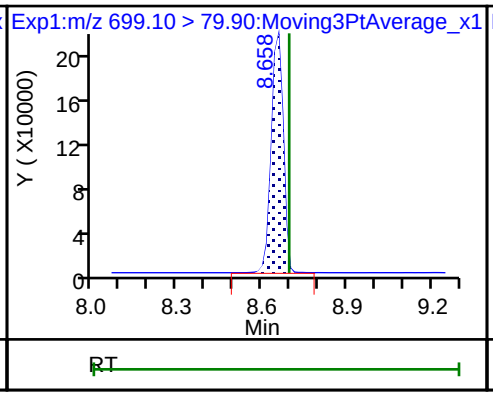
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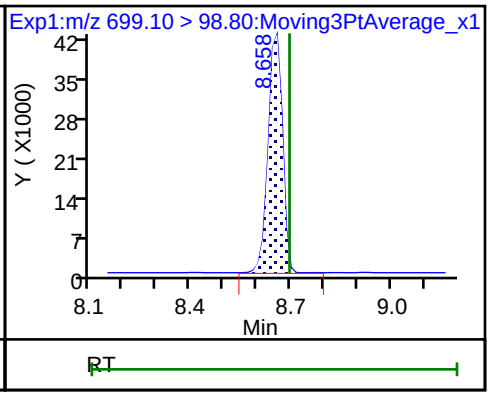
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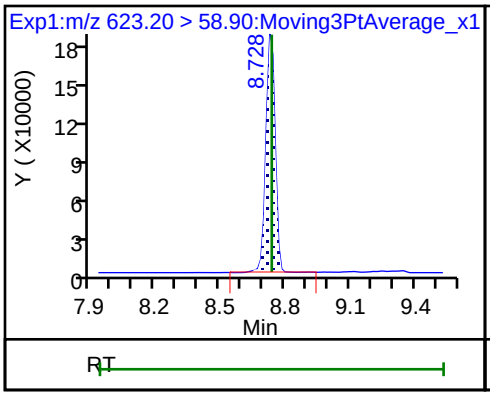
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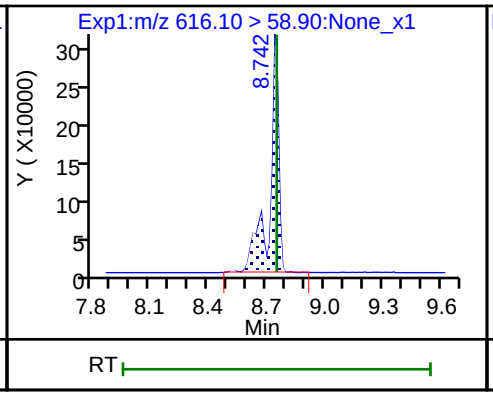
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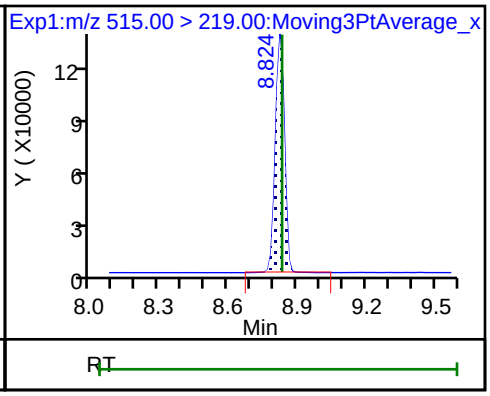
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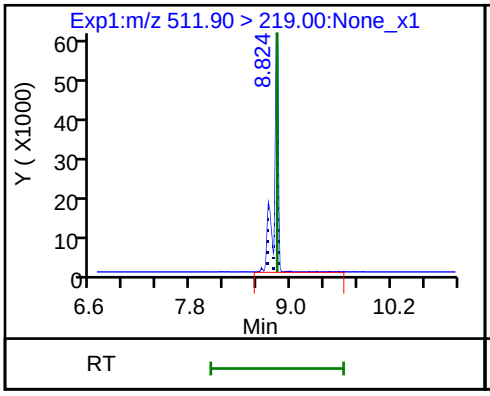
72 N-MeFOSE-M



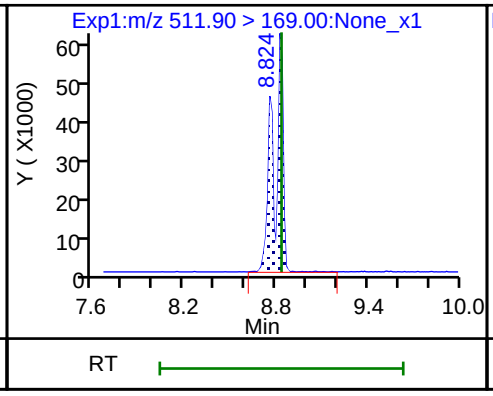
D 74 d3-NMePFOSA



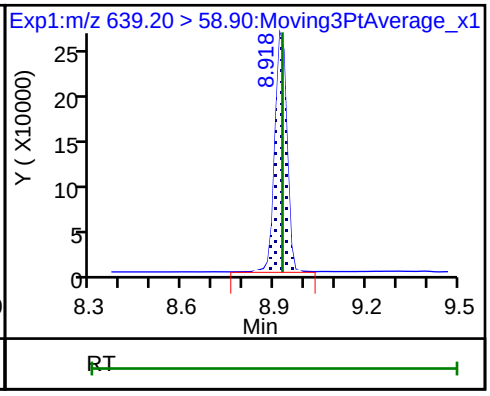
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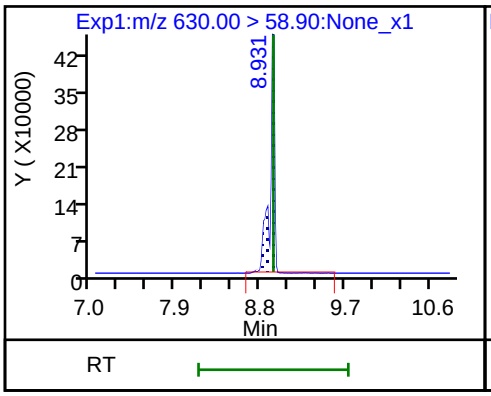
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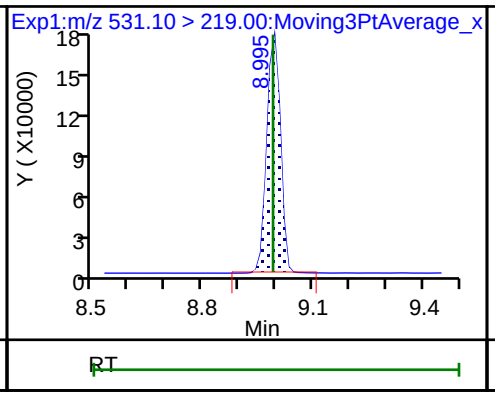
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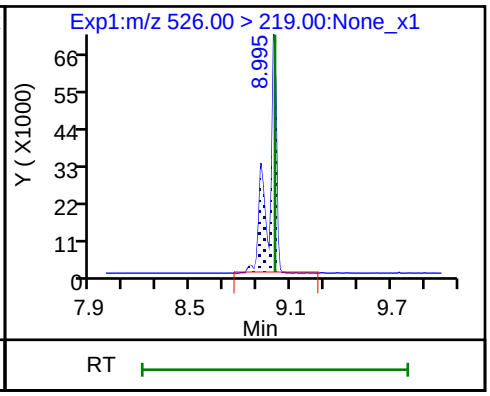
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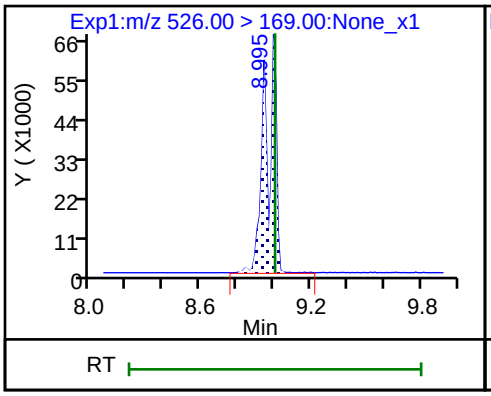
D 78 d5-NEtPFOSA



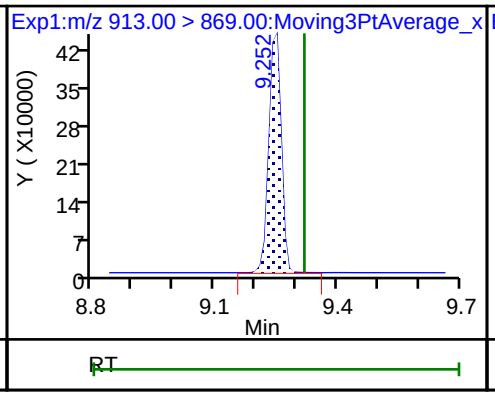
79 N-EtFOSA-M



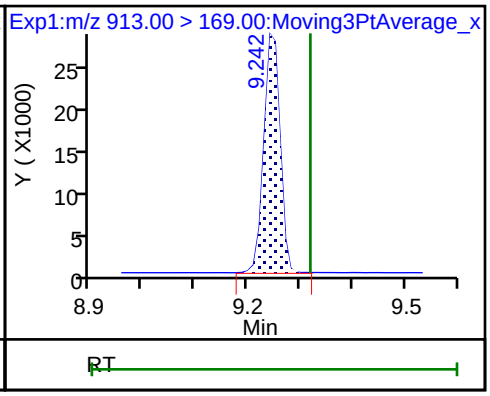
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: ICV 410-764442/10 Calibration Date: 02/04/2026 11:41

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26FEB04CAL-10.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9186	0.8155		2.22	2.50	-11.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9187	0.8927		4.86	5.00	-3.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.024	1.022		2.50	2.50	0.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0493	0.0440		5.58	6.25	-11.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.194	1.256		2.63	2.50	5.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	1.355	1.267		2.34	2.50	-6.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.850	1.742		4.41	4.69	-6.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.2495	0.2667		2.67	2.50	7.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8639	0.8760		1.27	1.25	1.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1207	0.1154		29.9	31.3	-4.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.8958	0.9295		1.15	1.11	4.0	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.071	1.061		4.95	5.00	-1.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	0.7948	0.7719		2.43	2.50	-3.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.390	2.699		2.52	2.23	13.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.8398	0.8506		1.27	1.25	1.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.489	3.696		5.01	4.73	6.0	30.0
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	AveID	1.873	1.777		4.51	4.76	-5.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.157	1.146		1.16	1.18	-1.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.176	2.107		4.74	4.90	-3.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.6200	0.6371		1.29	1.25	3.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.0578	0.0587		31.7	31.3	1.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	0.7727	0.8176		1.21	1.14	6.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.8686	0.7919		1.14	1.25	-9.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.738	1.669		4.61	4.80	-4.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.2248	0.2100		2.16	2.31	-7.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.253	1.326		1.26	1.19	6.0	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9737	0.9538		1.22	1.25	-2.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.304	1.191		2.28	2.50	-9.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: ICV 410-764442/10 Calibration Date: 02/04/2026 11:41

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26FEB04CAL-10.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.7350	0.6110		1.04	1.25	-17.0	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8775	0.8783		1.25	1.25	0.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.354	1.309		1.12	1.16	-3.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7017	0.6633		1.18	1.25	-5.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.753	2.833		4.80	4.67	3.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8555	0.8738		1.23	1.20	2.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9337	0.9498		1.27	1.25	2.0	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.105	1.126		1.28	1.26	2.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.140	1.188		1.26	1.21	4.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	0.9175	0.8770		1.20	1.25	-4.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	1.897	1.905		4.73	4.72	0.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1121	0.1190		1.33	1.25	6.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.121	1.203		1.30	1.21	7.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	2.561	2.486		12.2	12.5	-3.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	0.9489	0.9490		1.25	1.25	0.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	3.302	3.340		12.7	12.5	1.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.8695	0.8901		1.28	1.25	2.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9217	0.9048		2.45	2.50	-2.0	30.0
13C3-PFPrA	Ave	0.7584	0.7230		1.91	2.00	-5.0	30.0
13C4 PFBA	Ave	1.026	1.002		1.95	2.00	-2.0	30.0
13C5 PFPeA	Ave	0.8716	0.8690		1.99	2.00	0.0	30.0
13C2 4:2 FTS	Ave	0.2372	0.2476		4.89	4.69	4.0	30.0
13C5 PFHxA	Ave	1.060	0.9938		1.88	2.00	-6.0	30.0
13C3 PFBS	Ave	1.273	1.234		1.81	1.86	-3.0	30.0
13C3 HFPO-DA	Ave	0.7215	0.7067		1.96	2.00	-2.0	30.0
13C4 PFHpA	Ave	1.034	1.021		1.98	2.00	-1.0	30.0
13C2 6:2 FTS	Ave	0.2005	0.2035		4.83	4.76	1.0	30.0
13C8 PFOA	Ave	1.019	0.9892		1.94	2.00	-3.0	30.0
13C3 PFHxS	Ave	1.077	1.071		1.89	1.90	-1.0	30.0
13C9 PFNA	Ave	1.035	1.050		2.03	2.00	1.0	30.0
13C2 8:2 FTS	Ave	0.2071	0.2047		4.74	4.80	-1.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: ICV 410-764442/10 Calibration Date: 02/04/2026 11:41

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26FEB04CAL-10.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d3-NMeFOSAA	Ave	0.5156	0.5448		5.28	5.00	6.0	30.0
13C6 PFDA	Ave	0.9857	1.020		2.07	2.00	3.0	30.0
d5-NEtFOSAA	Ave	0.4453	0.4772		5.36	5.00	7.0	30.0
13C8 PFOS	Ave	1.113	1.097		1.89	1.92	-1.0	30.0
13C7 PFUnA	Ave	0.9824	0.9830		2.00	2.00	0.0	30.0
13C2 PFDoA	Ave	0.9443	0.9057		1.92	2.00	-4.0	30.0
13C8 FOSA	Ave	1.148	1.145		2.00	2.00	0.0	30.0
13C2 PFTeDA	Ave	0.8495	0.8086		1.90	2.00	-5.0	30.0
d7-N-MeFOSE-M	Ave	0.0922	0.0916		4.97	5.00	-1.0	30.0
d3-NMePFOSA	Ave	0.3640	0.3711		2.04	2.00	2.0	30.0
d9-N-EtFOSE-M	Ave	0.0994	0.0972		4.89	5.00	-2.0	30.0
d5-NEtPFOSA	Ave	0.4679	0.4737		2.03	2.00	1.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-10.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 04-Feb-2026 11:41:41 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1 410-0174606-010
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist:

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 13:01:45 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:55:51
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.993	2.027	-0.034	0.477	1245815	1.91		95.3	2317	
2 Perfluoropropionic acid										
163.00 > 119.00	1.993	2.035	-0.042	1.000	1269917	2.22			4605	
3 PFBA										
212.80 > 168.90	4.173	4.173	0.0	1.000	3852803	4.86			25278	
D 4 13C4-PFBA										
216.80 > 171.90	4.173	4.173	0.0	0.998	1726405	1.95		97.6	6256	
* 5 13C3PFBA										
216.00 > 172.00	4.180	4.180	0.0		1723037	2.00			3767	
6 PFMPA										
229.00 > 84.90	4.503	4.503	0.0	0.931	2126600	2.50			3174	
7 3:3 FTCA										
241.00 > 177.00	4.522	4.512	0.010	0.935	228869	5.58	Target=1.18		1411	
241.00 > 117.00	4.513	4.512	0.001	0.933	205350		1.11(0.59-1.77)		1527	
D 8 13C5 PFPeA										
268.30 > 223.00	4.836	4.829	0.007	0.914	1665167	1.99		99.7	4273	
9 PFPA										
263.00 > 219.00	4.836	4.829	0.007	1.000	2613533	2.63			3599	
10 PFMBA										
279.00 > 85.10	4.993	4.982	0.011	1.033	2638056	2.34			3679	
12 4:2FTS										
327.10 > 307.00	5.109	5.099	0.010	1.000	1747078	4.41	Target=1.72		5620	
327.10 > 80.90	5.109	5.099	0.010	1.000	1085662		1.61(0.86-2.58)		1829	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.109	5.099	0.010	0.802	1004037	4.89		104	4791	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.248	5.247	0.001	0.992	634795	2.67	Target=1.45		2872	
295.00 > 84.90	5.248	5.247	0.001	0.992	401080		1.58(0.72-2.17)		2130	
D 15 13C5 PFHxA										
318.00 > 273.00	5.291	5.280	0.011	1.000	1904302	1.88		93.8	3570	
* 16 13C2 PFHxA										
315.10 > 270.00	5.291	5.290	0.001		4790407	5.00			7946	
17 PFHxA										
313.00 > 269.00	5.291	5.290	0.001	1.000	1042614	1.27	Target=10.06		1930	
313.00 > 118.90	5.291	5.290	0.001	1.000	99334		10.50(5.03-15.10)		503	
18 5:3 FTCA										
341.00 > 237.10	5.366	5.365	0.001	1.014	3432423	29.9	Target=0.78		3755	
341.00 > 217.00	5.366	5.365	0.001	1.014	4530543		0.76(0.39-1.17)		3988	
D 19 13C3 PFBS										
302.10 > 79.90	5.436	5.426	0.010	0.854	1988631	1.81		96.9	4396	
20 PFBS										
298.70 > 79.90	5.436	5.426	0.010	1.000	1100675	1.15	Target=3.14		4681	
298.70 > 98.80	5.436	5.426	0.010	1.000	343889		3.20(1.57-4.71)		2420	
23 HFPO-DA										
284.90 > 168.90	5.475	5.474	0.001	1.000	3590828	4.95	Target=2.75		5445	
284.90 > 184.90	5.475	5.474	0.001	1.000	1577411		2.28(1.37-4.12)		9264	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.475	5.474	0.001	1.035	1354185	1.96		98.0	4215	
21 FBSA										
297.90 > 78.00	5.517	5.517	0.0	1.015	2058849	2.43			2504	
26 PFEESA										
314.80 > 134.90	5.677	5.667	0.010	1.073	5730253	2.52	Target=11.75		9592	
314.80 > 82.90	5.677	5.667	0.010	1.073	481716		11.90(5.88-17.63)		2113	
27 PFHpA										
363.10 > 319.00	5.720	5.709	0.011	1.000	1040438	1.27	Target=1.87		2282	
363.10 > 169.00	5.720	5.709	0.011	1.000	546482		1.90(0.94-2.81)		1964	
D 28 13C4 PFHpA										
367.10 > 322.00	5.720	5.709	0.011	1.081	1957026	1.97		98.7	4481	
29 ADONA										
376.90 > 250.90	5.876	5.865	0.011	1.073	11825375	5.01	Target=2.13		5523	
376.90 > 84.80	5.876	5.865	0.011	1.073	5075523		2.33(1.07-3.20)		5259	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.918	5.918	0.0	0.929	837413	4.83		101	2829	
30 PFPeS										
349.10 > 79.90	5.918	5.918	0.0	0.929	1246649	1.16	Target=3.24		4081	
349.10 > 98.90	5.918	5.918	0.0	0.929	390613		3.19(1.62-4.86)		1983	
31 6:2FTS										
427.10 > 407.00	5.918	5.918	0.0	1.000	1486184	4.51	Target=1.63		3407	
427.10 > 80.90	5.918	5.918	0.0	1.000	908301		1.64(0.82-2.45)		6597	
33 BTS										
280.00 > 147.00	6.092	6.091	0.001	0.957	9550197	4.74			7845	
* 34 13C4 PFOA										
417.10 > 372.00	6.122	6.121	0.001		6581360	5.00			5164	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.122	6.121	0.001	1.000	2604191	1.94		97.1	6347	
36 PFOA										
413.00 > 369.00	6.122	6.121	0.001	1.000	1038176	1.29	Target=1.91		1207	
413.00 > 169.00	6.132	6.121	0.011	1.002	523906		1.98(0.96-2.87)		649	
37 7:3 FTCA										
441.00 > 316.90	6.213	6.212	0.001	1.174	1745160	31.7	Target=0.31		2421	
441.00 > 336.90	6.213	6.212	0.001	1.174	5959289		0.29(0.16-0.47)		4843	
40 PFHxS										
398.70 > 79.90	6.368	6.357	0.011	1.000	863355	1.21	Target=3.07		1102	
398.70 > 98.90	6.368	6.357	0.011	1.000	261092		3.31(1.53-4.60)		471	
D 38 13C3 PFHxS										
402.10 > 79.90	6.368	6.367	0.001	1.000	1755364	1.89		99.4	4932	
* 39 18O2 PFHxS										
403.00 > 83.90	6.368	6.367	0.001		1639484	1.90			7273	
* 42 13C5 PFNA										
468.00 > 423.00	6.546	6.535	0.011		2006099	2.00			4166	
D 41 13C9 PFNA										
472.10 > 427.00	6.546	6.535	0.011	1.000	2105927	2.03		101	4217	
43 PFNA										
463.00 > 419.00	6.536	6.546	-0.010	0.998	1041482	1.14	Target=2.01		1075	
463.00 > 219.00	6.546	6.546	0.0	1.000	512297		2.03(1.01-3.02)		574	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.725	6.725	0.0	1.056	849465	4.74		98.8	2388	
45 8:2FTS										
527.10 > 507.00	6.725	6.725	0.0	1.000	1418008	4.61	Target=1.99		2592	
527.10 > 80.80	6.725	6.725	0.0	1.000	716056		1.98(0.99-2.98)		2529	
46 PFECHS										
461.00 > 381.00	6.772	6.763	0.009	1.064	449201	2.16	Target=0.18		2120	
461.00 > 99.00	6.772	6.763	0.009	1.064	2499770		0.18(0.09-0.27)		4613	
47 PFHpS										
449.00 > 79.90	6.799	6.808	-0.009	0.940	1228534	1.26	Target=3.87		3404	
449.00 > 98.80	6.808	6.808	0.0	0.942	313571		3.92(1.94-5.81)		1695	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.888	6.888	0.0	0.953	1933562	5.28		106	2945	
50 NMeFOSAA										
570.10 > 419.00	6.897	6.897	0.0	1.001	461056	1.22	Target=1.74		113	
570.10 > 483.00	6.897	6.897	0.0	1.001	262953		1.75(0.87-2.61)		513	
48 FHxSA										
397.90 > 78.00	6.926	6.916	0.010	1.088	2756611	2.28			4240	
53 PFDA										
512.90 > 469.00	6.957	6.957	0.0	1.000	882333	1.04	Target=3.37		2420	
512.90 > 219.00	6.968	6.957	0.011	1.001	284744		3.10(1.69-5.06)		1558	
D 52 13C6 PFDA										
519.10 > 474.10	6.957	6.957	0.0	1.000	2310380	2.07		103	6708	
* 51 13C2 PFDA										
515.10 > 470.10	6.957	6.957	0.0		2265662	2.00			5049	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.078	7.068	0.010	0.979	1693574	5.36		107	4366	
55 NEtFOSAA										
584.20 > 419.10	7.078	7.088	-0.010	1.000	372306	1.25	Target=1.30		817	
584.20 > 526.00	7.078	7.088	-0.010	1.000	293790		1.27(0.65-1.95)		432	
D 56 13C8 PFOS										
507.10 > 79.90	7.230	7.230	0.0	1.000	1491886	1.89		98.6	6680	
* 57 13C4 PFOS										
502.80 > 79.90	7.230	7.230	0.0		1360059	1.92			5996	
58 PFOS										
498.90 > 79.90	7.230	7.239	-0.009	1.000	1182163	1.12	Target=4.60		2471	
498.90 > 98.80	7.230	7.239	-0.009	1.000	274480		4.31(2.30-6.91)		854	
D 59 13C7 PFUnA										
570.00 > 525.10	7.374	7.374	0.0	1.060	2227035	2.00		100	5449	
60 PFUnA										
563.10 > 519.00	7.374	7.384	-0.010	1.000	923244	1.18	Target=4.93		2695	
563.10 > 269.10	7.374	7.384	-0.010	1.000	177584		5.20(2.47-7.40)		1168	
61 9ClFOS										
530.80 > 351.00	7.551	7.560	-0.009	1.044	10291569	4.80	Target=3.12		12375	
532.80 > 353.00	7.551	7.560	-0.009	1.044	3392593		3.03(1.56-4.68)		6250	
62 PFNS										
548.80 > 79.90	7.645	7.653	-0.008	1.057	816480	1.23	Target=3.51		4873	
548.80 > 98.80	7.645	7.653	-0.008	1.057	219967		3.71(1.75-5.26)		1723	
D 81 PFDoA										
615.10 > 570.00	7.790	7.797	-0.007	1.120	2052121	1.92		95.9	6077	
63 PFDoA										
613.10 > 569.00	7.790	7.797	-0.007		1218150	1.27	Target=5.93		5017	
613.10 > 319.00	7.790	7.797	-0.007		205577		5.93(2.96-8.89)		1978	
64 PFOSA										
498.10 > 77.90	8.008	8.008	0.0	1.000	1149153	1.28	Target=41.04		2128	
498.10 > 478.00	8.008	8.008	0.0	1.000	29531		38.91(20.52-61.57)		93.4	
D 65 13C8 FOSA										
506.10 > 77.80	8.008	8.008	0.0	1.108	1626159	2.00		99.8	5206	
66 PFDS										
599.00 > 79.90	8.066	8.066	0.0	1.116	1114791	1.26	Target=3.81		7020	
599.00 > 98.80	8.066	8.066	0.0	1.116	280958		3.97(1.91-5.72)		2131	
67 PFTrDA										
663.00 > 619.00	8.219	8.208	0.011	0.955	1064448	1.19	Target=6.20		3761	
663.00 > 168.90	8.208	8.208	0.0	0.953	182045		5.85(3.10-9.31)		1418	
68 11ClFOS										
630.90 > 450.90	8.387	8.387	0.0	1.160	6992379	4.73	Target=3.04		10250	
632.90 > 452.90	8.387	8.387	0.0	1.160	2286900		3.06(1.52-4.56)		6760	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.610	8.610	0.0	1.238	1831967	1.90		95.2	3681	
69 PFTeDA										
713.10 > 168.90	8.610	8.610	0.0	1.000	136302	1.33	Target=1.02		838	
713.10 > 219.00	8.610	8.610	0.0	1.000	140189		0.97(0.51-1.53)		561	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.830	8.830	0.0	1.221	1133584	1.30	Target=4.04		2227	
699.10 > 98.80	8.830	8.830	0.0	1.221	279363		4.06(2.02-6.05)		1477	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.889	8.889	0.0	1.229	325087	4.97		99.4	1042	
73 N-MeFOSE-M										
616.10 > 58.90	8.903	8.903	0.0	1.002	2022974	12.1			2507	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.002	8.988	0.014	1.245	526850	2.04		102	1966	
74 NMeFOSA										
511.90 > 219.00	9.002	9.002	0.0	1.000	312624	1.25	Target=0.72		1022	
511.90 > 169.00	9.002	9.002	0.0	1.000	432312		0.72(0.36-1.08)		974	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.111	9.111	0.0	1.260	345043	4.89		97.8	862	
77 N-EtFOSE-M										
630.00 > 58.90	9.124	9.138	-0.014	1.001	2890148	12.7			10353	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.202	9.202	0.0	1.273	672534	2.02		101	2985	
79 N-EtFOSA-M										
526.00 > 219.00	9.215	9.215	0.0	1.001	374871	1.28	Target=0.87		1628	
526.00 > 169.00	9.215	9.215	0.0	1.001	430540		0.87(0.44-1.31)		1827	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.574	9.574	0.0	1.112	2072031	2.45	Target=17.02		54710	
913.00 > 169.00	9.574	9.574	0.0	1.112	106282		19.50(8.51-25.52)		5938	

QC Flag Legend

Processing Flags

Reagents:

1633_125_ICV_00034 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 13:01:49 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-10.d

Injection Date: 04-Feb-2026 11:41:41 Instrument ID: 30577

Lims ID: ICV

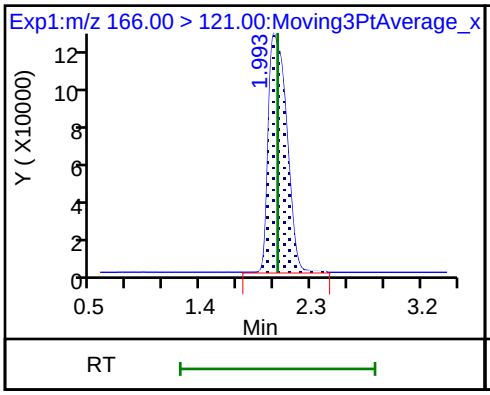
Client ID:

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 10 Worklist Smp#: 10

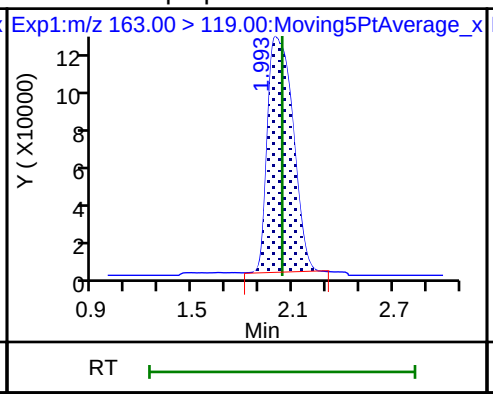
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

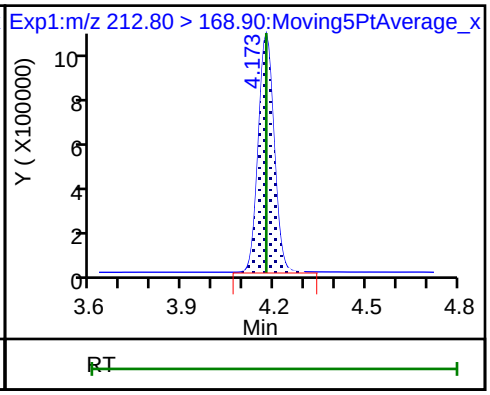
D 1 13C3PFPrA



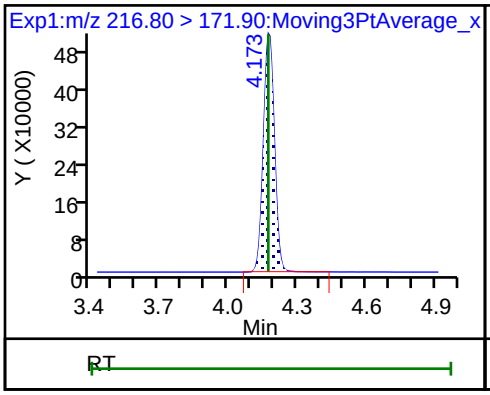
2 Perfluoropropionic acid



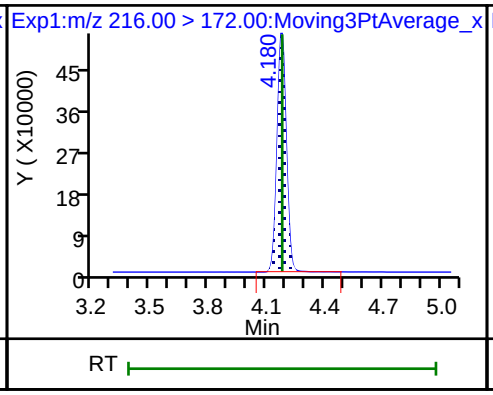
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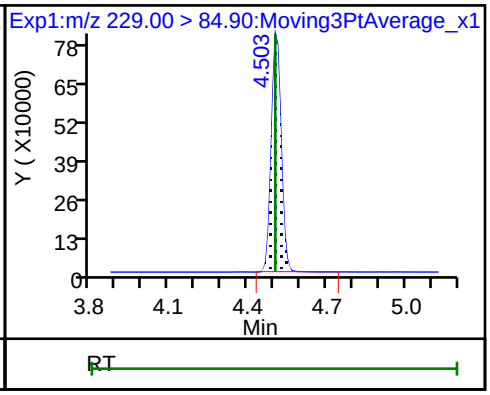
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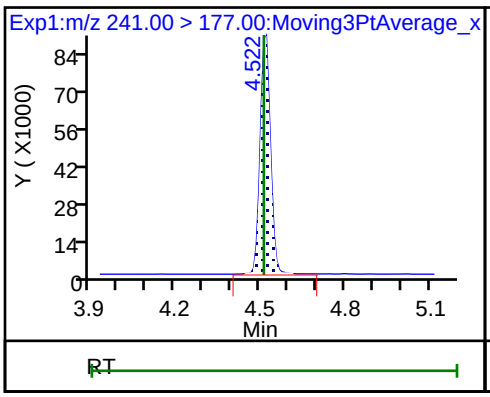
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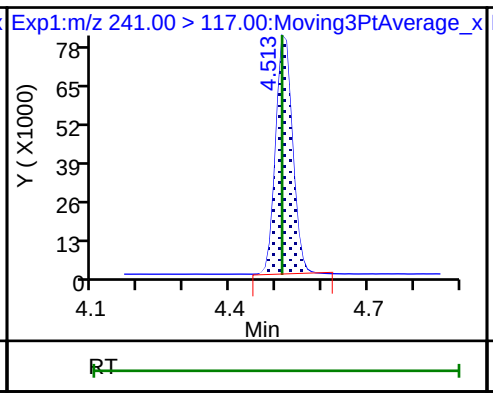
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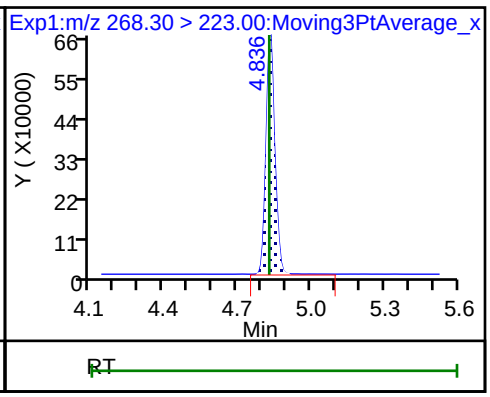
7 3:3 FTCA



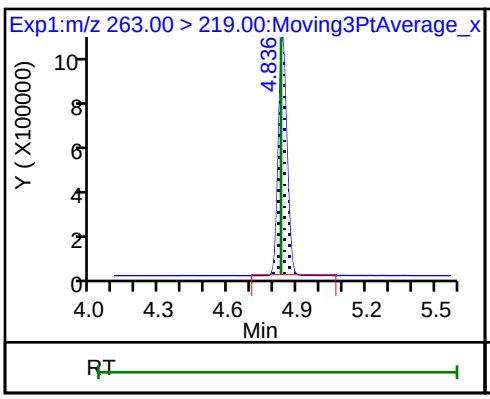
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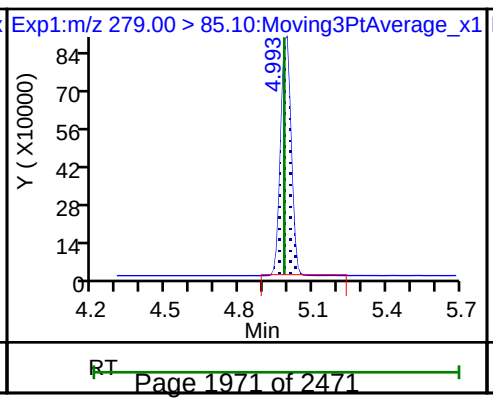
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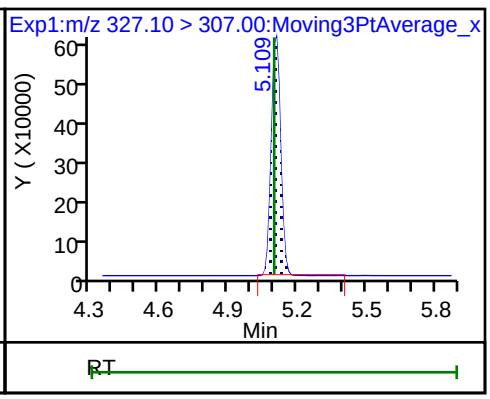
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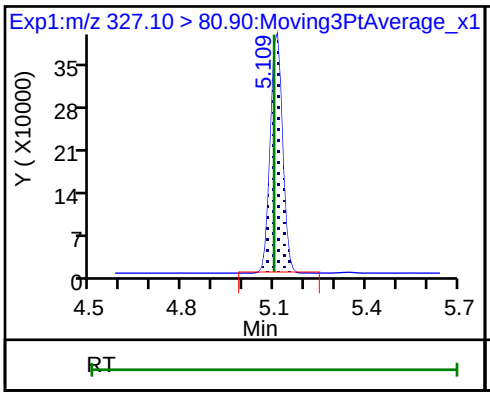
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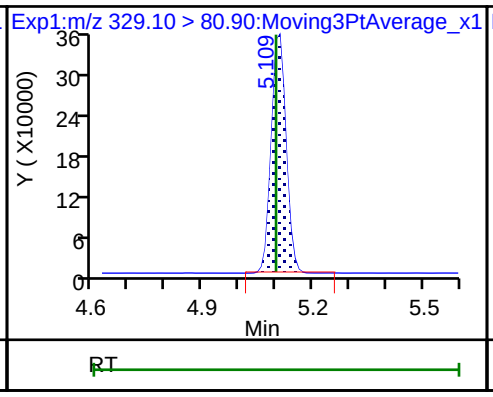
12 4:2FTS



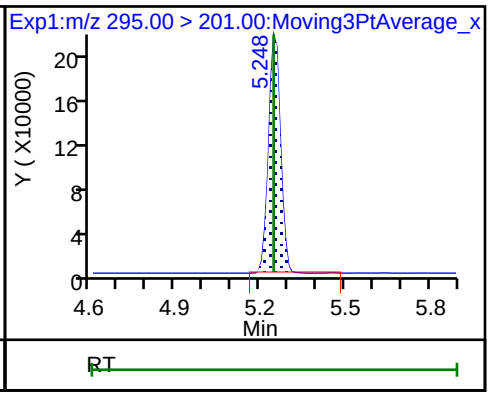
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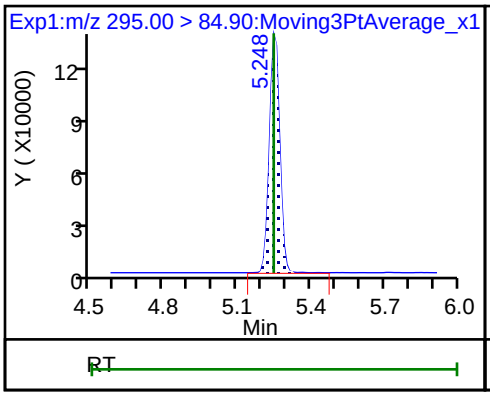
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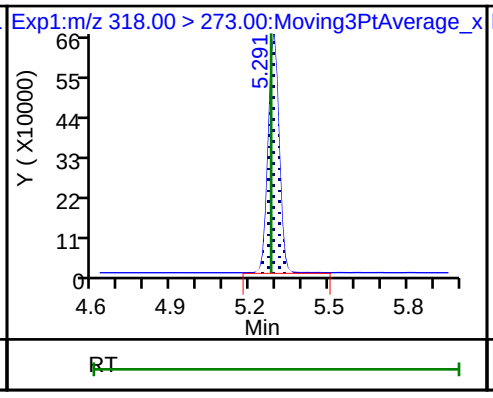
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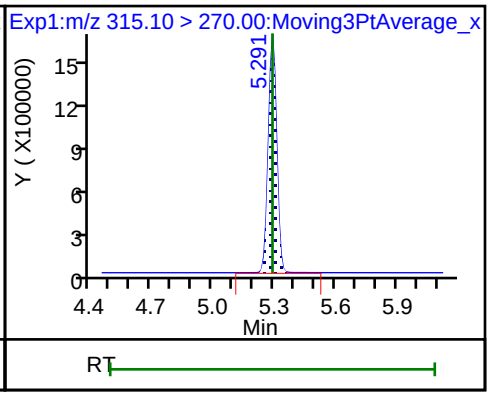
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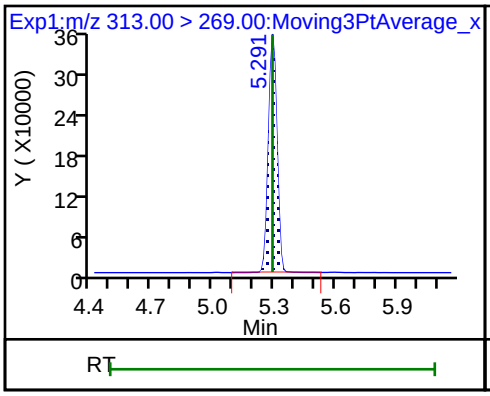
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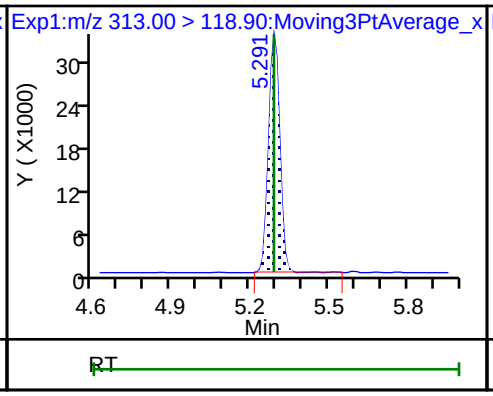
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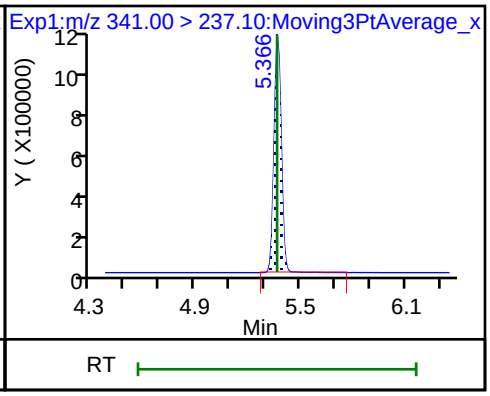
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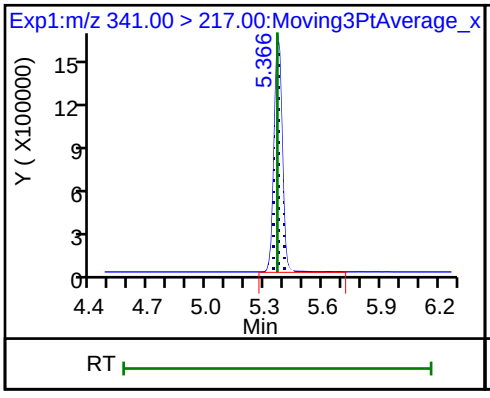
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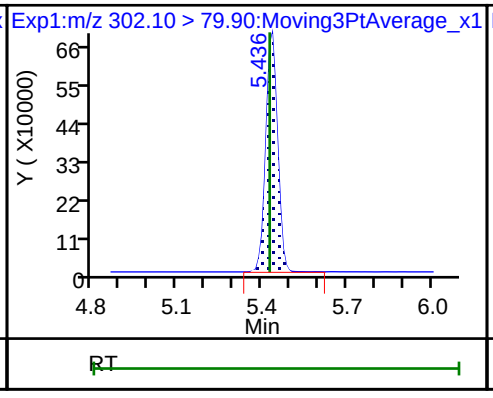
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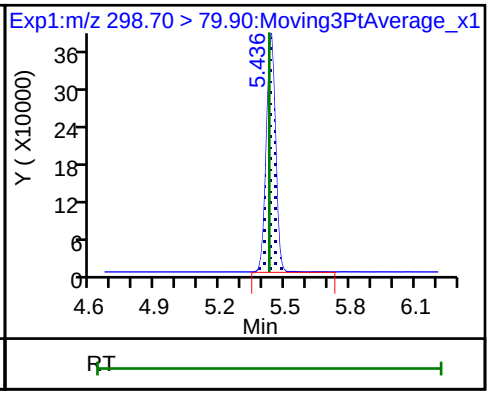
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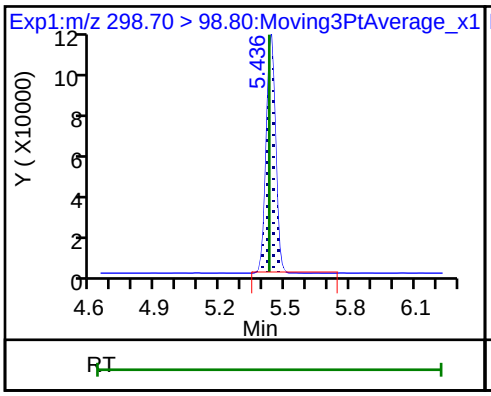
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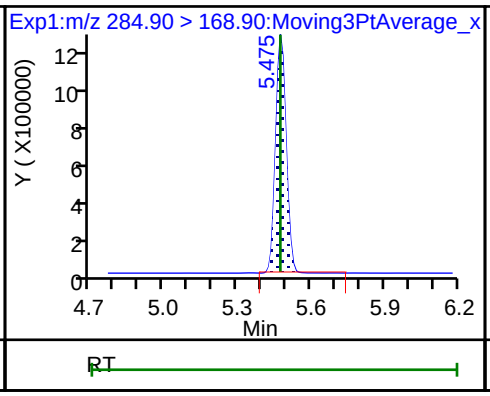
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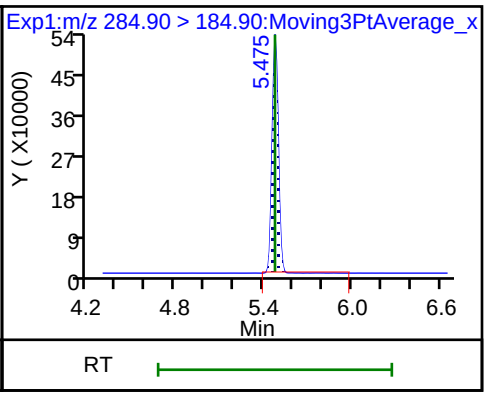
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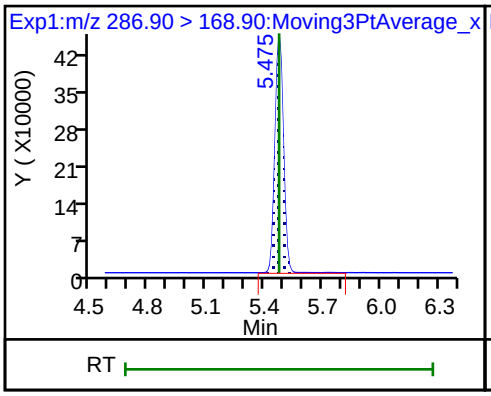
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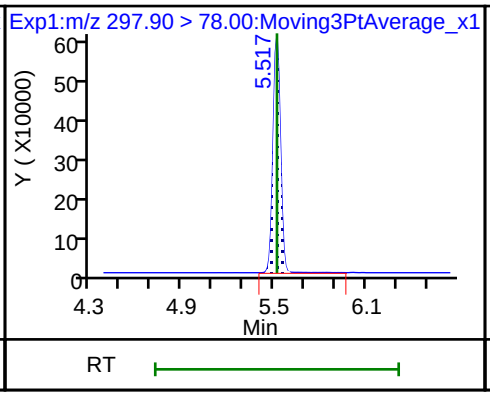
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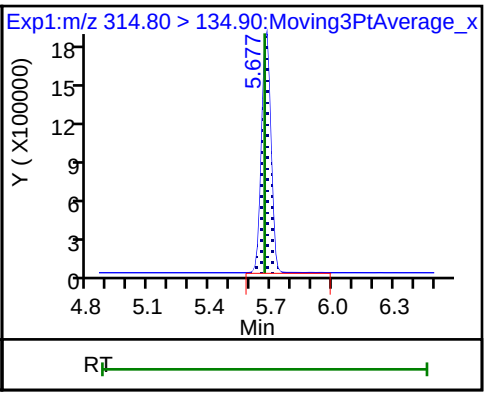
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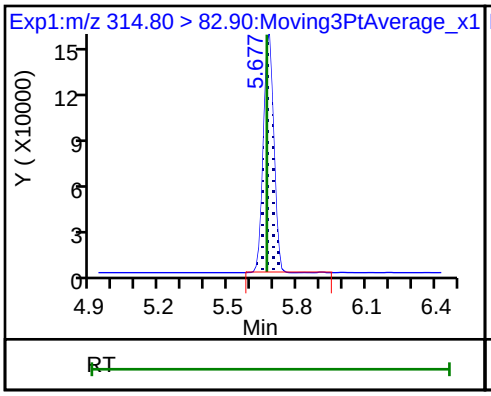
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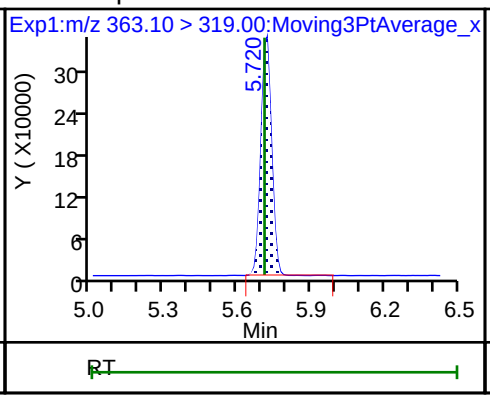
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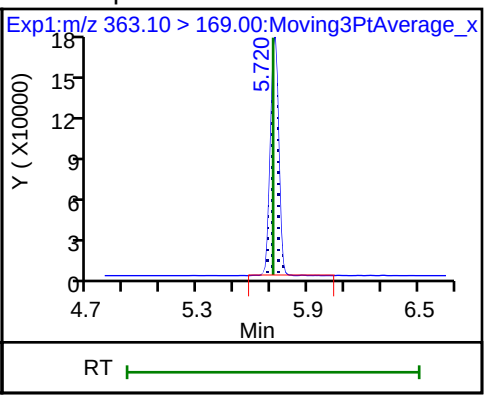
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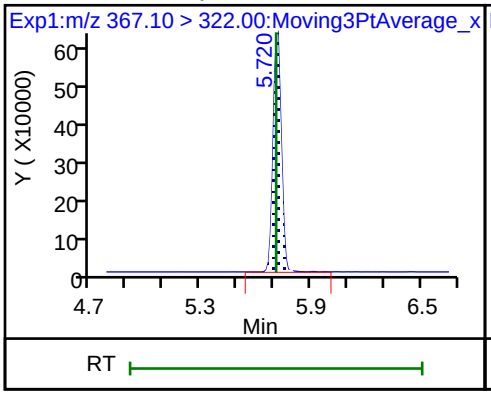
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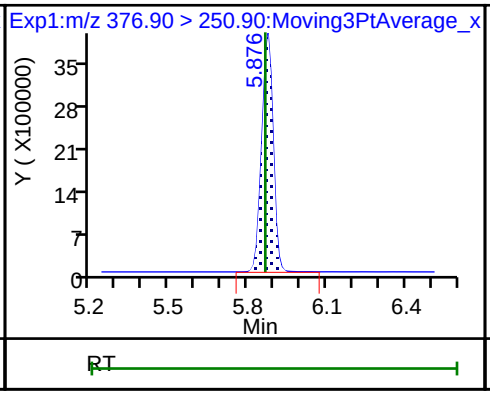
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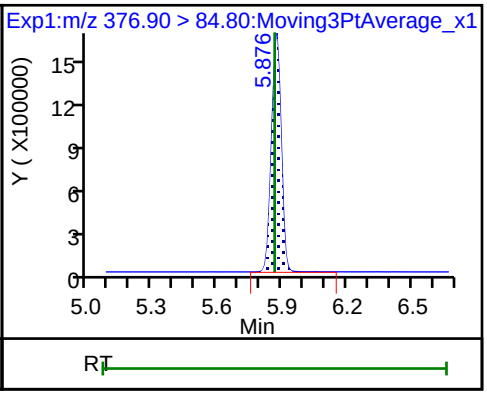
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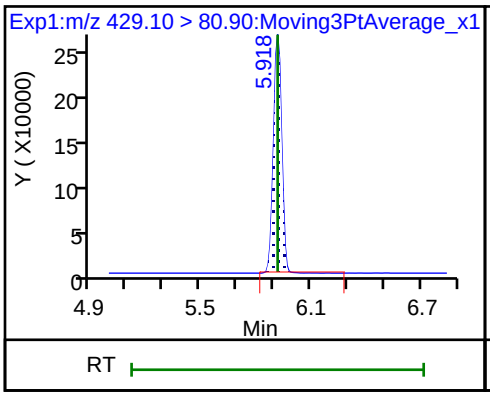
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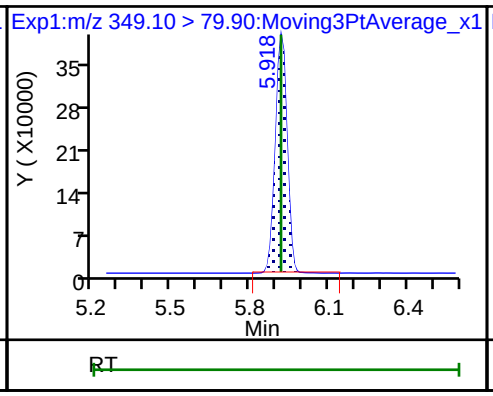
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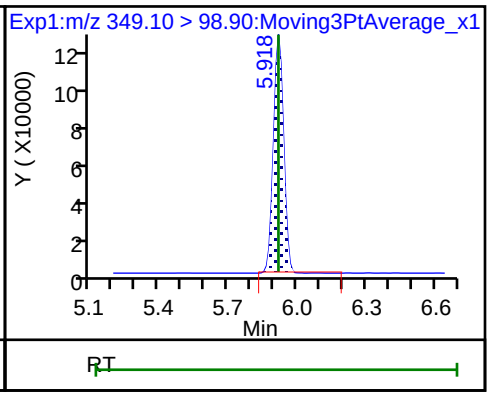
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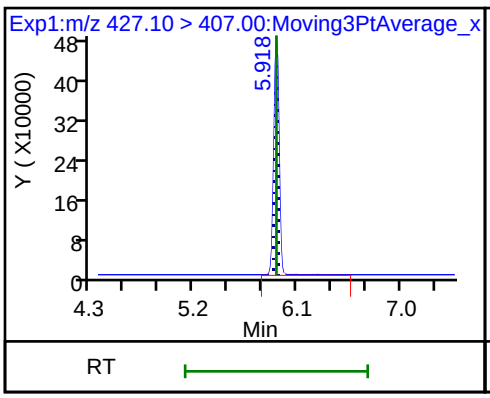
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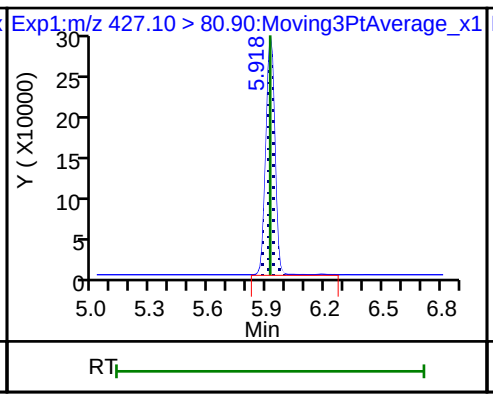
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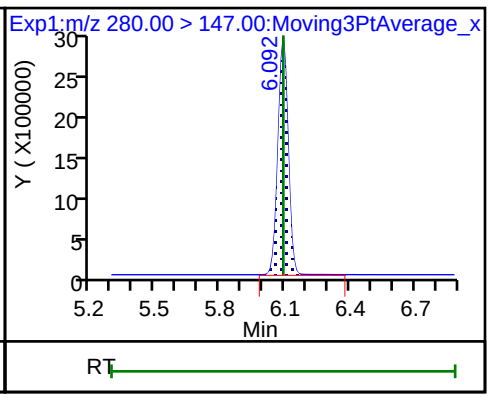
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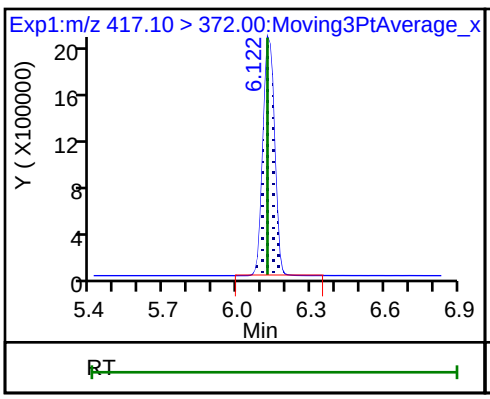
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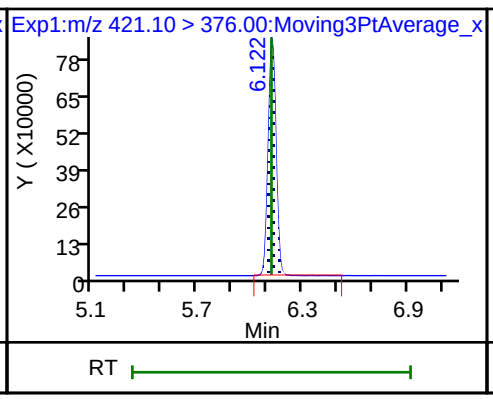
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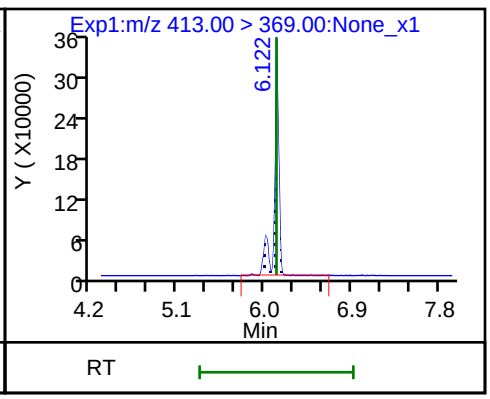
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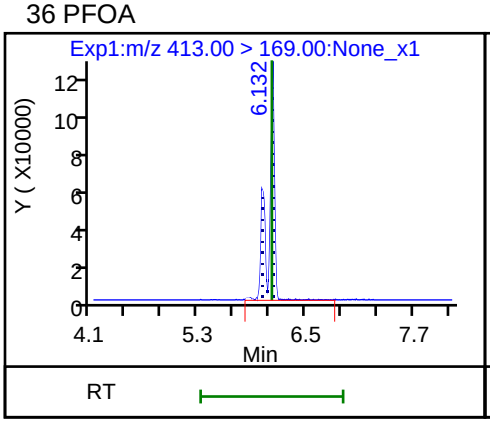
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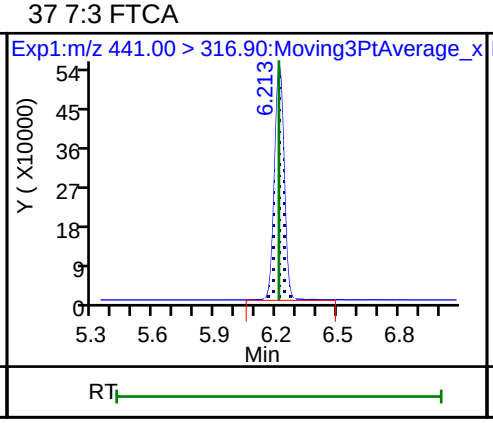
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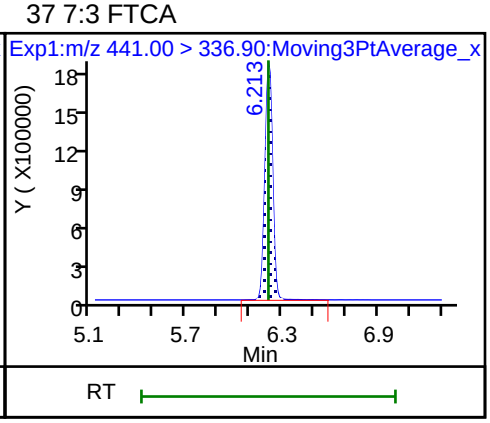
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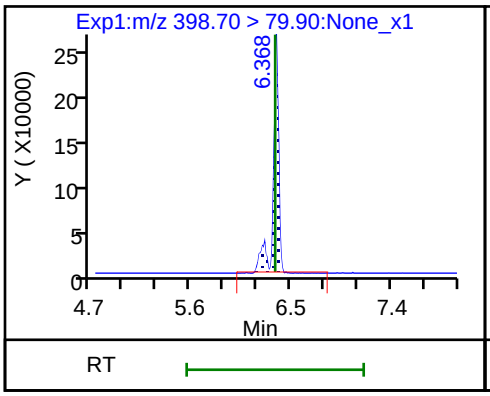
37 7:3 FTCA



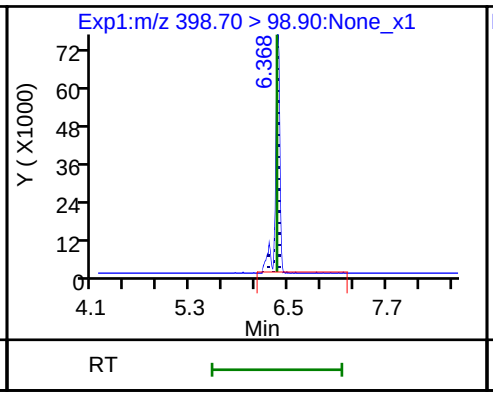
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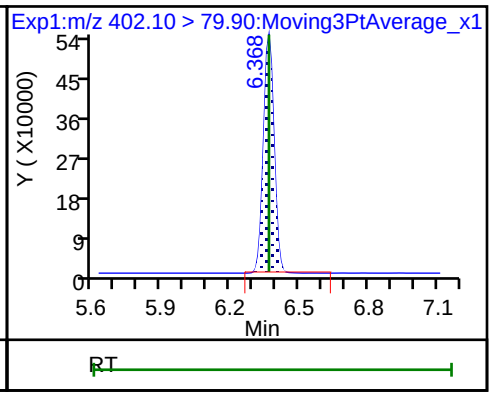
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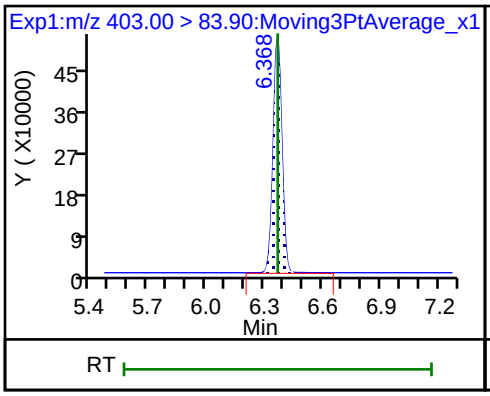
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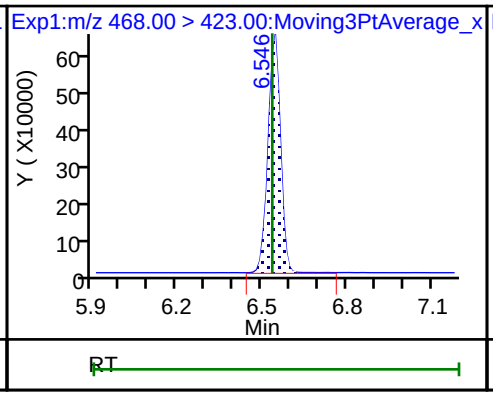
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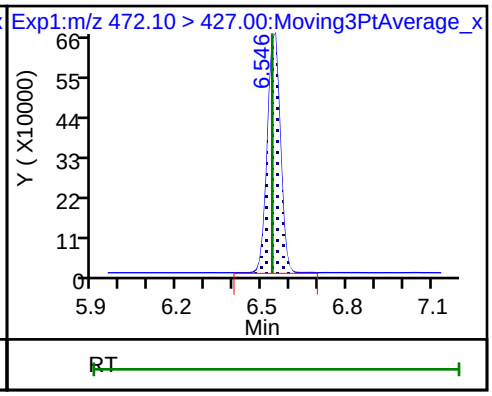
* 39 18O2 PFHxS



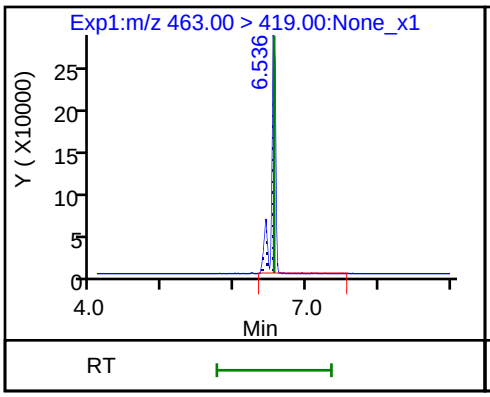
* 42 13C5 PFNA



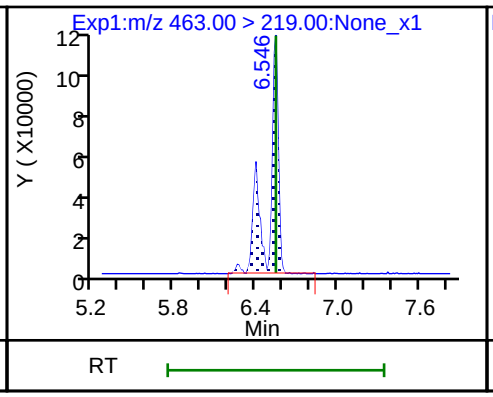
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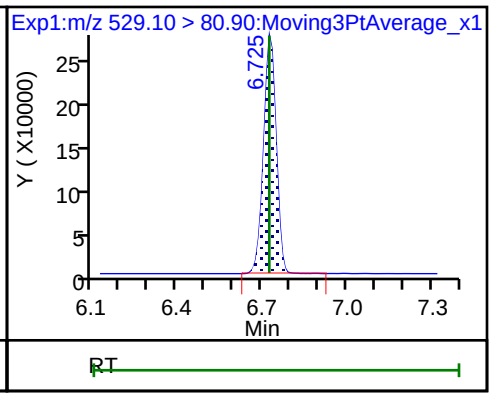
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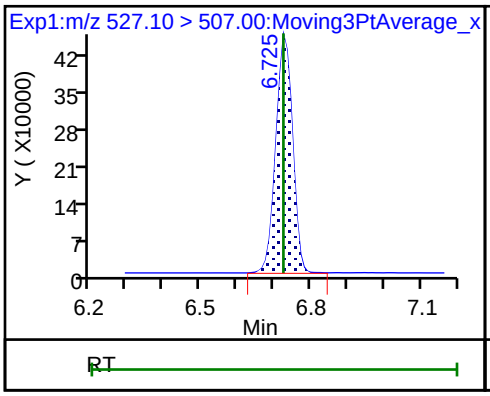
43 PFNA



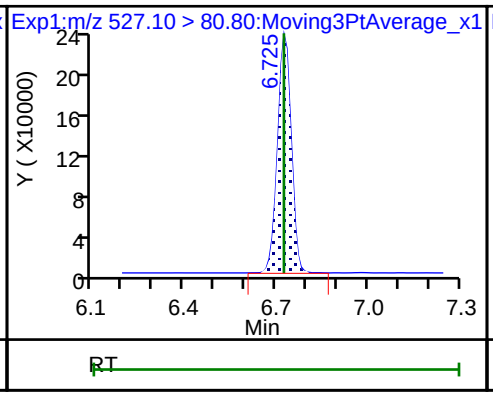
D 44 13C2-8:2FTS



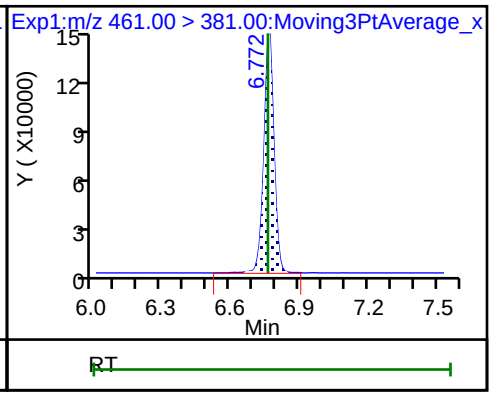
45 8:2FTS



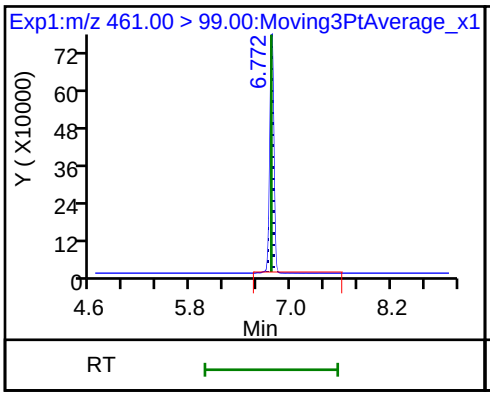
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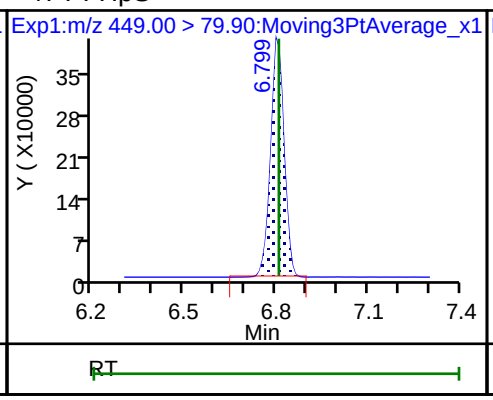
46 PFECHS



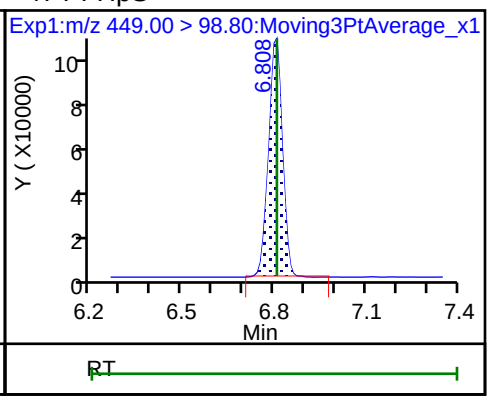
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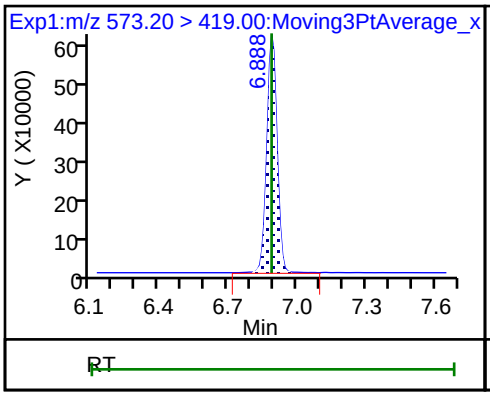
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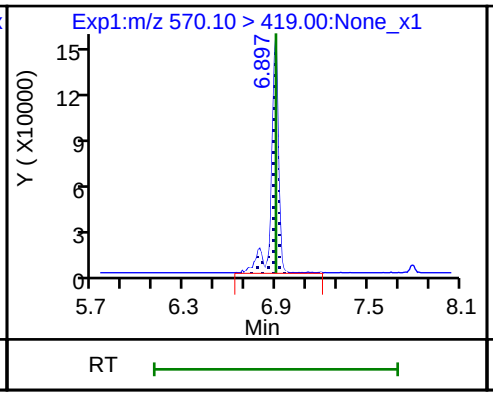
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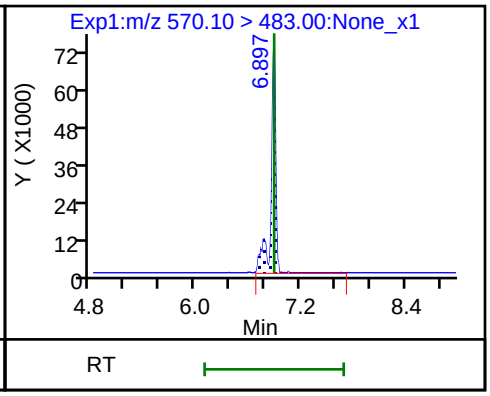
D 49 d3-NMeFOSAA



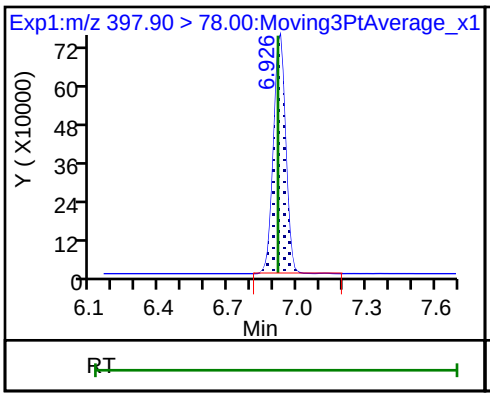
50 NMeFOSAA



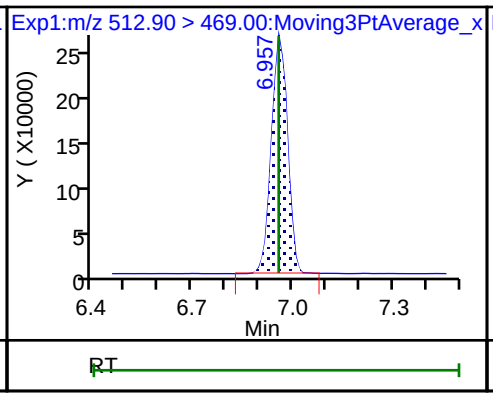
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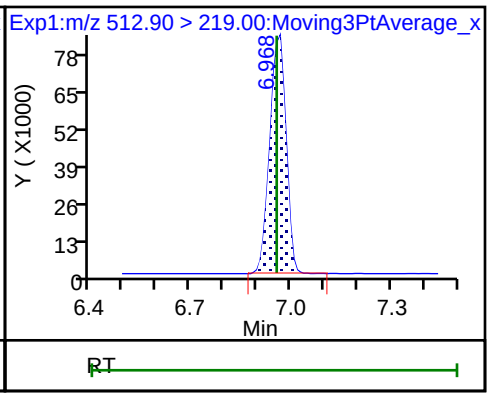
48 FHxSA



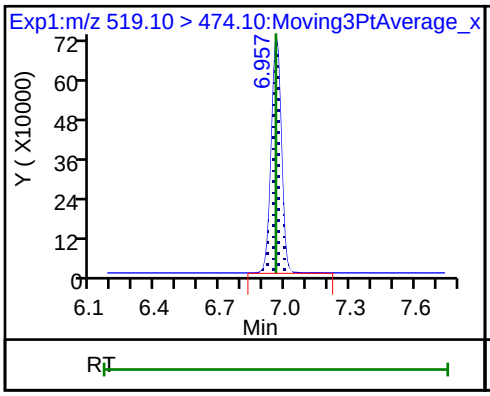
53 PFDA



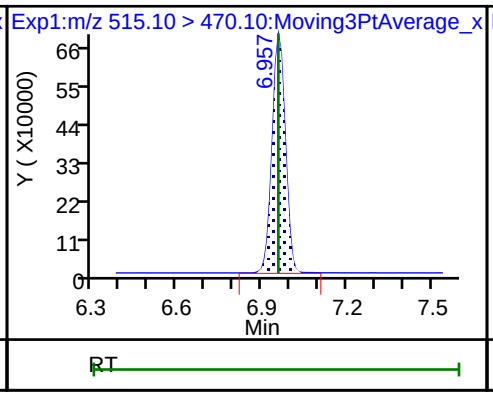
53 PFDA



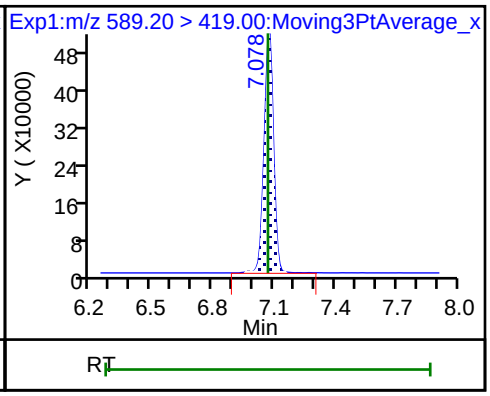
D 52 13C6 PFDA



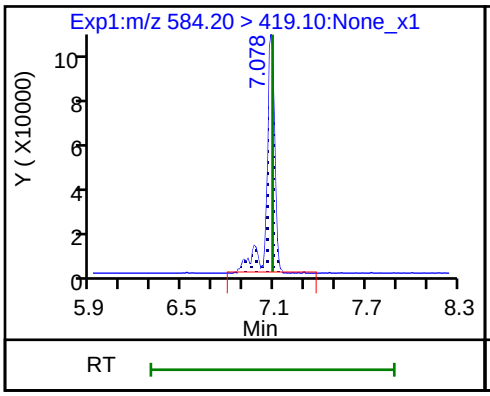
* 51 13C2 PFDA



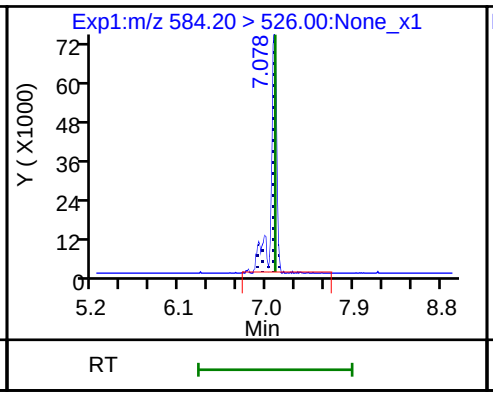
D 54 d5-NEtFOSAA



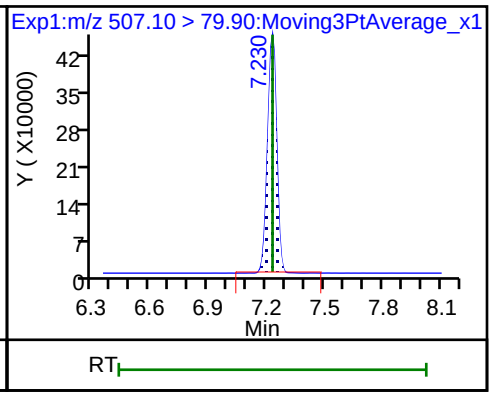
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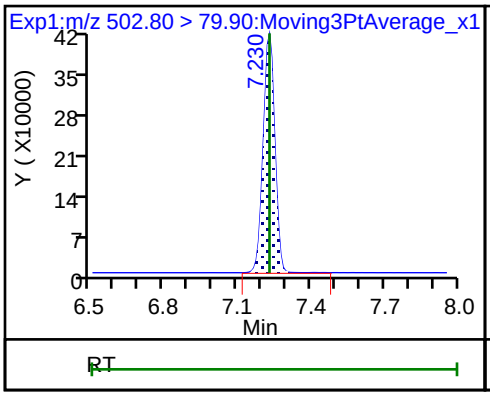
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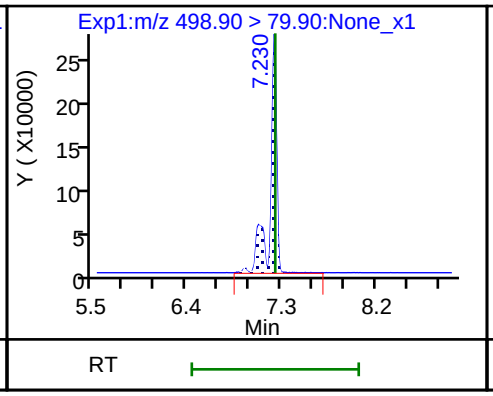
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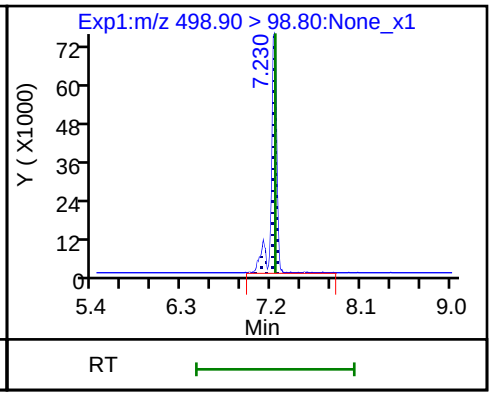
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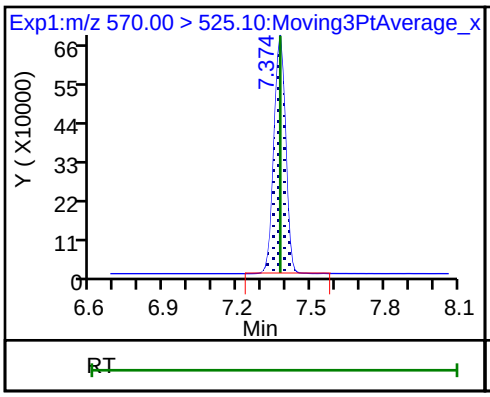
58 PFOS



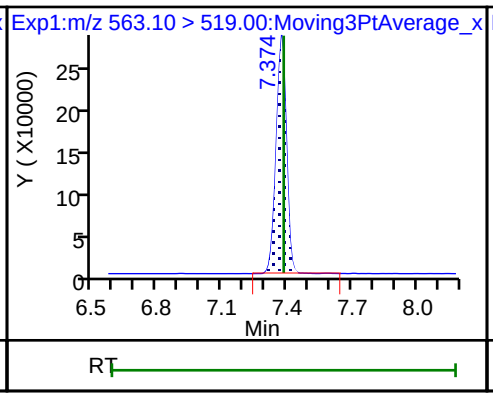
58 PFOS



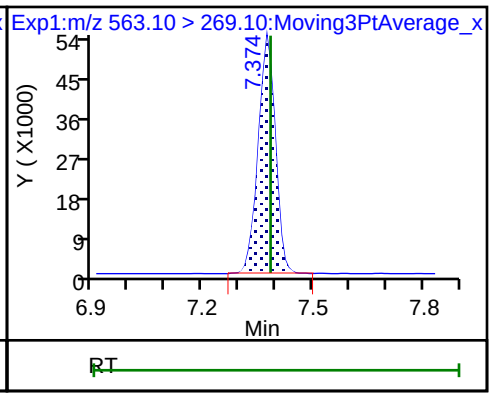
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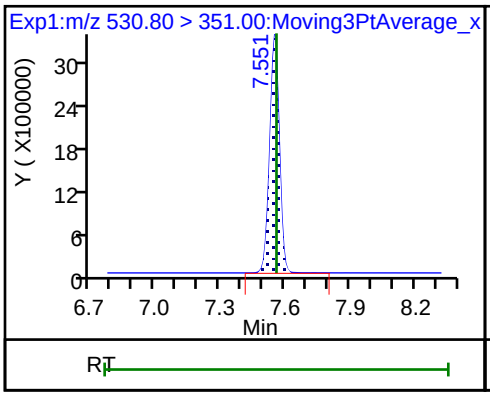
60 PFUnA



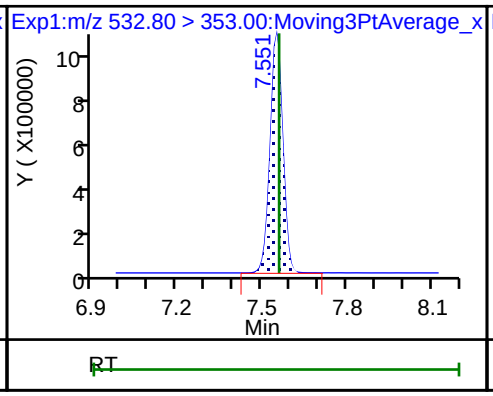
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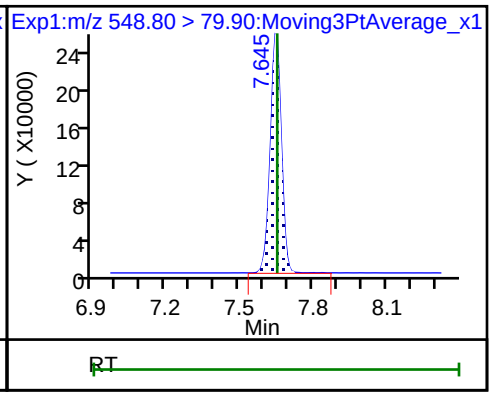
61 9ClFOS



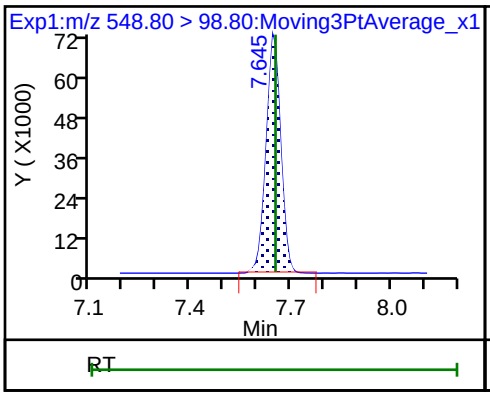
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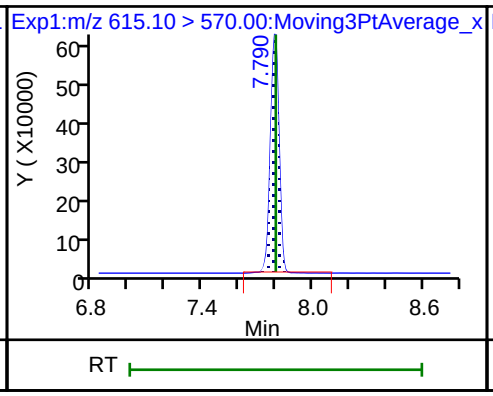
62 PFNS



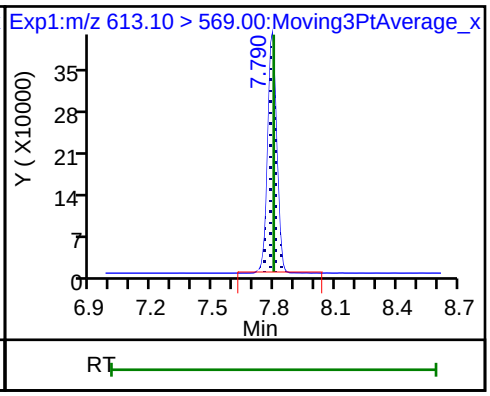
62 PFNS



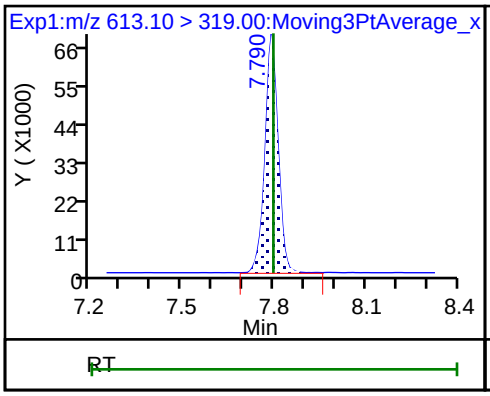
D 81 PFDoA



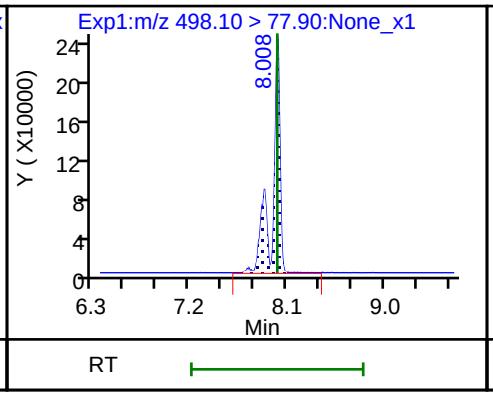
63 PFDoA



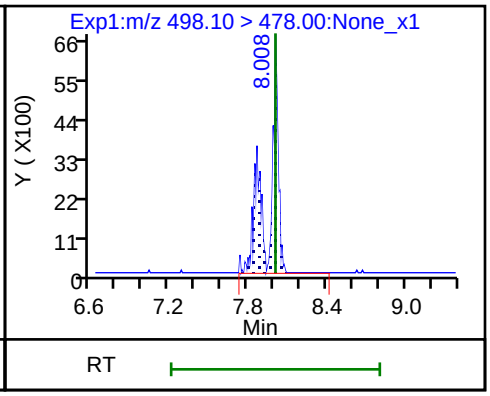
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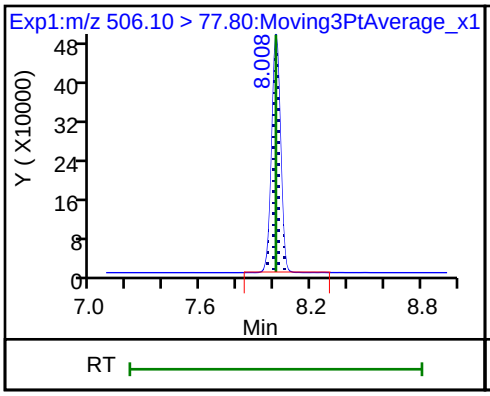
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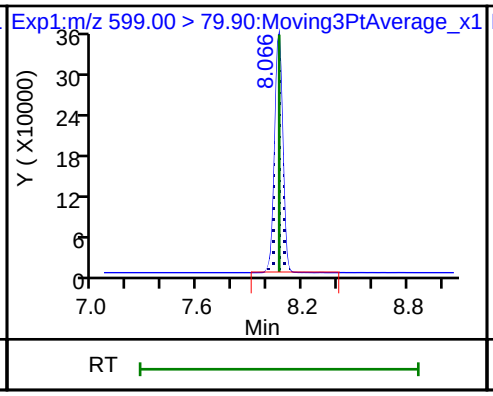
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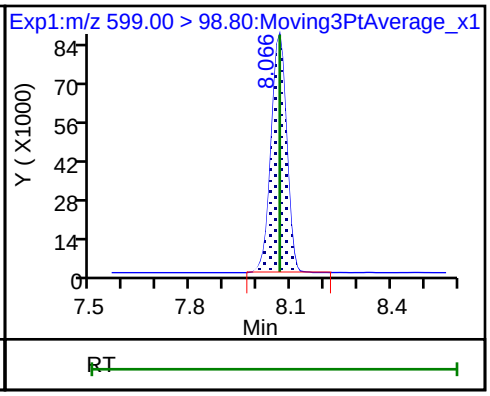
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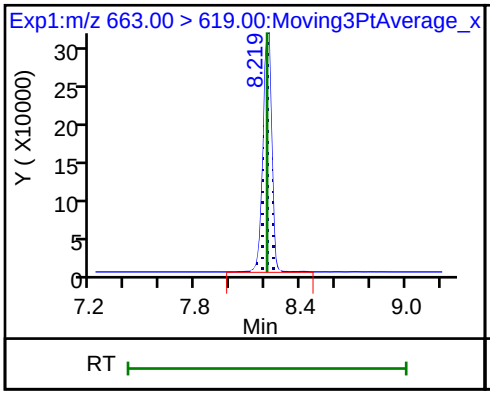
66 PFDS



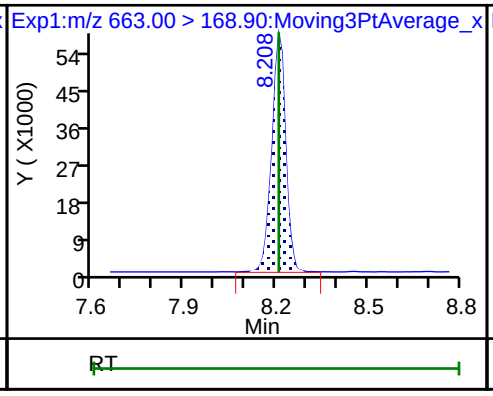
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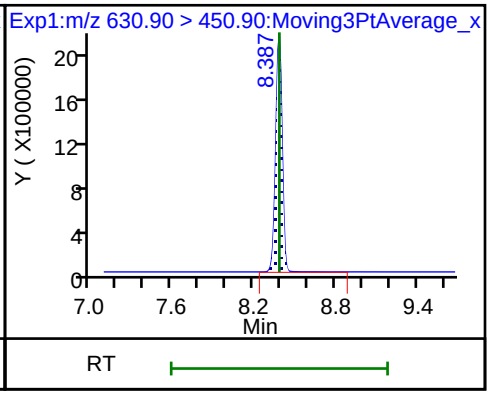
67 PFTrDA



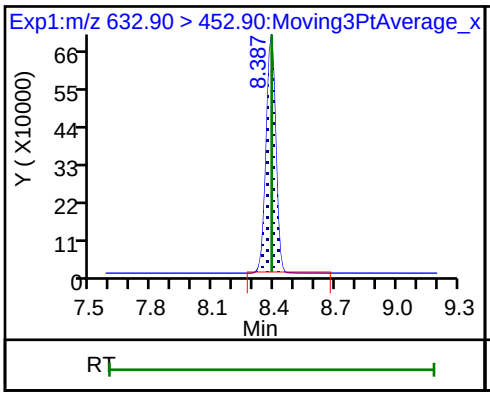
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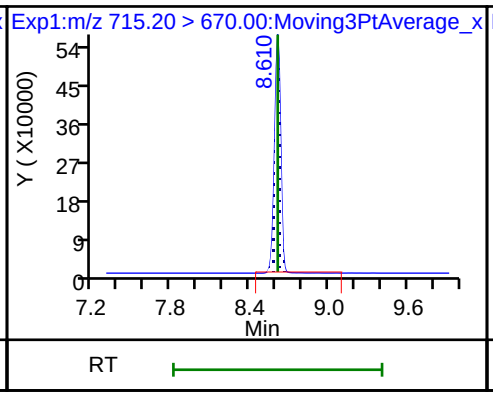
68 11ClFOS



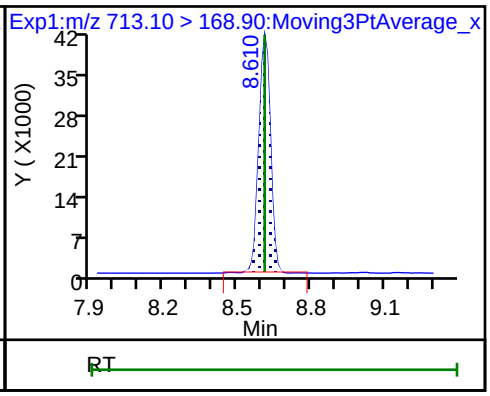
68 11ClFOS



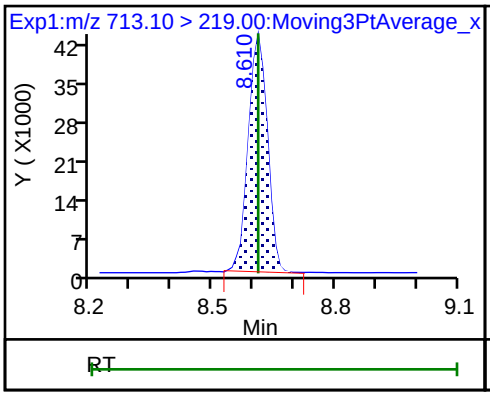
D 70 13C2 PFTeDA



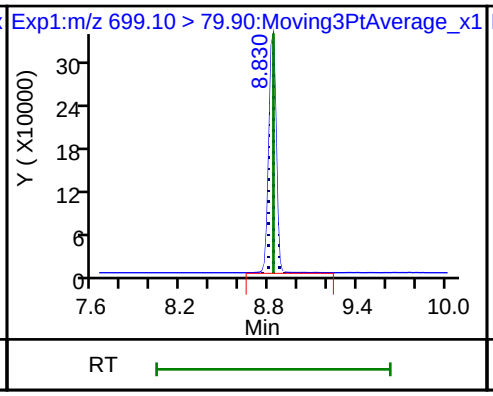
69 PFTeDA



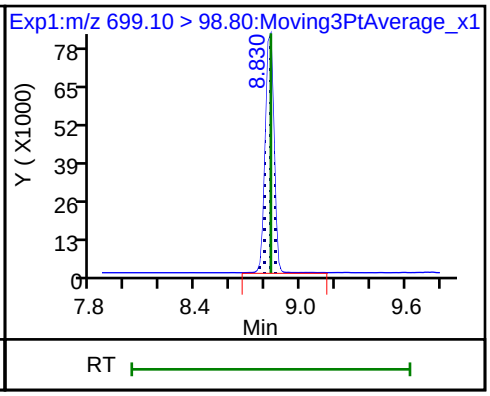
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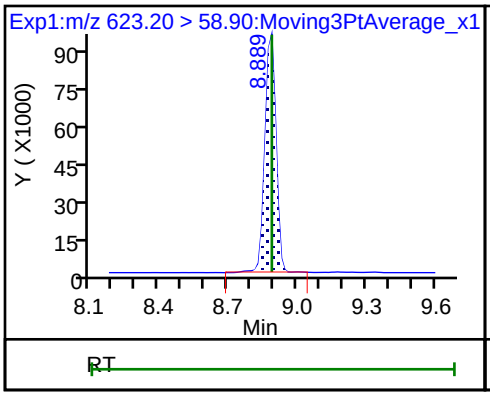
71 PFDoS



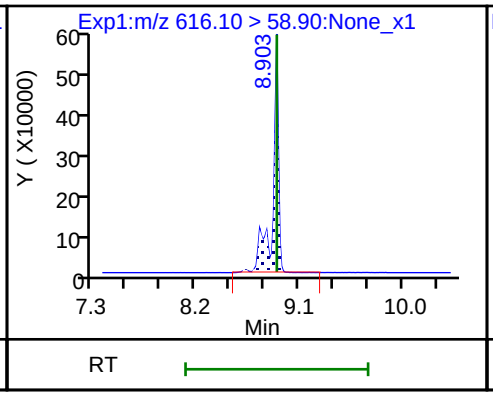
71 PFDoS



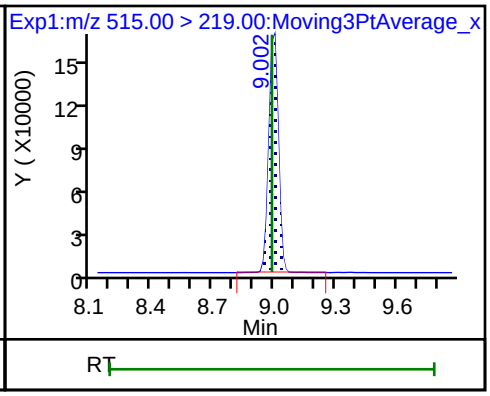
D 72 d7-N-Me-FOSE



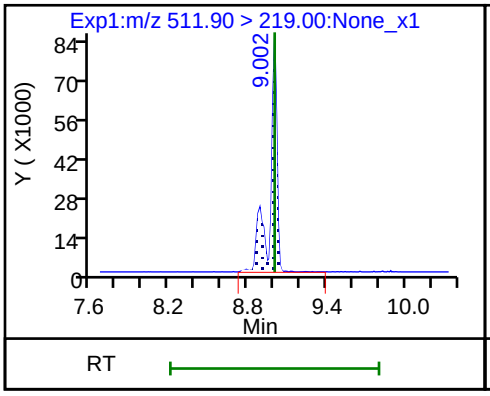
73 N-MeFOSE-M



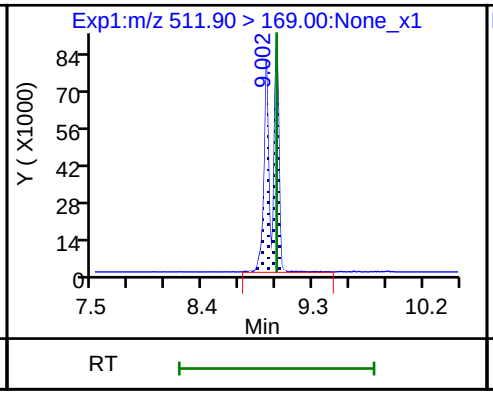
D 75 d3-NMePFOSA



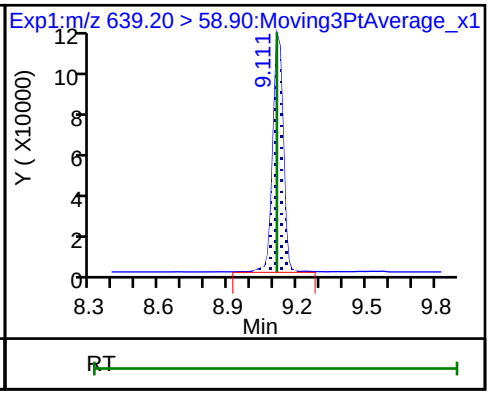
74 NMeFOSA



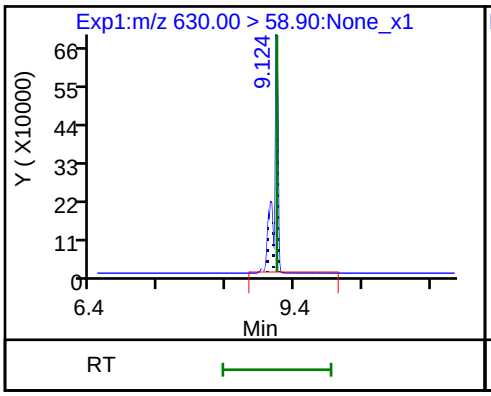
74 NMeFOSA



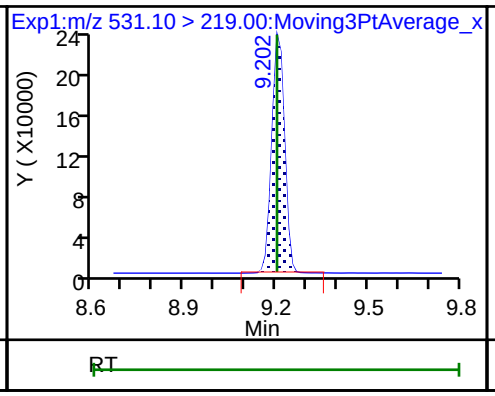
D 76 d9-N-EtFOSE



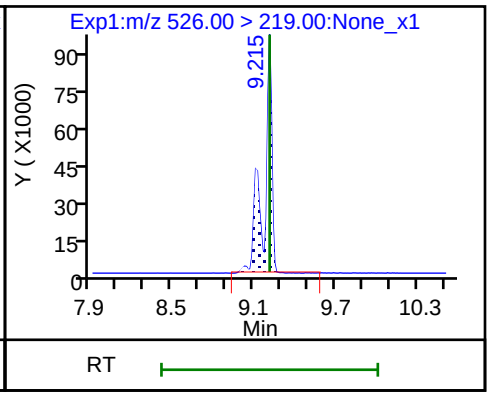
77 N-EtFOSE-M



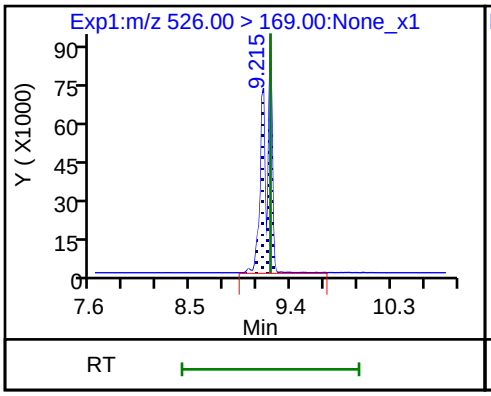
D 78 d5-NEtPFOSA



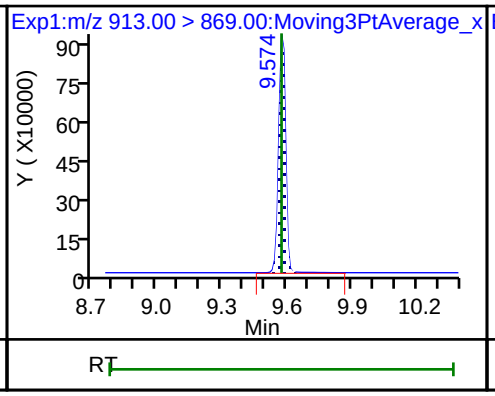
79 N-EtFOSA-M



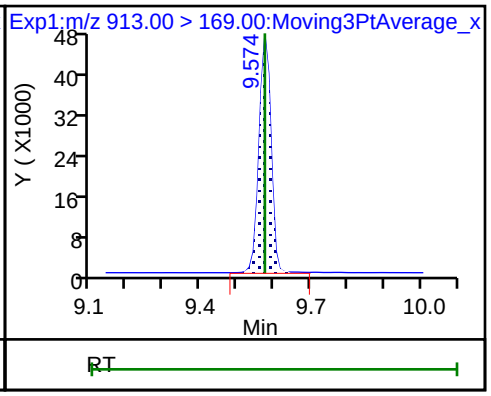
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCVO 410-765196/1 Calibration Date: 02/05/2026 11:28

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26Feb04PC-15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9186	0.9227		0.251	0.250	0.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9187	0.9453		0.103	0.100	3.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.024	0.9544		0.0466	0.0500	-7.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0493	0.0430		0.0873	0.100	-13.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.194	1.239		0.0519	0.0500	4.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	1.355	1.294		0.0478	0.0500	-4.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.850	2.074		0.105	0.0938	12.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.2495	0.3159		0.0633	0.0500	27.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8639	0.9692		0.0561	0.0500	12.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1207	0.1039		0.215	0.250	-14.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.8958	0.9059		0.0449	0.0444	1.0	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.071	1.154		0.0404	0.0375	8.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	0.7948	0.8764		0.0551	0.0500	10.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.390	2.357		0.0440	0.0446	-1.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.8398	0.9547		0.0568	0.0500	14.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.489	3.263		0.0442	0.0473	-6.0	30.0
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	AveID	1.873	1.816		0.0923	0.0952	-3.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.157	1.283		0.0521	0.0470	11.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.176	2.267		0.0510	0.0490	4.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.6200	0.7108		0.0573	0.0500	15.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.0578	0.0577		0.249	0.250	0.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	0.7727	0.8643		0.0510	0.0456	12.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.8686	0.9009		0.0519	0.0500	4.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.738	1.747		0.0965	0.0960	0.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.2248	0.2517		0.0517	0.0462	12.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.253	1.242		0.0473	0.0477	-1.0	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9737	1.086		0.0558	0.0500	12.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.304	1.307		0.0501	0.0500	0.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCVO 410-765196/1 Calibration Date: 02/05/2026 11:28

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26Feb04PC-15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.7350	0.6862		0.0467	0.0500	-7.0	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8775	0.9769		0.0557	0.0500	11.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.354	1.459		0.0501	0.0465	8.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7017	0.6264		0.0446	0.0500	-11.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.753	2.754		0.0467	0.0467	0.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8555	0.7845		0.0441	0.0481	-8.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9337	0.8405		0.0450	0.0500	-10.0	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.105	1.169		0.0529	0.0500	6.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.140	1.117		0.0472	0.0482	-2.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	0.9175	0.9875		0.0538	0.0500	8.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	1.897	1.902		0.0473	0.0472	0.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1121	0.1414		0.0631	0.0500	26.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.121	1.198		0.0518	0.0485	7.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	2.561	2.776		0.271	0.250	8.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	0.9489	0.9756		0.0514	0.0500	3.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	3.302	3.366		0.255	0.250	2.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.8695	0.8978		0.0516	0.0500	3.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9217	0.9082		0.0493	0.0500	-1.0	30.0
13C3-PFPrA	Ave	0.7584	0.7359		1.94	2.00	-3.0	30.0
13C4 PFBA	Ave	1.026	1.016		1.98	2.00	-1.0	30.0
13C5 PFPeA	Ave	0.8716	0.9511		2.18	2.00	9.0	30.0
13C2 4:2 FTS	Ave	0.2372	0.2370		4.69	4.69	0.0	30.0
13C5 PFHxA	Ave	1.060	1.104		2.08	2.00	4.0	30.0
13C3 PFBS	Ave	1.273	1.226		1.80	1.86	-4.0	30.0
13C3 HFPO-DA	Ave	0.7215	0.7861		2.18	2.00	9.0	30.0
13C4 PFHpA	Ave	1.034	1.099		2.13	2.00	6.0	30.0
13C2 6:2 FTS	Ave	0.2005	0.2193		5.20	4.76	9.0	30.0
13C8 PFOA	Ave	1.019	0.9751		1.91	2.00	-4.0	30.0
13C3 PFHxS	Ave	1.077	1.059		1.86	1.90	-2.0	30.0
13C9 PFNA	Ave	1.035	1.022		1.98	2.00	-1.0	30.0
13C2 8:2 FTS	Ave	0.2071	0.1958		4.54	4.80	-5.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCVO 410-765196/1 Calibration Date: 02/05/2026 11:28

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26Feb04PC-15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d3-NMeFOSAA	Ave	0.5156	0.4935		4.79	5.00	-4.0	30.0
13C6 PFDA	Ave	0.9857	0.9721		1.97	2.00	-1.0	30.0
d5-NEtFOSAA	Ave	0.4453	0.4435		4.98	5.00	0.0	30.0
13C8 PFOS	Ave	1.113	1.091		1.88	1.92	-2.0	30.0
13C7 PFUnA	Ave	0.9824	1.068		2.17	2.00	9.0	30.0
13C2 PFDoA	Ave	0.9443	1.037		2.20	2.00	10.0	30.0
13C8 FOSA	Ave	1.148	1.131		1.97	2.00	-2.0	30.0
13C2 PFTeDA	Ave	0.8495	0.7938		1.87	2.00	-7.0	30.0
d7-N-MeFOSE-M	Ave	0.0922	0.0908		4.93	5.00	-2.0	30.0
d3-NMePFOSA	Ave	0.3640	0.3396		1.87	2.00	-7.0	30.0
d9-N-EtFOSE-M	Ave	0.0994	0.0996		5.01	5.00	0.0	30.0
d5-NEtPFOSA	Ave	0.4679	0.4412		1.89	2.00	-6.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26Feb04PC-15.d
Lims ID: CCVO 1_CAL1
Client ID:
Sample Type: CCVO
Inject. Date: 05-Feb-2026 11:28:32 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCVO
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub12

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 18:54:10 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 18:53:03
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.018	2.018	0.0	0.482	1278706	1.94		97.0	2592	
2 Perfluoropropionic acid										
163.00 > 119.00	2.018	2.018	0.0	1.000	147489	0.2511		100	448	
3 PFBA										
212.80 > 168.90	4.180	4.180	0.0	0.998	83445	0.1029		103	853	
D 4 13C4-PFBA										
216.80 > 171.90	4.187	4.187	0.0	1.000	1765460	1.98		99.0	4447	
* 5 13C3PFBA										
216.00 > 172.00	4.187	4.187	0.0		1737613	2.00			4742	
6 PFMPA										
229.00 > 84.90	4.513	4.513	0.0	0.932	43054	0.0466		93.2	418	
7 3:3 FTCA										
241.00 > 177.00	4.522	4.522	0.0	0.933	3882	0.0873	Target=1.18	87.3	174	
241.00 > 117.00	4.522	4.522	0.0	0.933	3187		1.22(0.59-1.77)		56.3	
D 8 13C5 PFPeA										
268.30 > 223.00	4.844	4.844	0.0	0.914	1804518	2.18		109	7394	
9 PFPA										
263.00 > 219.00	4.844	4.844	0.0	1.000	55881	0.0519		104	165	
10 PFMBA										
279.00 > 85.10	4.996	4.996	0.0	1.031	58380	0.0478		95.5	504	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.121	5.121	0.0	0.803	983796	4.68		99.9	5410	
12 4:2FTS										
327.10 > 307.00	5.121	5.121	0.0	1.000	40800	0.1051	Target=1.72	112	395	
327.10 > 80.90	5.111	5.121	-0.010	0.998	25790		1.58(0.86-2.58)		33.3	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.260	5.260	0.0	0.992	16540	0.0633	Target=1.45	127	127	
295.00 > 84.90	5.260	5.260	0.0	0.992	9326		1.77(0.72-2.17)		57.2	
D 15 13C5 PFHxA										
318.00 > 273.00	5.303	5.303	0.0	1.000	2094312	2.08		104	2700	
* 16 13C2 PFHxA										
315.10 > 270.00	5.303	5.303	0.0		4743107	5.00			11475	
17 PFHxA										
313.00 > 269.00	5.303	5.303	0.0	1.000	50747	0.0561	Target=10.06	112	159	
313.00 > 118.90	5.303	5.303	0.0	1.000	4435		11.44(5.03-15.10)		47.5	
18 5:3 FTCA										
341.00 > 237.10	5.389	5.389	0.0	1.016	27208	0.2153	Target=0.78	86.1	187	
341.00 > 217.00	5.378	5.389	-0.011	1.014	32554		0.84(0.39-1.17)		199	
D 19 13C3 PFBS										
302.10 > 79.90	5.437	5.437	0.0	0.852	2023333	1.80		96.3	5468	
20 PFBS										
298.70 > 79.90	5.446	5.446	0.0	1.002	43660	0.0449	Target=3.14	101	365	
298.70 > 98.80	5.437	5.446	-0.009	1.000	13607		3.21(1.57-4.71)		124	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.486	5.486	0.0	1.035	1491444	2.18		109	4695	
23 HFPO-DA										
284.90 > 168.90	5.486	5.486	0.0	1.000	32274	0.0404	Target=2.75	108	179	
284.90 > 184.90	5.486	5.486	0.0	1.000	11460		2.82(1.37-4.12)		89.3	
21 FBSA										
297.90 > 78.00	5.530	5.530	0.0	1.017	47568	0.0551		110	254	
26 PFEESA										
314.80 > 134.90	5.679	5.679	0.0	1.071	110090	0.0440	Target=11.75	98.6	546	
314.80 > 82.90	5.679	5.679	0.0	1.071	9147		12.04(5.88-17.63)		83.6	
27 PFHpA										
363.10 > 319.00	5.722	5.722	0.0	0.998	49777	0.0568	Target=1.87	114	110	
363.10 > 169.00	5.732	5.722	0.010	1.000	24365		2.04(0.94-2.81)		113	
D 28 13C4 PFHpA										
367.10 > 322.00	5.732	5.732	0.0	1.081	2085537	2.13		106	4127	
29 ADONA										
376.90 > 250.90	5.888	5.888	0.0	1.073	115100	0.0442	Target=2.13	93.5	602	
376.90 > 84.80	5.888	5.888	0.0	1.073	53512		2.15(1.07-3.20)		333	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.930	5.930	0.0	0.930	923871	5.20		109	3969	
30 PFPeS										
349.10 > 79.90	5.930	5.930	0.0	0.930	56524	0.0521	Target=3.24	111	252	
349.10 > 98.90	5.930	5.930	0.0	0.930	16278		3.47(1.62-4.86)		121	
31 6:2FTS										
427.10 > 407.00	5.930	5.930	0.0	1.000	33553	0.0923	Target=1.63	97.0	98.6	
427.10 > 80.90	5.930	5.930	0.0	1.000	19349		1.73(0.82-2.45)		52.0	
33 BTS										
280.00 > 147.00	6.093	6.093	0.0	0.955	103968	0.0510		104	721	
* 34 13C4 PFOA										
417.10 > 372.00	6.143	6.143	0.0		6977947	5.00			4871	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.143	6.143	0.0	1.000	2721591	1.91		95.7	4795	
36 PFOA										M
413.00 > 369.00	6.143	6.143	0.0	1.000	48365	0.0573	Target=1.91	115	49.2	
413.00 > 169.00	6.133	6.143	-0.010	0.998	24155		2.00(0.96-2.87)		27.5	M
37 7:3 FTCA										
441.00 > 316.90	6.234	6.234	0.0	1.176	15094	0.2493	Target=0.31	99.7	76.6	
441.00 > 336.90	6.234	6.234	0.0	1.176	53408		0.28(0.16-0.47)		245	
40 PFHxS										M
398.70 > 79.90	6.369	6.369	0.0	0.998	36932	0.0510	Target=3.07	112	78.8	
398.70 > 98.90	6.379	6.369	0.010	1.000	11174		3.31(1.53-4.60)		37.9	M
* 39 18O2 PFHxS										
403.00 > 83.90	6.379	6.379	0.0		1678281	1.90			3815	
D 38 13C3 PFHxS										
402.10 > 79.90	6.379	6.379	0.0	1.000	1776678	1.86		98.3	6335	
D 41 13C9 PFNA										
472.10 > 427.00	6.549	6.549	0.0	0.998	2074438	1.98		98.8	4911	
* 42 13C5 PFNA										
468.00 > 423.00	6.560	6.560	0.0		2029077	2.00			2947	
43 PFNA										
463.00 > 419.00	6.570	6.570	0.0	1.003	46724	0.0519	Target=2.01	104	76.6	
463.00 > 219.00	6.560	6.570	-0.010	1.002	22392		2.09(1.01-3.02)		50.2	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.737	6.737	0.0	1.056	831863	4.54		94.5	3342	
45 8:2FTS										
527.10 > 507.00	6.737	6.737	0.0	1.000	29057	0.0965	Target=1.99	100	229	
527.10 > 80.80	6.737	6.737	0.0	1.000	13837		2.10(0.99-2.98)		88.1	
46 PFECHS										
461.00 > 381.00	6.774	6.774	0.0	1.062	10898	0.0517	Target=0.18	112	81.8	
461.00 > 99.00	6.774	6.774	0.0	1.062	54968		0.20(0.09-0.27)		178	
47 PFHpS										
449.00 > 79.90	6.811	6.811	0.0	0.941	47755	0.0473	Target=3.87	99.2	195	
449.00 > 98.80	6.811	6.811	0.0	0.941	12363		3.86(1.94-5.81)		59.7	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.899	6.899	0.0	0.953	1822209	4.79		95.7	1841	
50 NMeFOSAA										
570.10 > 419.00	6.909	6.909	0.0	1.001	19788	0.0558	Target=1.74	112	3.2	
570.10 > 483.00	6.918	6.909	0.009	1.003	12004		1.65(0.87-2.61)		21.2	
48 FHxSA										
397.90 > 78.00	6.959	6.959	0.0	1.091	61222	0.0501		100	374	
53 PFDA										
512.90 > 469.00	6.970	6.970	0.0	1.000	35087	0.0467	Target=3.37	93.4	196	
512.90 > 219.00	6.970	6.970	0.0	1.000	11373		3.09(1.69-5.06)		38.4	
* 51 13C2 PFDA										
515.10 > 470.10	6.970	6.970	0.0		2103959	2.00			7825	
D 52 13C6 PFDA										
519.10 > 474.10	6.970	6.970	0.0	1.000	2045264	1.97		98.6	6529	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.090	7.090	0.0	0.979	1637495	4.98		99.6	4065	
55 NEtFOSAA										
584.20 > 419.10	7.100	7.100	0.0	1.001	15997	0.0557	Target=1.30	111	33.3	
584.20 > 526.00	7.090	7.100	-0.010	1.000	12264		1.30(0.65-1.95)		32.6	
58 PFOS										
498.90 > 79.90	7.232	7.232	0.0	0.999	54678	0.0501	Target=4.60	108	108	
498.90 > 98.80	7.241	7.232	0.009	1.000	13307		4.11(2.30-6.91)		36.1	
* 57 13C4 PFOS										
502.80 > 79.90	7.241	7.241	0.0		1414893	1.92			6454	
D 56 13C8 PFOS										
507.10 > 79.90	7.241	7.241	0.0	1.000	1543980	1.88		98.1	8004	
D 59 13C7 PFUnA										
570.00 > 525.10	7.387	7.387	0.0	1.060	2246366	2.17		109	4427	
60 PFUnA										
563.10 > 519.00	7.397	7.397	0.0	1.001	35178	0.0446	Target=4.93	89.3	157	
563.10 > 269.10	7.397	7.397	0.0	1.001	7511		4.68(2.47-7.40)		46.7	
61 9ClFOS										
530.80 > 351.00	7.562	7.562	0.0	1.044	103629	0.0467	Target=3.12	100	1349	
532.80 > 353.00	7.562	7.562	0.0	1.044	35480		2.92(1.56-4.68)		439	
62 PFNS										
548.80 > 79.90	7.664	7.664	0.0	1.058	30409	0.0441	Target=3.51	91.7	340	
548.80 > 98.80	7.656	7.664	-0.008	1.057	8306		3.66(1.75-5.26)		116	
63 PFDoA										
613.10 > 569.00	7.791	7.791	0.0		45828	0.0450	Target=5.93	90.0	262	
613.10 > 319.00	7.813	7.791	0.022		9552		4.80(2.96-8.89)		61.5	
D 81 PFDoA										
615.10 > 570.00	7.806	7.806	0.0	1.120	2180995	2.20		110	2932	
64 PFOSA										
498.10 > 77.90	8.027	8.027	0.0	0.999	48801	0.0529	Target=41.04	106	128	
498.10 > 478.00	7.924	8.027	-0.103	0.986	1232		39.61(20.52-61.57)		0.9	
D 65 13C8 FOSA										
506.10 > 77.80	8.035	8.035	0.0	1.110	1669731	1.97		98.5	7132	
66 PFDS										
599.00 > 79.90	8.068	8.068	0.0	1.114	43382	0.0472	Target=3.81	98.0	549	
599.00 > 98.80	8.068	8.068	0.0	1.114	11011		3.94(1.91-5.72)		3803	
67 PFTrDA										
663.00 > 619.00	8.221	8.221	0.0	0.955	47538	0.0538	Target=6.20	108	222	
663.00 > 168.90	8.210	8.221	-0.011	0.953	6414		7.41(3.10-9.31)		54.1	
68 11ClFOS										
630.90 > 450.90	8.388	8.388	0.0	1.159	72348	0.0473	Target=3.04	100	1164	
632.90 > 452.90	8.388	8.388	0.0	1.159	23316		3.10(1.52-4.56)		389	
69 PFTeDA										
713.10 > 168.90	8.611	8.611	0.0	1.000	5906	0.0631	Target=1.02	126	106	
713.10 > 219.00	8.611	8.611	0.0	1.000	5838		1.01(0.51-1.53)		113	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.611	8.611	0.0	1.236	1670197	1.87		93.4	3788	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.815	8.815	0.0	1.217	46819	0.0518	Target=4.04	107	304	
699.10 > 98.80	8.815	8.815	0.0	1.217	11128		4.21(2.02-6.05)		176	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.889	8.889	0.0	1.228	335263	4.92		98.5	854	
73 N-MeFOSE-M										
616.10 > 58.90	8.904	8.904	0.0	1.002	46532	0.2710		108	73.1	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.002	9.002	0.0	1.243	501574	1.87		93.3	2722	
74 NMeFOSA										
511.90 > 219.00	9.017	9.017	0.0	1.002	12234	0.0514	Target=0.72	103	66.4	
511.90 > 169.00	9.017	9.017	0.0	1.002	19011		0.64(0.36-1.08)		45.5	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.125	9.125	0.0	1.260	367769	5.01		100	885	
77 N-EtFOSE-M										
630.00 > 58.90	9.152	9.152	0.0	1.003	61900	0.2548		102	96.2	
79 N-EtFOSA-M										
526.00 > 219.00	9.215	9.215	0.0	1.000	14627	0.0516	Target=0.87	103	96.3	
526.00 > 169.00	9.215	9.215	0.0	1.000	18117		0.81(0.44-1.31)		92.3	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.215	9.215	0.0	1.273	651686	1.89		94.3	1920	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.542	9.542	0.0	1.108	37921	0.0493	Target=17.02	98.5	872	
913.00 > 169.00	9.532	9.542	-0.010	1.107	1990		19.06(8.51-25.52)		165	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_CAL1_00080 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 18:54:13 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26Feb04PC-15.d

Injection Date: 05-Feb-2026 11:28:32 Instrument ID: 30577

Lims ID: CCVO 1_CAL1

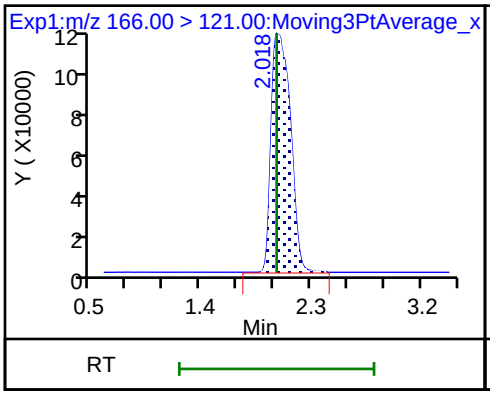
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Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 2 Worklist Smp#: 1

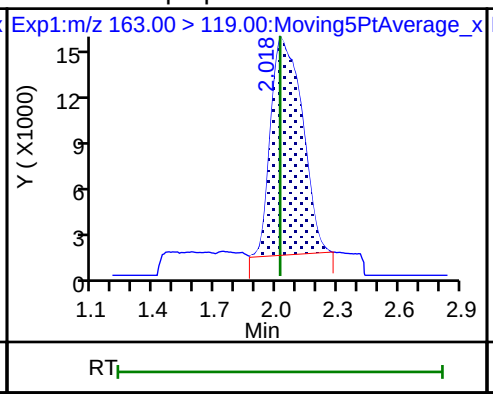
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Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

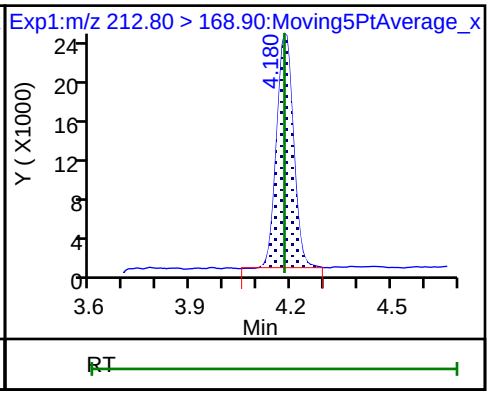
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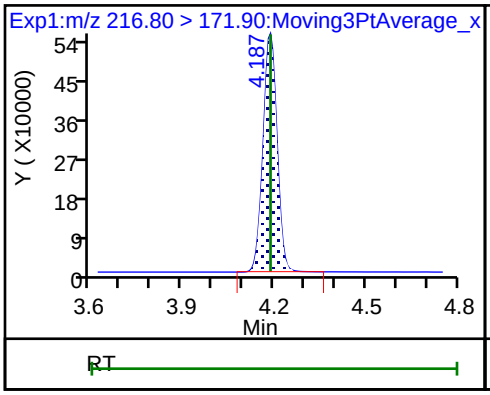
2 Perfluoropropionic acid



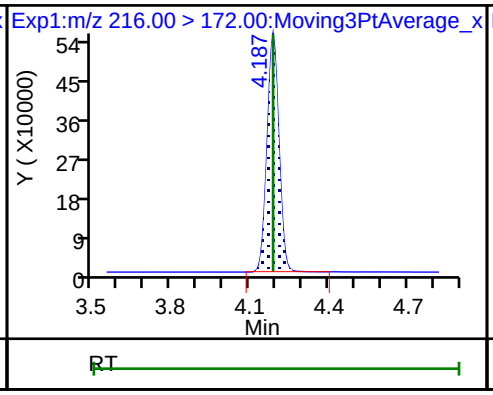
3 PFBA



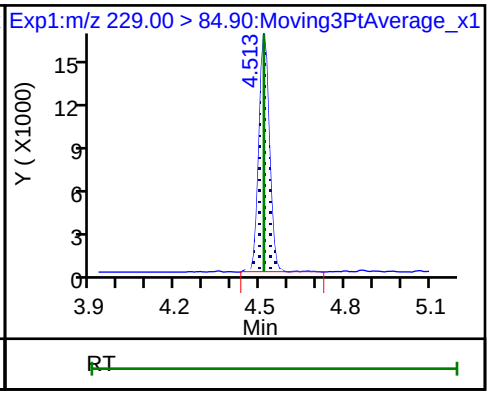
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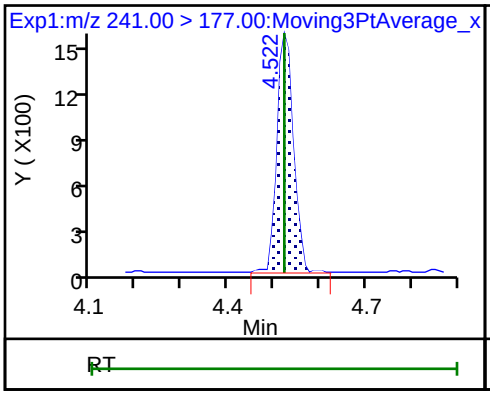
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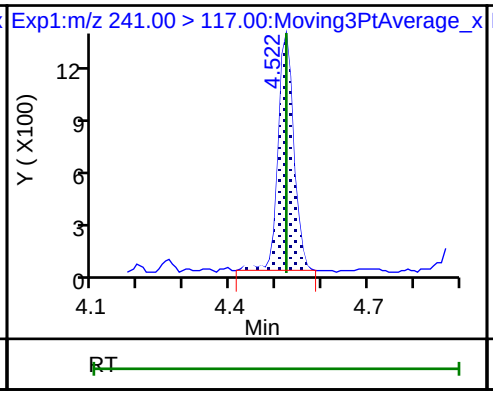
6 PFMPA



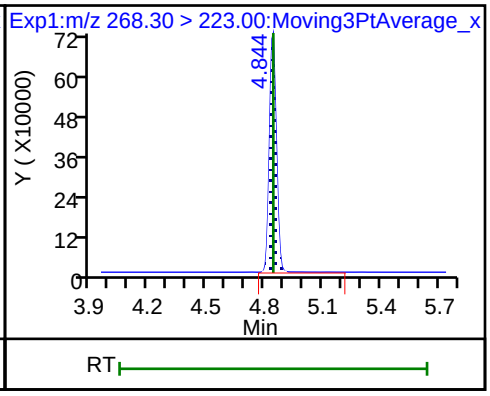
7 3:3 FTCA



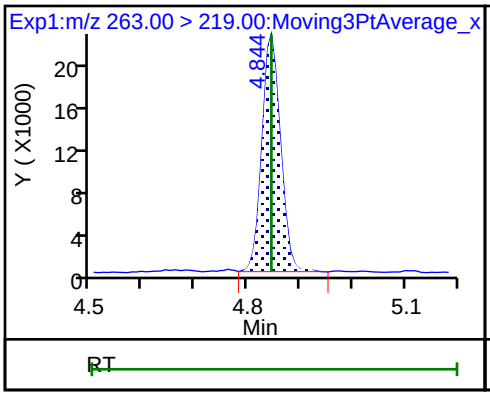
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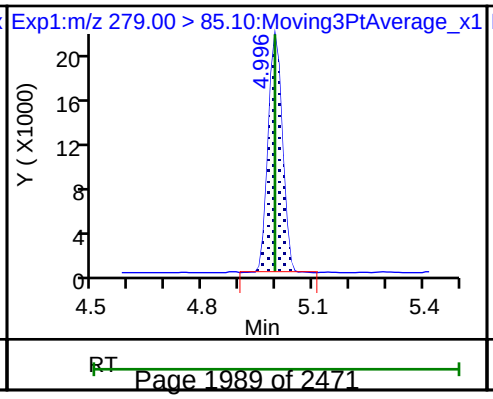
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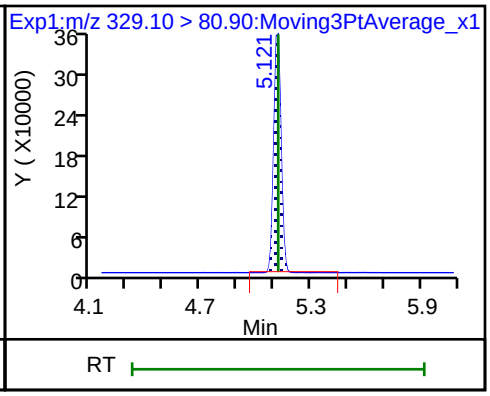
9 PFPA



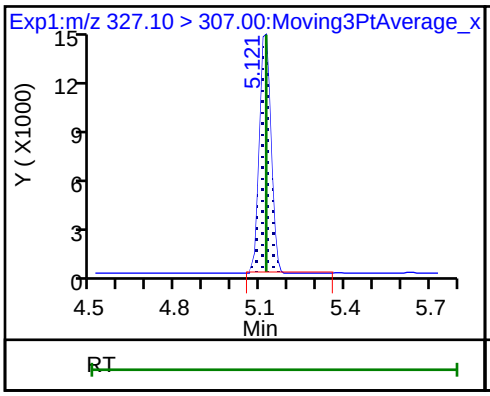
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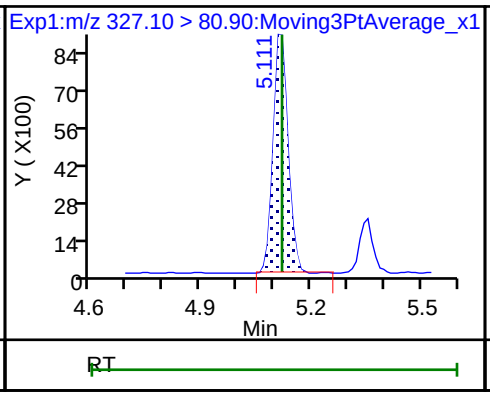
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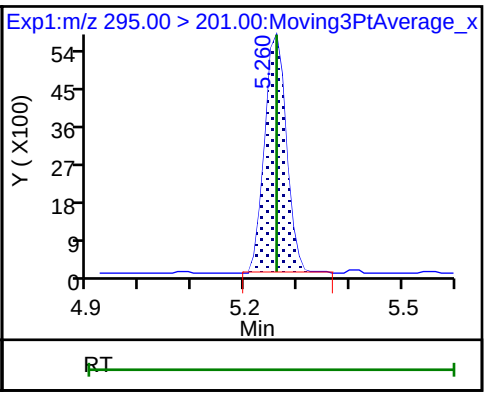
12 4:2FTS



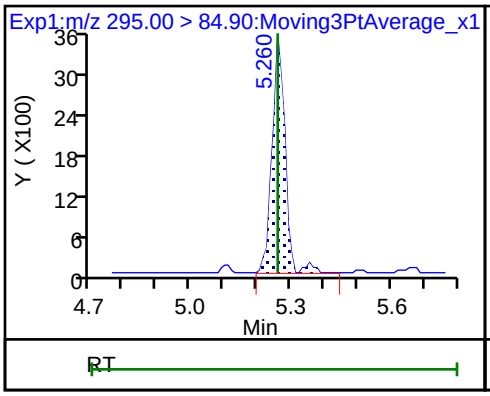
12 4:2FTS



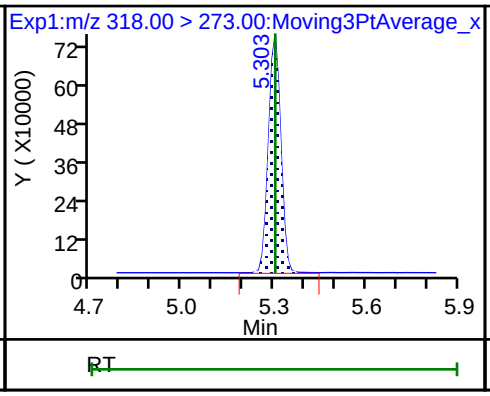
14 NFDHA



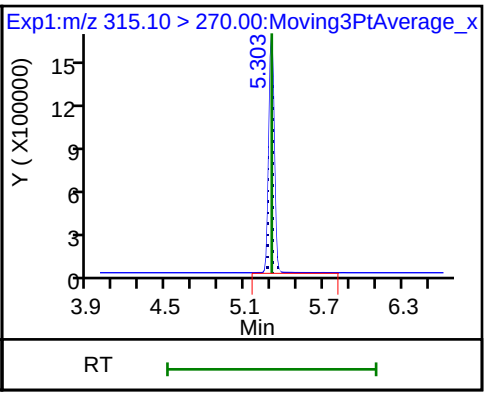
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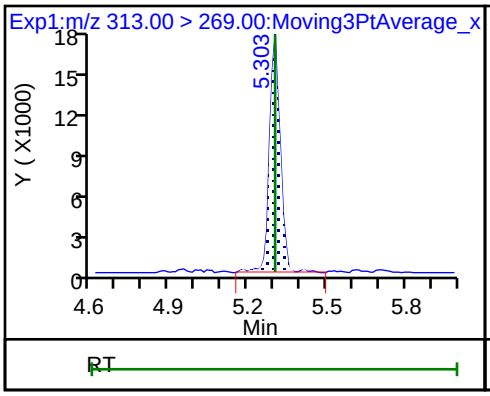
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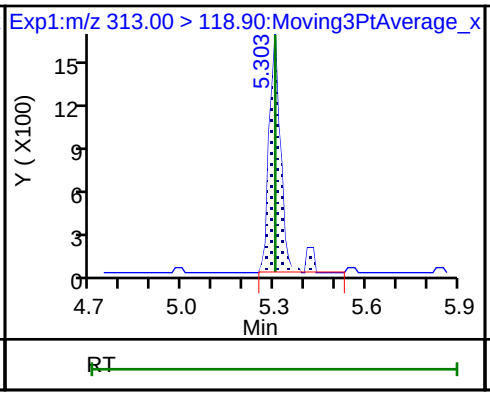
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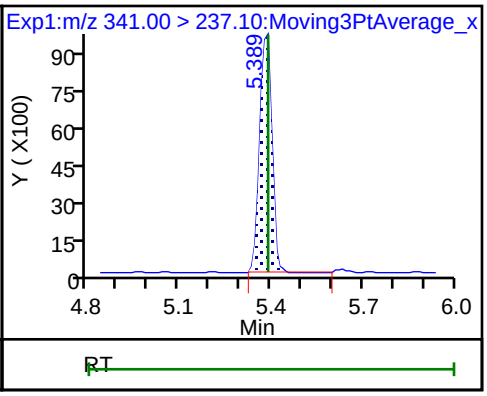
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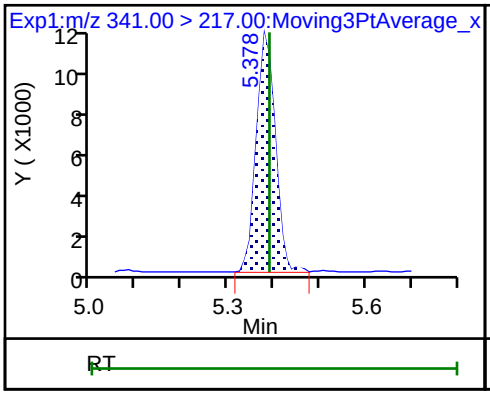
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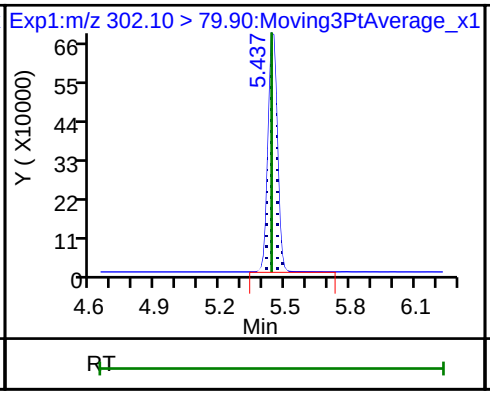
18 5:3 FTCA



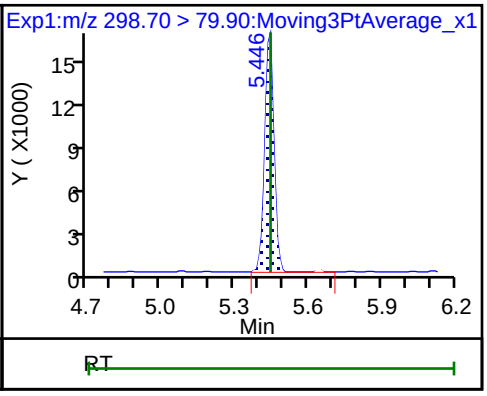
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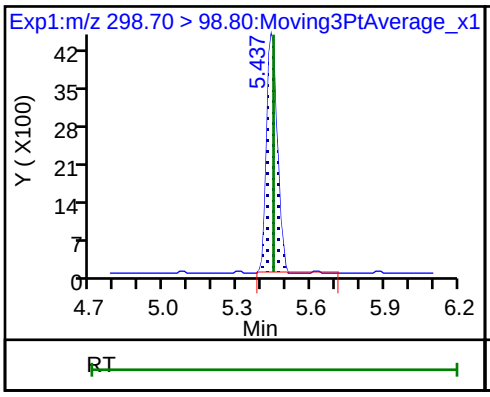
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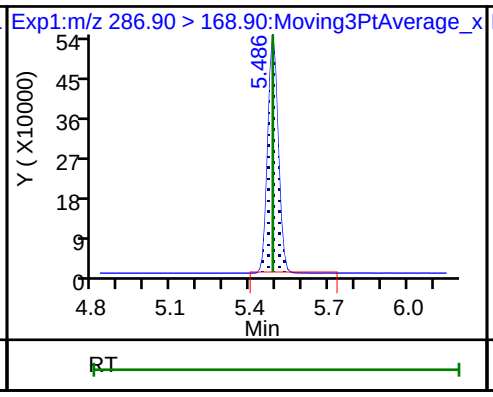
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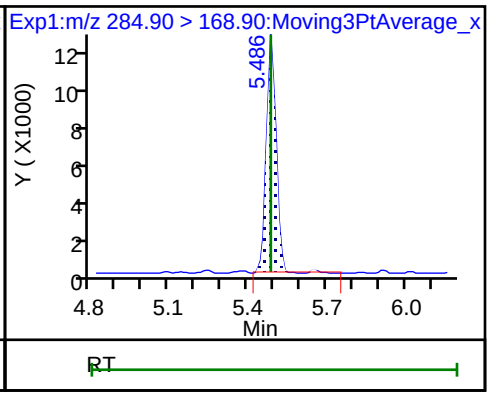
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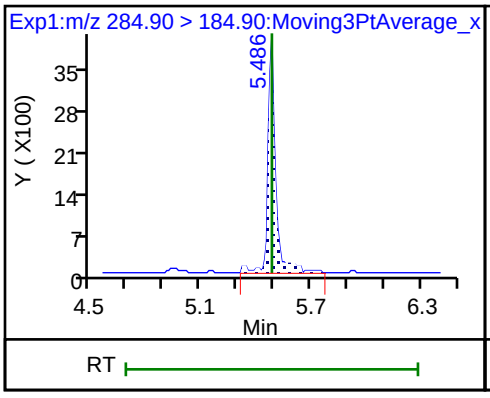
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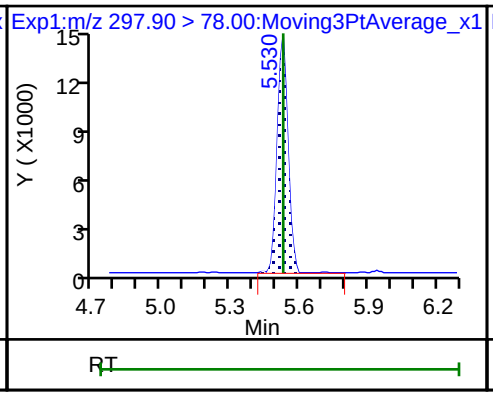
23 HFPO-DA



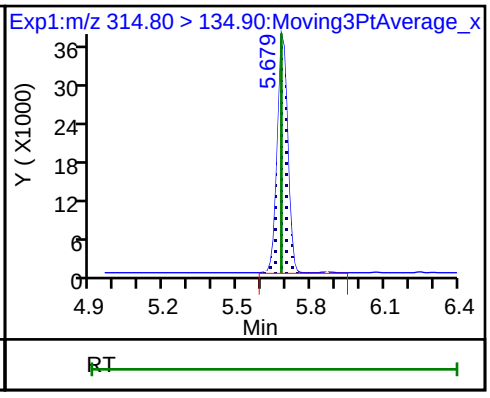
23 HFPO-DA



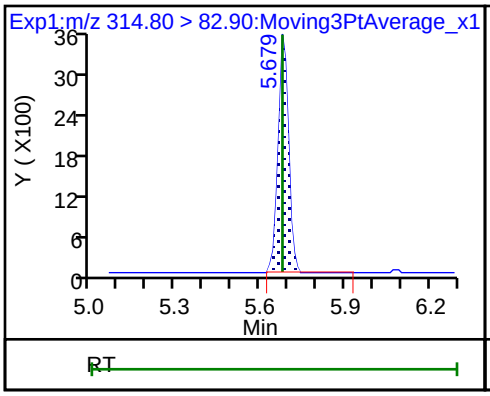
21 FBSA



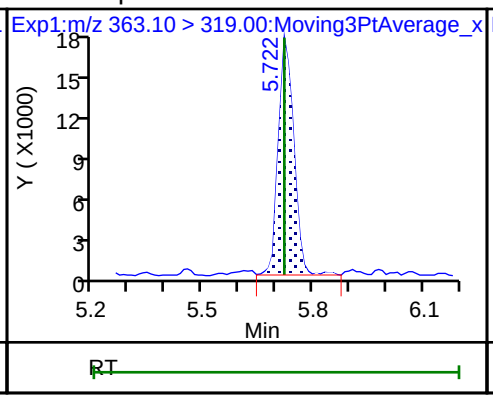
26 PFEESA



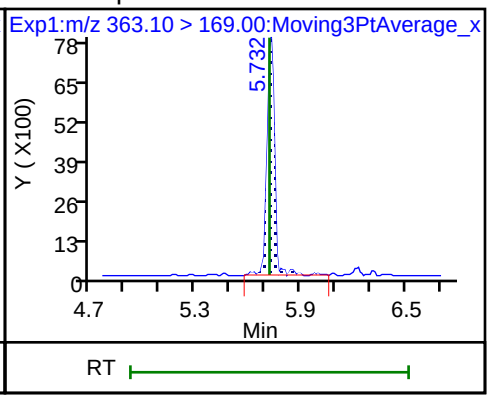
26 PFEESA



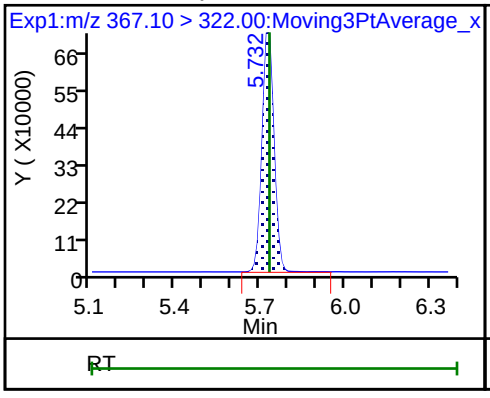
27 PFHpA



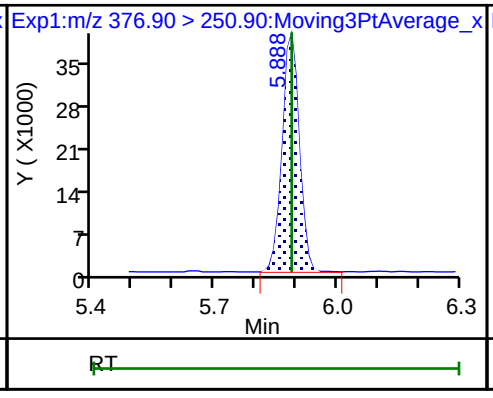
27 PFHpA



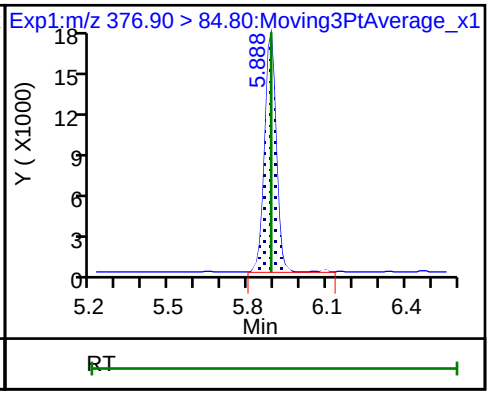
D 28 13C4 PFHpA



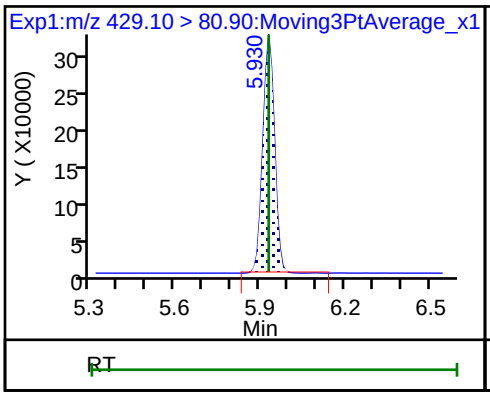
29 ADONA



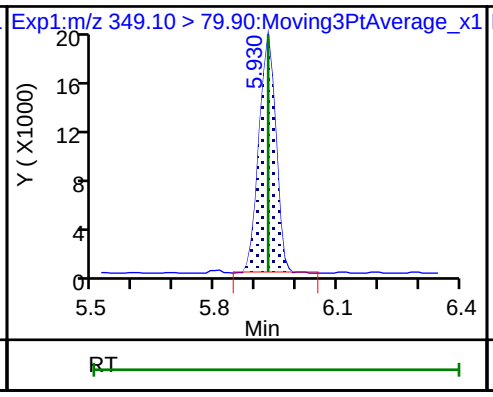
29 ADONA



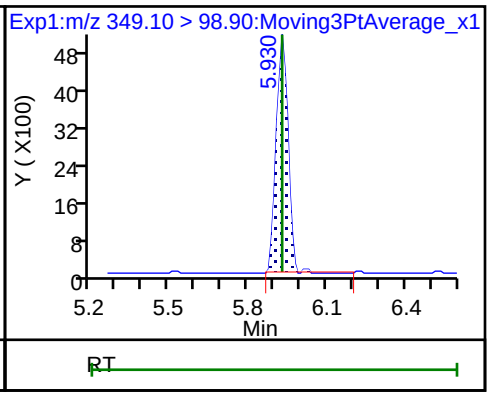
D 32 13C2-6:2FTS



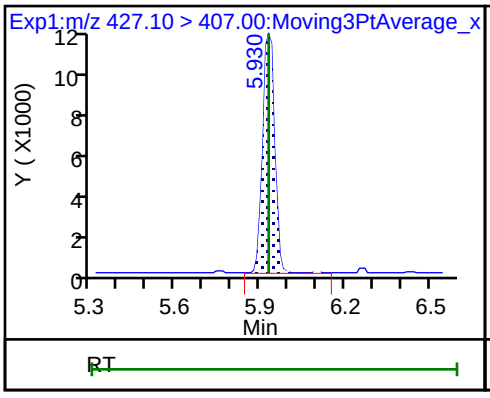
30 PFPeS



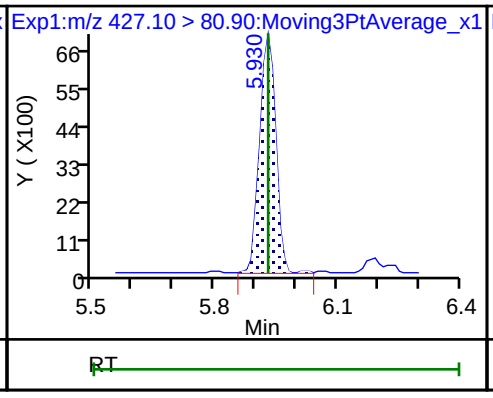
30 PFPeS



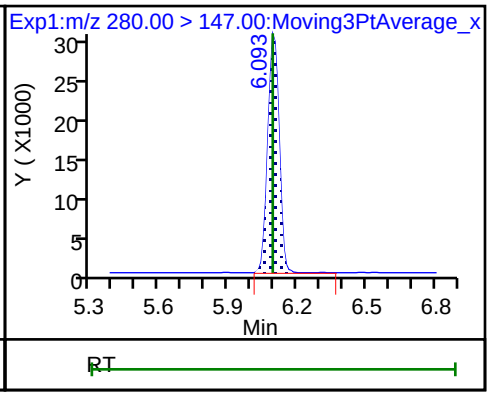
31 6:2FTS



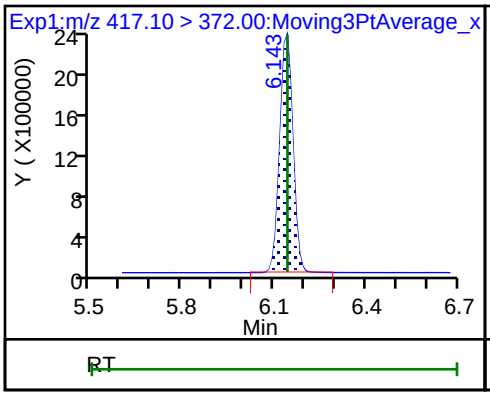
31 6:2FTS



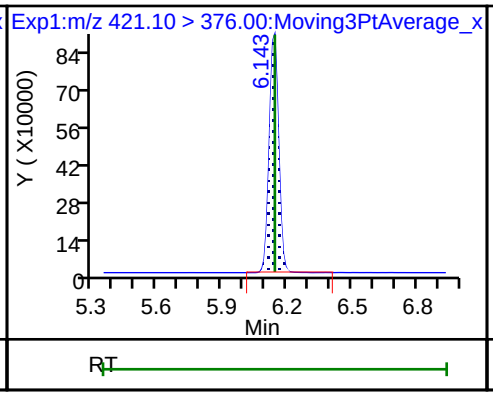
33 BTS



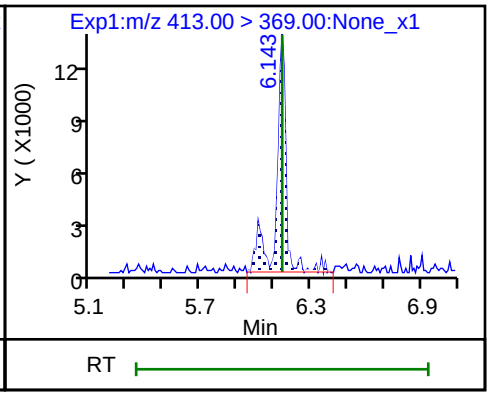
* 34 13C4 PFOA



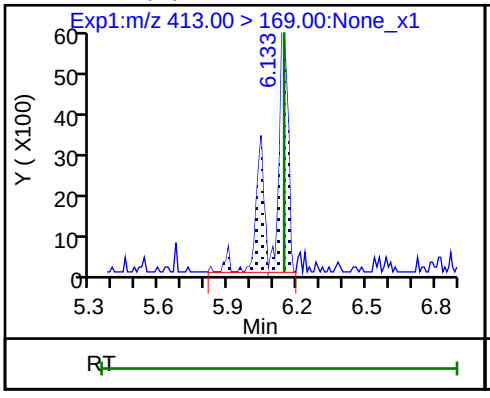
D 35 13C8 PFOA



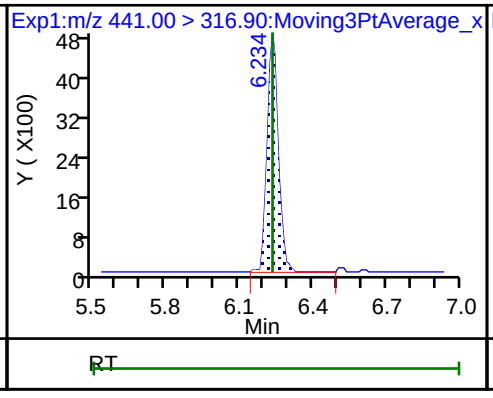
36 PFOA



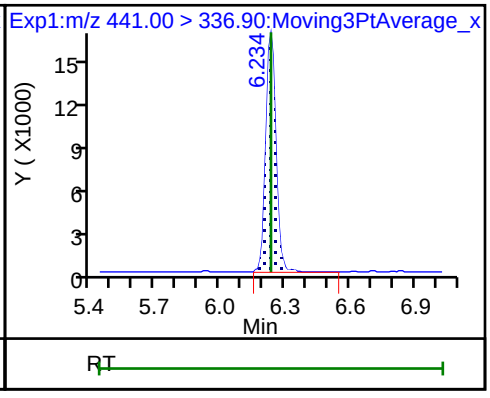
36 PFOA (M)



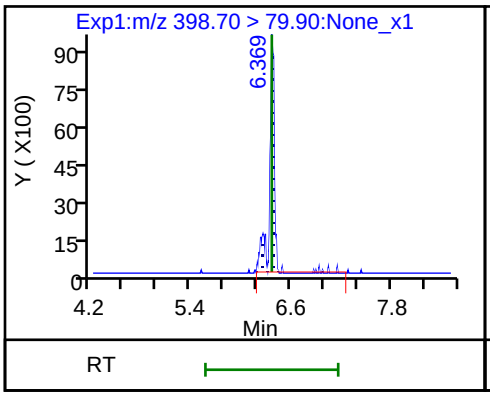
37 7:3 FTCA



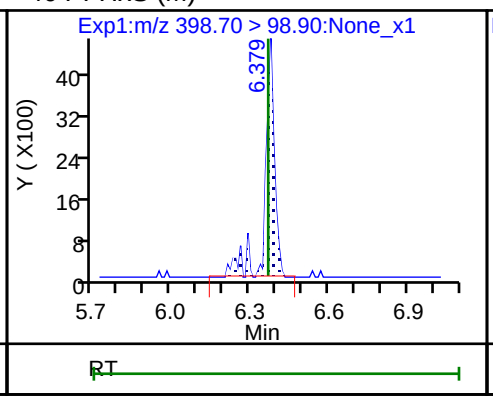
37 7:3 FTCA



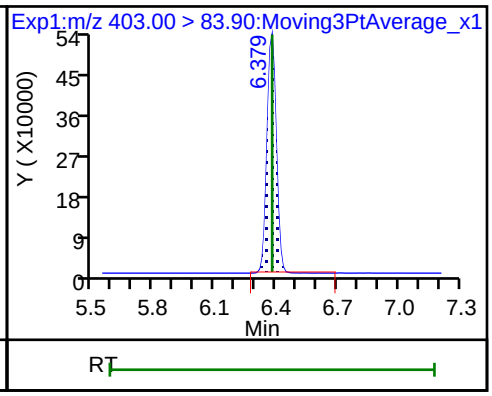
40 PFHxS



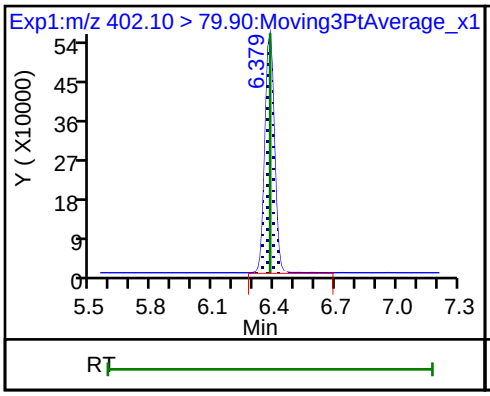
40 PFHxS (M)



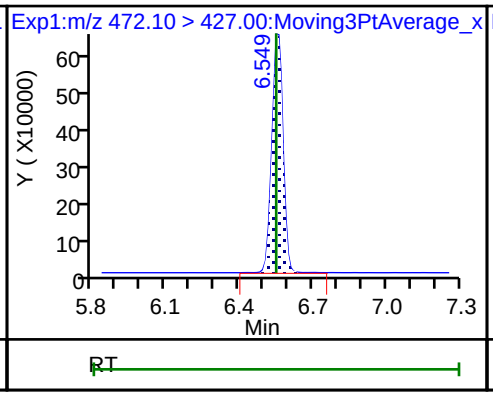
* 39 18O2 PFHxS



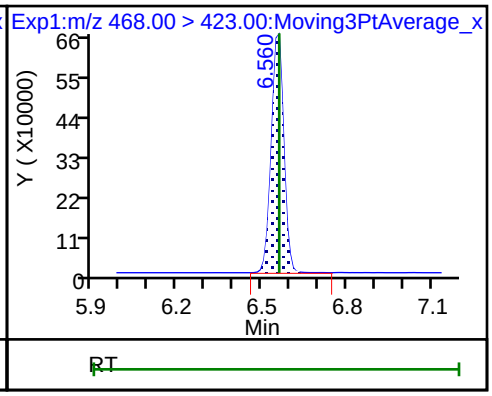
D 38 13C3 PFHxS



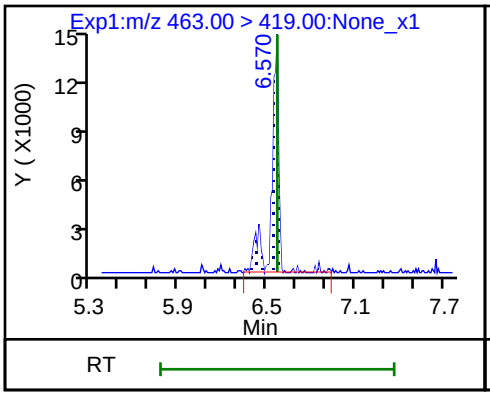
D 41 13C9 PFNA



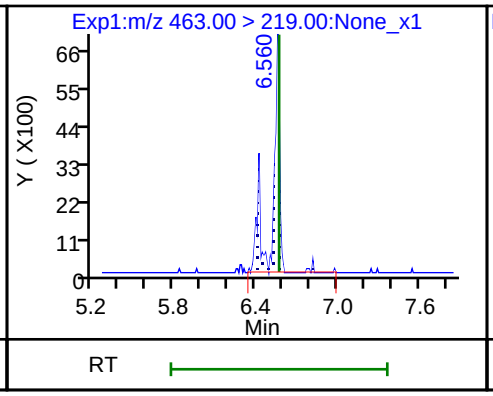
* 42 13C5 PFNA



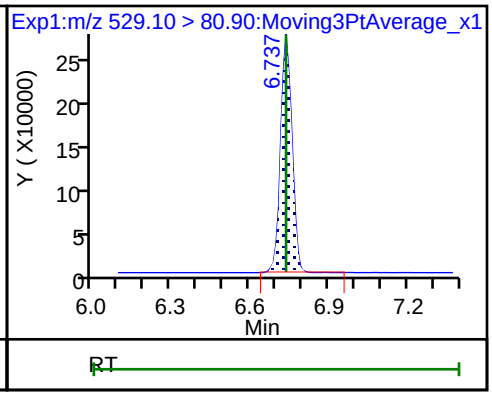
43 PFNA



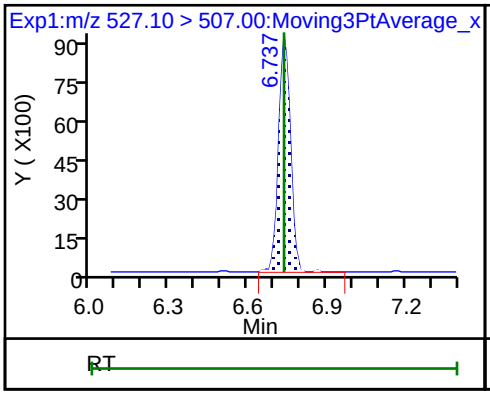
43 PFNA



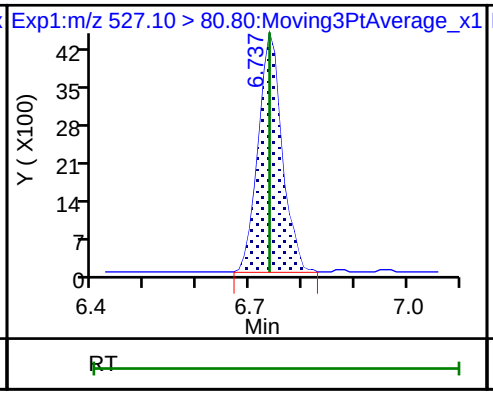
D 44 13C2-8:2FTS



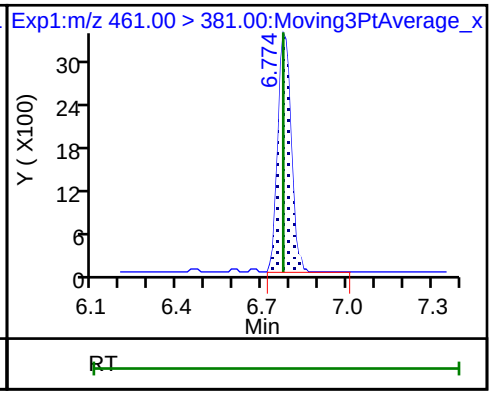
45 8:2FTS



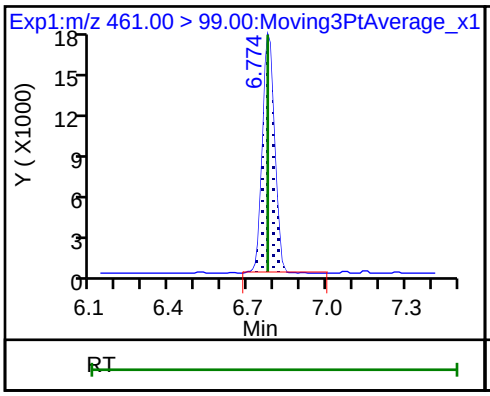
45 8:2FTS



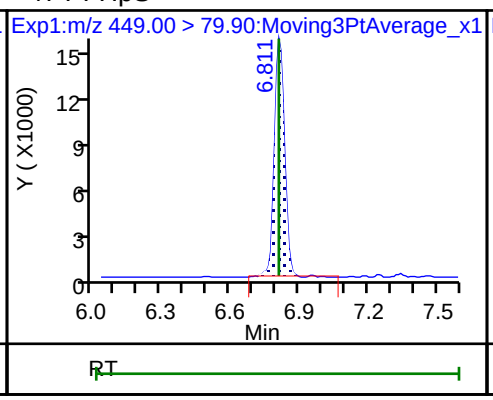
46 PFECHS



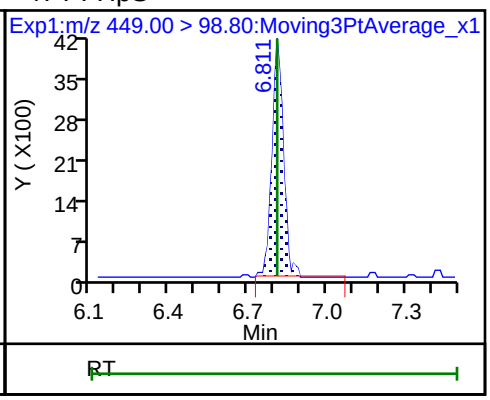
46 PFECHS



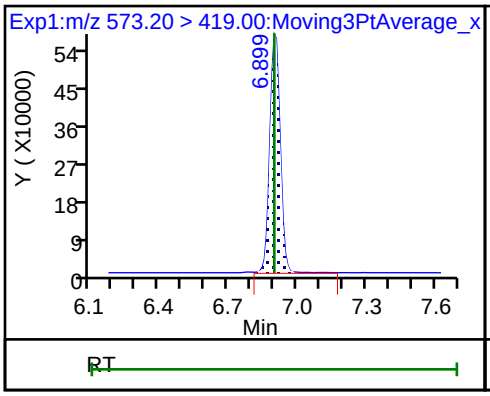
47 PFHpS



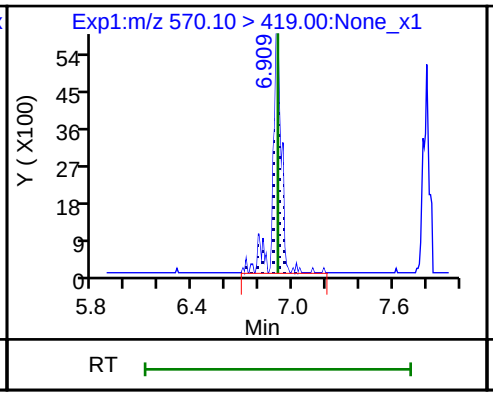
47 PFHpS



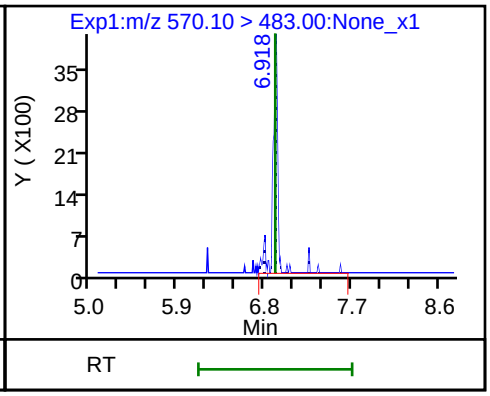
D 49 d3-NMeFOSAA



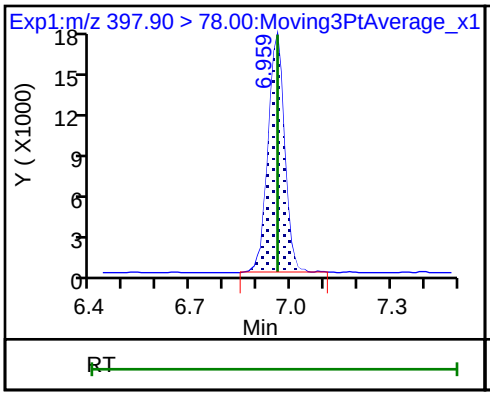
50 NMeFOSAA



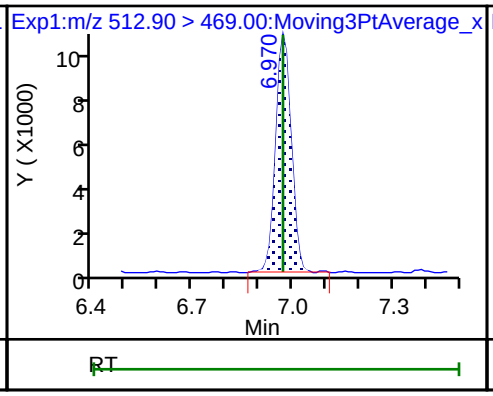
50 NMeFOSAA



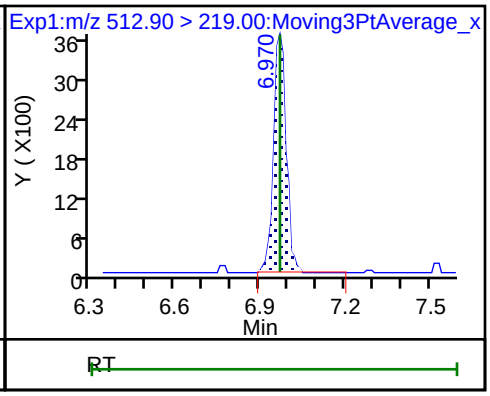
48 FHxSA



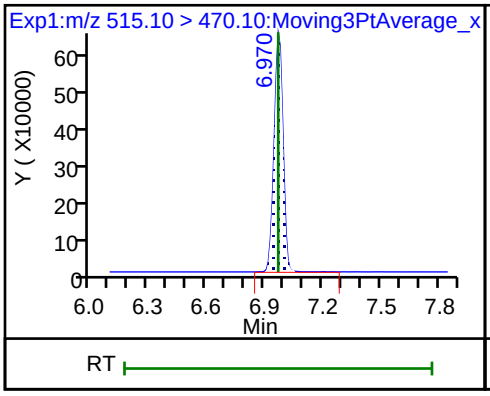
53 PFDA



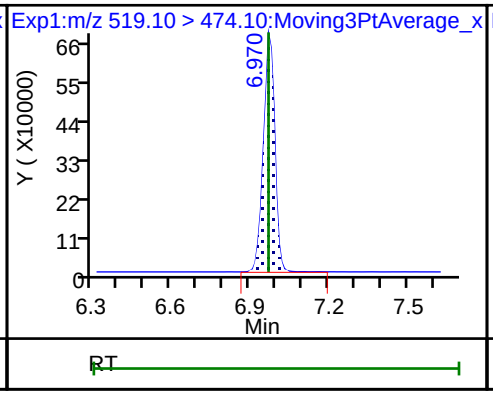
53 PFDA



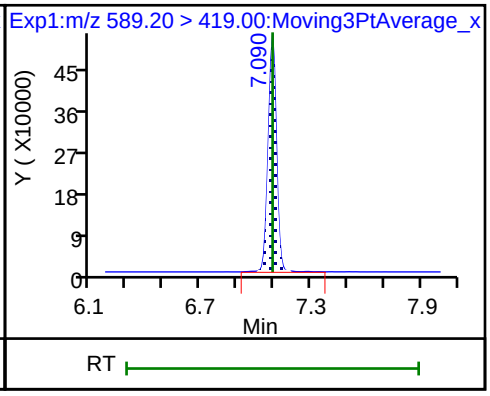
* 51 13C2 PFDA



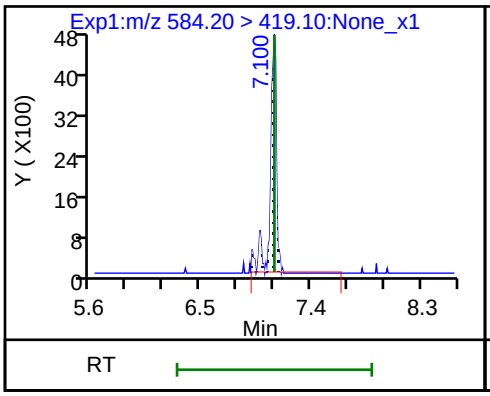
D 52 13C6 PFDA



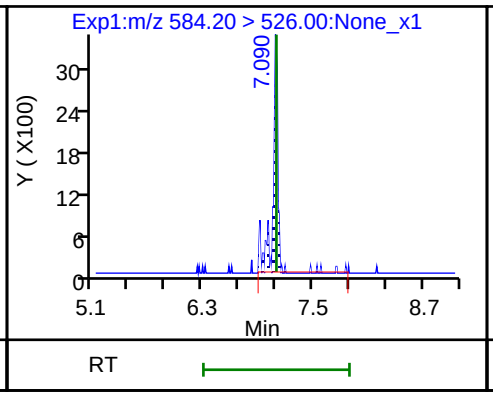
D 54 d5-NEtFOSAA



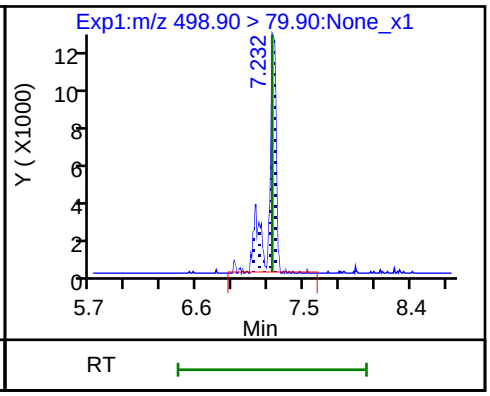
55 NEtFOSAA



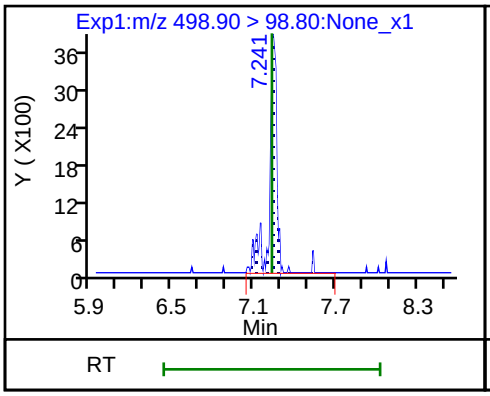
55 NEtFOSAA



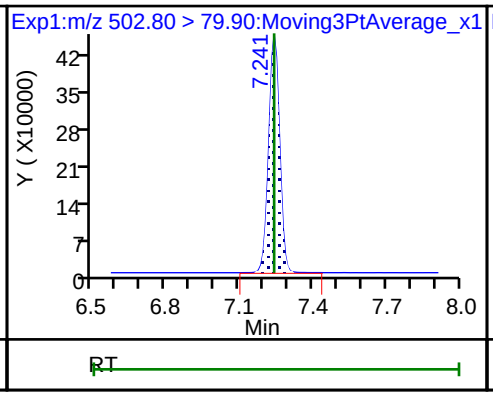
58 PFOS



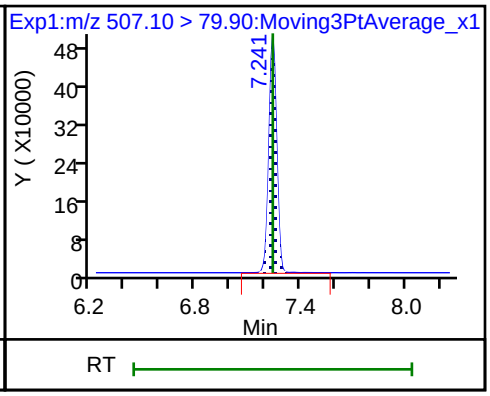
58 PFOS



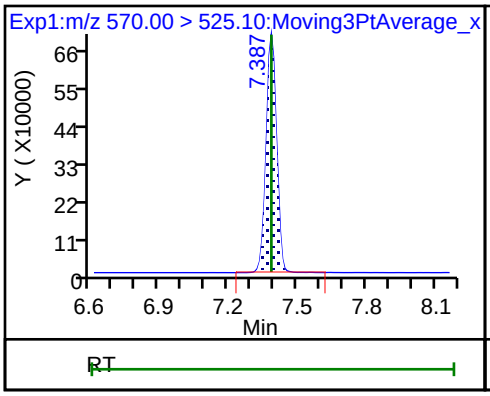
* 57 13C4 PFOS



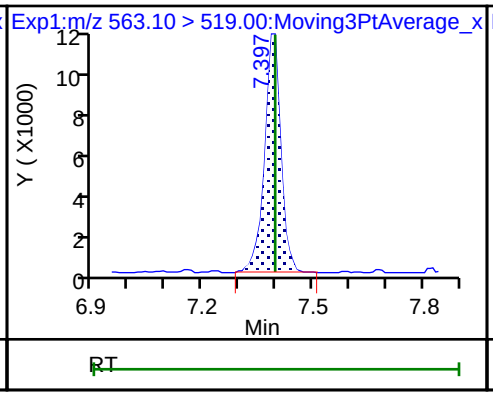
D 56 13C8 PFOS



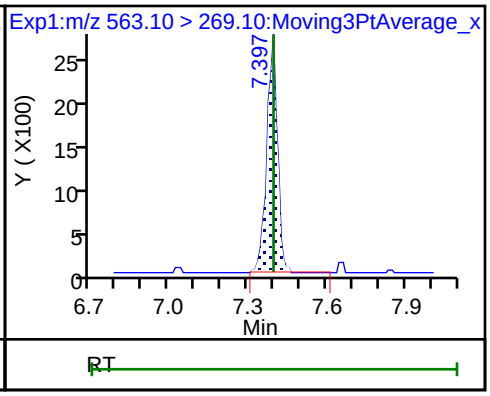
D 59 13C7 PFUnA



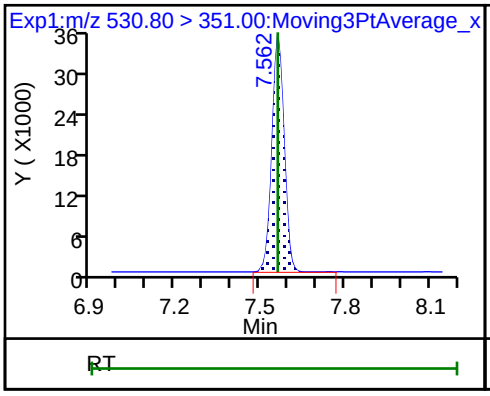
60 PFUnA



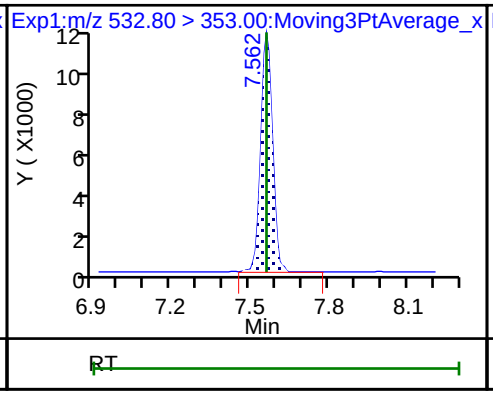
60 PFUnA



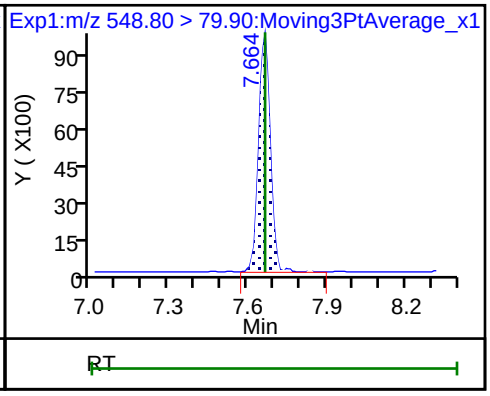
61 9ClFOS



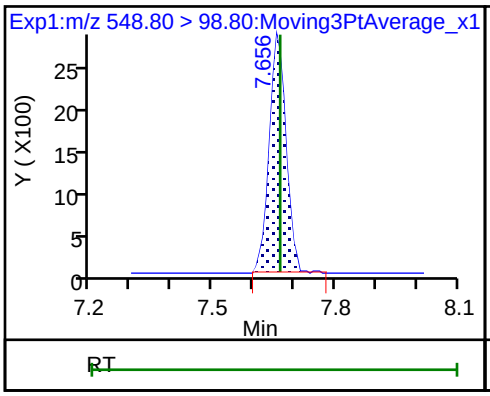
61 9ClFOS



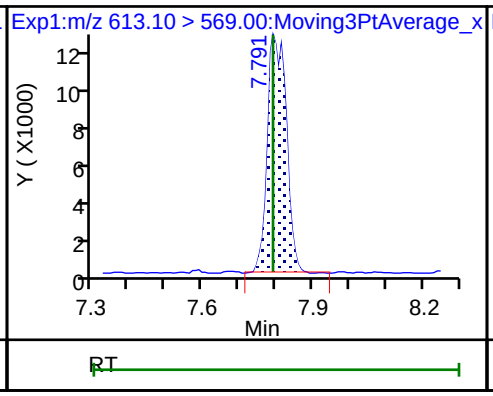
62 PFNS



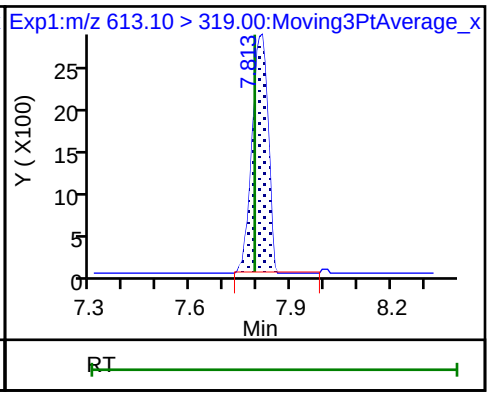
62 PFNS



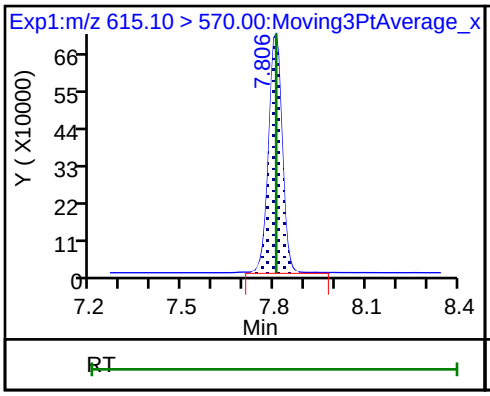
63 PFDoA



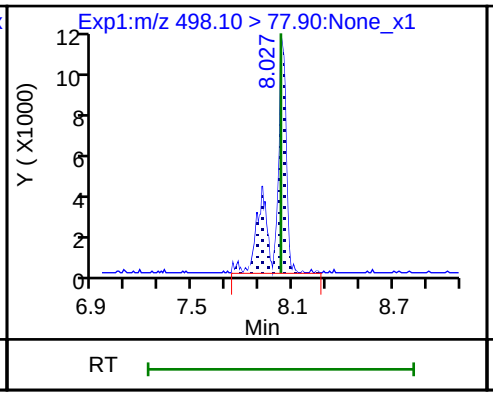
63 PFDoA



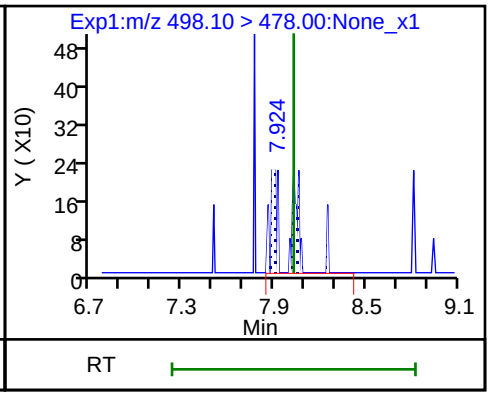
D 81 PFDoA



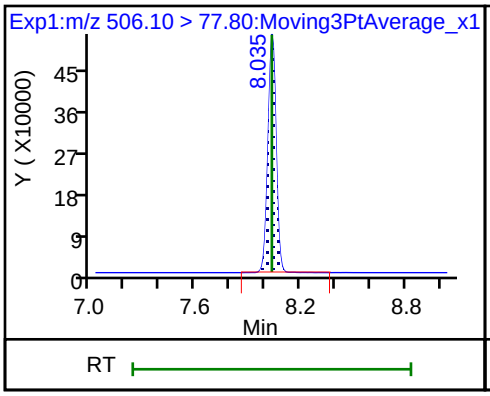
64 PFOSA



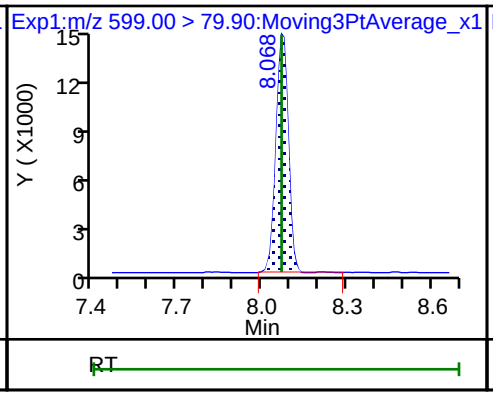
64 PFOSA



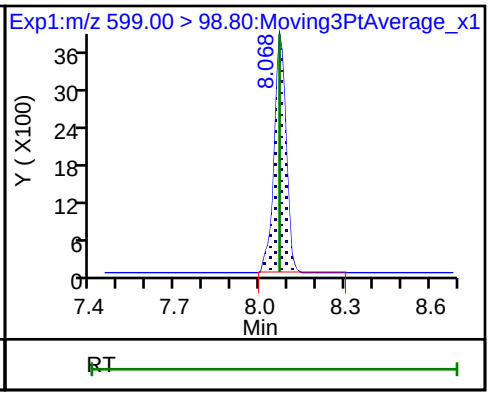
D 65 13C8 FOSA



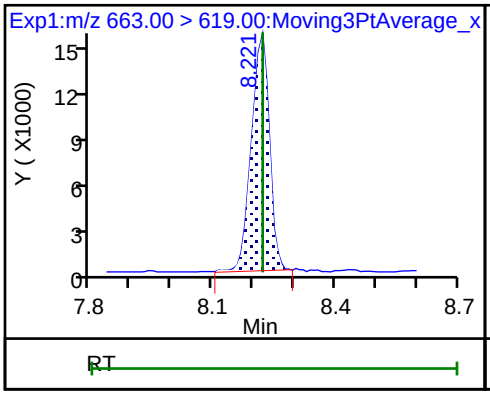
66 PFDS



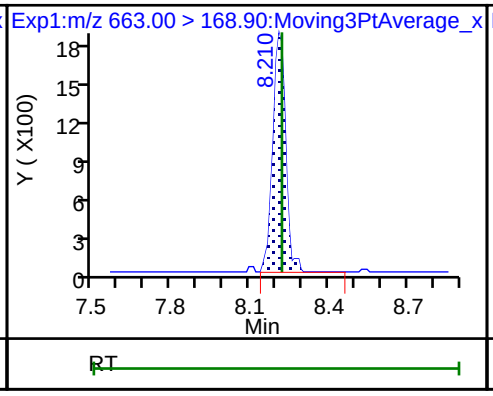
66 PFDS



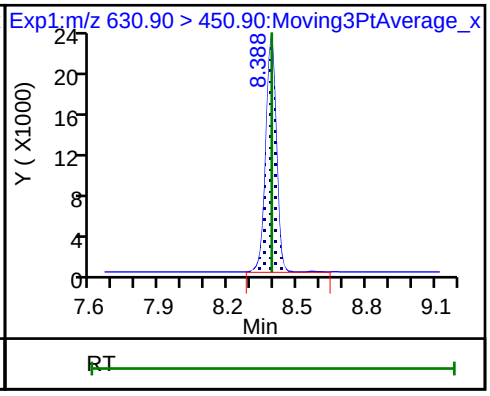
67 PFTrDA



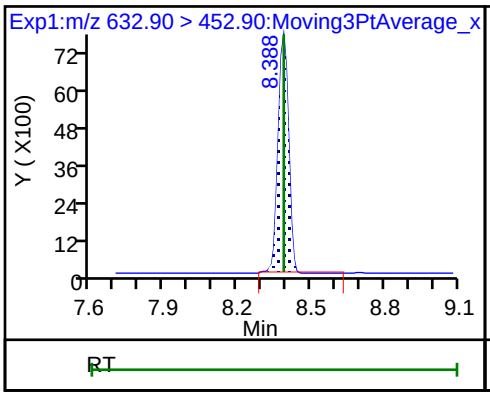
67 PFTrDA



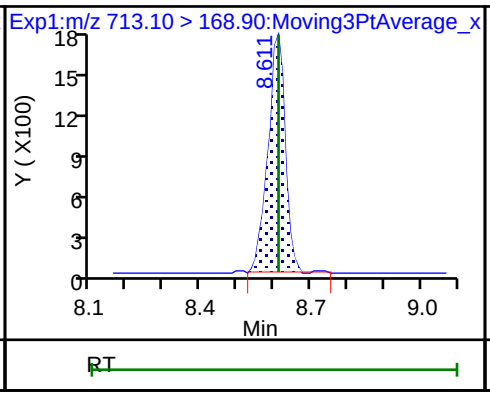
68 11ClFOS



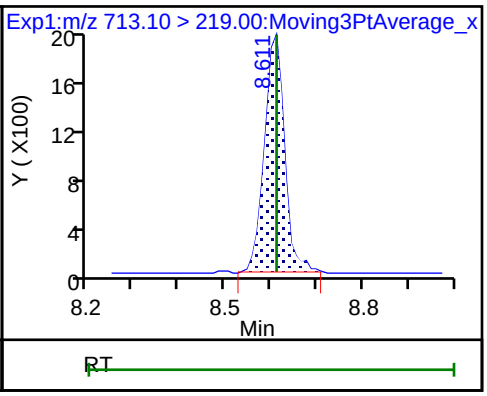
68 11ClFOS



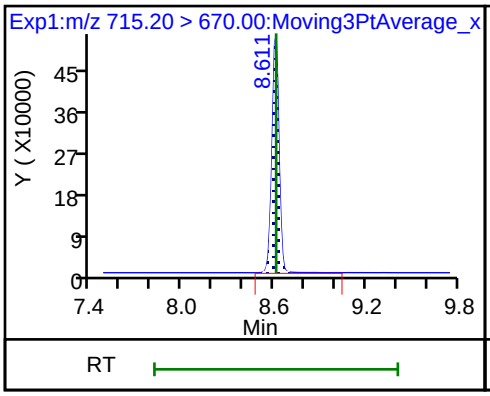
69 PFTeDA



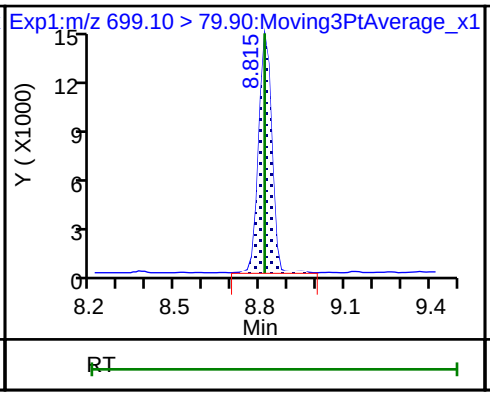
69 PFTeDA



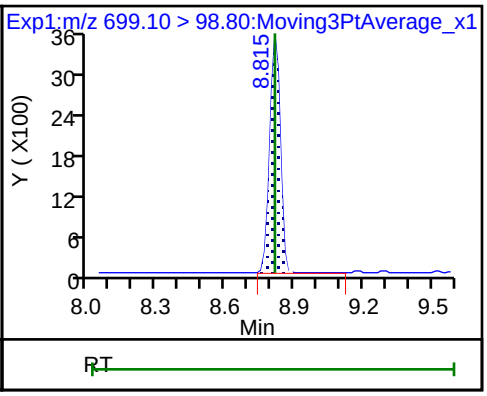
D 70 13C2 PFTeDA



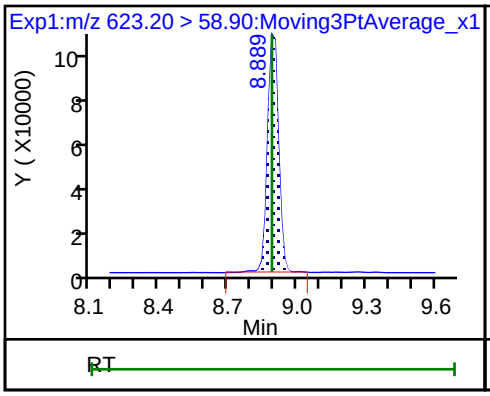
71 PFDoS



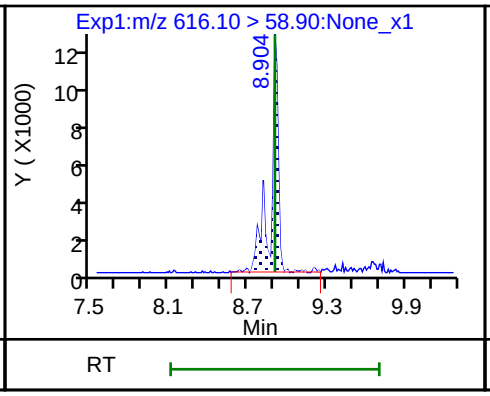
71 PFDoS



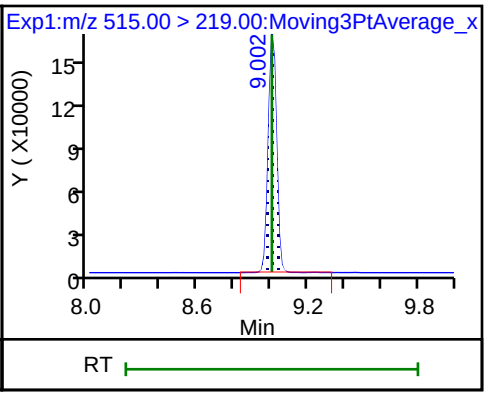
D 72 d7-N-Me-FOSE



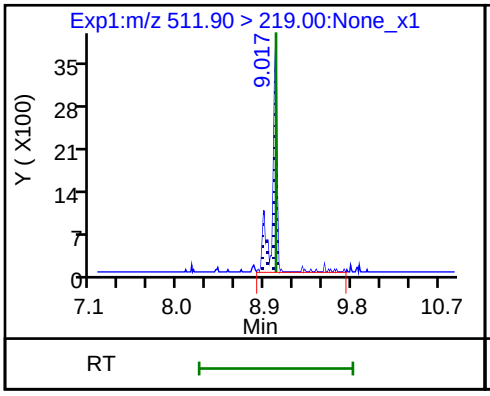
73 N-MeFOSE-M



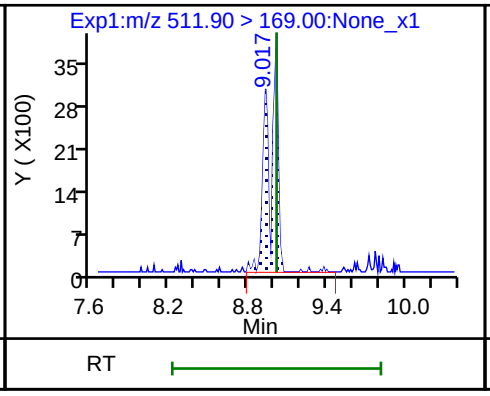
D 75 d3-NMePFOSA



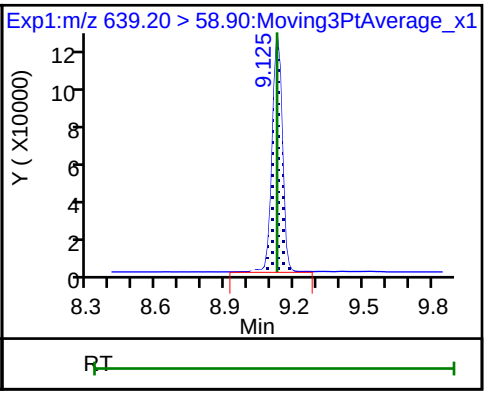
74 NMeFOSA



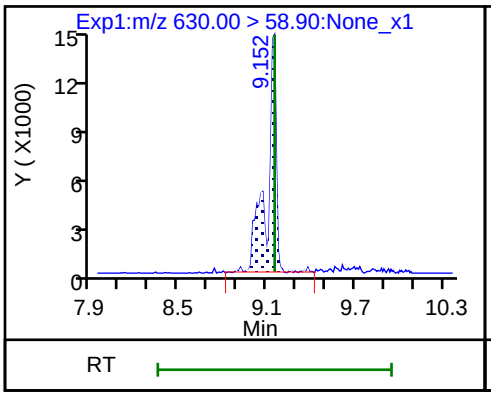
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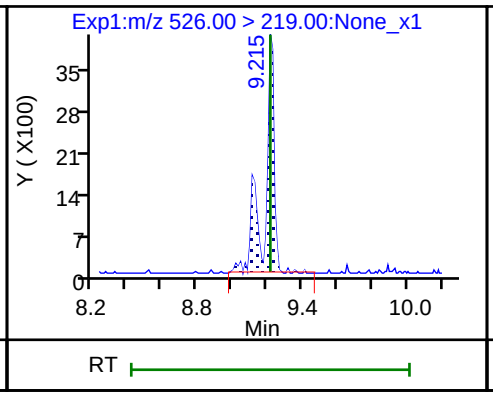
D 76 d9-N-EtFOSE



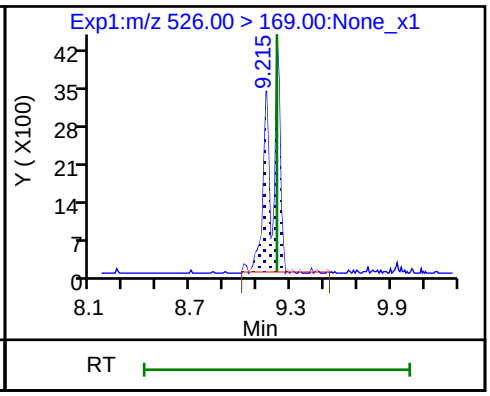
77 N-EtFOSE-M



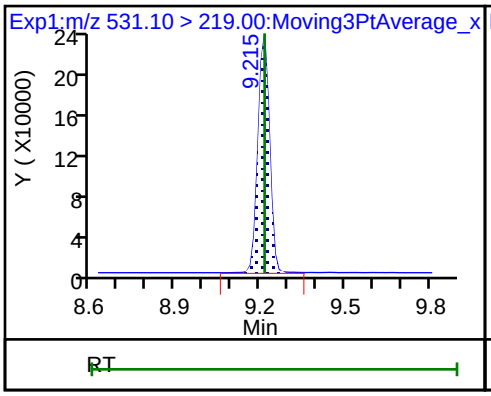
79 N-EtFOSA-M



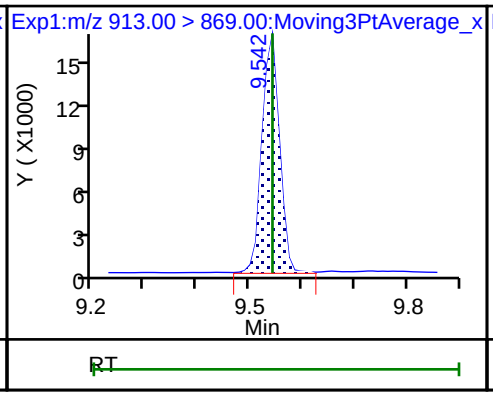
79 N-EtFOSA-M



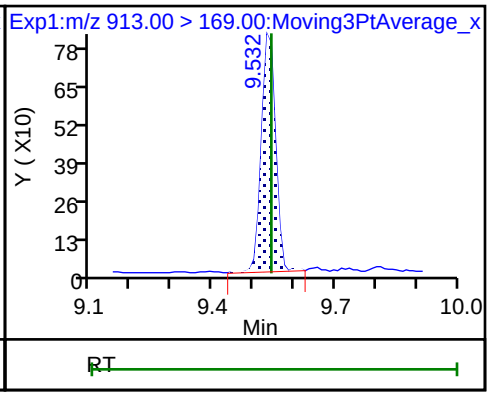
D 78 d5-NEtPFOSA



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

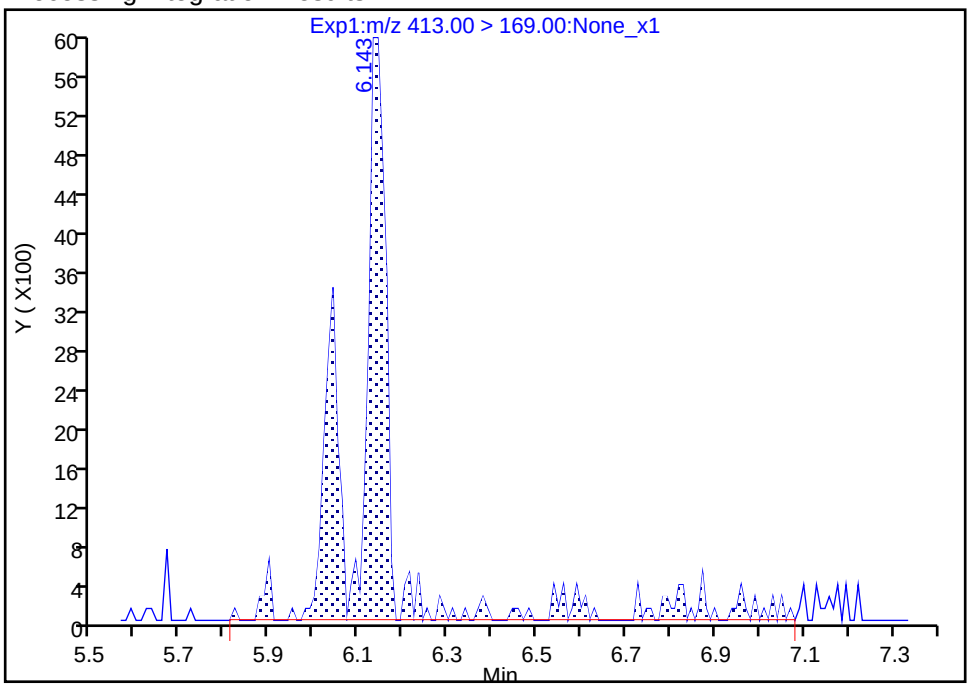
Data File:	\\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26Feb04PC-15.d				
Injection Date:	05-Feb-2026 11:28:32	Instrument ID:	30577		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 2

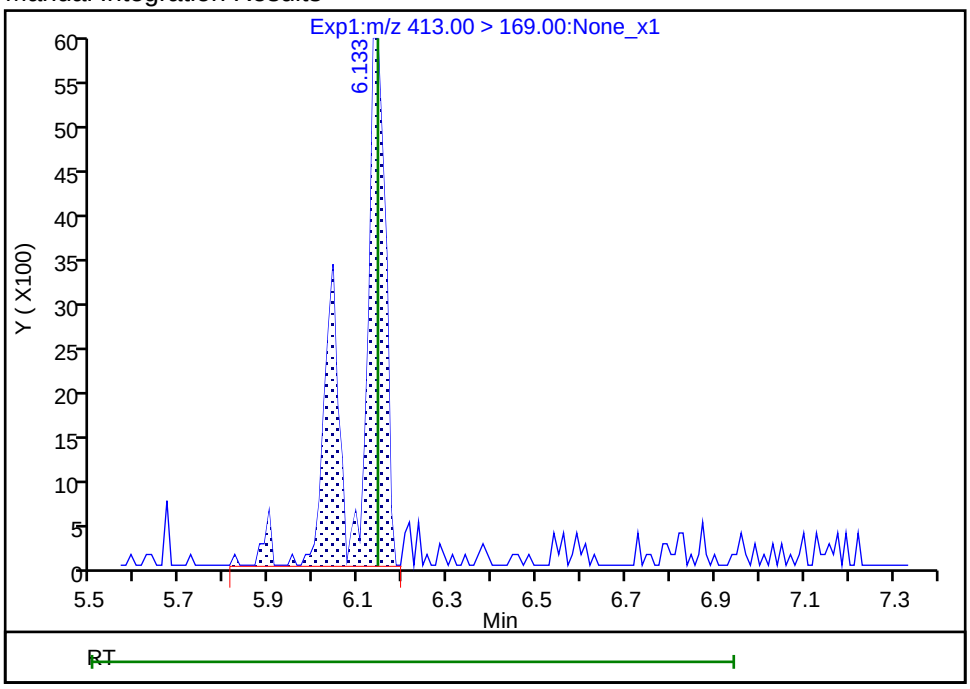
Processing Integration Results

RT: 6.14
Area: 29769
Amount: 0.057327
Amount Units: ng/ml



Manual Integration Results

RT: 6.13
Area: 24155
Amount: 0.057327
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 18:52:42 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

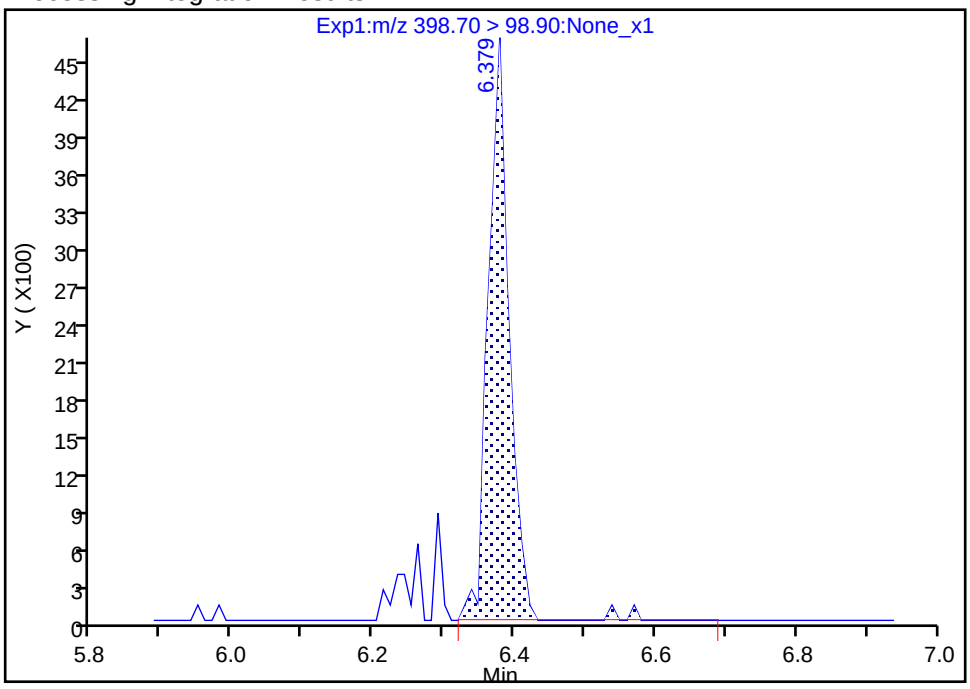
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Injection Date:	05-Feb-2026 11:28:32	Instrument ID:	30577		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

40 PFHxS, CAS: 355-46-4

Signal: 2

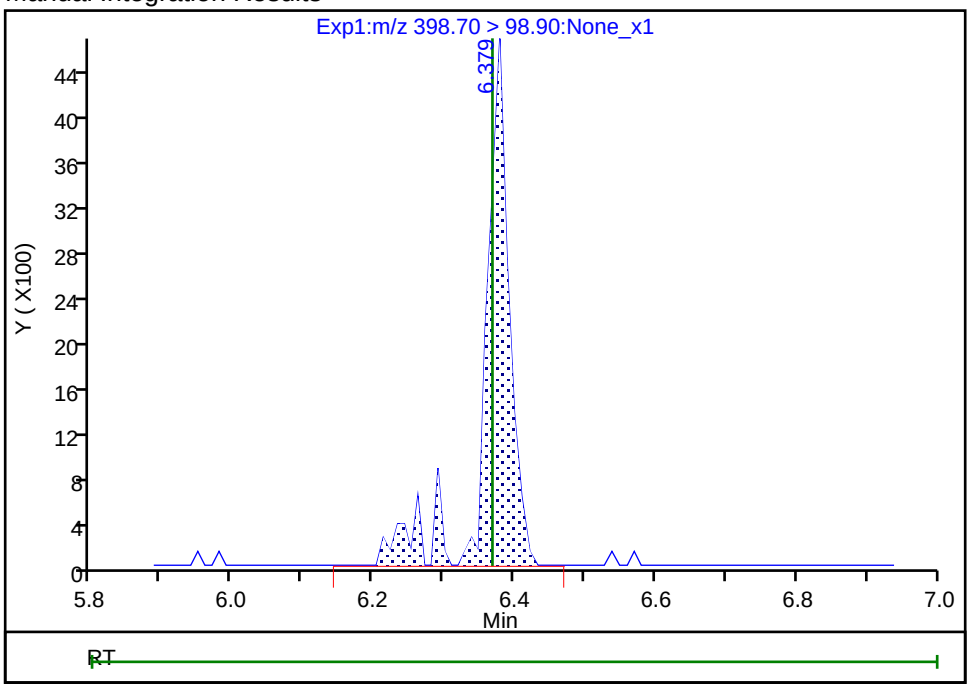
Processing Integration Results

RT: 6.38
Area: 9689
Amount: 0.051006
Amount Units: ng/ml



Manual Integration Results

RT: 6.38
Area: 11174
Amount: 0.051006
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 18:52:50 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Isomers

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-765196/130 Calibration Date: 02/05/2026 19:37

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26FEB05PC-26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9186	0.9062		4.93	5.00	-1.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9187	0.8899		1.94	2.00	-3.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.024	0.9573		0.935	1.00	-6.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0493	0.0409		1.66	2.00	-17.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.194	1.163		0.974	1.00	-3.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	1.355	1.211		0.894	1.00	-11.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.850	1.746		1.77	1.88	-6.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.2495	0.2457		0.985	1.00	-2.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8639	0.8738		1.01	1.00	1.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1207	0.1106		4.58	5.00	-8.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.8958	0.8514		0.844	0.888	-5.0	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.071	1.054		0.738	0.750	-2.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	0.7948	0.6569		0.827	1.00	-17.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.390	2.372		0.885	0.892	-1.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.8398	0.8347		0.994	1.00	-1.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.489	3.625		0.983	0.946	4.0	30.0
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	AveID	1.873	1.839		1.87	1.90	-2.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.157	1.224		0.994	0.940	6.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.176	2.067		0.930	0.979	-5.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.6200	0.5986		0.965	1.00	-3.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.0578	0.0518		4.48	5.00	-10.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	0.7727	0.7651		0.903	0.912	-1.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.8686	0.8915		1.03	1.00	3.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.738	1.786		1.97	1.92	3.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.2248	0.2266		0.932	0.924	1.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.253	1.336		1.02	0.954	7.0	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9737	0.9382		0.964	1.00	-4.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.304	1.139		0.874	1.00	-13.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-765196/130 Calibration Date: 02/05/2026 19:37

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26FEB05PC-26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.7350	0.6076		0.827	1.00	-17.0	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8775	0.8511		0.970	1.00	-3.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.354	1.335		0.917	0.930	-1.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7017	0.6620		0.943	1.00	-6.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.753	2.800		0.950	0.934	2.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8555	0.8642		0.972	0.962	1.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9337	0.9186		0.984	1.00	-2.0	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.105	1.095		0.991	1.00	-1.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.140	1.202		1.02	0.964	5.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	0.9175	0.9877		1.08	1.00	8.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	1.897	2.063		1.03	0.944	9.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1121	0.1013		0.903	1.00	-10.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.121	1.191		1.03	0.970	6.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	2.561	2.408		4.70	5.00	-6.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	0.9489	0.9568		1.01	1.00	1.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	3.302	3.331		5.04	5.00	1.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.8695	0.8326		0.958	1.00	-4.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9217	0.8468		0.919	1.00	-8.0	30.0
13C3-PFPrA	Ave	0.7584	0.7512		1.98	2.00	-1.0	30.0
13C4 PFBA	Ave	1.026	1.039		2.02	2.00	1.0	30.0
13C5 PFPeA	Ave	0.8716	0.9696		2.23	2.00	11.0	30.0
13C2 4:2 FTS	Ave	0.2372	0.2516		4.97	4.69	6.0	30.0
13C5 PFHxA	Ave	1.060	1.075		2.03	2.00	1.0	30.0
13C3 PFBS	Ave	1.273	1.402		2.05	1.86	10.0	30.0
13C3 HFPO-DA	Ave	0.7215	0.7303		2.02	2.00	1.0	30.0
13C4 PFHpA	Ave	1.034	1.060		2.05	2.00	3.0	30.0
13C2 6:2 FTS	Ave	0.2005	0.2260		5.36	4.76	13.0	30.0
13C8 PFOA	Ave	1.019	1.001		1.97	2.00	-2.0	30.0
13C3 PFHxS	Ave	1.077	1.143		2.01	1.90	6.0	30.0
13C9 PFNA	Ave	1.035	0.9694		1.87	2.00	-6.0	30.0
13C2 8:2 FTS	Ave	0.2071	0.1902		4.41	4.80	-8.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-765196/130 Calibration Date: 02/05/2026 19:37

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26FEB05PC-26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d3-NMeFOSAA	Ave	0.5156	0.5329		5.17	5.00	3.0	30.0
13C6 PFDA	Ave	0.9857	1.107		2.25	2.00	12.0	30.0
d5-NEtFOSAA	Ave	0.4453	0.4639		5.21	5.00	4.0	30.0
13C8 PFOS	Ave	1.113	1.193		2.05	1.92	7.0	30.0
13C7 PFUnA	Ave	0.9824	1.090		2.22	2.00	11.0	30.0
13C2 PFDoA	Ave	0.9443	1.018		2.16	2.00	8.0	30.0
13C8 FOSA	Ave	1.148	1.201		2.09	2.00	5.0	30.0
13C2 PFTeDA	Ave	0.8495	0.9076		2.14	2.00	7.0	30.0
d7-N-MeFOSE-M	Ave	0.0922	0.0951		5.16	5.00	3.0	30.0
d3-NMePFOSA	Ave	0.3640	0.3568		1.96	2.00	-2.0	30.0
d9-N-EtFOSE-M	Ave	0.0994	0.1074		5.40	5.00	8.0	30.0
d5-NEtPFOSA	Ave	0.4679	0.4741		2.03	2.00	1.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05PC-26.d
Lims ID: CCV 5_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 05-Feb-2026 19:37:43 ALS Bottle#: 5 Worklist Smp#: 130
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCV 5_CAL4
Misc. Info.: Plate: 1 Rack: 1 410-0174796-130
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub7

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.027	2.018	0.009	0.482	1383131	1.98		99.0	3166	
2 Perfluoropropionic acid										
163.00 > 119.00	2.027	2.018	0.009	1.000	3133544	4.93		98.6	10786	
3 PFBA										
212.80 > 168.90	4.201	4.180	0.021	1.000	1701690	1.94		96.9	13027	
D 4 13C4-PFBA										
216.80 > 171.90	4.201	4.187	0.014	1.000	1912190	2.02		101	3788	
* 5 13C3PFBA										
216.00 > 172.00	4.201	4.187	0.014		1841284	2.00			4585	
6 PFMPA										
229.00 > 84.90	4.531	4.513	0.018	0.934	957687	0.9352		93.5	3707	
7 3:3 FTCA										
241.00 > 177.00	4.540	4.522	0.018	0.936	81907	1.66	Target=1.18	83.1	1002	
241.00 > 117.00	4.540	4.522	0.018	0.936	66620		1.23(0.59-1.77)		658	
D 8 13C5 PFPeA										
268.30 > 223.00	4.853	4.844	0.009	0.915	2000789	2.22		111	5192	
9 PFPA										
263.00 > 219.00	4.853	4.844	0.009	1.000	1163426	0.9743		97.4	2657	
10 PFMBA										
279.00 > 85.10	5.007	4.996	0.011	1.032	1211312	0.8936		89.4	2397	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.121	5.121	0.0	0.803	1030018	4.97		106	6589	
12 4:2FTS										
327.10 > 307.00	5.121	5.121	0.0	1.000	719528	1.77	Target=1.72	94.4	3601	
327.10 > 80.90	5.121	5.121	0.0	1.000	429143		1.68(0.86-2.58)		498	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.261	5.260	0.001	0.992	272601	0.9847	Target=1.45	98.5	2318	
295.00 > 84.90	5.261	5.260	0.001	0.992	181874		1.50(0.72-2.17)		922	
D 15 13C5 PFHxA										
318.00 > 273.00	5.303	5.303	0.0	1.000	2219043	2.03		101	3972	
* 16 13C2 PFHxA										
315.10 > 270.00	5.303	5.303	0.0		5158585	5.00			5578	
17 PFHxA										
313.00 > 269.00	5.303	5.303	0.0	1.000	969481	1.01	Target=10.06	101	1689	
313.00 > 118.90	5.303	5.303	0.0	1.000	84889		11.42(5.03-15.10)		634	
18 5:3 FTCA										
341.00 > 237.10	5.379	5.389	-0.010	1.014	613510	4.58	Target=0.78	91.6	2454	
341.00 > 217.00	5.390	5.389	0.001	1.016	732137		0.84(0.39-1.17)		1036	
D 19 13C3 PFBS										
302.10 > 79.90	5.447	5.437	0.010	0.854	2281447	2.05		110	6825	
20 PFBS										
298.70 > 79.90	5.447	5.446	0.001	1.000	925382	0.8440	Target=3.14	95.0	4576	
298.70 > 98.80	5.447	5.446	0.001	1.000	301153		3.07(1.57-4.71)		1777	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.487	5.486	0.001	1.035	1506869	2.02		101	6330	
23 HFPO-DA										
284.90 > 168.90	5.487	5.486	0.001	1.000	595458	0.7377	Target=2.75	98.4	1860	
284.90 > 184.90	5.487	5.486	0.001	1.000	235145		2.53(1.37-4.12)		790	
21 FBSA										
297.90 > 78.00	5.530	5.530	0.0	1.015	804011	0.8265		82.7	1841	
26 PFEESA										
314.80 > 134.90	5.690	5.679	0.011	1.073	2347727	0.8855	Target=11.75	99.3	7064	
314.80 > 82.90	5.690	5.679	0.011	1.073	194218		12.09(5.88-17.63)		1414	
27 PFHpA										
363.10 > 319.00	5.733	5.722	0.011	1.000	913259	0.99	Target=1.87	99.4	2502	
363.10 > 169.00	5.733	5.722	0.011	1.000	475886		1.92(0.94-2.81)		1635	
D 28 13C4 PFHpA										
367.10 > 322.00	5.733	5.732	0.001	1.081	2188114	2.05		103	6945	
29 ADONA										
376.90 > 250.90	5.888	5.888	0.0	1.073	2583766	0.9828	Target=2.13	104	6328	
376.90 > 84.80	5.888	5.888	0.0	1.073	1116353		2.31(1.07-3.20)		2604	
30 PFPeS										
349.10 > 79.90	5.930	5.930	0.0	0.930	1147466	0.99	Target=3.24	106	3500	
349.10 > 98.90	5.930	5.930	0.0	0.930	351838		3.26(1.62-4.86)		1905	
31 6:2FTS										
427.10 > 407.00	5.930	5.930	0.0	1.000	690850	1.87	Target=1.63	98.2	3047	
427.10 > 80.90	5.930	5.930	0.0	1.000	427910		1.61(0.82-2.45)		1597	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.930	5.930	0.0	0.930	939148	5.36		113	4835	
33 BTS										
280.00 > 147.00	6.093	6.093	0.0	0.955	2018604	0.9298		95.0	6063	
* 34 13C4 PFOA										
417.10 > 372.00	6.143	6.143	0.0		7454763	5.00			4853	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.133	6.143	-0.010	0.998	2984859	1.97		98.3	5188	
36 PFOA										
413.00 > 369.00	6.143	6.143	0.0	1.002	893308	0.9654	Target=1.91	96.5	773	
413.00 > 169.00	6.143	6.143	0.0	1.002	466799		1.91(0.96-2.87)		387	
37 7:3 FTCA										
441.00 > 316.90	6.235	6.234	0.001	1.176	287159	4.48	Target=0.31	89.5	1065	
441.00 > 336.90	6.235	6.234	0.001	1.176	944571		0.30(0.16-0.47)		2126	
40 PFHxS										
398.70 > 79.90	6.380	6.369	0.011	1.000	696196	0.9031	Target=3.07	99.0	1026	
398.70 > 98.90	6.390	6.369	0.021	1.002	210450		3.31(1.53-4.60)		483	
* 39 18O2 PFHxS										
403.00 > 83.90	6.380	6.379	0.001		1655311	1.90			4469	
D 38 13C3 PFHxS										
402.10 > 79.90	6.380	6.379	0.001	1.000	1891625	2.01		106	6027	
D 41 13C9 PFNA										
472.10 > 427.00	6.561	6.549	0.012	1.000	2158846	1.87		93.7	3804	
* 42 13C5 PFNA										
468.00 > 423.00	6.561	6.560	0.001		2226994	2.00			3943	
43 PFNA										
463.00 > 419.00	6.561	6.570	-0.009	1.000	962267	1.03	Target=2.01	103	1258	
463.00 > 219.00	6.550	6.570	-0.020	0.998	476006		2.02(1.01-3.02)		564	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.737	6.737	0.0	1.056	797158	4.41		91.8	2543	
45 8:2FTS										
527.10 > 507.00	6.737	6.737	0.0	1.000	569573	1.97	Target=1.99	103	3078	
527.10 > 80.80	6.737	6.737	0.0	1.000	285096		2.00(0.99-2.98)		1504	
46 PFECHS										
461.00 > 381.00	6.775	6.774	0.001	1.062	208924	0.9317	Target=0.18	101	1583	
461.00 > 99.00	6.784	6.774	0.010	1.063	1204351		0.17(0.09-0.27)		4379	
47 PFHpS										
449.00 > 79.90	6.811	6.811	0.0	0.941	1063989	1.02	Target=3.87	107	4914	
449.00 > 98.80	6.811	6.811	0.0	0.941	274587		3.87(1.94-5.81)		1212	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.909	6.899	0.010	0.954	1864591	5.17		103	3684	
50 NMeFOSAA										
570.10 > 419.00	6.909	6.909	0.0	1.000	349882	0.9636	Target=1.74	96.4	73.3	
570.10 > 483.00	6.909	6.909	0.0	1.000	203398		1.72(0.87-2.61)		251	
48 FHxSA										
397.90 > 78.00	6.960	6.959	0.001	1.091	1136858	0.8740		87.4	2481	
* 51 13C2 PFDA										
515.10 > 470.10	6.970	6.970	0.0		2149837	2.00			6364	
D 52 13C6 PFDA										
519.10 > 474.10	6.970	6.970	0.0	1.000	2380015	2.25		112	7164	
53 PFDA										
512.90 > 469.00	6.970	6.970	0.0	1.000	723011	0.8267	Target=3.37	82.7	2517	
512.90 > 219.00	6.970	6.970	0.0	1.000	221728		3.26(1.69-5.06)		731	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.091	7.090	0.001	0.979	1623320	5.21		104	3180	
55 NEtFOSAA										
584.20 > 419.10	7.091	7.100	-0.009	1.000	276336	0.9700	Target=1.30	97.0	512	
584.20 > 526.00	7.101	7.100	0.001	1.001	206286		1.34(0.65-1.95)		305	
58 PFOS										
498.90 > 79.90	7.241	7.232	0.009	1.000	1036558	0.9167	Target=4.60	98.6	1668	
498.90 > 98.80	7.241	7.232	0.009	1.000	230962		4.49(2.30-6.91)		756	
* 57 13C4 PFOS										
502.80 > 79.90	7.241	7.241	0.0		1340814	1.92			3993	
D 56 13C8 PFOS										
507.10 > 79.90	7.241	7.241	0.0	1.000	1599636	2.05		107	5824	
D 59 13C7 PFUnA										
570.00 > 525.10	7.387	7.387	0.0	1.060	2343410	2.22		111	4224	
60 PFUnA										
563.10 > 519.00	7.387	7.397	-0.010	1.000	775683	0.9434	Target=4.93	94.3	3672	
563.10 > 269.10	7.387	7.397	-0.010	1.000	155525		4.99(2.47-7.40)		620	
61 9ClFOS										
530.80 > 351.00	7.563	7.562	0.001	1.044	2183265	0.9500	Target=3.12	102	6399	
532.80 > 353.00	7.563	7.562	0.001	1.044	725123		3.01(1.56-4.68)		4692	
62 PFNS										
548.80 > 79.90	7.656	7.664	-0.008	1.057	694091	0.9718	Target=3.51	101	3565	
548.80 > 98.80	7.656	7.664	-0.008	1.057	197792		3.51(1.75-5.26)		1438	
63 PFDoA										
613.10 > 569.00	7.799	7.791	0.008		1005256	0.9839	Target=5.93	98.4	4033	
613.10 > 319.00	7.806	7.791	0.015		161514		6.22(2.96-8.89)		1105	
D 81 PFDoA										
615.10 > 570.00	7.799	7.806	-0.007	1.119	2188614	2.16		108	1865	
64 PFOSA										R
498.10 > 77.90	8.036	8.027	0.009	0.999	920002	0.99	Target=41.04	99.1	2903	R
498.10 > 478.00	7.916	8.027	-0.111	0.984	8124		113.24(20.52-61.57)		1.8	
D 65 13C8 FOSA										
506.10 > 77.80	8.044	8.035	0.009	1.111	1680720	2.09		105	3790	
66 PFDS										
599.00 > 79.90	8.069	8.068	0.001	1.114	967136	1.02	Target=3.81	105	4590	
599.00 > 98.80	8.069	8.068	0.001	1.114	248864		3.89(1.91-5.72)		1899	
67 PFTrDA										
663.00 > 619.00	8.211	8.221	-0.010	0.953	1022267	1.08	Target=6.20	108	2987	
663.00 > 168.90	8.211	8.221	-0.010	0.953	145047		7.05(3.10-9.31)		1682	
68 11ClFOS										
630.90 > 450.90	8.378	8.388	-0.010	1.157	1626112	1.03	Target=3.04	109	7884	
632.90 > 452.90	8.389	8.388	0.001	1.158	519314		3.13(1.52-4.56)		2399	
69 PFTeDA										
713.10 > 168.90	8.612	8.611	0.001	1.000	98832	0.9034	Target=1.02	90.3	1177	
713.10 > 219.00	8.612	8.611	0.001	1.000	100782		0.98(0.51-1.53)		606	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.612	8.611	0.001	1.235	1951286	2.14		107	3364	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.816	8.815	0.001	1.217	964706	1.03	Target=4.04	106	3207	
699.10 > 98.80	8.816	8.815	0.001	1.217	228821		4.22(2.02-6.05)		2380	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.905	8.889	0.016	1.230	332640	5.16		103	768	
73 N-MeFOSE-M										
616.10 > 58.90	8.919	8.904	0.015	1.002	801055	4.70		94.0	937	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.003	9.002	0.001	1.243	499376	1.96		98.0	2805	
74 NMeFOSA										
511.90 > 219.00	9.017	9.017	0.0	1.002	238901	1.01	Target=0.72	101	737	
511.90 > 169.00	9.017	9.017	0.0	1.002	328966		0.73(0.36-1.08)		1393	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.125	9.125	0.0	1.260	375682	5.40		108	841	
77 N-EtFOSE-M										
630.00 > 58.90	9.139	9.152	-0.013	1.001	1251329	5.04		101	7492	
79 N-EtFOSA-M										
526.00 > 219.00	9.228	9.215	0.013	1.001	276216	0.9576	Target=0.87	95.8	1461	
526.00 > 169.00	9.228	9.215	0.013	1.001	317443		0.87(0.44-1.31)		1214	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.216	9.215	0.001	1.273	663497	2.03		101	2258	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.532	9.542	-0.010	1.107	826130	0.9187	Target=17.02	91.9	16754	
913.00 > 169.00	9.532	9.542	-0.010	1.107	42710		19.34(8.51-25.52)		2171	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

1633_125_CAL4_00083 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 22:55:49 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05PC-26.d

Injection Date: 05-Feb-2026 19:37:43 Instrument ID: 30577

Lims ID: CCV 5_CAL4

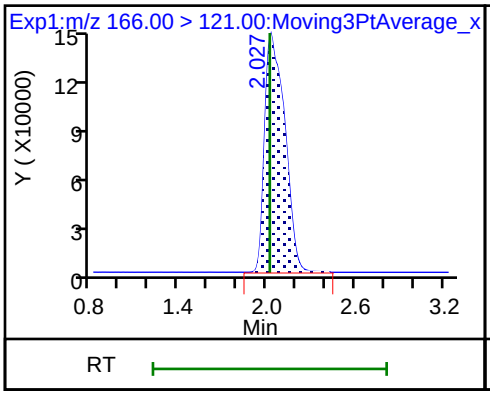
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Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 5 Worklist Smp#: 130

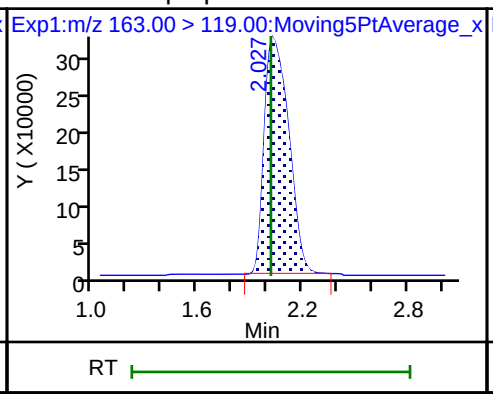
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Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

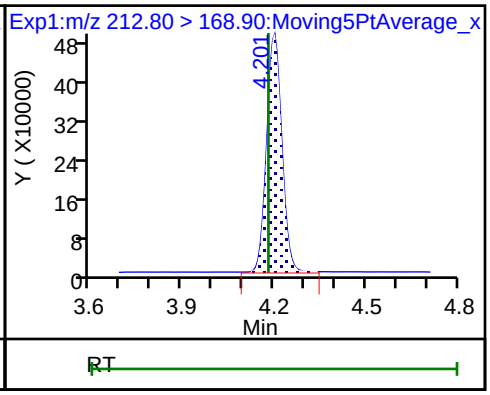
D 1 13C3PFPrA



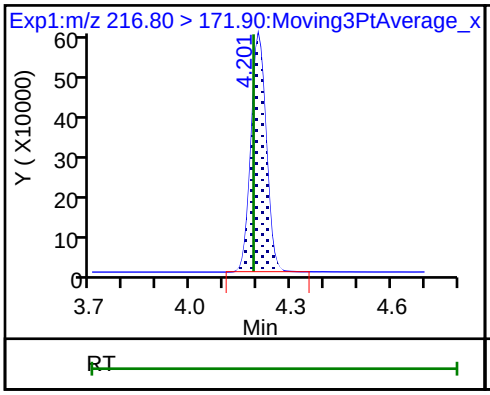
2 Perfluoropropionic acid



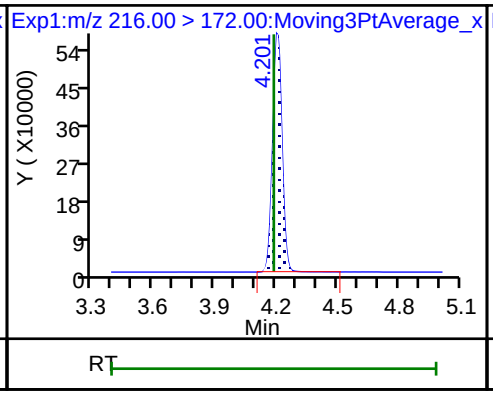
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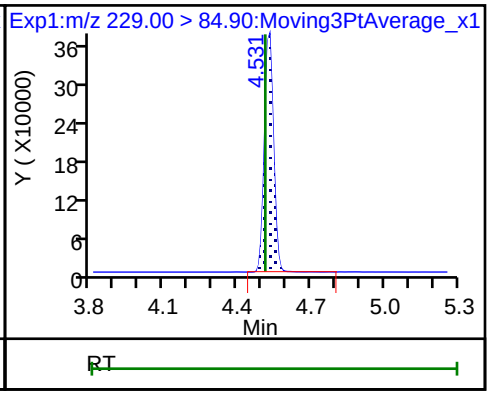
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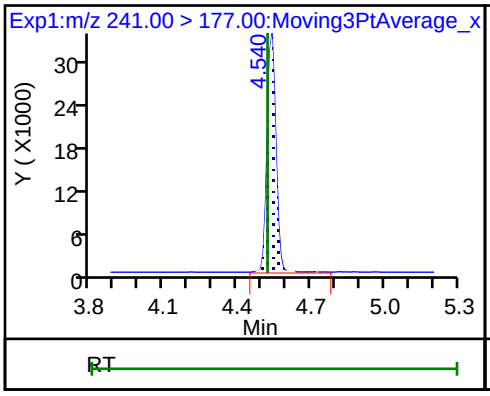
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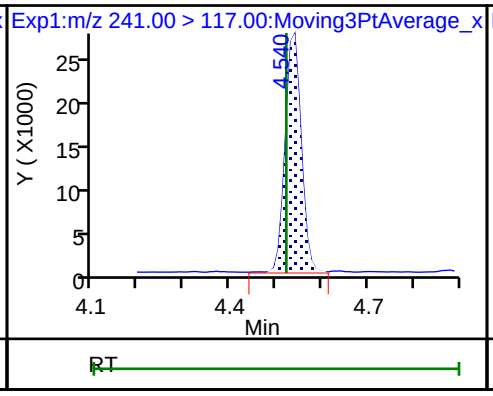
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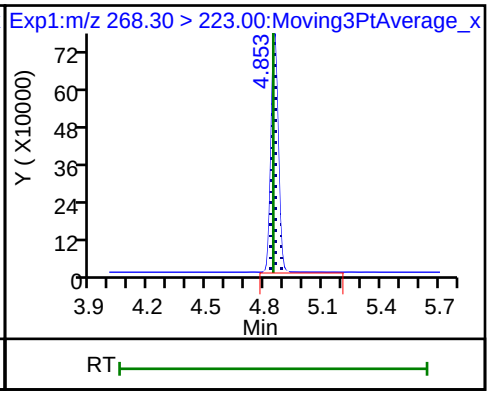
7 3:3 FTCA



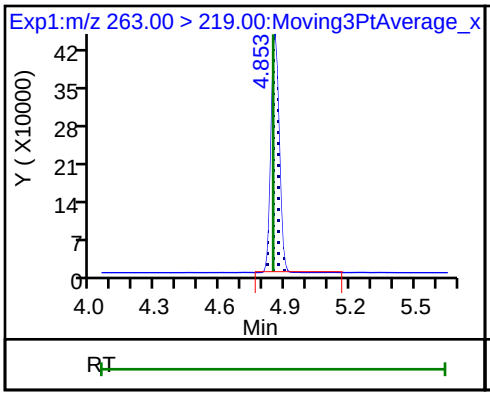
7 3:3 FTCA



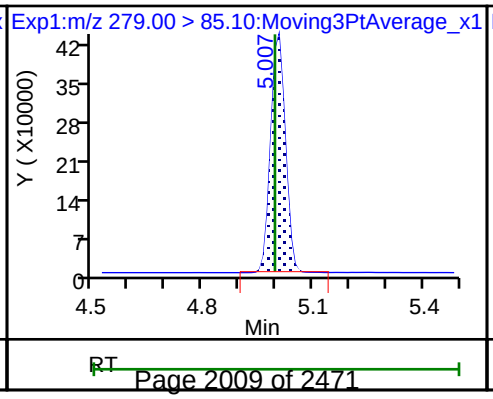
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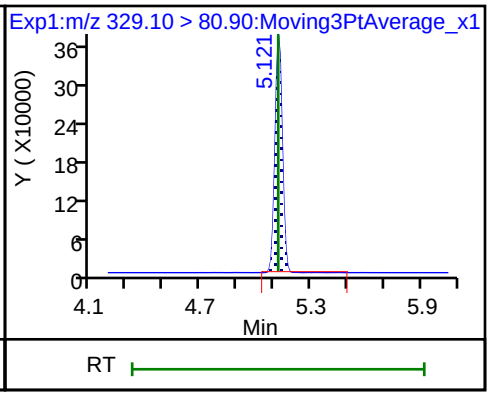
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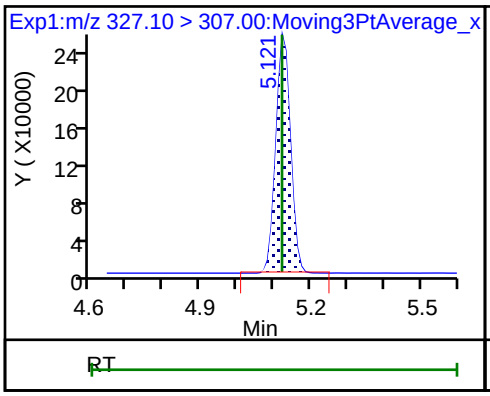
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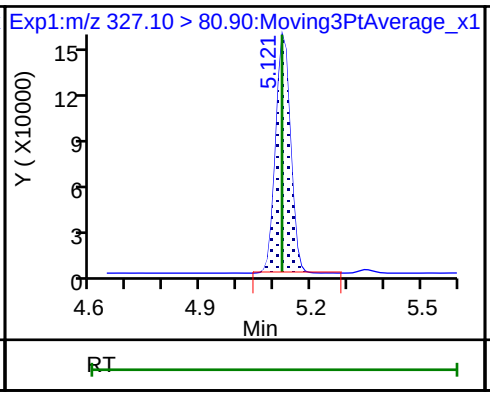
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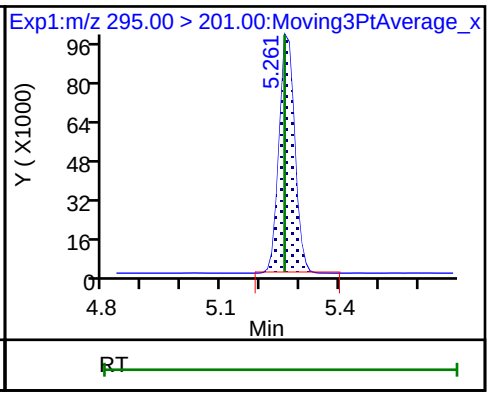
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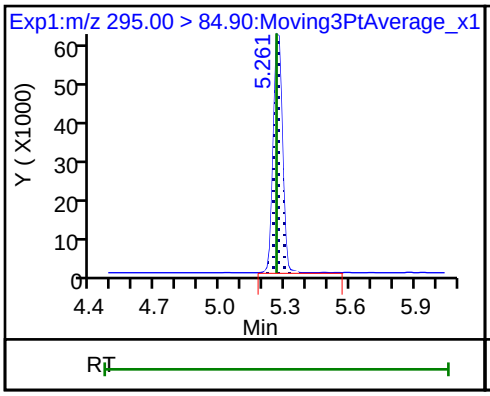
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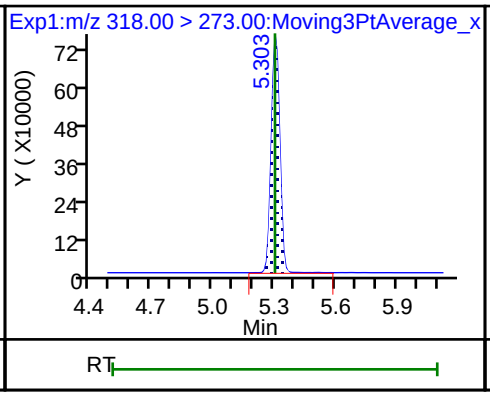
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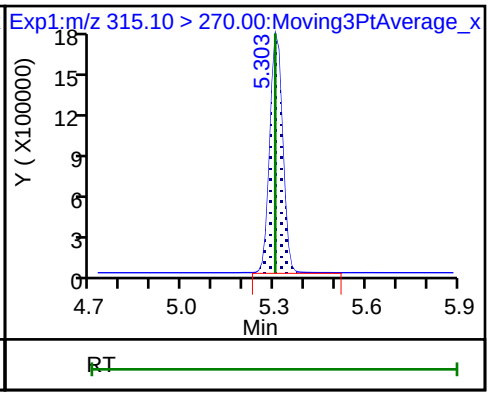
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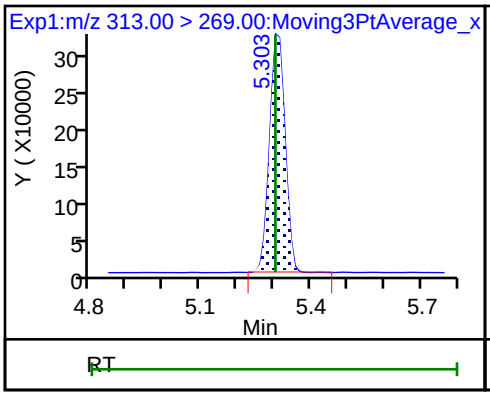
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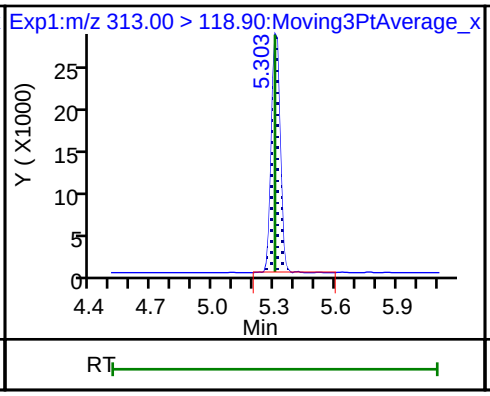
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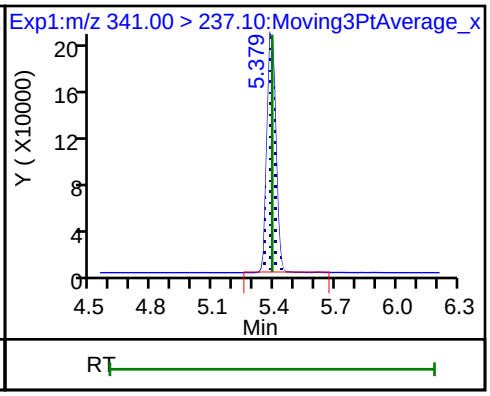
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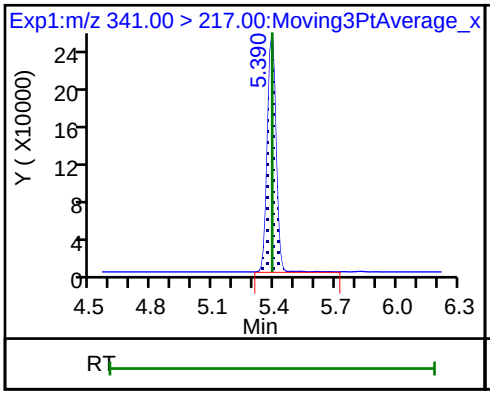
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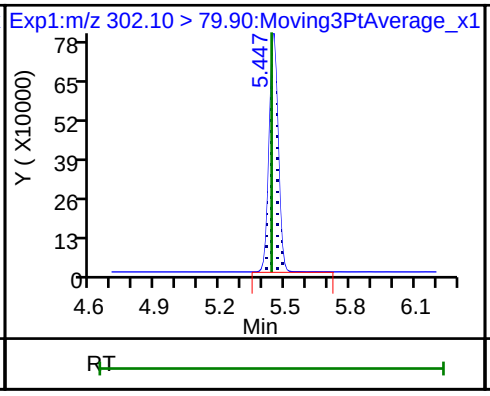
18 5:3 FTCA



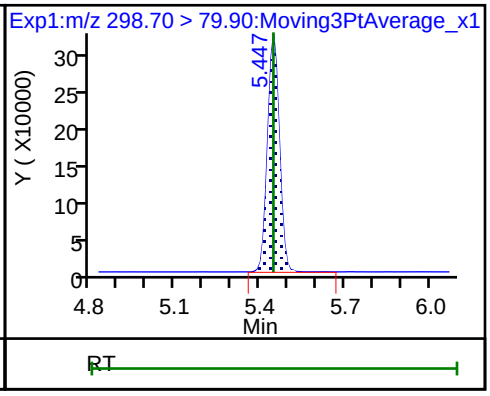
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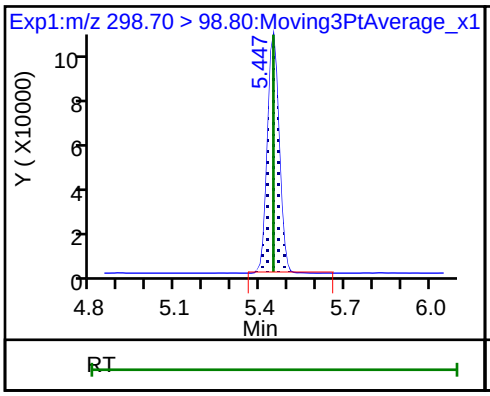
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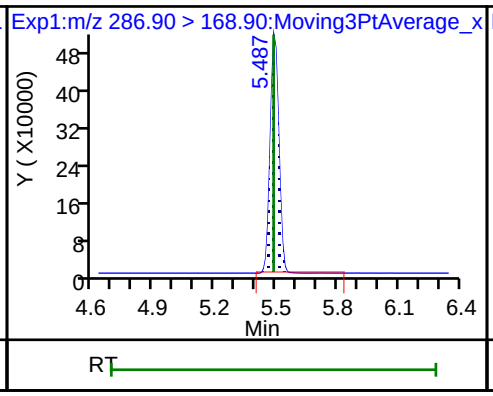
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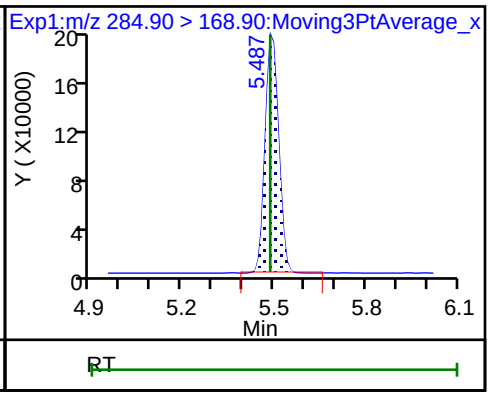
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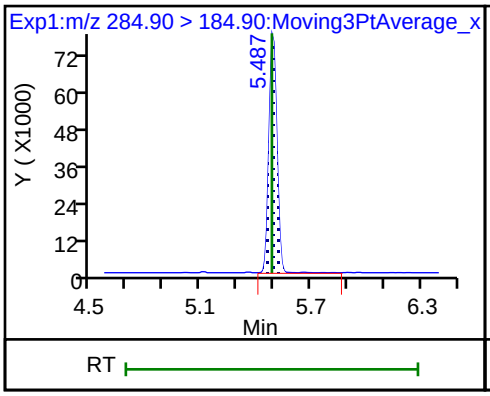
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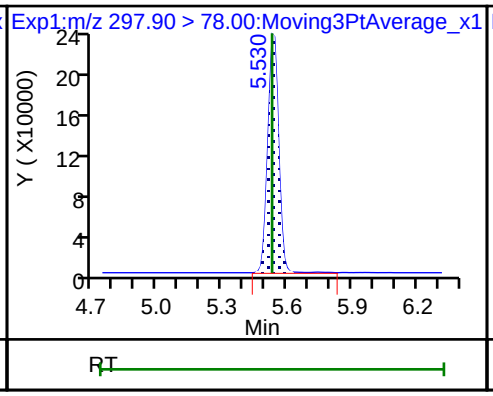
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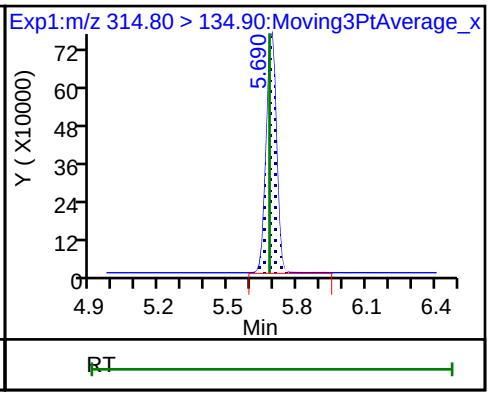
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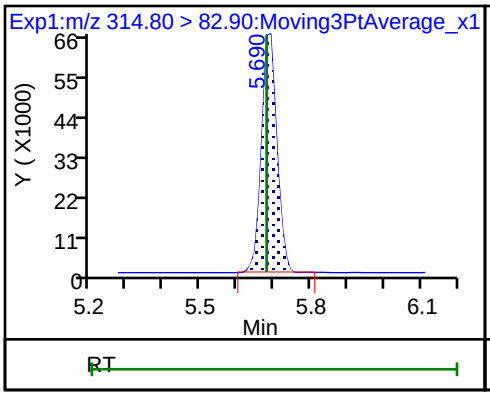
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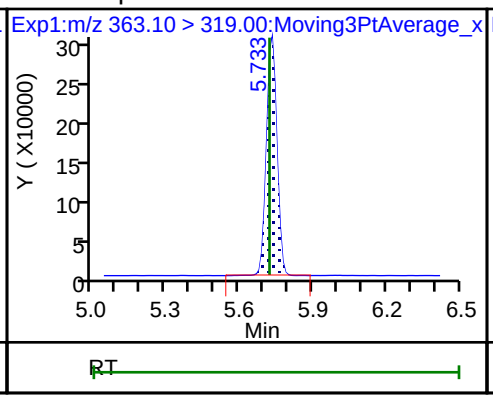
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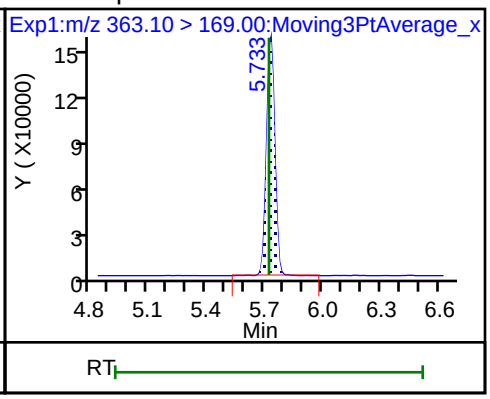
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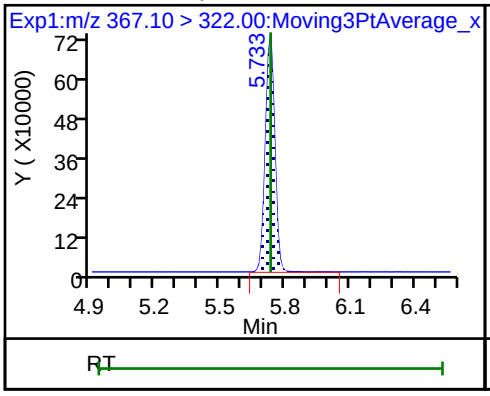
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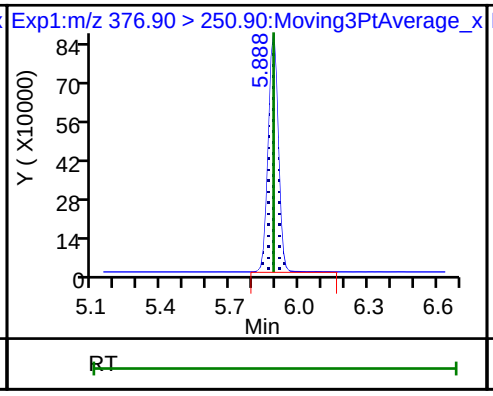
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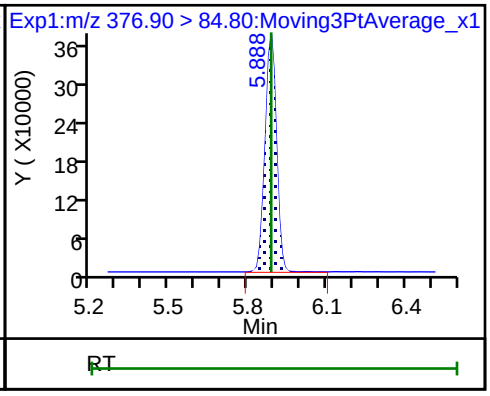
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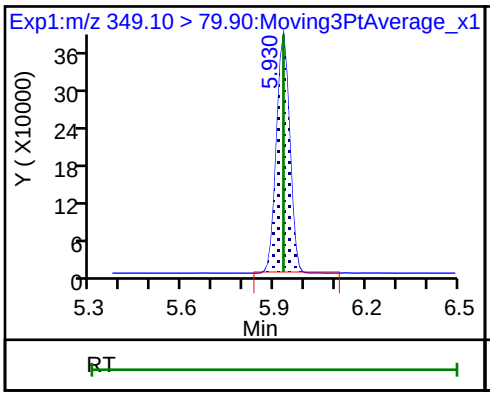
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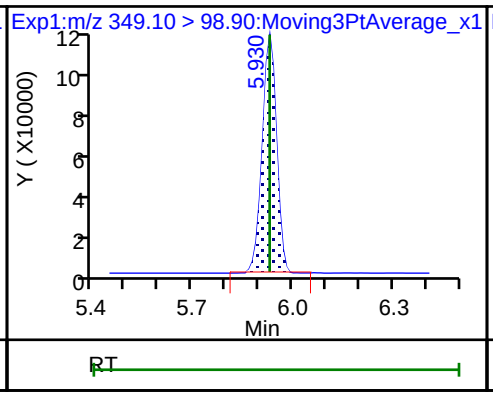
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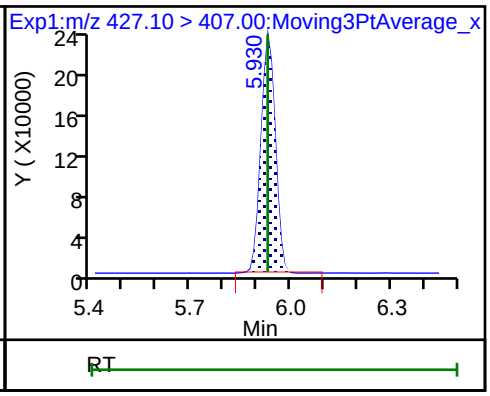
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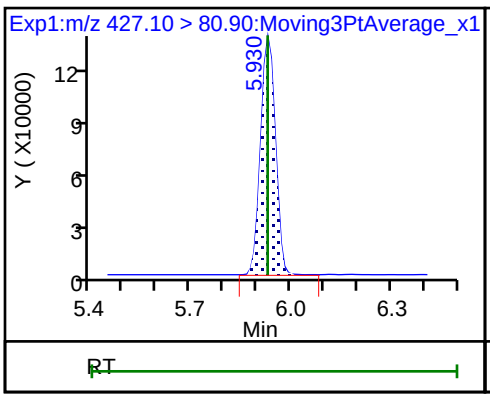
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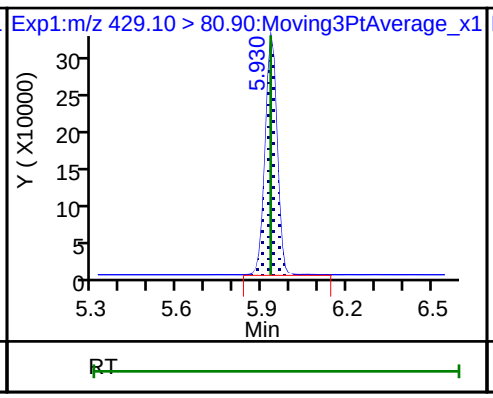
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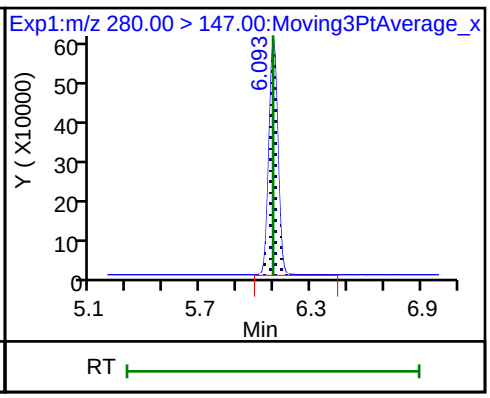
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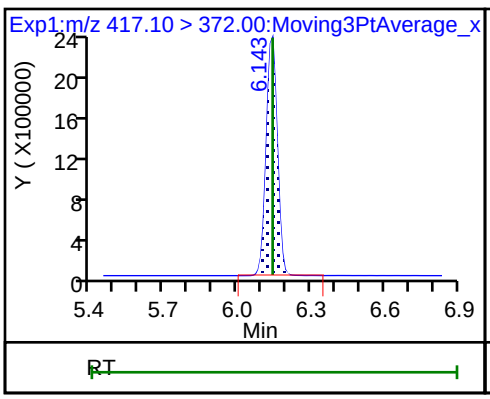
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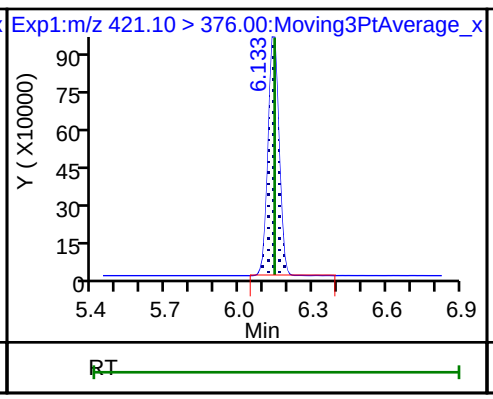
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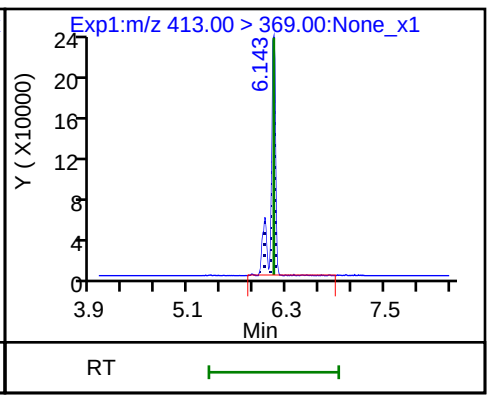
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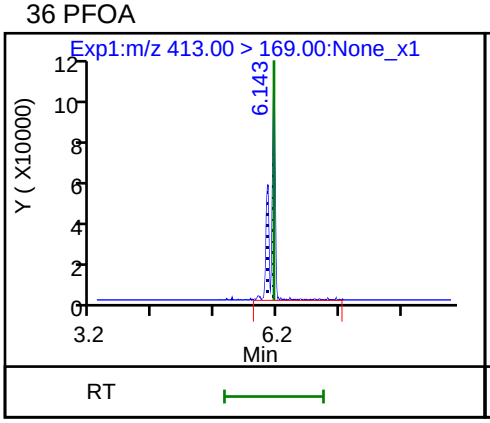
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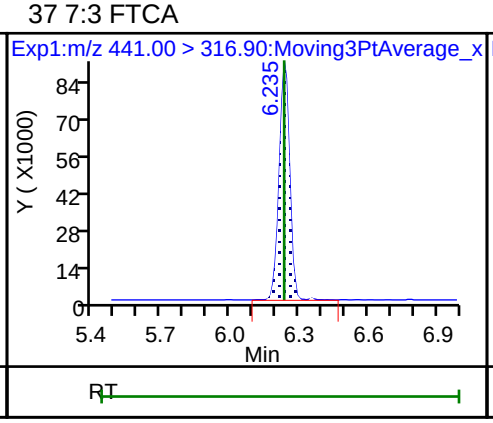
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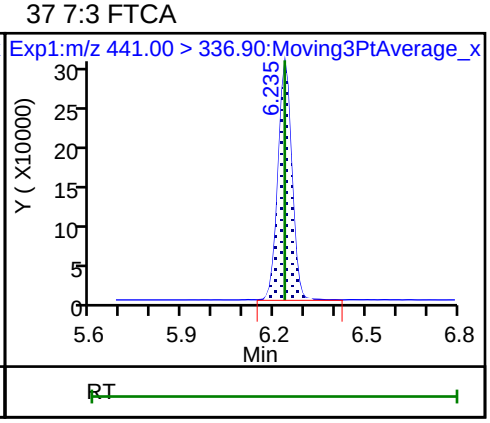
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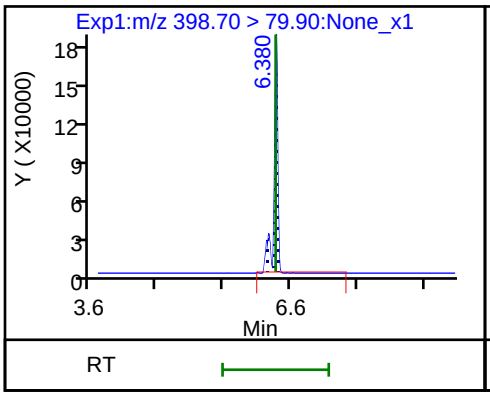
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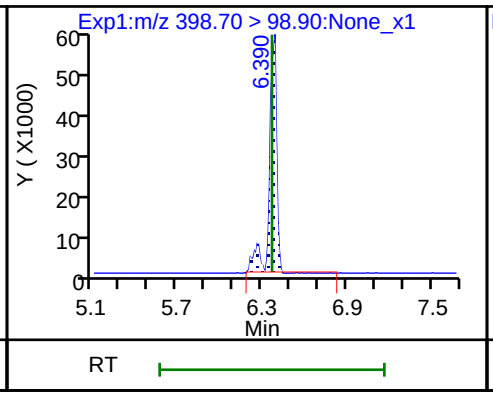
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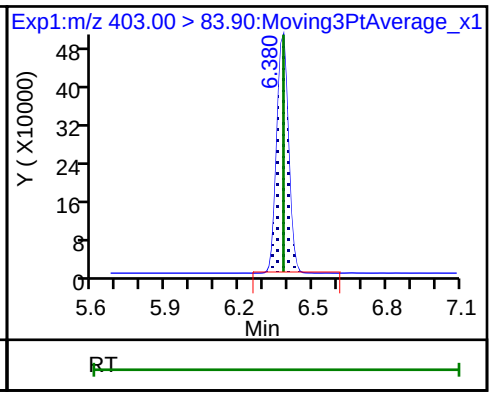
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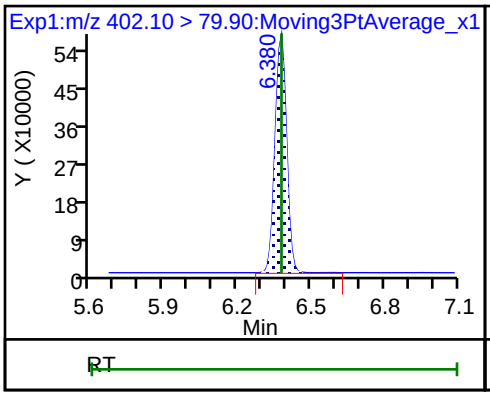
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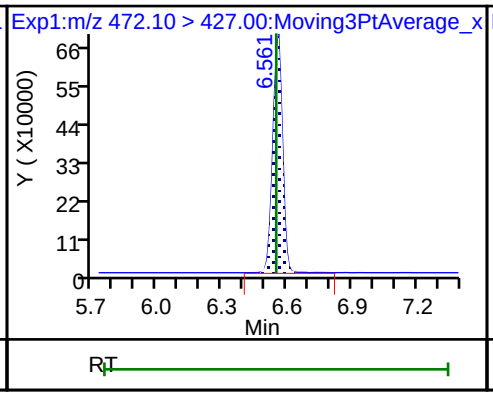
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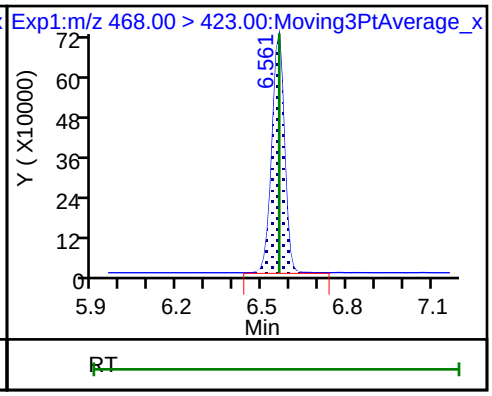
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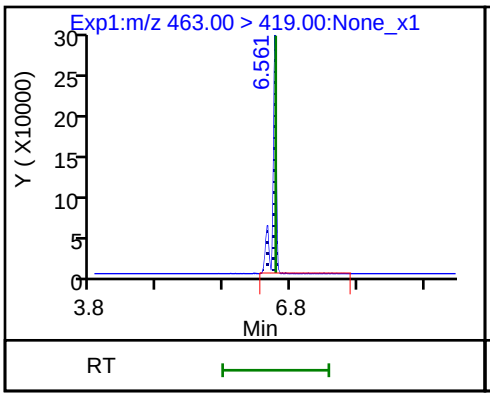
D 41 13C9 PFNA



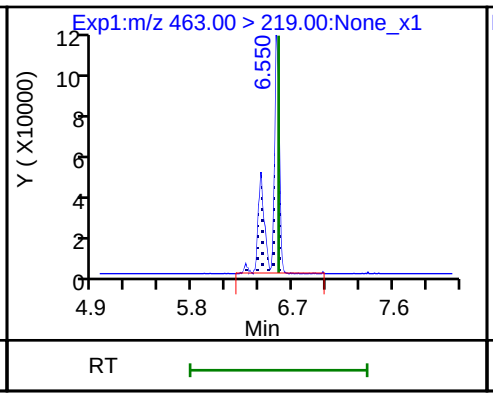
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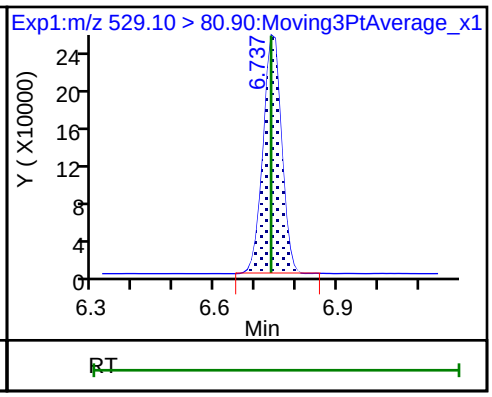
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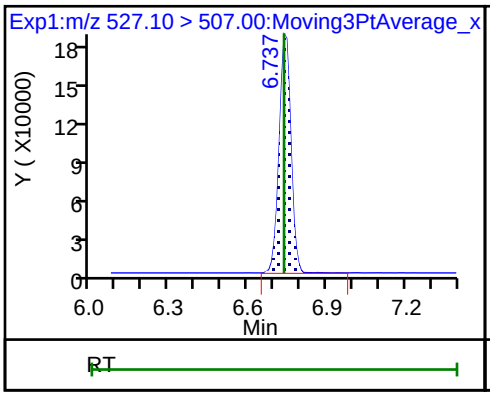
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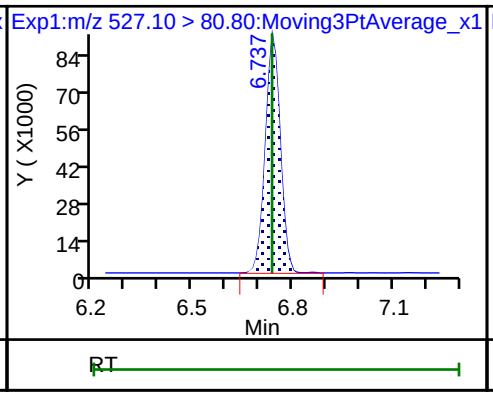
D 44 13C2-8:2FTS



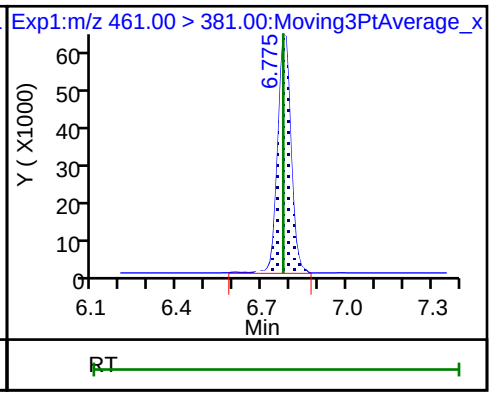
45 8:2FTS



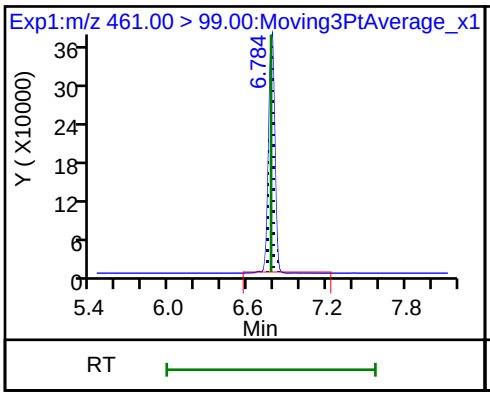
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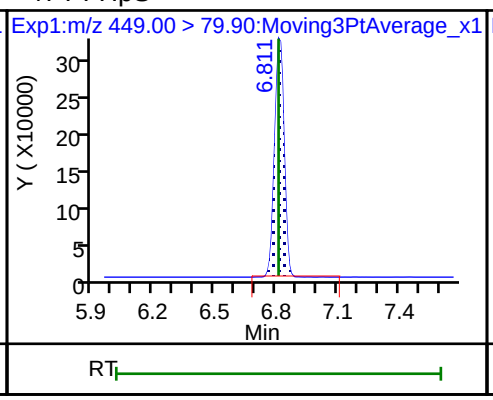
46 PFECHS



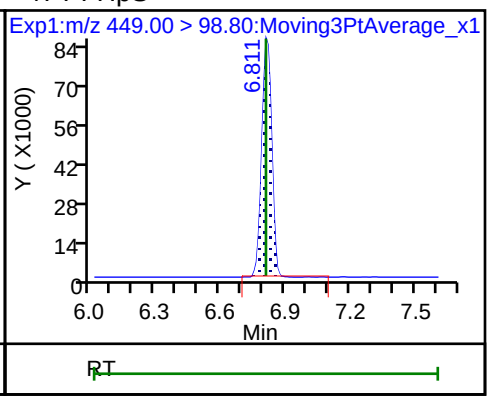
46 PFECHS



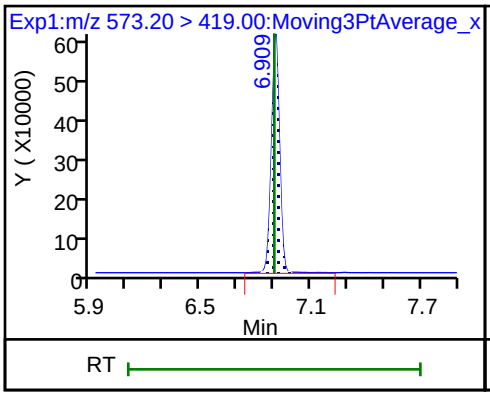
47 PFHpS



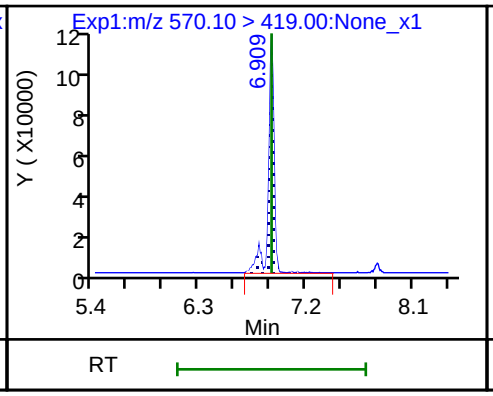
47 PFHpS



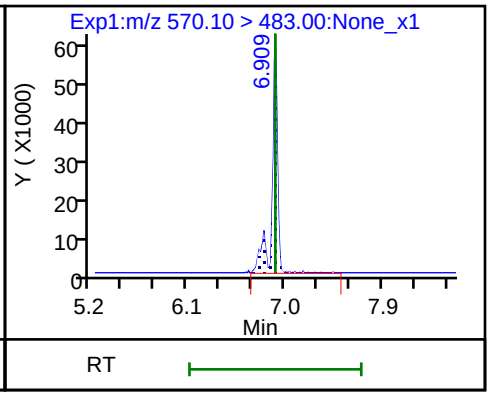
D 49 d3-NMeFOSAA



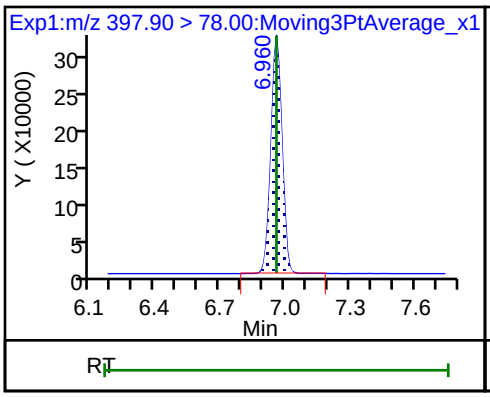
50 NMeFOSAA



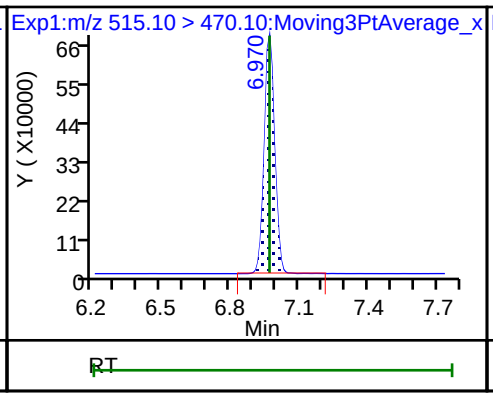
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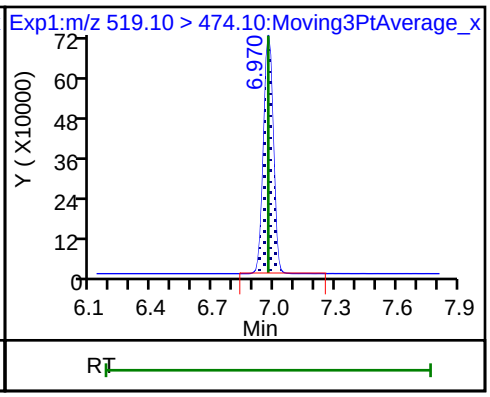
48 FHxSA



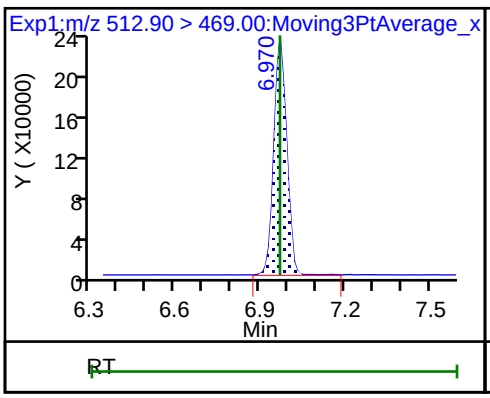
* 51 13C2 PFDA



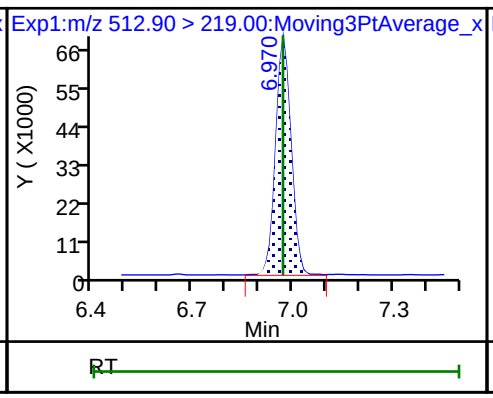
D 52 13C6 PFDA



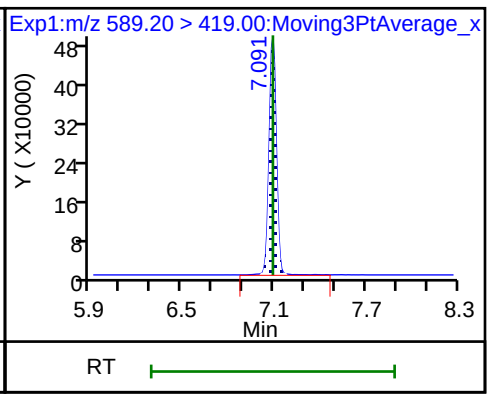
53 PFDA



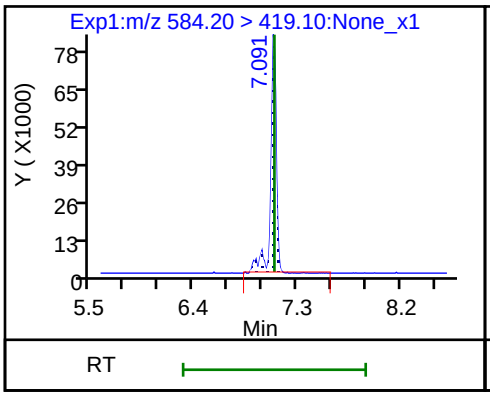
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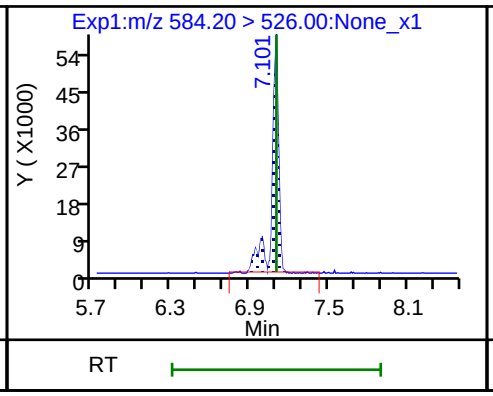
D 54 d5-NEtFOSAA



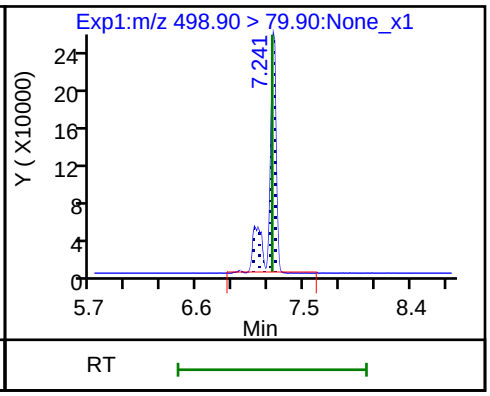
55 NEtFOSAA



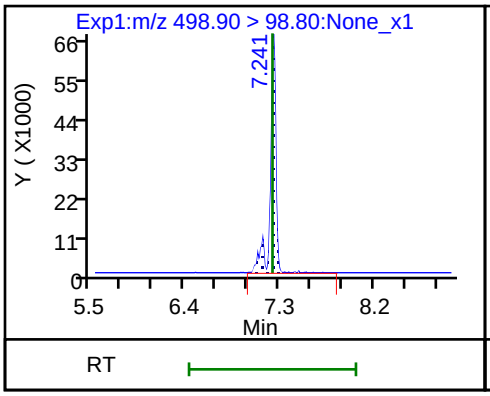
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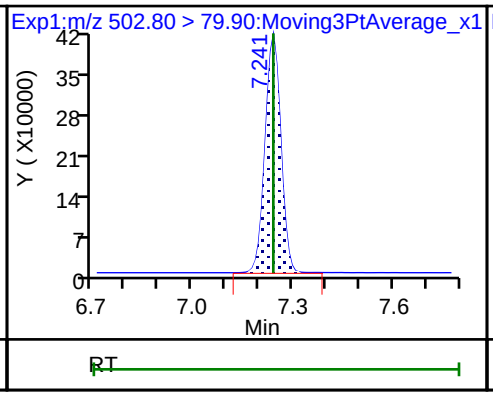
58 PFOS



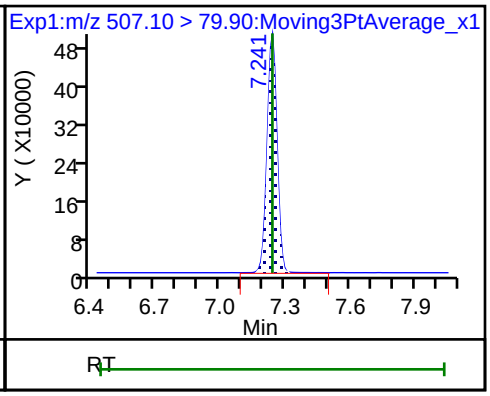
58 PFOS



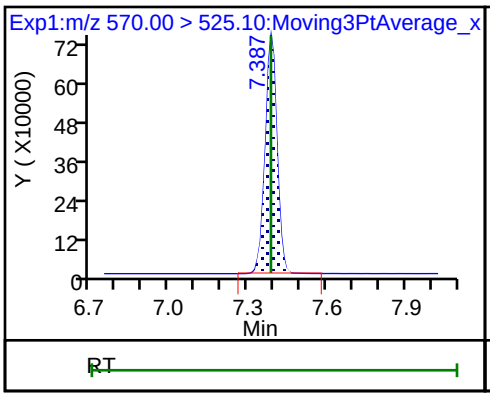
* 57 13C4 PFOS



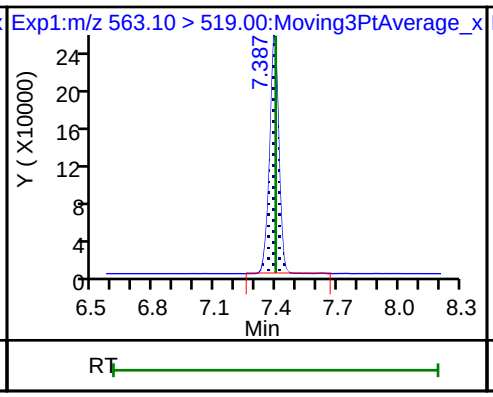
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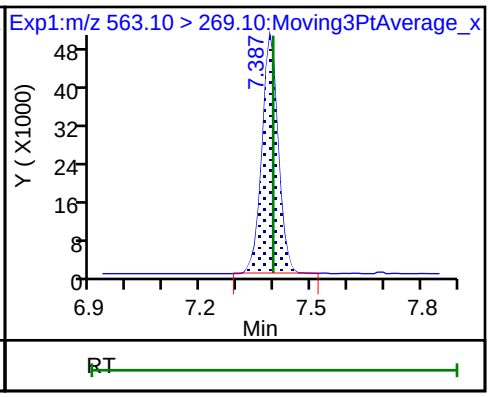
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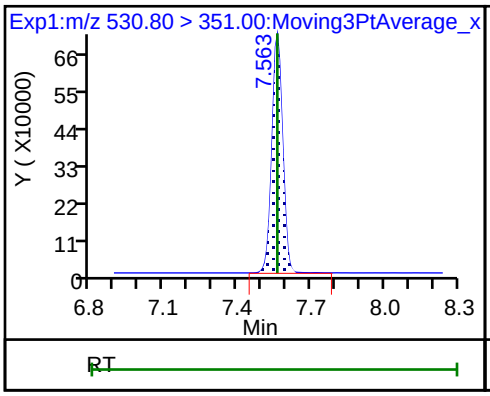
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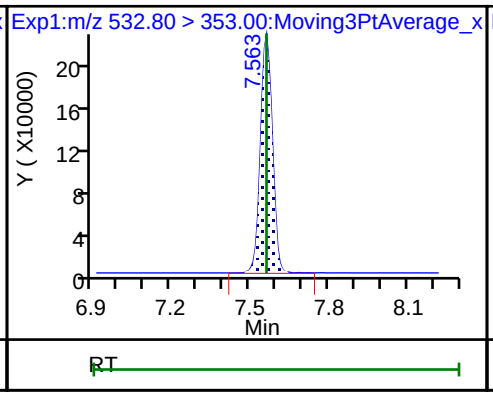
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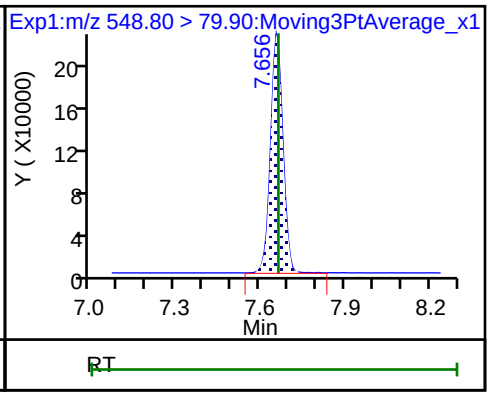
61 9ClFOS



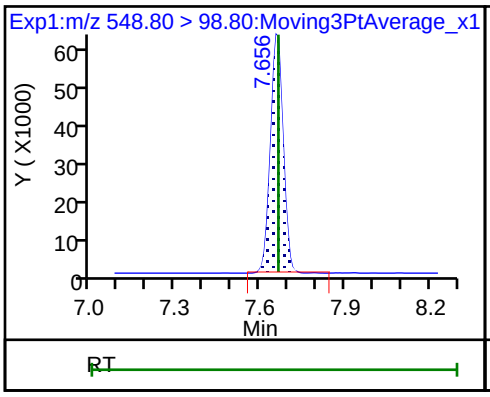
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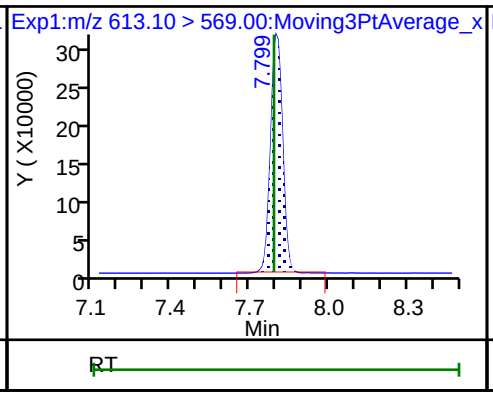
62 PFNS



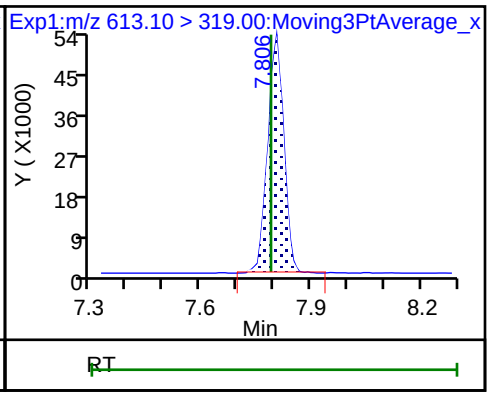
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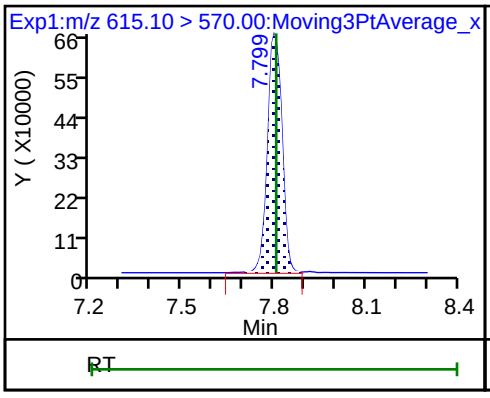
63 PFDoA



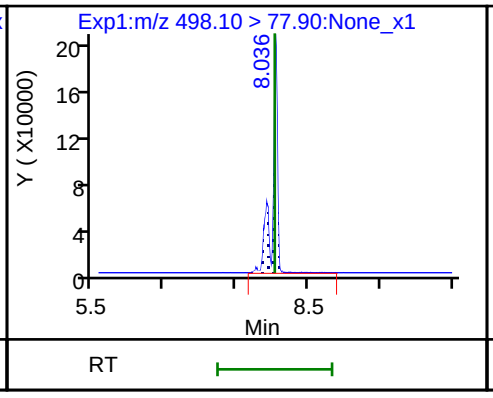
63 PFDoA



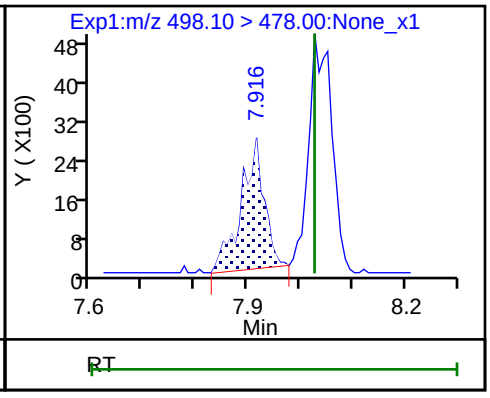
D 81 PFDoA



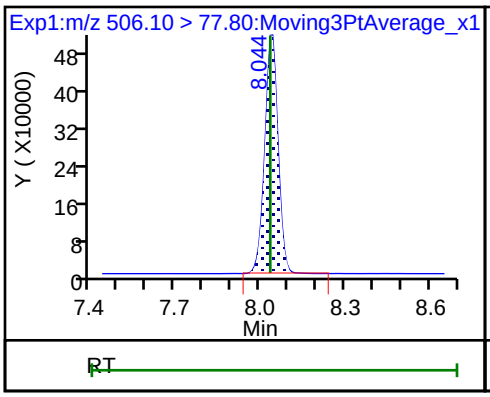
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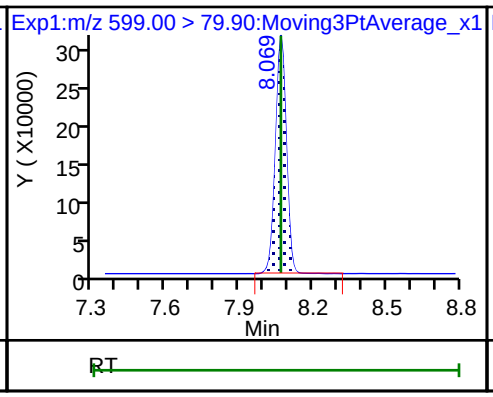
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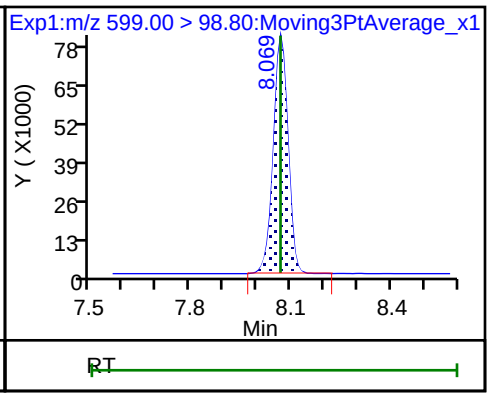
D 65 13C8 FOSA



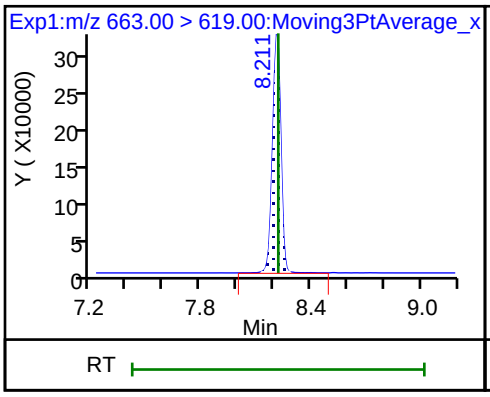
66 PFDS



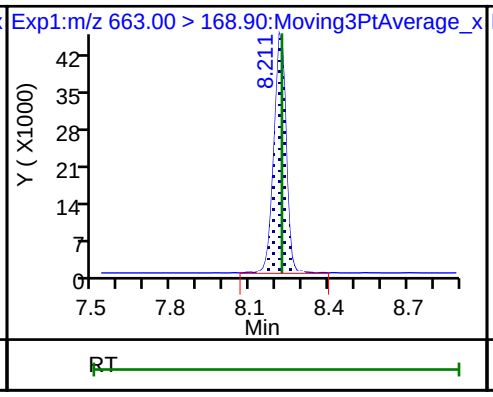
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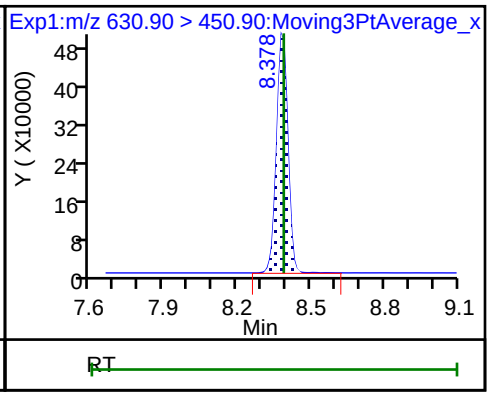
67 PFTrDA



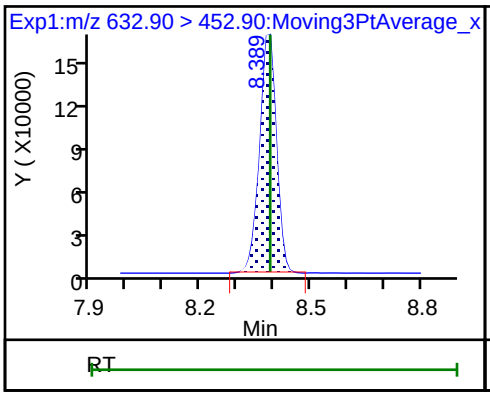
67 PFTrDA



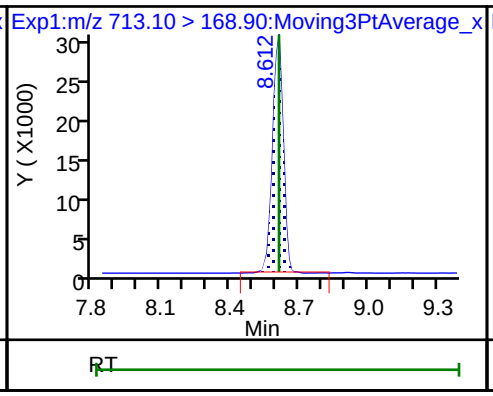
68 11ClFOS



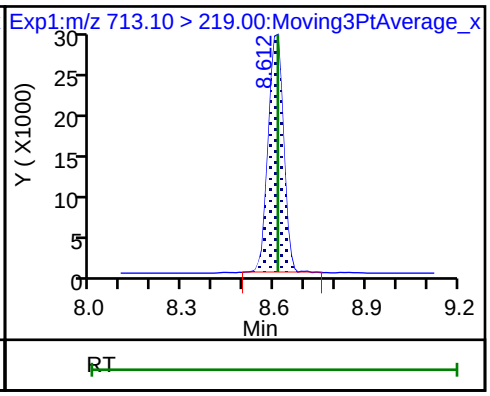
68 11ClFOS



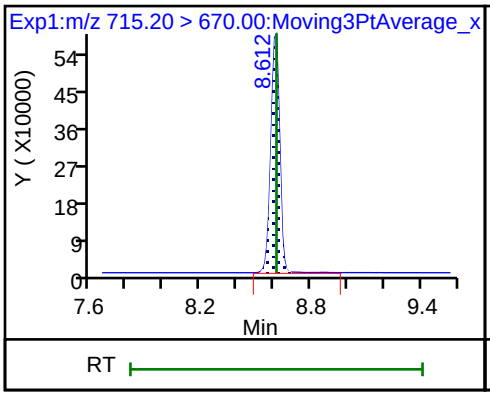
69 PFTeDA



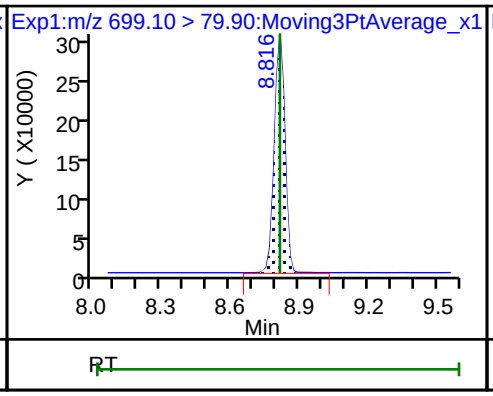
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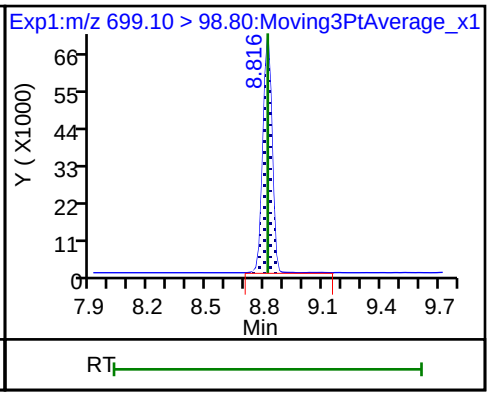
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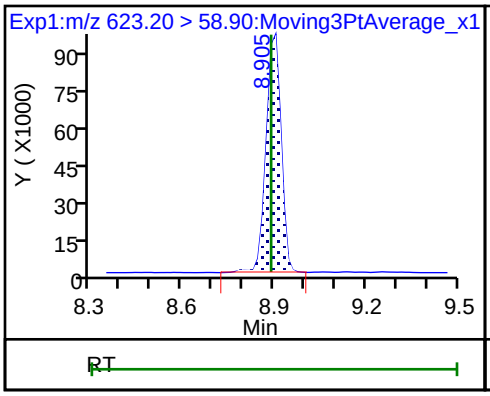
71 PFDoS



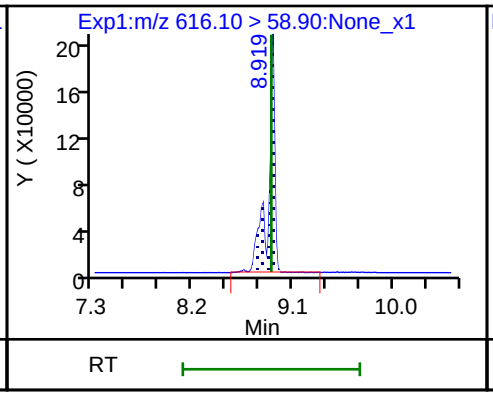
71 PFDoS



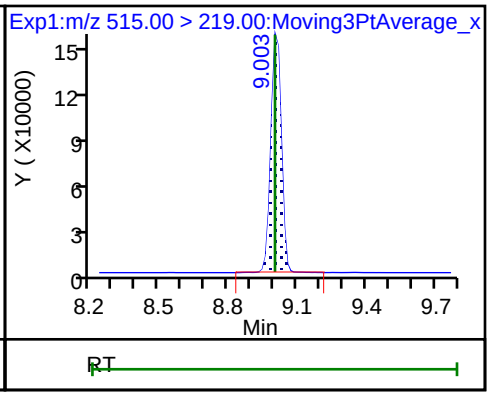
D 72 d7-N-Me-FOSE



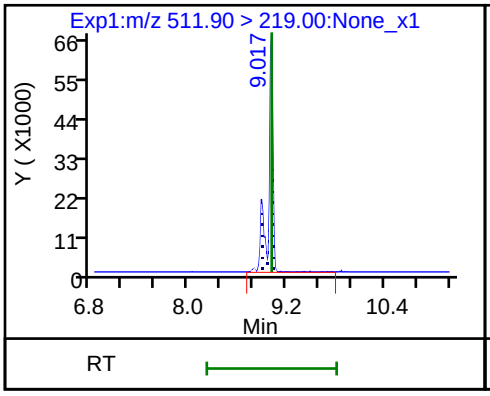
73 N-MeFOSE-M



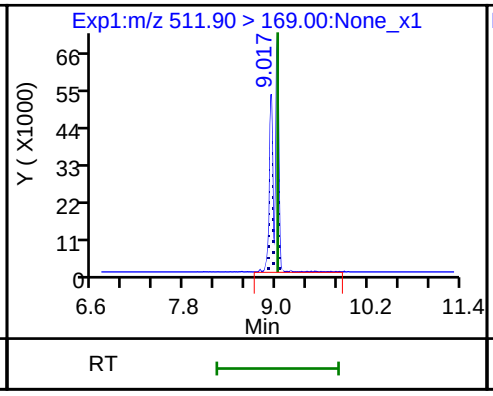
D 75 d3-NMePFOSA



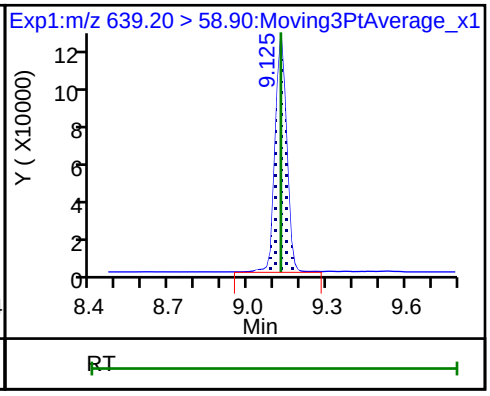
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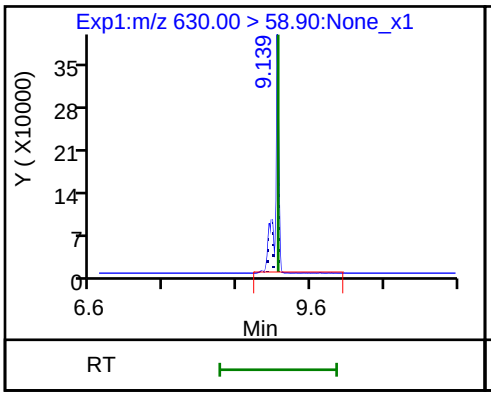
74 NMeFOSA



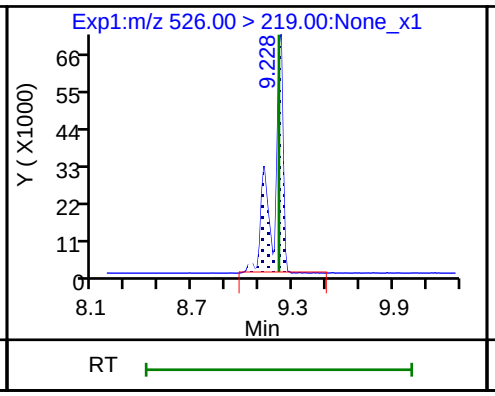
D 76 d9-N-EtFOSE



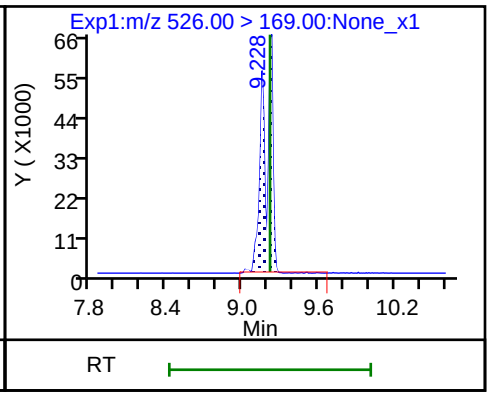
77 N-EtFOSE-M



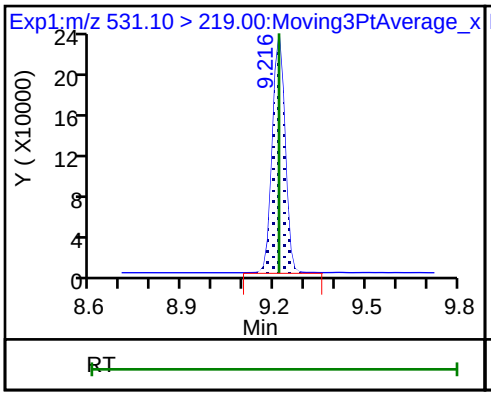
79 N-EtFOSA-M



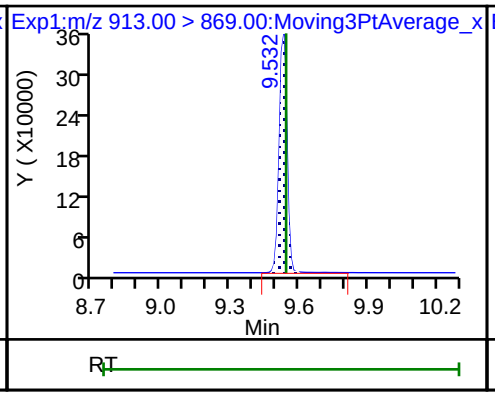
79 N-EtFOSA-M



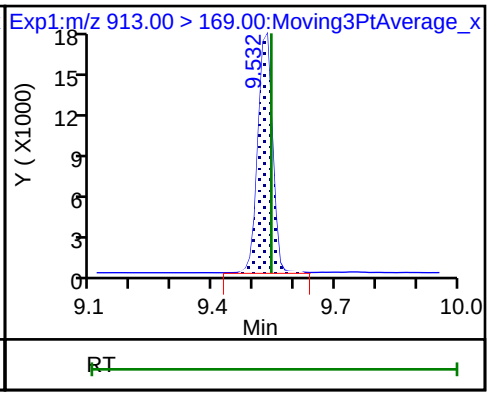
D 78 d5-NEtPFOSA



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-765196/151 Calibration Date: 02/05/2026 22:20

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26FEB05JO-41.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoropropionic acid (PFPrA)	AveID	0.9186	0.8944		4.87	5.00	-3.0	30.0
Perfluorobutanoic acid (PFBA)	AveID	0.9187	0.9081		1.98	2.00	-1.0	30.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	AveID	1.024	0.9879		0.965	1.00	-3.0	30.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	AveID	0.0493	0.0463		1.88	2.00	-6.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.194	1.185		0.993	1.00	-1.0	30.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	AveID	1.355	1.335		0.985	1.00	-1.0	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.850	1.920		1.95	1.88	4.0	30.0
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	AveID	0.2495	0.2081		0.834	1.00	-17.0	30.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8639	0.8145		0.943	1.00	-6.0	30.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	AveID	0.1207	0.1031		4.27	5.00	-15.0	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.8958	0.8489		0.841	0.888	-5.0	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.071	1.123		0.786	0.750	5.0	30.0
Perfluorobutanesulfonamide (FBSA)	AveID	0.7948	0.7916		0.996	1.00	0.0	30.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	AveID	2.390	2.199		0.821	0.892	-8.0	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.8398	0.8028		0.956	1.00	-4.0	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.489	3.516		0.953	0.946	1.0	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.157	1.076		0.874	0.940	-7.0	30.0
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	AveID	1.873	1.762		1.79	1.90	-6.0	30.0
Bis(trifluoromethane)sulfonamide (TFSI)	AveID	2.176	1.875		0.844	0.979	-14.0	30.0
Perfluorooctanoic acid (PFOA)	AveID	0.6200	0.6022		0.971	1.00	-3.0	30.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	AveID	0.0578	0.0494		4.27	5.00	-15.0	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	0.7727	0.7138		0.842	0.912	-8.0	30.0
Perfluorononanoic acid (PFNA)	AveID	0.8686	0.8254		0.950	1.00	-5.0	30.0
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	AveID	1.738	1.751		1.94	1.92	1.0	30.0
Perfluoro-4-ethylcyclohexane sulfonic acid (PFECHS)	AveID	0.2248	0.2265		0.931	0.924	1.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.253	1.305		0.994	0.954	4.0	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9737	0.9435		0.969	1.00	-3.0	30.0
Perfluorohexanesulfonamide (FHxSA)	AveID	1.304	1.183		0.907	1.00	-9.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-765196/151 Calibration Date: 02/05/2026 22:20

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26FEB05JO-41.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorodecanoic acid (PFDA)	AveID	0.7350	0.6568		0.894	1.00	-11.0	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8775	0.8784		1.00	1.00	0.0	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.354	1.318		0.905	0.930	-3.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7017	0.7356		1.05	1.00	5.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	AveID	2.753	2.768		0.939	0.934	1.0	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8555	0.9047		1.02	0.962	6.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9337	0.9041		0.968	1.00	-3.0	30.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.105	1.126		1.02	1.00	2.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.140	1.108		0.937	0.964	-3.0	30.0
Perfluorotridecanoic acid (PFTrDA)	AveID	0.9175	0.9205		1.00	1.00	0.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	AveID	1.897	1.836		0.914	0.944	-3.0	30.0
Perfluorotetradecanoic acid (PFTeDA)	AveID	0.1121	0.1067		0.951	1.00	-5.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.121	1.098		0.950	0.970	-2.0	30.0
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	AveID	2.561	2.649		5.17	5.00	3.0	30.0
N-methylperfluorooctane sulfonamide (NMeFOSA)	AveID	0.9489	0.9509		1.00	1.00	0.0	30.0
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	AveID	3.302	3.568		5.40	5.00	8.0	30.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	AveID	0.8695	0.8427		0.969	1.00	-3.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9217	0.9931		1.08	1.00	8.0	30.0
13C3-PFPrA	Ave	0.7584	0.7701		2.03	2.00	2.0	30.0
13C4 PFBA	Ave	1.026	1.039		2.03	2.00	1.0	30.0
13C5 PFPeA	Ave	0.8716	0.9307		2.14	2.00	7.0	30.0
13C2 4:2 FTS	Ave	0.2372	0.2128		4.21	4.69	-10.0	30.0
13C5 PFHxA	Ave	1.060	1.151		2.17	2.00	9.0	30.0
13C3 PFBS	Ave	1.273	1.245		1.82	1.86	-2.0	30.0
13C3 HFPO-DA	Ave	0.7215	0.7290		2.02	2.00	1.0	30.0
13C4 PFHpA	Ave	1.034	1.139		2.20	2.00	10.0	30.0
13C2 6:2 FTS	Ave	0.2005	0.1973		4.68	4.76	-2.0	30.0
13C8 PFOA	Ave	1.019	1.072		2.11	2.00	5.0	30.0
13C3 PFHxS	Ave	1.077	1.150		2.03	1.90	7.0	30.0
13C9 PFNA	Ave	1.035	1.039		2.01	2.00	0.0	30.0
13C2 8:2 FTS	Ave	0.2071	0.1729		4.01	4.80	-17.0	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Lab Sample ID: CCV 410-765196/151 Calibration Date: 02/05/2026 22:20

Instrument ID: 30577 Calib Start Date: 02/04/2026 09:39

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 02/04/2026 11:14

Lab File ID: 26FEB05JO-41.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
d3-NMeFOSAA	Ave	0.5156	0.4646		4.51	5.00	-10.0	30.0
13C6 PFDA	Ave	0.9857	1.018		2.07	2.00	3.0	30.0
d5-NEtFOSAA	Ave	0.4453	0.4255		4.78	5.00	-4.0	30.0
13C8 PFOS	Ave	1.113	1.119		1.93	1.92	1.0	30.0
13C7 PFUnA	Ave	0.9824	1.024		2.09	2.00	4.0	30.0
13C2 PFDoA	Ave	0.9443	1.016		2.15	2.00	8.0	30.0
13C8 FOSA	Ave	1.148	1.141		1.99	2.00	-1.0	30.0
13C2 PFTeDA	Ave	0.8495	0.8855		2.09	2.00	4.0	30.0
d7-N-MeFOSE-M	Ave	0.0922	0.0927		5.03	5.00	1.0	30.0
d3-NMePFOSA	Ave	0.3640	0.3666		2.01	2.00	1.0	30.0
d9-N-EtFOSE-M	Ave	0.0994	0.0995		5.00	5.00	0.0	30.0
d5-NEtPFOSA	Ave	0.4679	0.4721		2.02	2.00	1.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-41.d
Lims ID: CCV 6_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 05-Feb-2026 22:20:47 ALS Bottle#: 5 Worklist Smp#: 151
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCV 6_CAL4
Misc. Info.: Plate: 1 Rack: 1 410-0174796-151
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577
Sublist: chrom-30577-1633-125*sub7

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:57:01 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:54:26
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.052	2.018	0.034	0.488	1324326	2.03		102	2999	
2 Perfluoropropionic acid										
163.00 > 119.00	2.044	2.018	0.026	0.996	2961268	4.87		97.4	10584	
3 PFBA										
212.80 > 168.90	4.194	4.180	0.014	0.998	1623047	1.98		98.9	15809	
D 4 13C4-PFBA										
216.80 > 171.90	4.201	4.187	0.014	1.000	1787235	2.03		101	5407	
* 5 13C3PFBA										
216.00 > 172.00	4.201	4.187	0.014		1719750	2.00			4223	
6 PFMPA										
229.00 > 84.90	4.522	4.513	0.009	0.933	880317	0.9652		96.5	3019	
7 3:3 FTCA										
241.00 > 177.00	4.540	4.522	0.018	0.937	82453	1.88	Target=1.18	93.9	1252	
241.00 > 117.00	4.531	4.522	0.009	0.935	69161		1.19(0.59-1.77)		1033	
D 8 13C5 PFPeA										
268.30 > 223.00	4.844	4.844	0.0	0.914	1782114	2.14		107	4635	
9 PFPA										
263.00 > 219.00	4.852	4.844	0.008	1.002	1056002	0.99		99.3	2351	
10 PFMBA										
279.00 > 85.10	5.007	4.996	0.011	1.034	1189328	0.9850		98.5	3141	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.121	5.121	0.0	0.804	869840	4.21		89.7	3491	
12 4:2FTS										
327.10 > 307.00	5.121	5.121	0.0	1.000	667889	1.95	Target=1.72	104	2718	
327.10 > 80.90	5.121	5.121	0.0	1.000	385772		1.73(0.86-2.58)		556	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.271	5.260	0.011	0.994	229422	0.8341	Target=1.45	83.4	865	
295.00 > 84.90	5.260	5.260	0.0	0.992	175400		1.31(0.72-2.17)		1177	
D 15 13C5 PFHxA										
318.00 > 273.00	5.303	5.303	0.0	1.000	2204570	2.17		109	6480	
* 16 13C2 PFHxA										
315.10 > 270.00	5.303	5.303	0.0		4786821	5.00			5709	
17 PFHxA										
313.00 > 269.00	5.303	5.303	0.0	1.000	897768	0.9427	Target=10.06	94.3	2405	
313.00 > 118.90	5.303	5.303	0.0	1.000	90663		9.90(5.03-15.10)		571	
18 5:3 FTCA										
341.00 > 237.10	5.378	5.389	-0.011	1.014	568358	4.27	Target=0.78	85.4	1387	
341.00 > 217.00	5.378	5.389	-0.011	1.014	751060		0.76(0.39-1.17)		2064	
D 19 13C3 PFBS										
302.10 > 79.90	5.447	5.437	0.010	0.855	2022606	1.82		97.8	5665	
20 PFBS										
298.70 > 79.90	5.447	5.446	0.001	1.000	817939	0.8415	Target=3.14	94.8	5824	
298.70 > 98.80	5.447	5.446	0.001	1.000	261562		3.13(1.57-4.71)		2364	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.486	5.486	0.0	1.035	1395877	2.02		101	6190	
23 HFPO-DA										
284.90 > 168.90	5.486	5.486	0.0	1.000	588018	0.7865	Target=2.75	105	2723	
284.90 > 184.90	5.486	5.486	0.0	1.000	227408		2.59(1.37-4.12)		1215	
21 FBSA										
297.90 > 78.00	5.530	5.530	0.0	1.015	858955	1.00		99.6	1605	
26 PFEESA										
314.80 > 134.90	5.679	5.679	0.0	1.071	2161749	0.8207	Target=11.75	92.0	8567	
314.80 > 82.90	5.679	5.679	0.0	1.071	185392		11.66(5.88-17.63)		1040	
27 PFHpA										
363.10 > 319.00	5.722	5.722	0.0	1.000	875114	0.9559	Target=1.87	95.6	2057	
363.10 > 169.00	5.722	5.722	0.0	1.000	463975		1.89(0.94-2.81)		1331	
D 28 13C4 PFHpA										
367.10 > 322.00	5.722	5.732	-0.010	1.079	2180280	2.20		110	4717	
29 ADONA										
376.90 > 250.90	5.877	5.888	-0.011	1.071	2321408	0.9532	Target=2.13	101	4361	
376.90 > 84.80	5.877	5.888	-0.011	1.071	1036328		2.24(1.07-3.20)		3576	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.930	5.930	0.0	0.931	818815	4.68		98.4	2692	
30 PFPeS										
349.10 > 79.90	5.919	5.930	-0.011	0.929	1013514	0.8740	Target=3.24	93.0	4576	
349.10 > 98.90	5.930	5.930	0.0	0.931	319393		3.17(1.62-4.86)		2456	
31 6:2FTS										
427.10 > 407.00	5.930	5.930	0.0	1.000	577020	1.79	Target=1.63	94.1	2530	
427.10 > 80.90	5.930	5.930	0.0	1.000	351446		1.64(0.82-2.45)		859	
33 BTS										
280.00 > 147.00	6.093	6.093	0.0	0.957	1840274	0.8437		86.2	5528	
* 34 13C4 PFOA										
417.10 > 372.00	6.133	6.143	-0.010		6527472	5.00			4598	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.133	6.143	-0.010	1.000	2799224	2.10		105	3858	
36 PFOA										
413.00 > 369.00	6.133	6.143	-0.010	1.000	842832	0.9713	Target=1.91	97.1	891	
413.00 > 169.00	6.133	6.143	-0.010	1.000	449585		1.87(0.96-2.87)		580	
37 7:3 FTCA										
441.00 > 316.90	6.224	6.234	-0.010	1.174	272189	4.27	Target=0.31	85.4	1021	
441.00 > 336.90	6.224	6.234	-0.010	1.174	969384		0.28(0.16-0.47)		1886	
40 PFHxS										
398.70 > 79.90	6.369	6.369	0.0	1.000	652477	0.8424	Target=3.07	92.4	1320	
398.70 > 98.90	6.369	6.369	0.0	1.000	213240		3.06(1.53-4.60)		358	
* 39 18O2 PFHxS										
403.00 > 83.90	6.369	6.379	-0.010		1652834	1.90			2693	
D 38 13C3 PFHxS										
402.10 > 79.90	6.369	6.379	-0.010	1.000	1900404	2.02		107	3471	
D 41 13C9 PFNA										
472.10 > 427.00	6.550	6.549	0.001	1.000	2150688	2.01		100	6382	
* 42 13C5 PFNA										
468.00 > 423.00	6.550	6.560	-0.010		2070480	2.00			4556	
43 PFNA										
463.00 > 419.00	6.550	6.570	-0.020	1.000	887604	0.9503	Target=2.01	95.0	1222	
463.00 > 219.00	6.550	6.570	-0.020	1.000	433354		2.05(1.01-3.02)		485	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.728	6.737	-0.009	1.056	723540	4.01		83.5	2480	
45 8:2FTS										
527.10 > 507.00	6.728	6.737	-0.009	1.000	506831	1.93	Target=1.99	101	1882	
527.10 > 80.80	6.728	6.737	-0.009	1.000	249960		2.03(0.99-2.98)		928	
46 PFECHS										
461.00 > 381.00	6.766	6.774	-0.008	1.062	209741	0.9310	Target=0.18	101	69146	
461.00 > 99.00	6.766	6.774	-0.008	1.062	1125944		0.19(0.09-0.27)		4509	
47 PFHpS										
449.00 > 79.90	6.802	6.811	-0.009	0.942	1006236	0.99	Target=3.87	104	4735	
449.00 > 98.80	6.802	6.811	-0.009	0.942	260846		3.86(1.94-5.81)		2165	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.891	6.899	-0.008	0.954	1677437	4.50		90.1	1810	
50 NMeFOSAA										
570.10 > 419.00	6.900	6.909	-0.009	1.001	316546	0.9691	Target=1.74	96.9	79.7	
570.10 > 483.00	6.900	6.909	-0.009	1.001	199839		1.58(0.87-2.61)		519	
48 FHxSA										
397.90 > 78.00	6.950	6.959	-0.009	1.091	1185265	0.9070		90.7	2932	
53 PFDA										
512.90 > 469.00	6.960	6.970	-0.010	1.000	676341	0.8937	Target=3.37	89.4	1745	
512.90 > 219.00	6.960	6.970	-0.010	1.000	201305		3.36(1.69-5.06)		1015	
* 51 13C2 PFDA										
515.10 > 470.10	6.960	6.970	-0.010		2022640	2.00			4573	
D 52 13C6 PFDA										
519.10 > 474.10	6.960	6.970	-0.010	1.000	2059443	2.07		103	5302	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.081	7.090	-0.009	0.980	1536528	4.78		95.6	1988	
55 NEtFOSAA										
584.20 > 419.10	7.081	7.100	-0.019	1.000	269949	1.00	Target=1.30	100	562	
584.20 > 526.00	7.090	7.100	-0.010	1.001	207900		1.30(0.65-1.95)		364	
58 PFOS										
498.90 > 79.90	7.223	7.232	-0.009	1.000	990811	0.9051	Target=4.60	97.3	2731	
498.90 > 98.80	7.232	7.232	0.0	1.001	228371		4.34(2.30-6.91)		407	
* 57 13C4 PFOS										
502.80 > 79.90	7.223	7.241	-0.018		1383629	1.92			5993	
D 56 13C8 PFOS										
507.10 > 79.90	7.223	7.241	-0.018	1.000	1548702	1.93		101	7300	
D 59 13C7 PFUnA										
570.00 > 525.10	7.367	7.387	-0.020	1.059	2071933	2.09		104	4361	
60 PFUnA										
563.10 > 519.00	7.377	7.397	-0.020	1.001	762068	1.05	Target=4.93	105	2566	
563.10 > 269.10	7.377	7.397	-0.020	1.001	155412		4.90(2.47-7.40)		1736	
61 9ClFOS										
530.80 > 351.00	7.545	7.562	-0.017	1.045	2089505	0.9391	Target=3.12	101	8286	
532.80 > 353.00	7.545	7.562	-0.017	1.045	654615		3.19(1.56-4.68)		3135	
62 PFNS										
548.80 > 79.90	7.639	7.664	-0.025	1.058	703448	1.02	Target=3.51	106	4271	
548.80 > 98.80	7.639	7.664	-0.025	1.058	189438		3.71(1.75-5.26)		1291	
63 PFDoA										
613.10 > 569.00	7.791	7.791	0.0		929218	0.9684	Target=5.93	96.8	2664	
613.10 > 319.00	7.784	7.791	-0.007		160764		5.78(2.96-8.89)		1165	
D 81 PFDoA										
615.10 > 570.00	7.784	7.806	-0.022	1.118	2055466	2.15		108	3230	
64 PFOSA										
498.10 > 77.90	8.027	8.027	0.0	1.000	928484	1.02	Target=41.04	102	1985	
498.10 > 478.00	8.027	8.027	0.0	1.000	25785		36.01(20.52-61.57)		58.8	
D 65 13C8 FOSA										
506.10 > 77.80	8.027	8.035	-0.008	1.111	1648641	1.99		99.4	5408	
66 PFDS										
599.00 > 79.90	8.052	8.068	-0.016	1.115	863231	0.9370	Target=3.81	97.2	4125	
599.00 > 98.80	8.052	8.068	-0.016	1.115	238906		3.61(1.91-5.72)		1653	
67 PFTrDA										
663.00 > 619.00	8.200	8.221	-0.021	0.955	885197	1.00	Target=6.20	100	3680	
663.00 > 168.90	8.189	8.221	-0.032	0.953	130355		6.79(3.10-9.31)		1143	
68 11ClFOS										
630.90 > 450.90	8.367	8.388	-0.021	1.158	1400698	0.9136	Target=3.04	96.8	5739	
632.90 > 452.90	8.367	8.388	-0.021	1.158	457031		3.06(1.52-4.56)		5007	
69 PFTeDA										
713.10 > 168.90	8.590	8.611	-0.021	1.000	95519	0.9513	Target=1.02	95.1	1046	
713.10 > 219.00	8.590	8.611	-0.021	1.000	104865		0.91(0.51-1.53)		618	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.590	8.611	-0.021	1.234	1791000	2.08		104	3260	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.801	8.815	-0.014	1.218	860630	0.9501	Target=4.04	98.0	3159	
699.10 > 98.80	8.801	8.815	-0.014	1.218	209144		4.12(2.02-6.05)		1977	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.890	8.889	0.001	1.231	334545	5.03		101	809	
73 N-MeFOSE-M										
616.10 > 58.90	8.904	8.904	0.0	1.002	886361	5.17		103	1797	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.003	9.002	0.001	1.246	529448	2.01		101	2369	
74 NMeFOSA										
511.90 > 219.00	9.003	9.017	-0.014	1.000	251720	1.00	Target=0.72	100	1381	
511.90 > 169.00	9.003	9.017	-0.014	1.000	342271		0.74(0.36-1.08)		1040	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.112	9.125	-0.013	1.262	359119	5.00		100	653	
77 N-EtFOSE-M										
630.00 > 58.90	9.139	9.152	-0.013	1.003	1281452	5.40		108	2646	
79 N-EtFOSA-M										
526.00 > 219.00	9.216	9.215	0.001	1.001	287289	0.9692	Target=0.87	96.9	1812	
526.00 > 169.00	9.216	9.215	0.001	1.001	319125		0.90(0.44-1.31)		1232	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.203	9.215	-0.012	1.274	681838	2.02		101	2415	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.500	9.542	-0.042	1.106	889351	1.08	Target=17.02	108	12559	
913.00 > 169.00	9.500	9.542	-0.042	1.106	54106		16.44(8.51-25.52)		3484	

QC Flag Legend

Processing Flags

Reagents:

1633_125_CAL4_00083 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 22:57:03 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-41.d

Injection Date: 05-Feb-2026 22:20:47 Instrument ID: 30577

Lims ID: CCV 6_CAL4

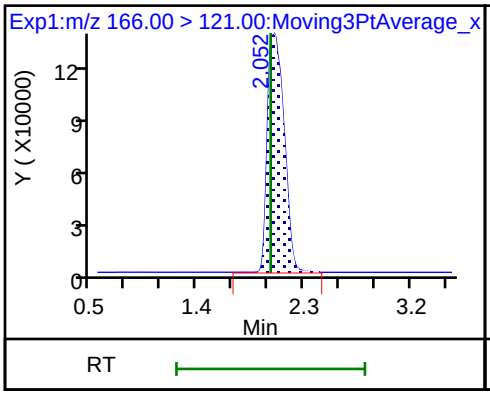
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Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 5 Worklist Smp#: 151

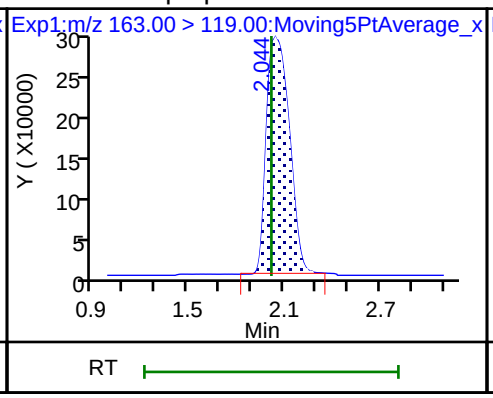
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Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

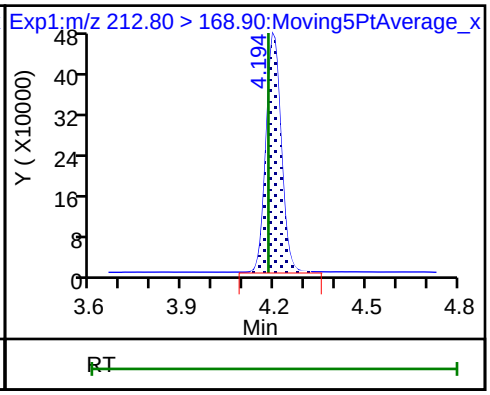
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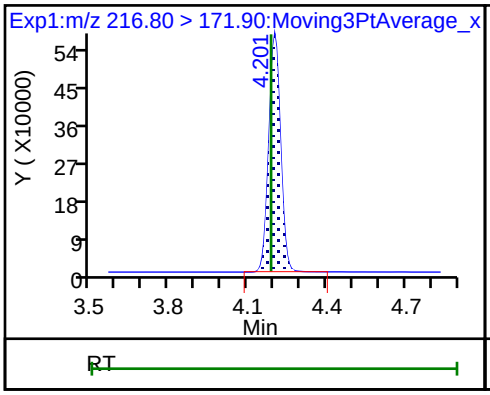
2 Perfluoropropionic acid



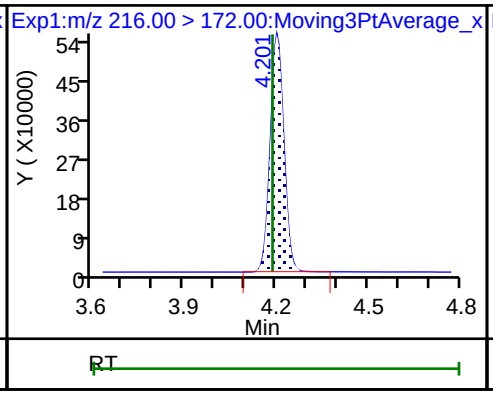
3 PFBA



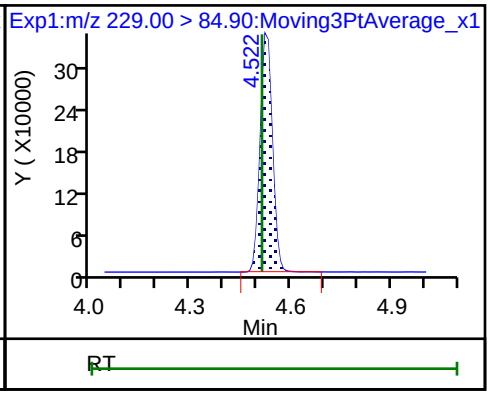
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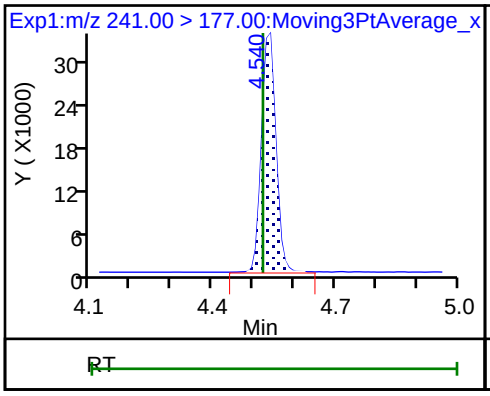
* 5 13C3PFBA



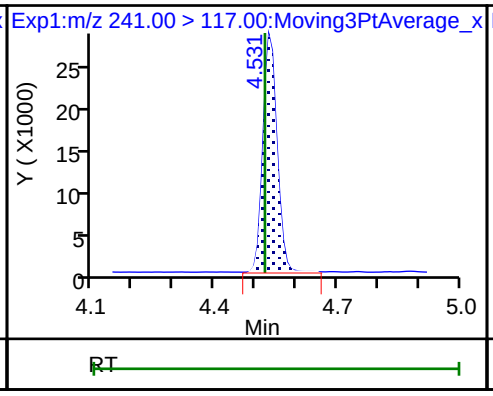
6 PFMPA



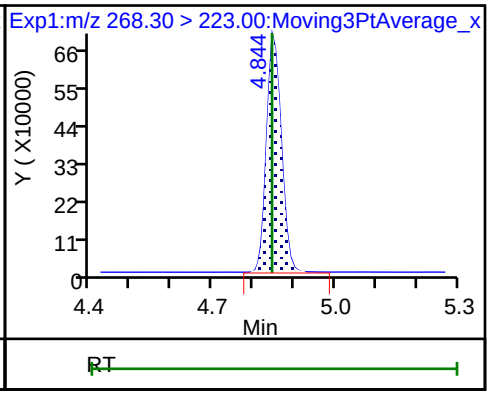
7 3:3 FTCA



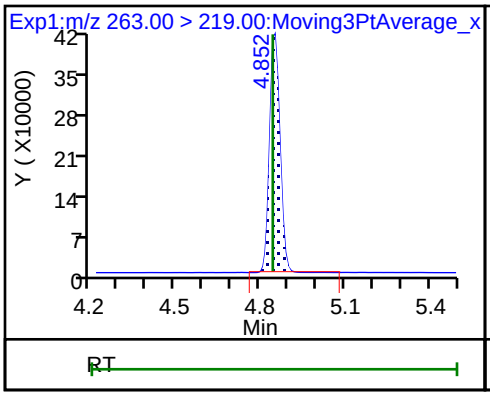
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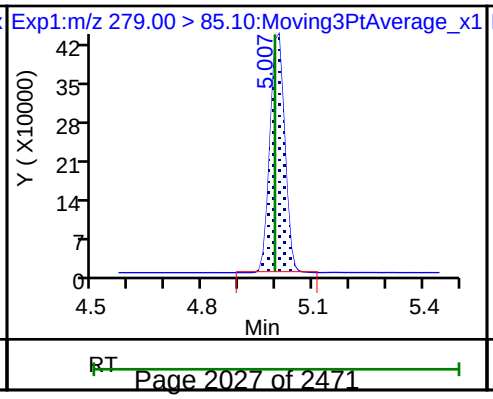
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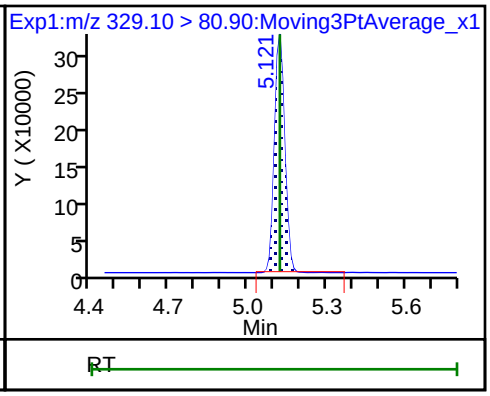
9 PFPA



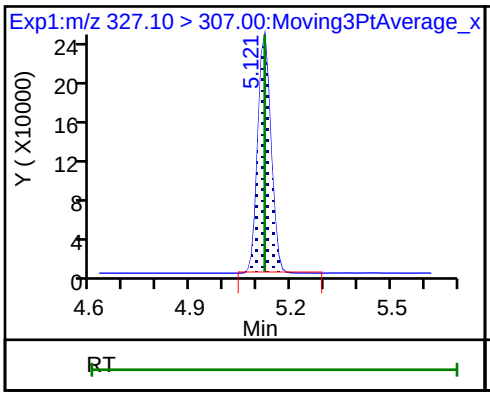
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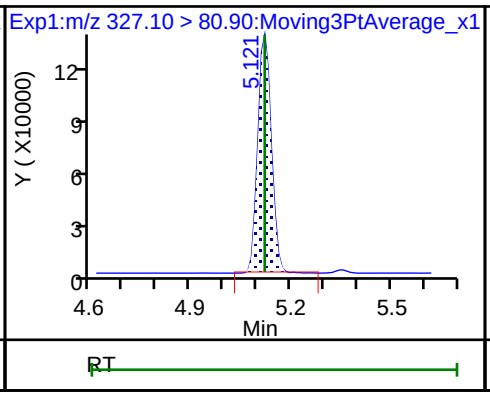
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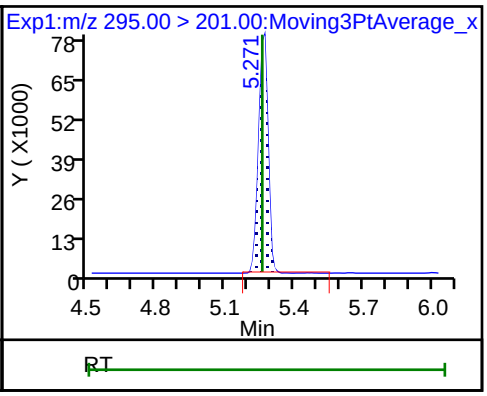
12 4:2FTS



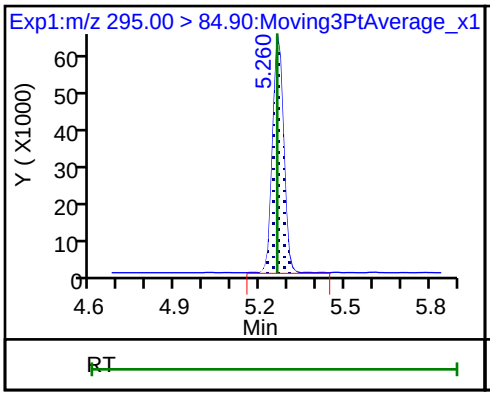
12 4:2FTS



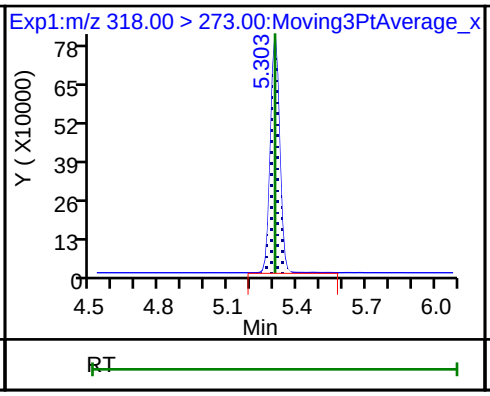
14 NFDHA



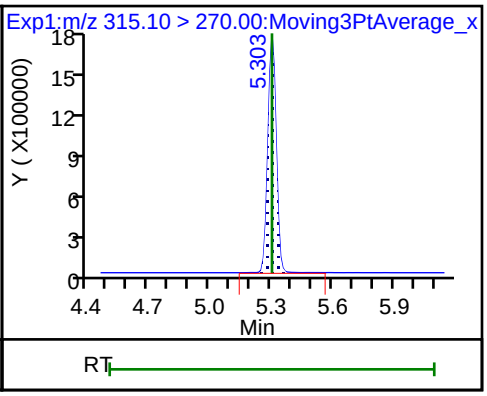
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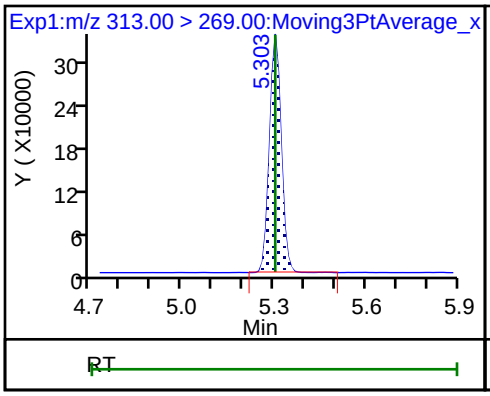
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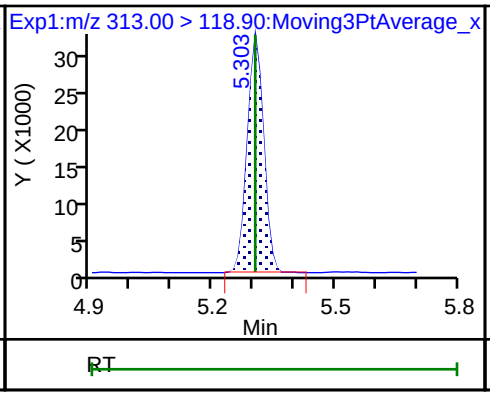
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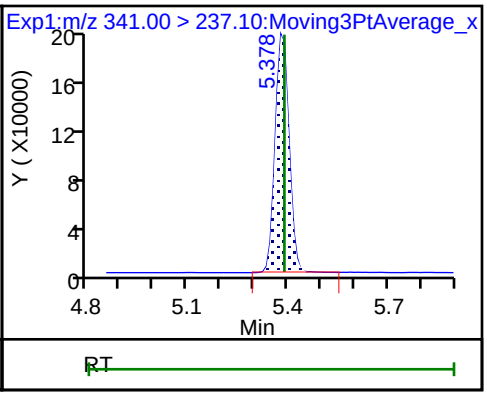
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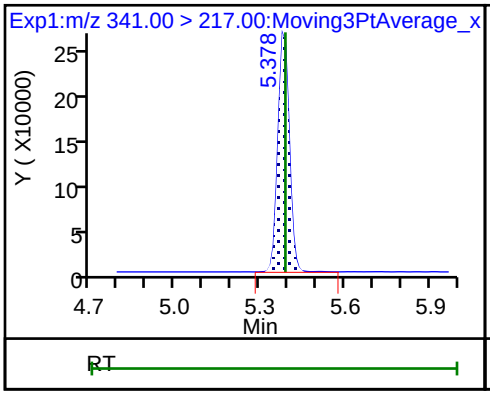
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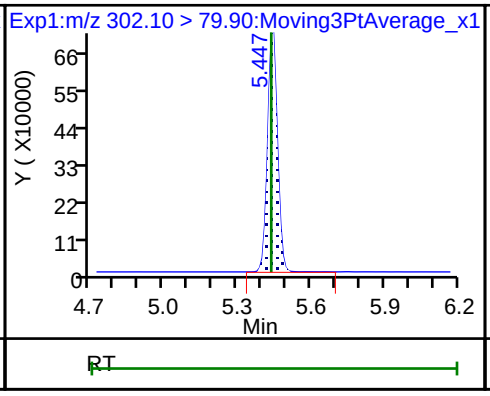
18 5:3 FTCA



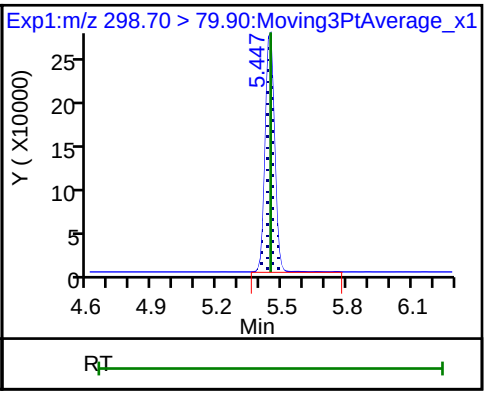
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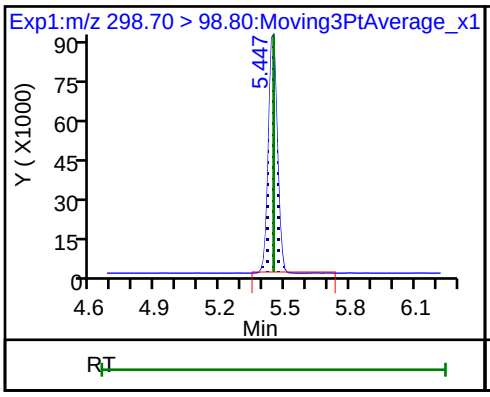
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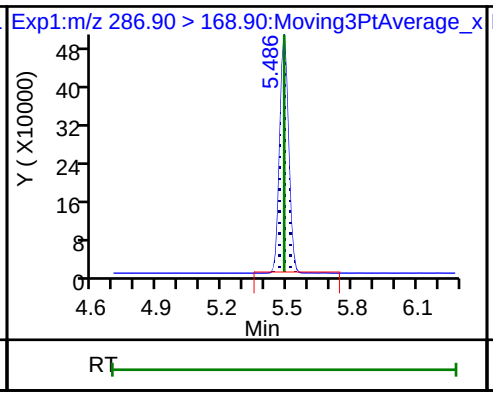
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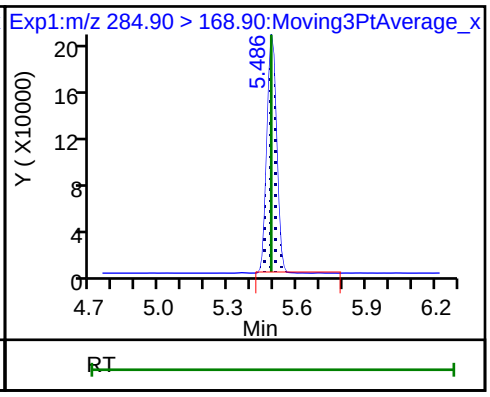
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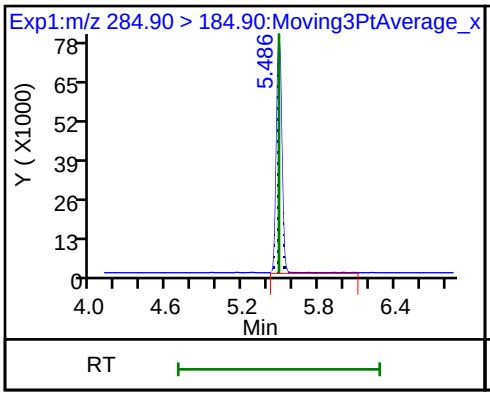
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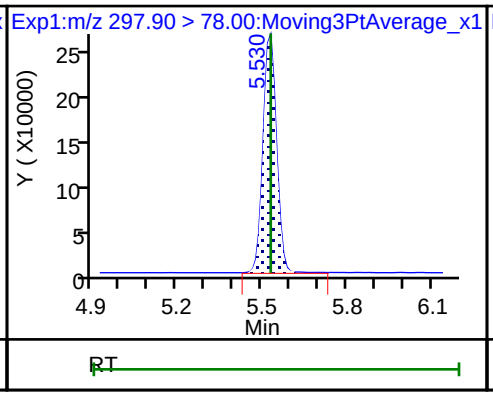
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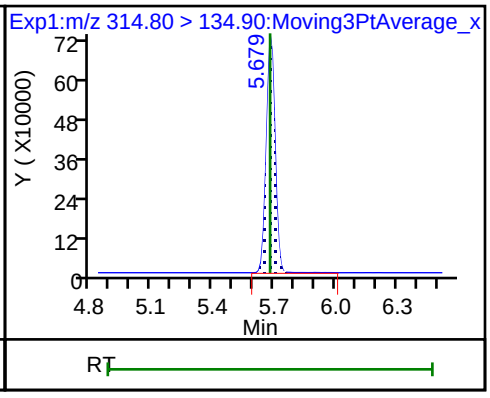
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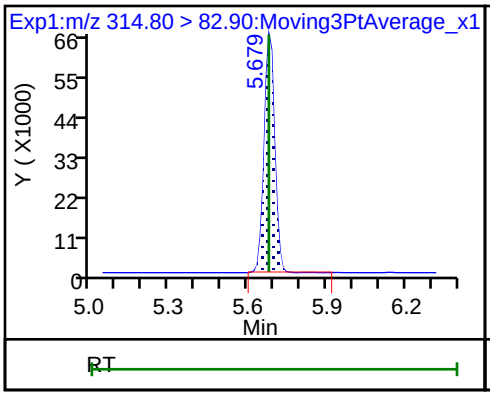
21 FBSA



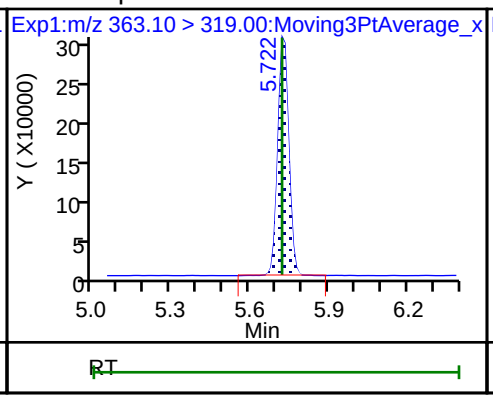
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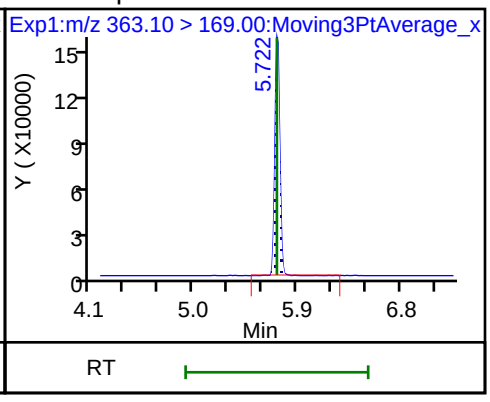
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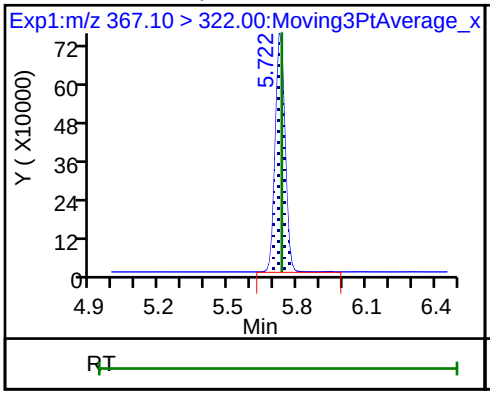
27 PFHpA



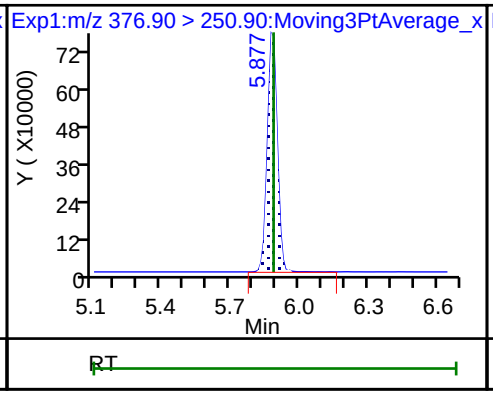
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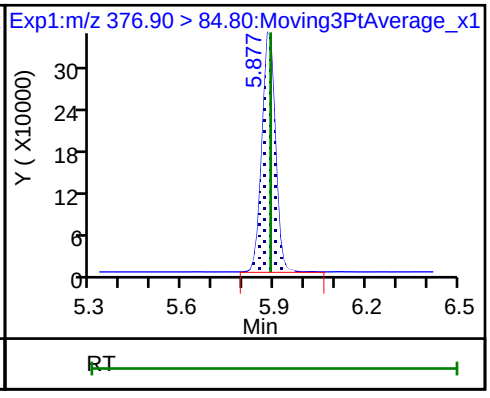
D 28 13C4 PFHpA



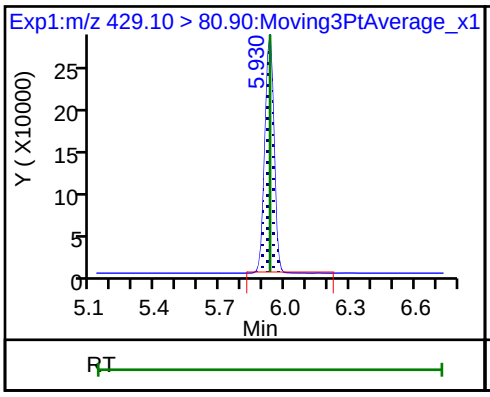
29 ADONA



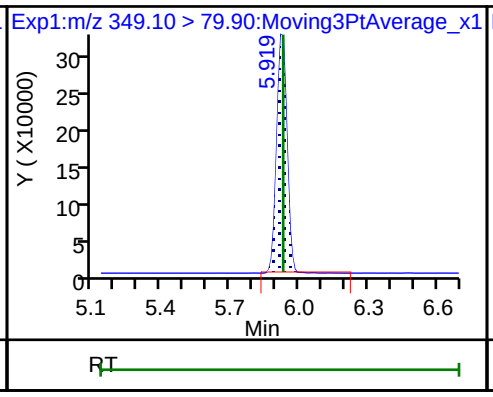
29 ADONA



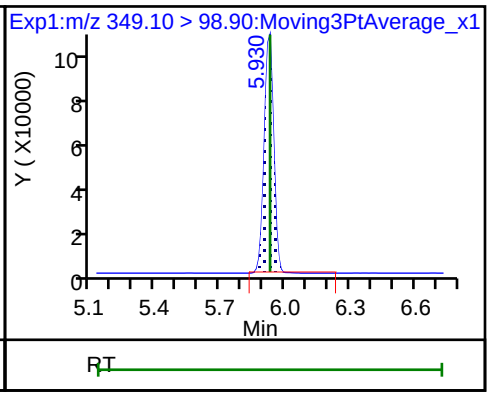
D 32 13C2-6:2FTS



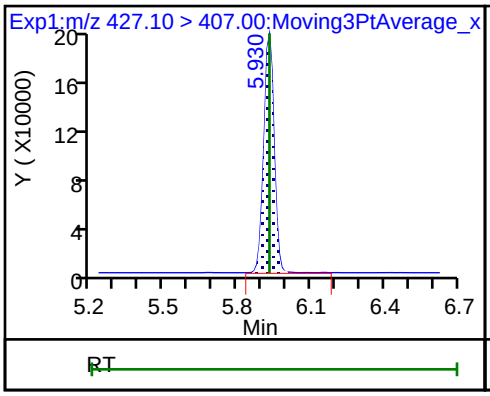
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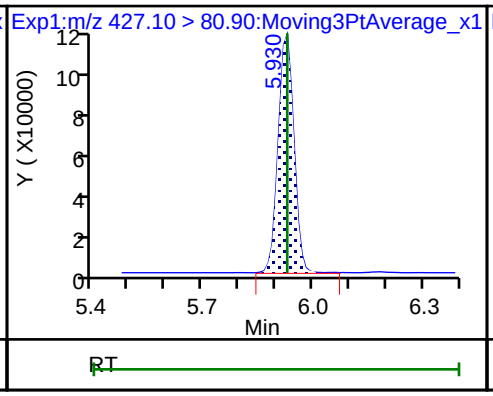
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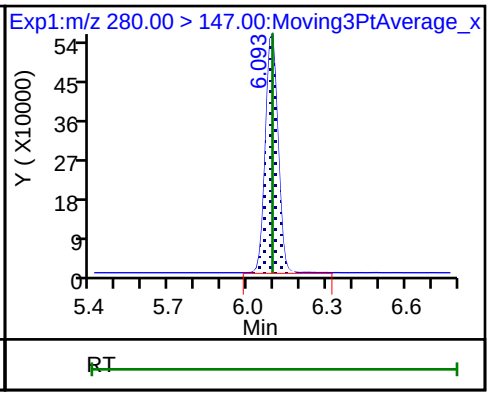
31 6:2FTS



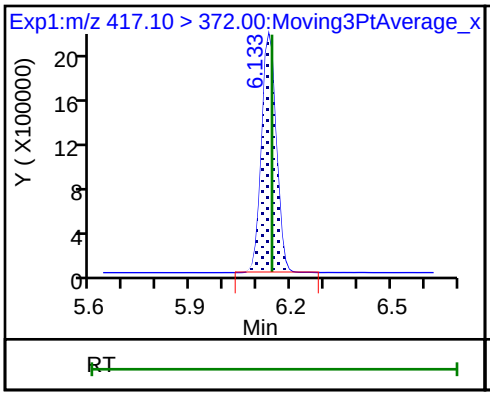
31 6:2FTS



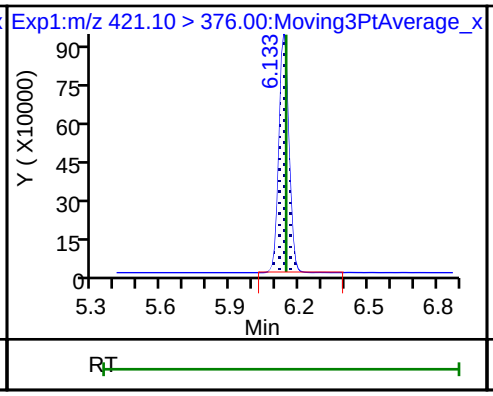
33 BTS



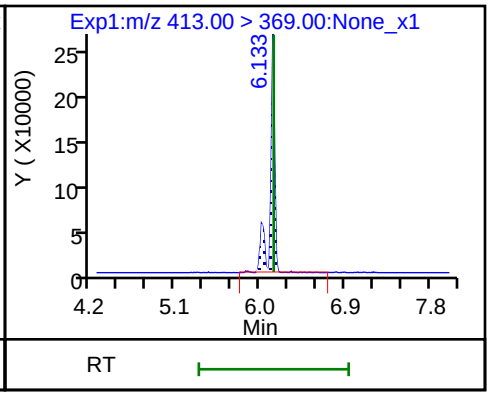
* 34 13C4 PFOA



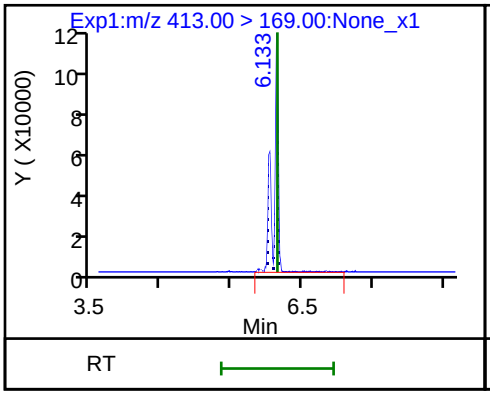
D 35 13C8 PFOA



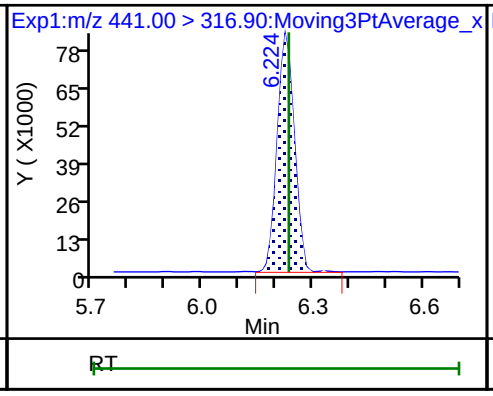
36 PFOA



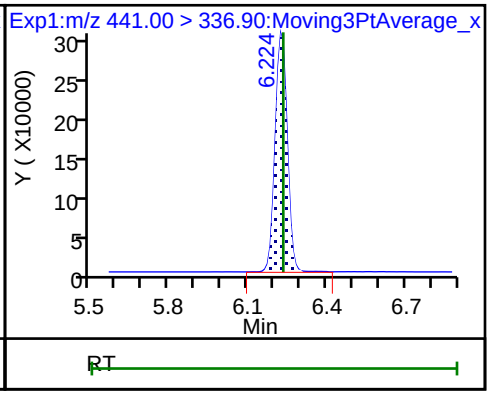
36 PFOA



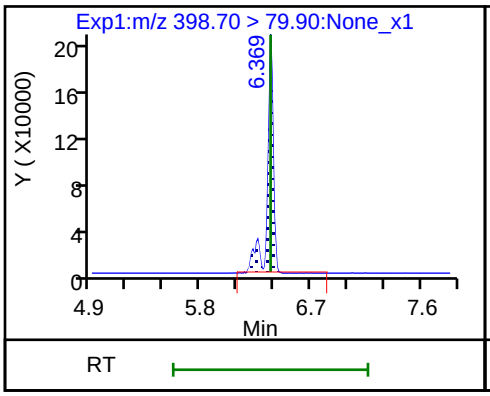
37 7:3 FTCA



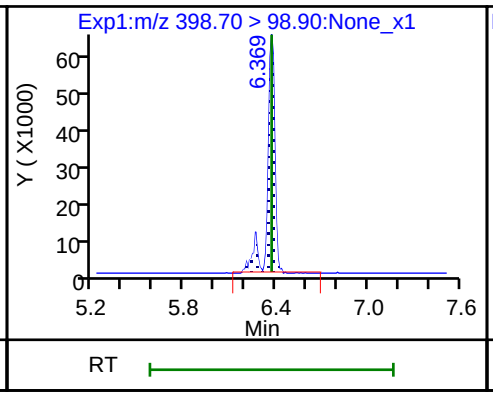
37 7:3 FTCA



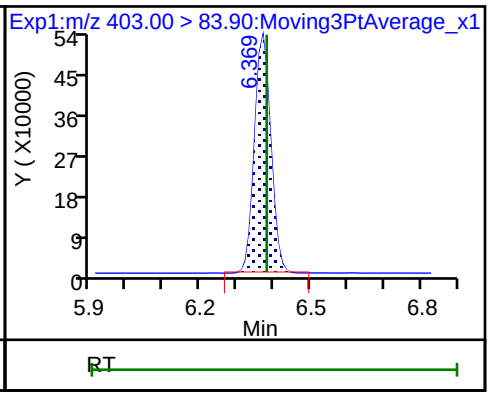
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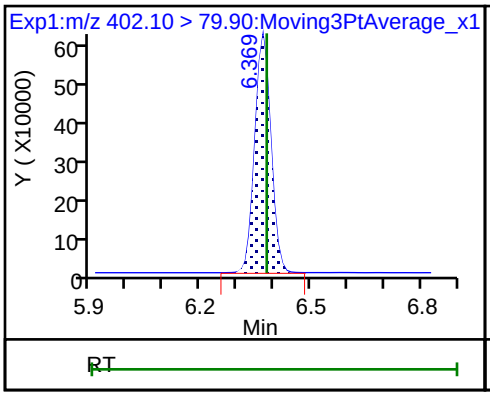
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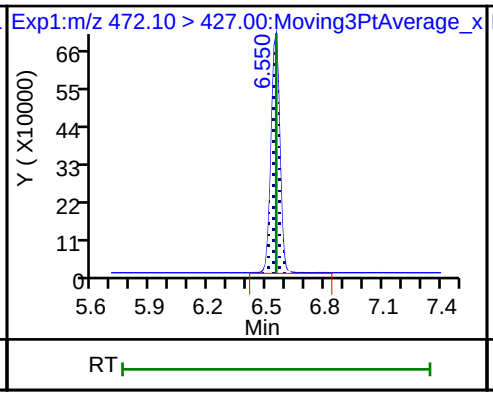
* 39 18O2 PFHxS



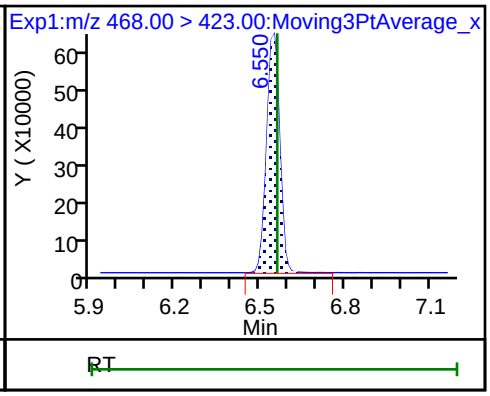
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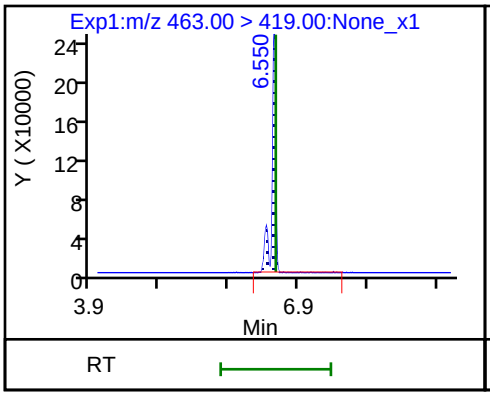
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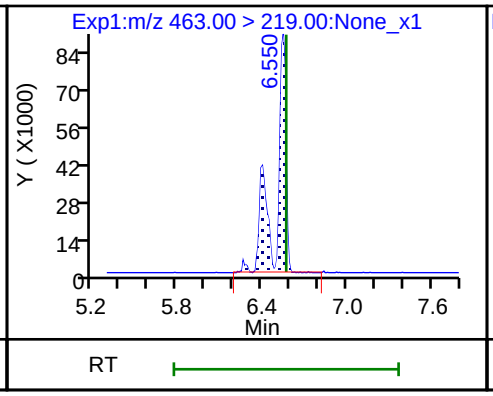
* 42 13C5 PFNA



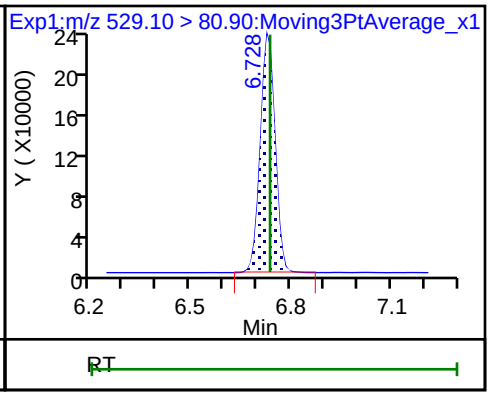
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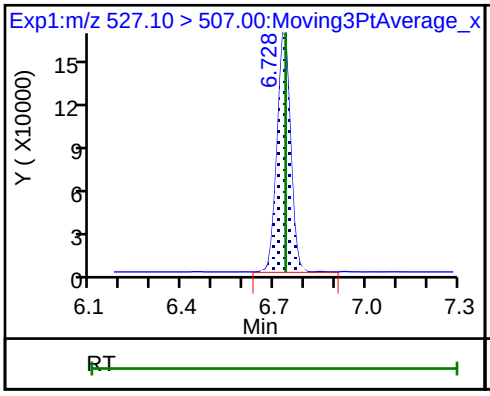
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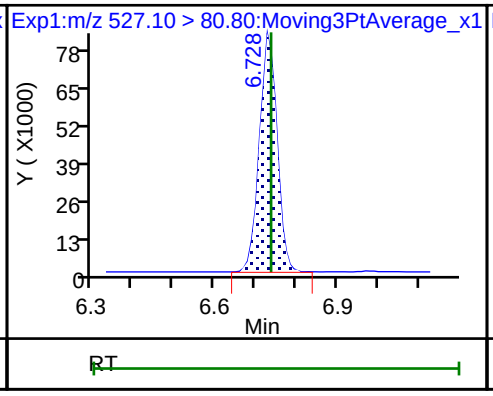
D 44 13C2-8:2FTS



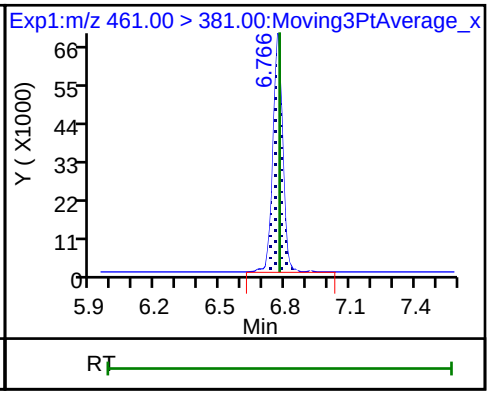
45 8:2FTS



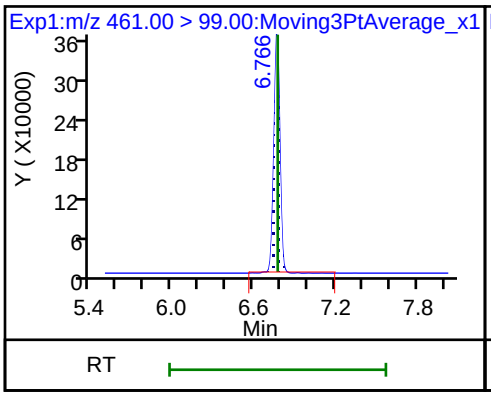
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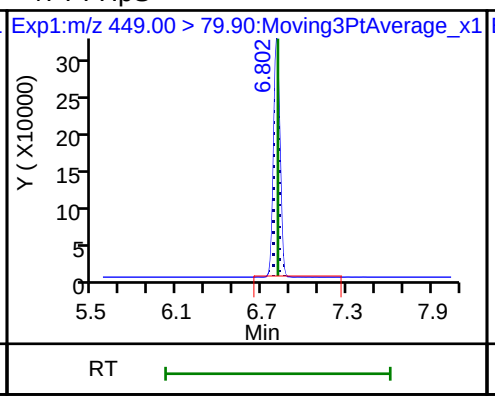
46 PFECHS



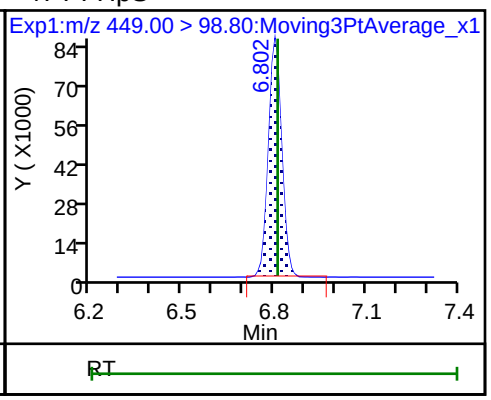
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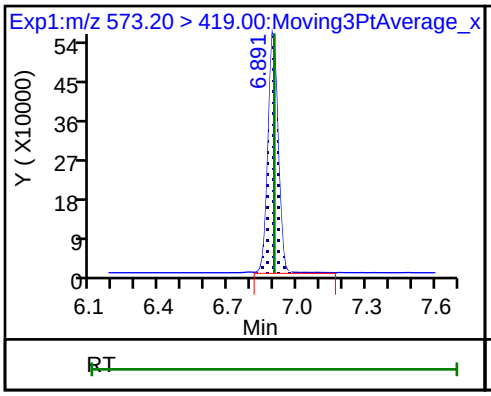
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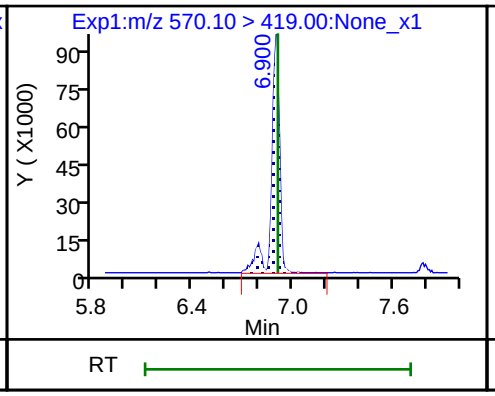
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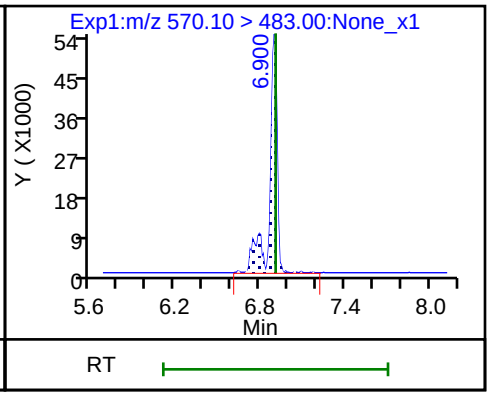
D 49 d3-NMeFOSAA



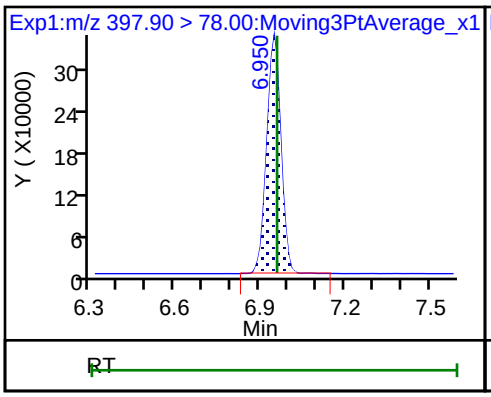
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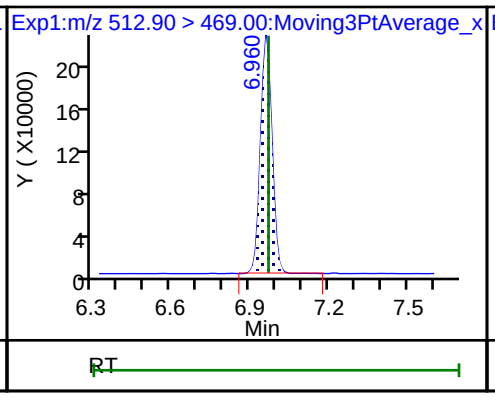
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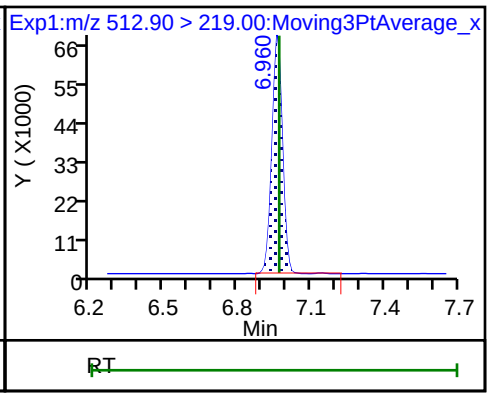
48 FHxSA



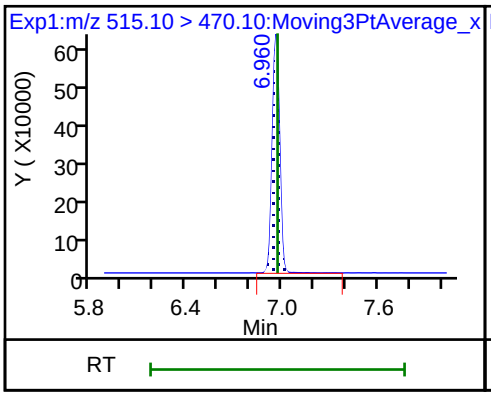
53 PFDA



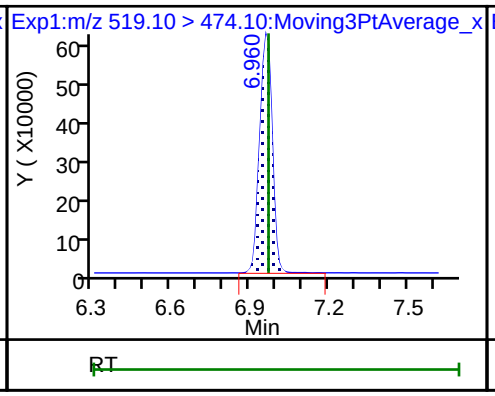
53 PFDA



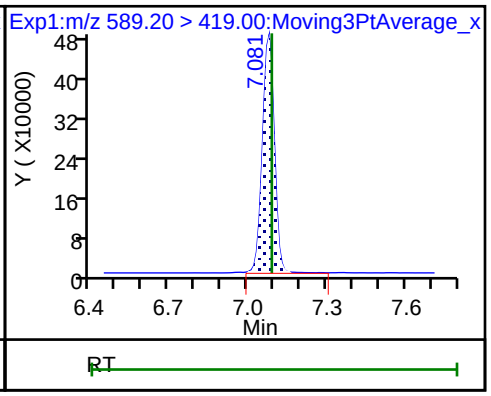
* 51 13C2 PFDA



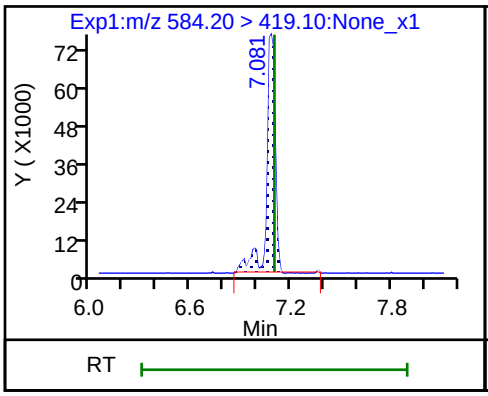
D 52 13C6 PFDA



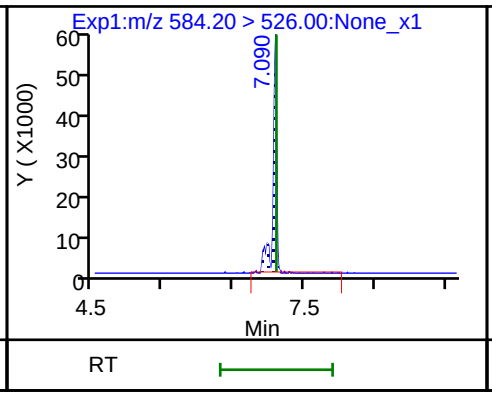
D 54 d5-NEtFOSAA



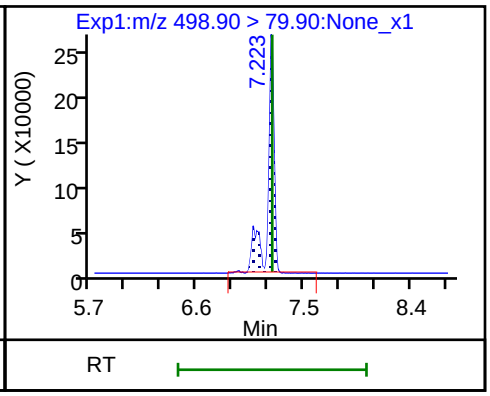
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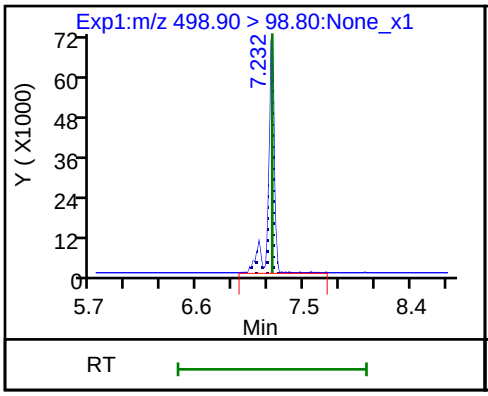
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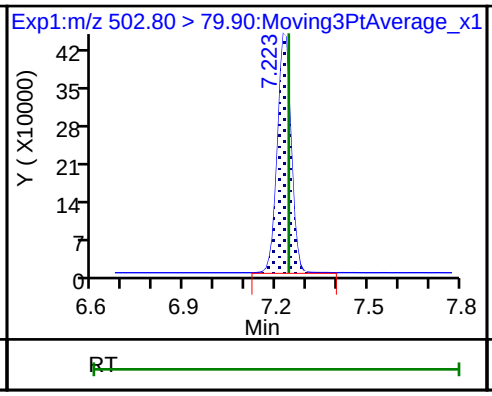
58 PFOS



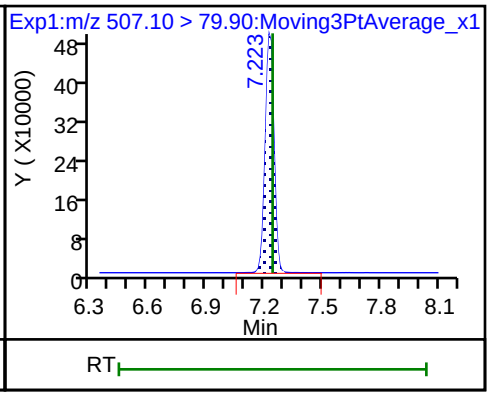
58 PFOS



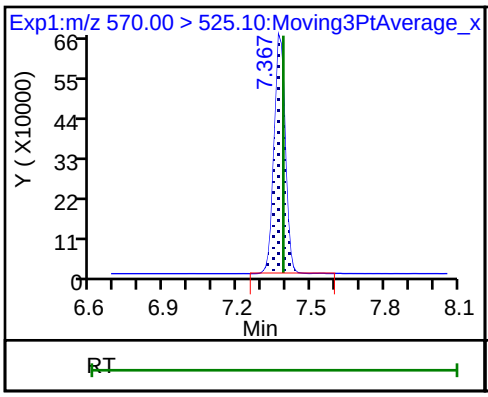
* 57 13C4 PFOS



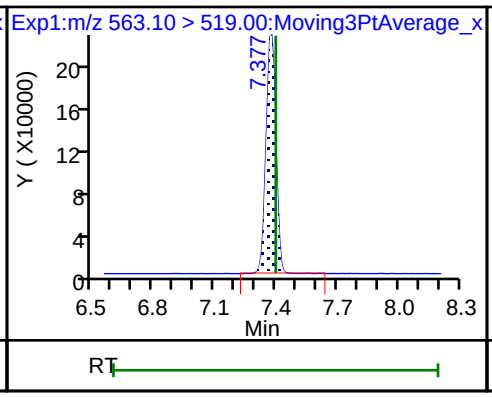
D 56 13C8 PFOS



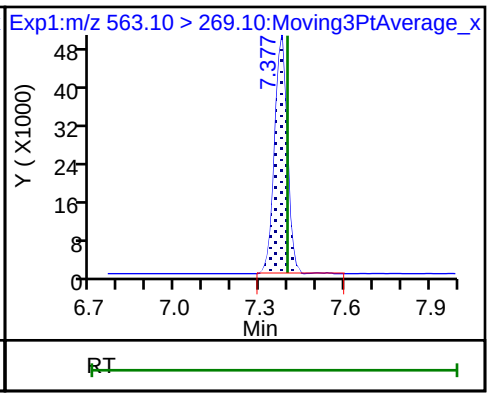
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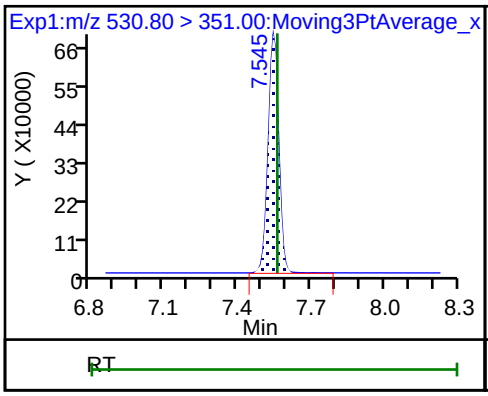
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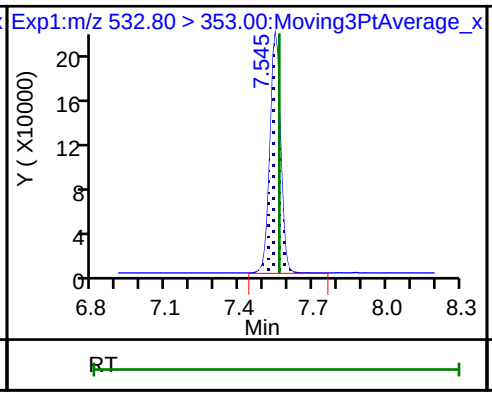
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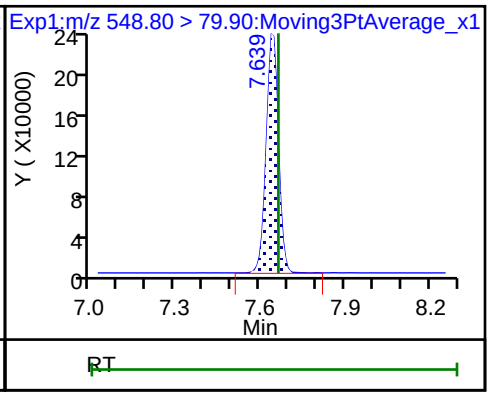
61 9ClFOS



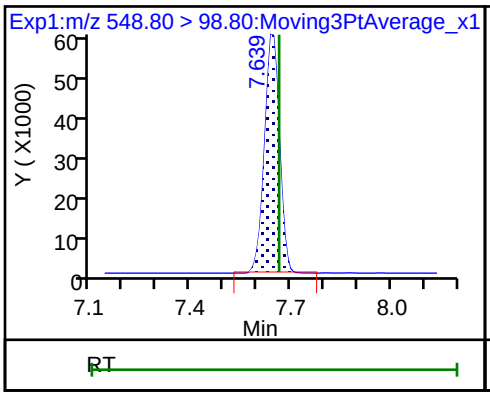
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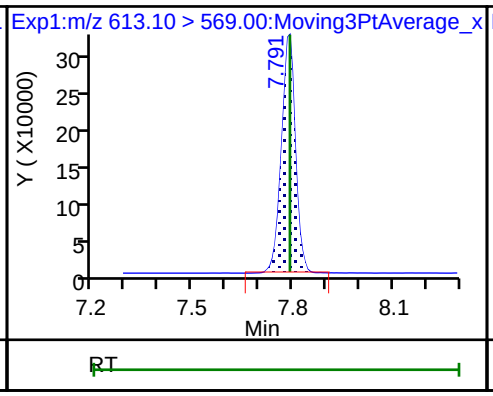
62 PFNS



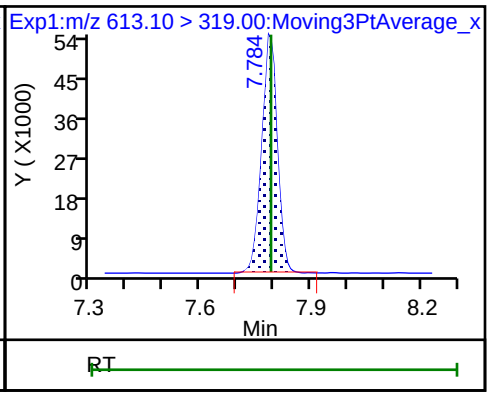
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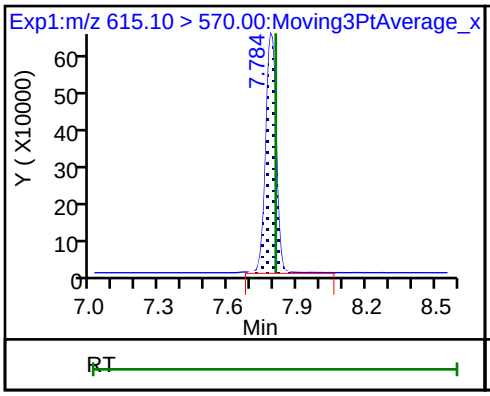
63 PFDoA



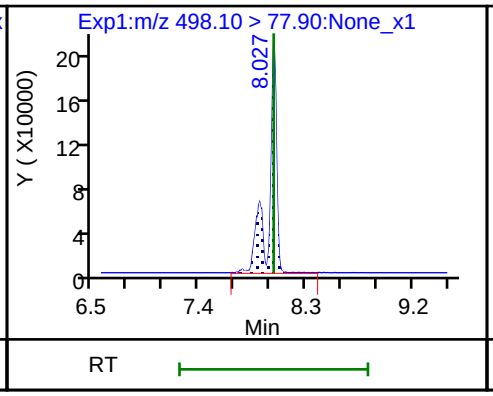
63 PFDoA



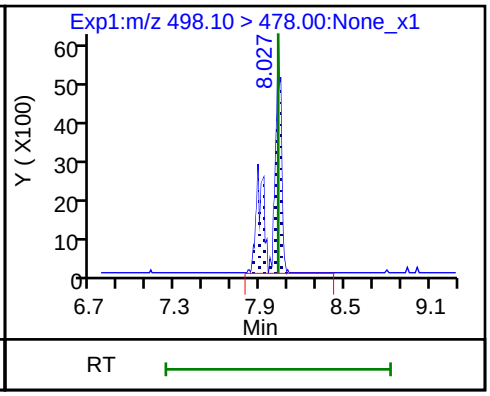
D 81 PFDoA



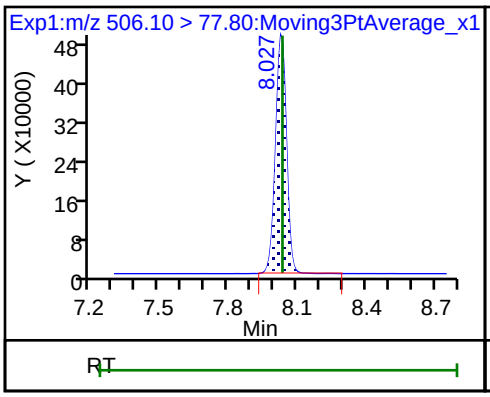
64 PFOSA



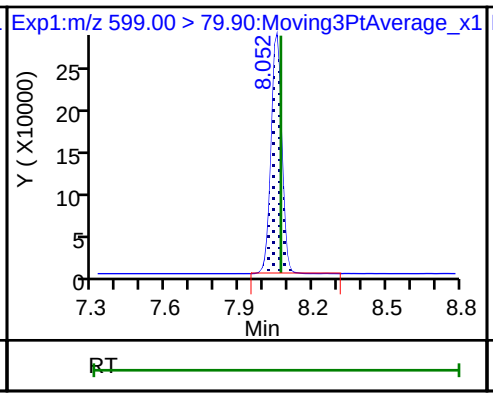
64 PFOSA



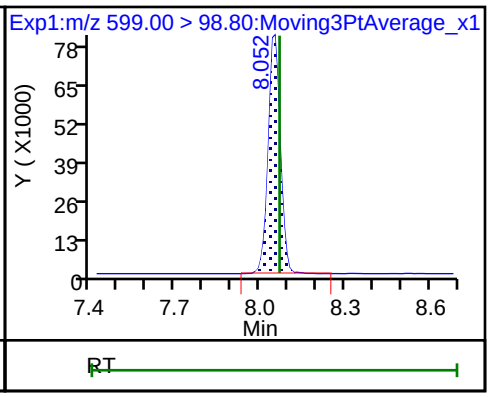
D 65 13C8 FOSA



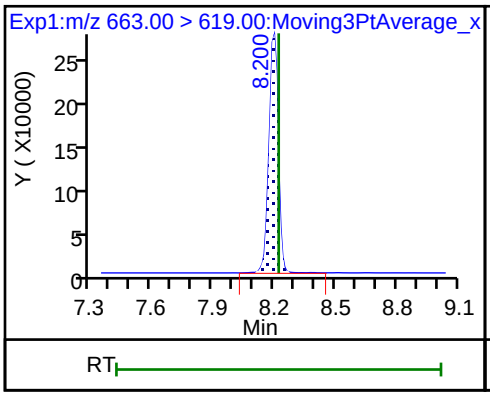
66 PFDS



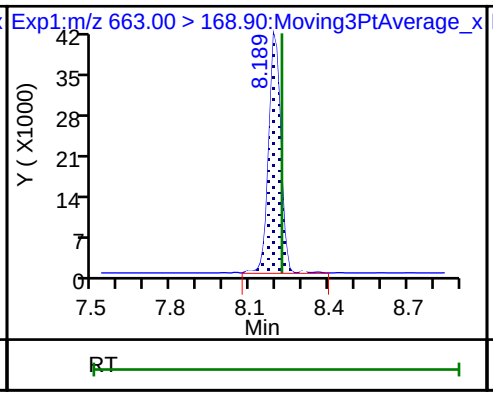
66 PFDS



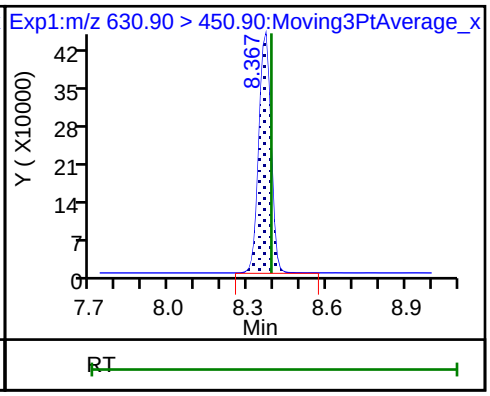
67 PFTrDA



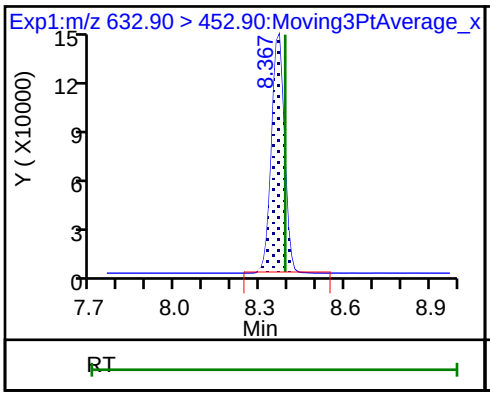
67 PFTrDA



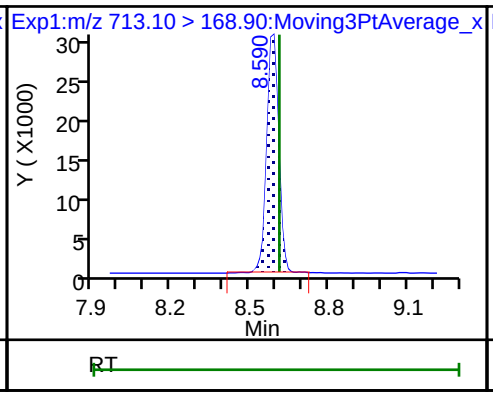
68 11ClFOS



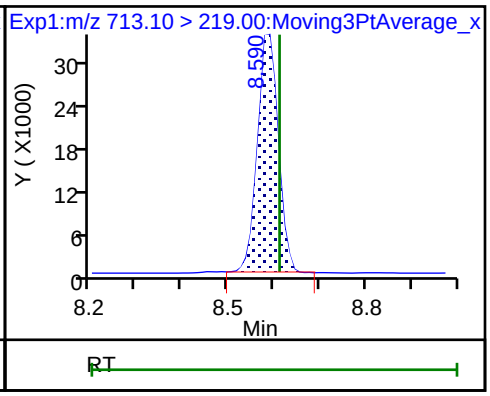
68 11ClFOS



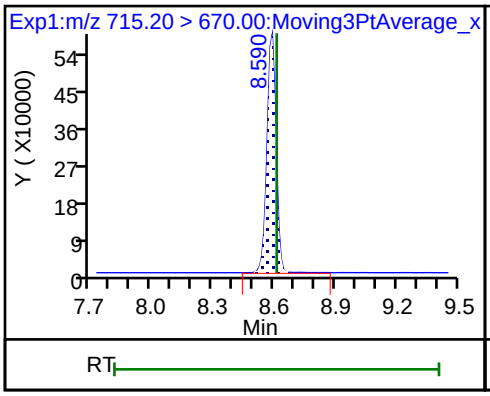
69 PFTeDA



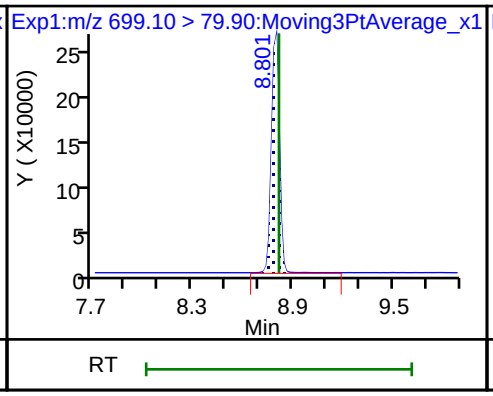
69 PFTeDA



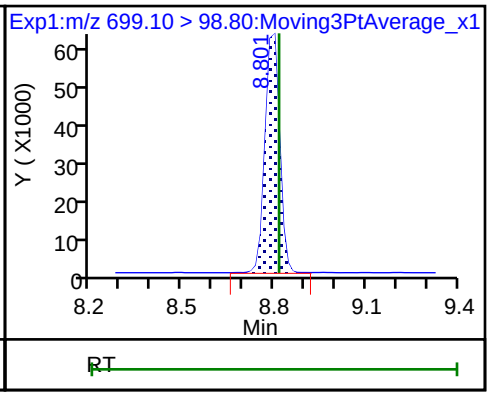
D 70 13C2 PFTeDA



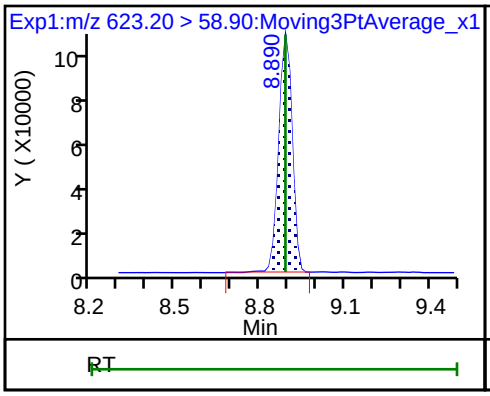
71 PFDoS



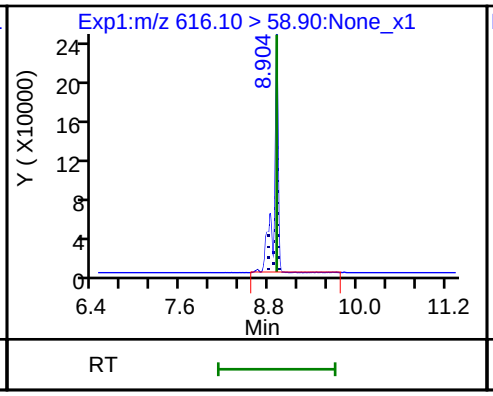
71 PFDoS



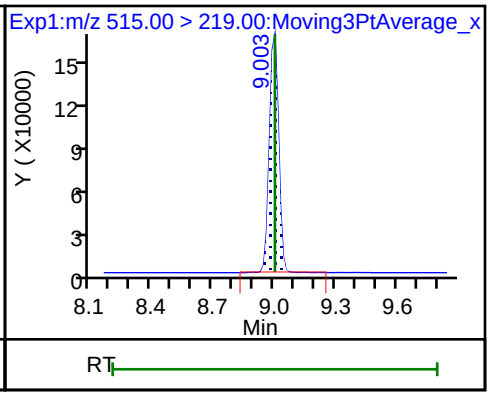
D 72 d7-N-Me-FOSE



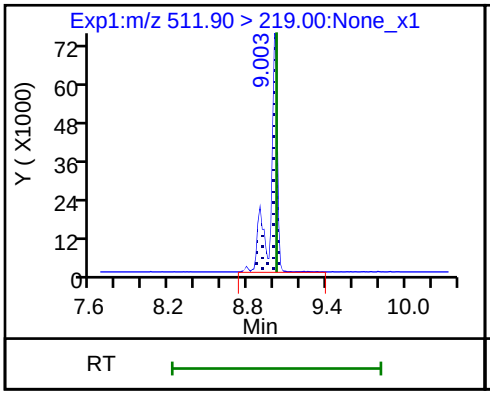
73 N-MeFOSE-M



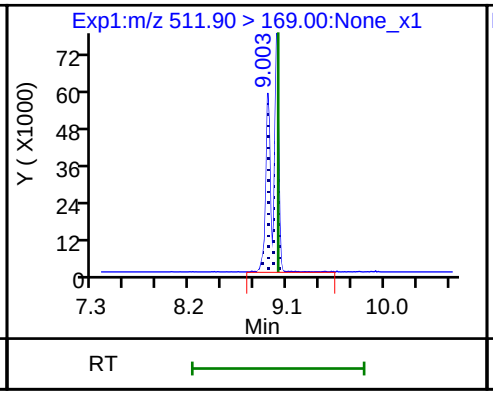
D 75 d3-NMePFOSA



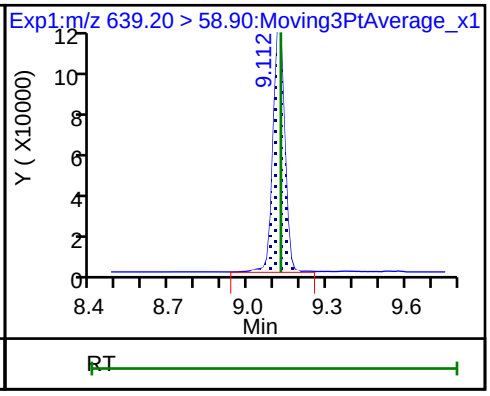
74 NMeFOSA



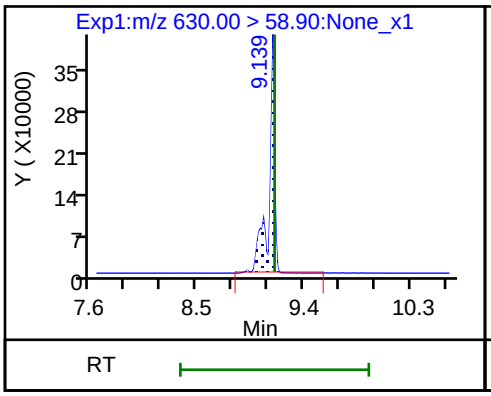
74 NMeFOSA



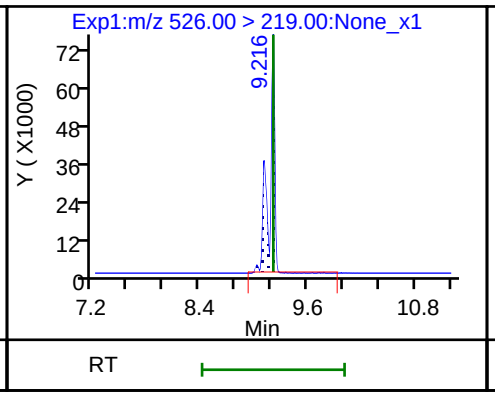
D 76 d9-N-EtFOSE



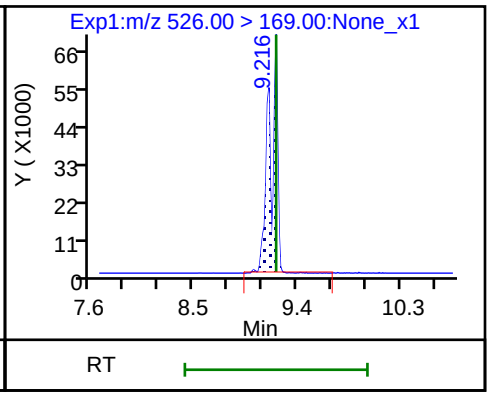
77 N-EtFOSE-M



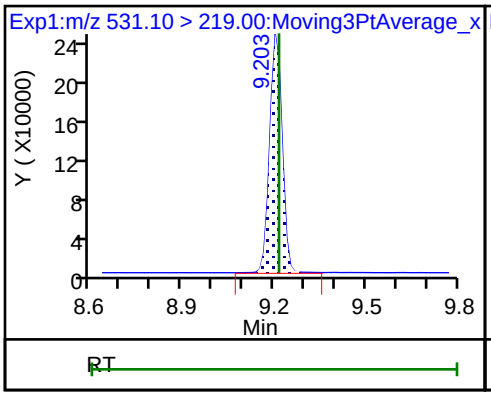
79 N-EtFOSA-M



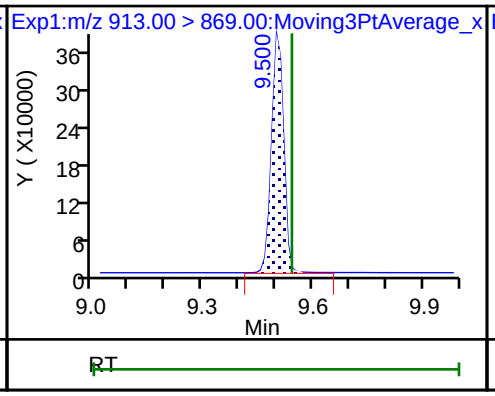
79 N-EtFOSA-M



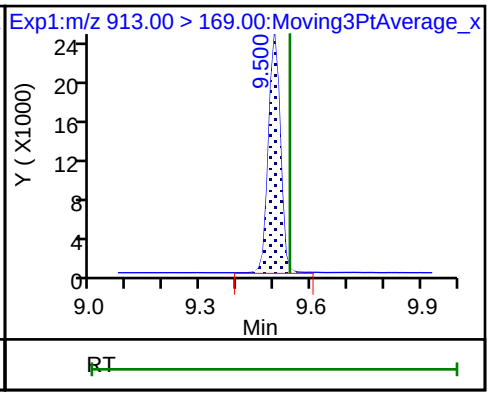
D 78 d5-NEtPFOSA



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-63.d
Lims ID: WDM
Client ID:
Sample Type: WDM
Inject. Date: 02-Feb-2026 17:20:58 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: WDM
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:58:39 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: LDU5 Date: 02-Feb-2026 17:52:28
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
3 TUDCA										
498.20 > 80.00	5.249	5.249	0.0	1.000	439174	439174			41.3	
4 TCDCA										
498.10 > 80.00	5.680	5.680	0.0	1.000	302891	302891			20.2	
8 TDCA										
498.00 > 80.00	5.789	5.789	0.0	1.000	315033	315033			22.4	

QC Flag Legend

Processing Flags

Reagents:

1633_125_WDM_00018 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 17:58:39 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-63.d

Injection Date: 02-Feb-2026 17:20:58 Instrument ID: 30575

Lims ID: WDM

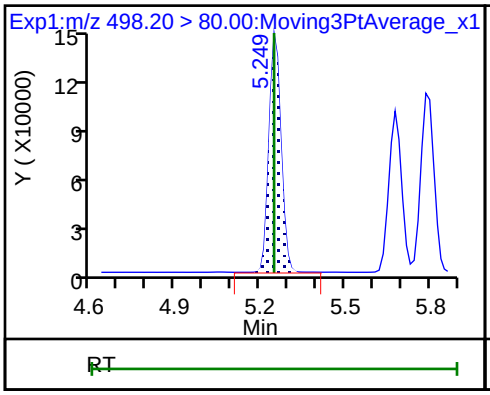
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 11 Worklist Smp#: 11

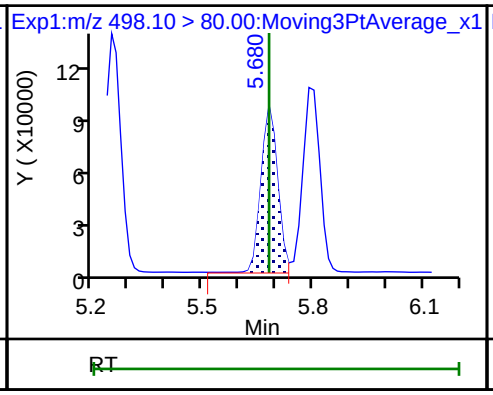
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

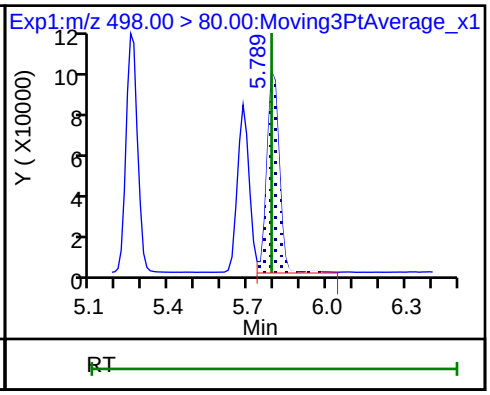
3 TUDCA

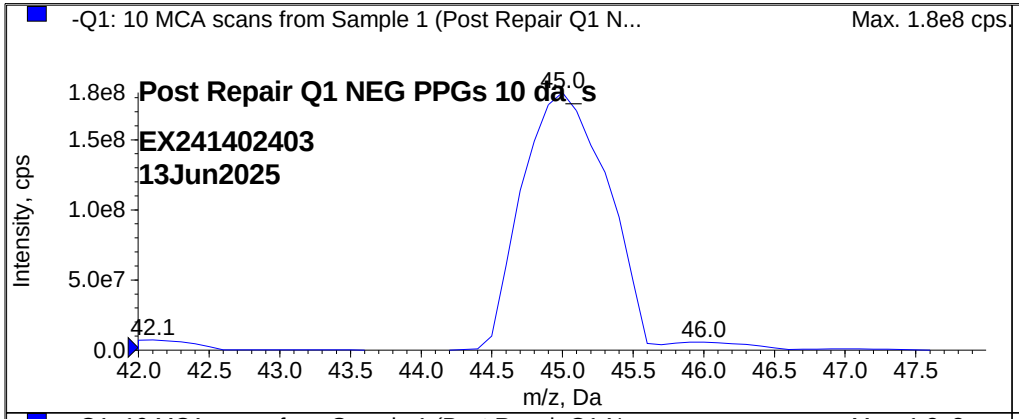


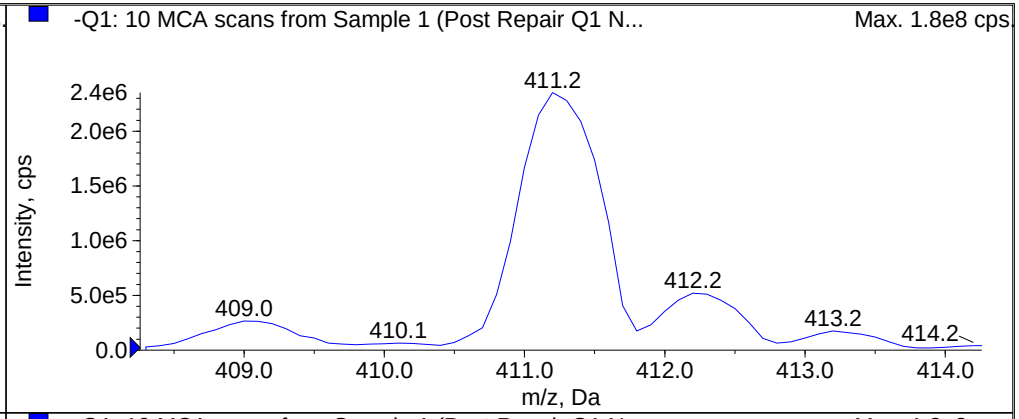
4 TCDCA

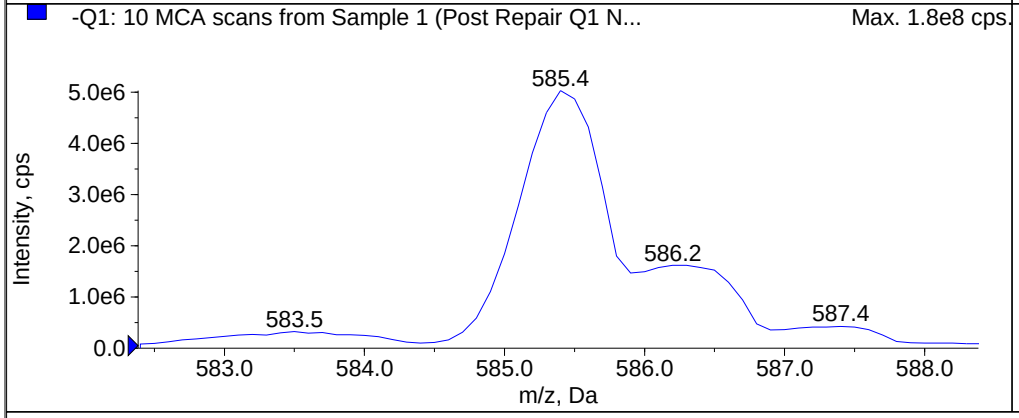


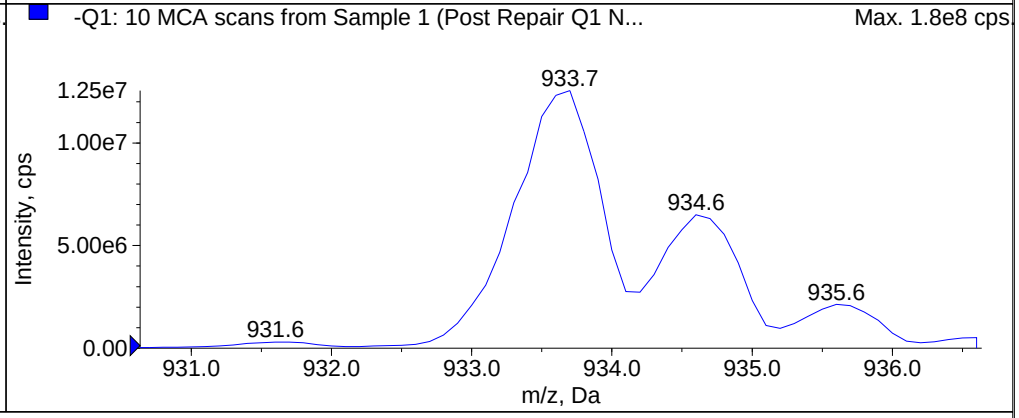
8 TDCA





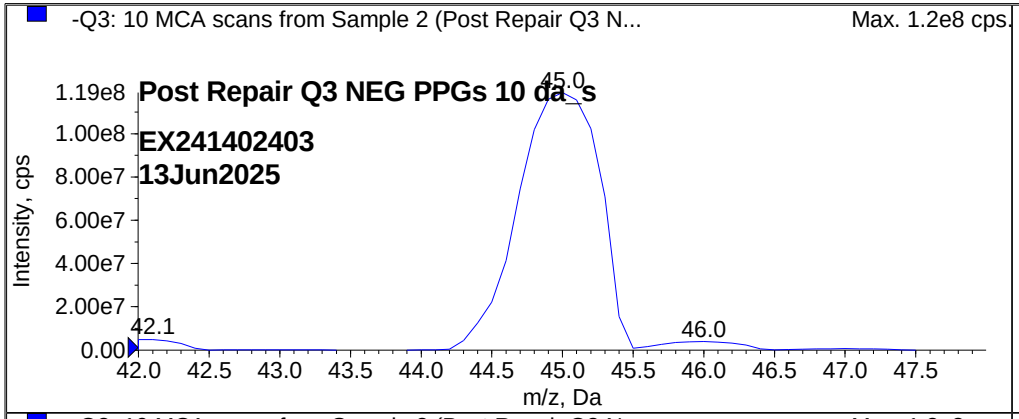


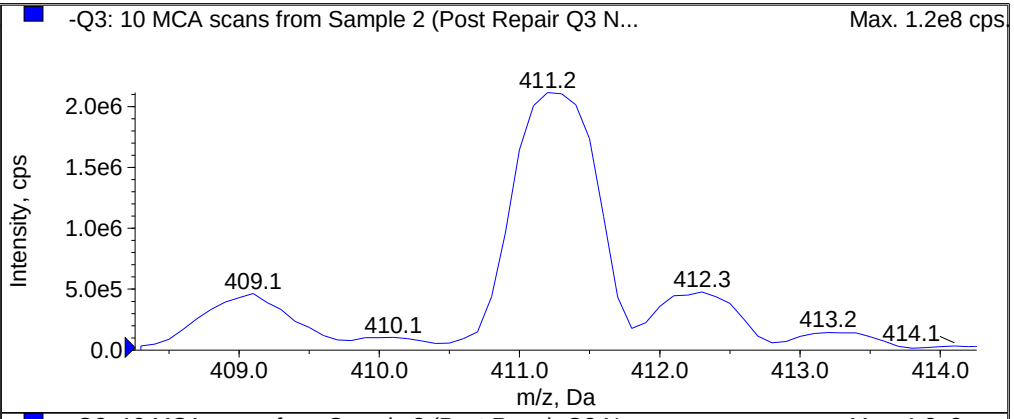


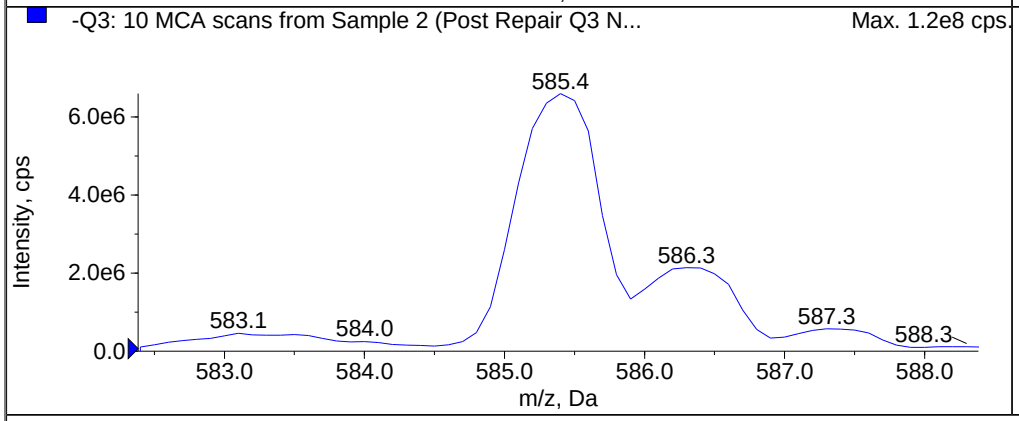


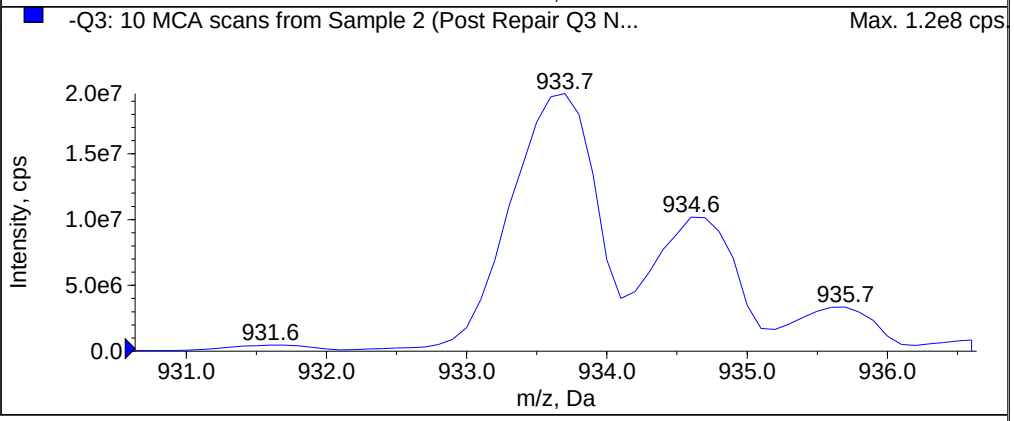
Peak List for " -Q1: 10 MCA scans from Sample 1 (Post Repair Q1 NEG PPGs 10 da_s) of Post Repair Q1 NEG PPGs 10 da_s.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	45.0095	1.8367e8	0.7478	-0.0115
2	411.2590	411.2510	2.3524e6	0.6712	8.0203e-3
3	585.3850	585.4212	5.0314e6	0.6770	-0.0362
4	933.6360	933.6324	1.2546e7	0.6909	3.5695e-3
5	1572.0970	n/a	n/a	n/a	n/a
6	1863.3060	n/a	n/a	n/a	n/a
7	1979.3890	n/a	n/a	n/a	n/a



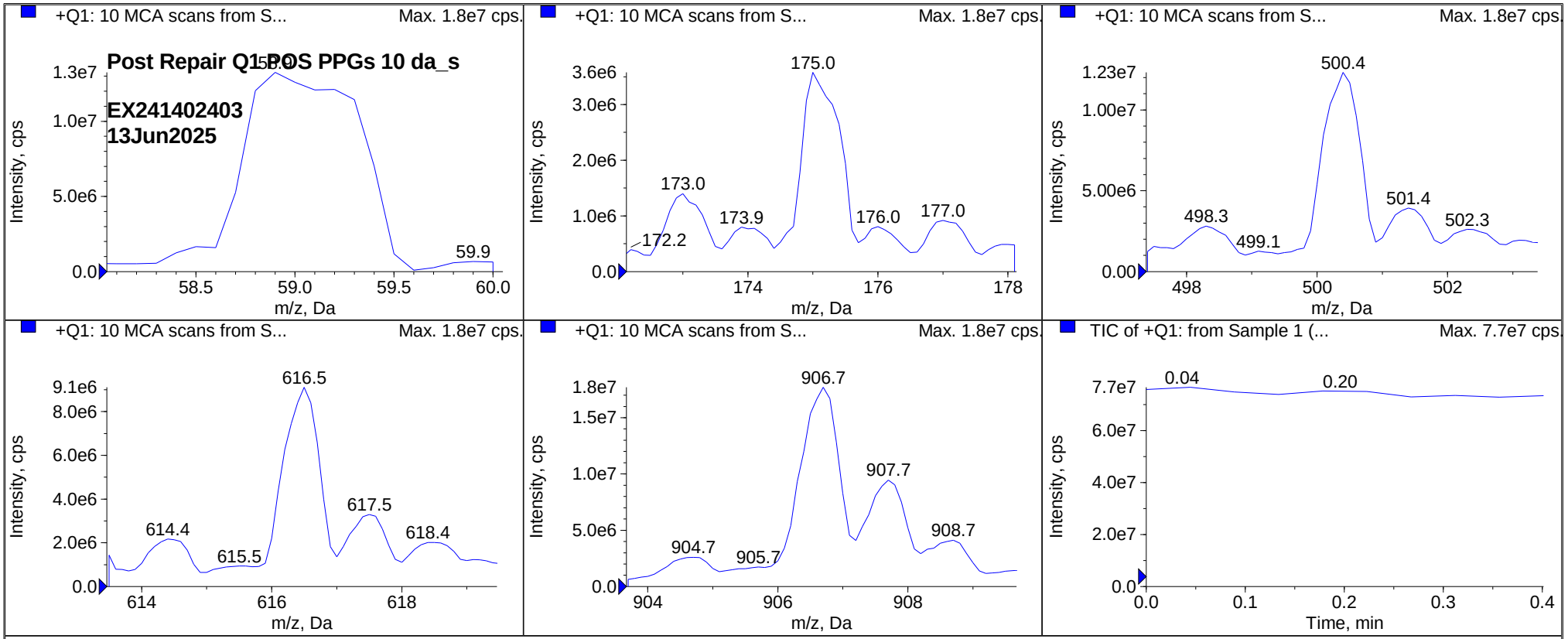






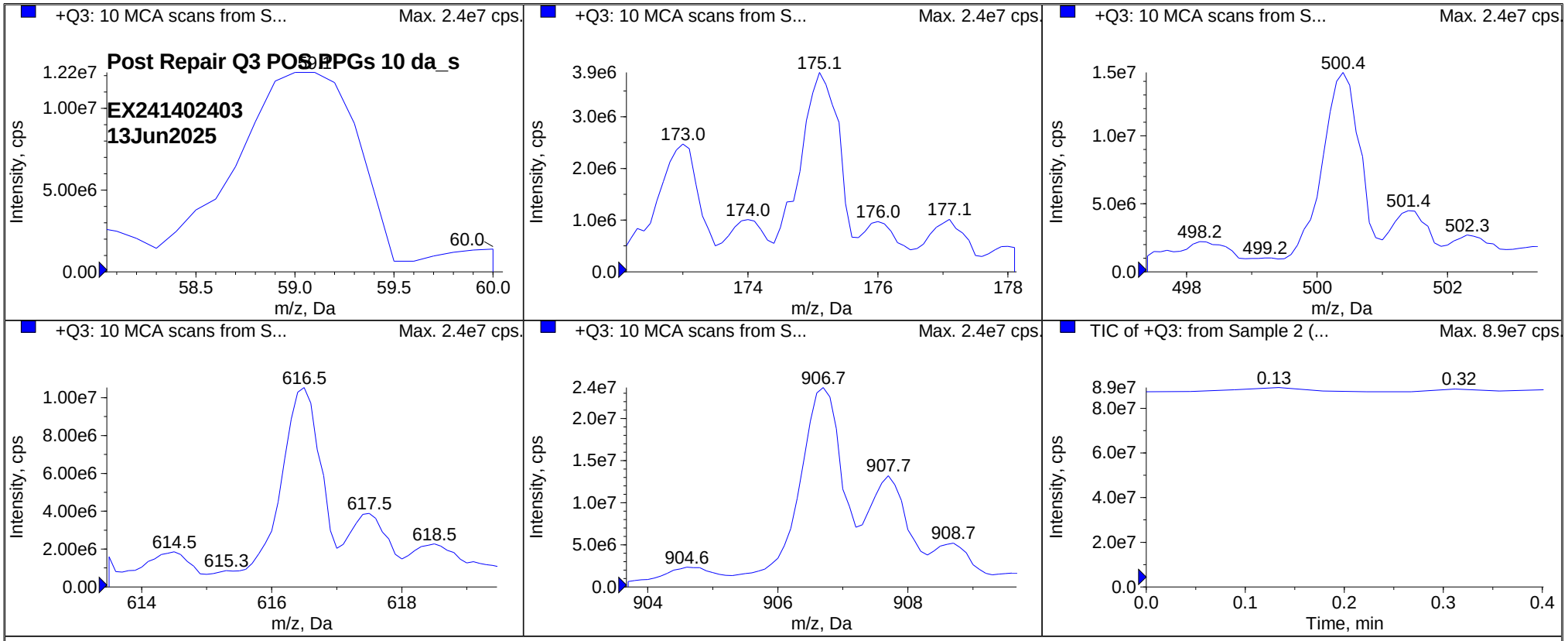
Peak List for " -Q3: 10 MCA scans from Sample 2 (Post Repair Q3 NEG PPGs 10 da_s) of Post Repair Q3 NEG PPGs 10 da_s.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	44.9962	1.1901e8	0.6657	1.8458e-3
2	411.2590	411.2570	2.1144e6	0.6923	1.9513e-3
3	585.3850	585.3834	6.5926e6	0.6711	1.5701e-3
4	933.6360	933.6389	1.9564e7	0.6861	-2.8718e-3
5	1572.0970	n/a	n/a	n/a	n/a
6	1863.3060	n/a	n/a	n/a	n/a
7	1979.3890	n/a	n/a	n/a	n/a



Peak List for " +Q1: 10 MCA scans from Sample 1 (Post Repair Q1 POS PPGs 10 da_s) of Post Repair Q1 POS PPGs 10 da_s.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	59.0500	59.0440	1.3252e7	0.6866	6.0460e-3
2	175.1330	175.1316	3.5775e6	0.7118	1.4388e-3
3	500.3800	500.3789	1.2321e7	0.6944	1.1075e-3
4	616.4640	616.4636	9.1109e6	0.6679	3.7256e-4
5	906.6730	906.6578	1.7697e7	0.6995	0.0152
6	1254.9250	n/a	n/a	n/a	n/a
7	1545.1340	n/a	n/a	n/a	n/a
8	1952.4270	n/a	n/a	n/a	n/a



Peak List for " +Q3: 10 MCA scans from Sample 2 (Post Repair Q3 POS PPGs 10 da_s) of Post Repair Q3 POS PPGs 10 da_s.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	59.0500	59.0447	1.2191e7	0.6880	5.2735e-3
2	175.1330	175.1429	3.8582e6	0.6634	-9.8938e-3
3	500.3800	500.3876	1.4653e7	0.6646	-7.6120e-3
4	616.4640	616.4705	1.0533e7	0.6872	-6.5036e-3
5	906.6730	906.6770	2.3651e7	0.6683	-4.0120e-3
6	1254.9250	n/a	n/a	n/a	n/a
7	1545.1340	n/a	n/a	n/a	n/a
8	1952.4270	n/a	n/a	n/a	n/a

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-2008.d
Lims ID: WDM
Client ID:
Sample Type: WDM
Inject. Date: 04-Feb-2026 09:34:53 ALS Bottle#: 11 Worklist Smp#: 4
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: WDM
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 14:08:09 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1721

First Level Reviewer: P7EB Date: 04-Feb-2026 14:01:54
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
3 TUDCA 498.20 > 80.00	5.267	5.267	0.0	1.000	380826	380826			30.6	
4 TCDCA 498.10 > 80.00	5.701	5.701	0.0	1.000	269839	269839			18.1	
8 TDCA 498.00 > 80.00	5.811	5.811	0.0	1.000	270058	270058			22.0	

QC Flag Legend
Processing Flags

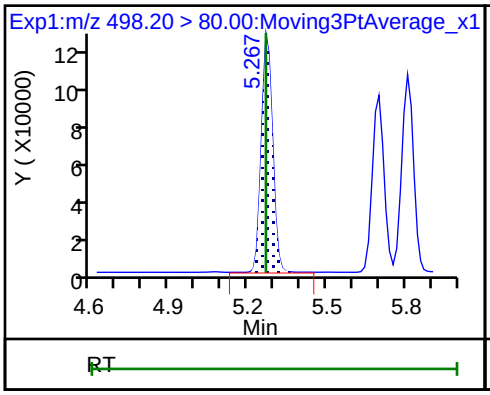
Reagents:
1633_125_WDM_00018 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 14:08:09 Chrom Revision: 2.3 29-Jan-2026 10:42:58

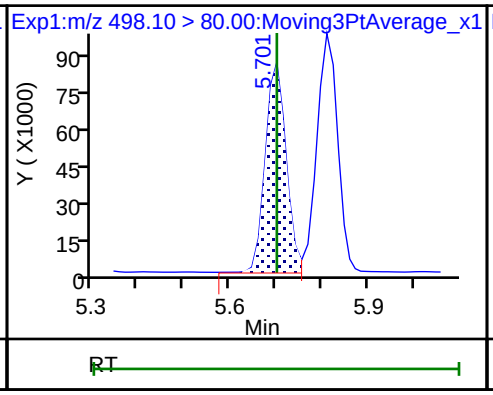
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-2008.d				
Injection Date:	04-Feb-2026 09:34:53	Instrument ID:	30575		
Lims ID:	WDM				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	11	Worklist Smp#:	4
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		

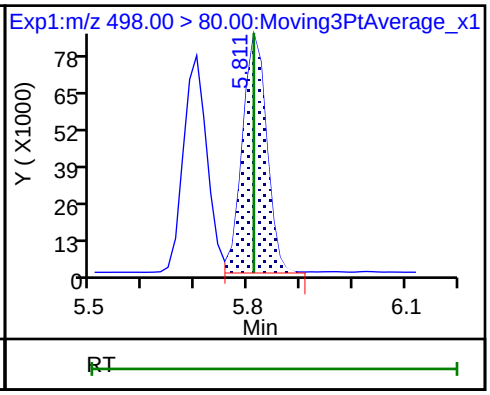
3 TUDCA



4 TCDCA



8 TDCA



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-11.d
Lims ID: WDM
Client ID:
Sample Type: WDM
Inject. Date: 29-Jan-2026 02:54:52 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: WDM
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 06-Feb-2026 13:15:56 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1704

First Level Reviewer: M4QQ Date: 29-Jan-2026 07:06:09
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
11 TUDCA										
498.20 > 80.00	5.104	5.104	0.0	1.000	377783	377783			41.4	
24 TCDCA										
498.10 > 80.00	5.540	5.540	0.0	1.000	224796	224796			16.4	
25 TDCA										
498.00 > 80.00	5.670	5.670	0.0	1.000	185120	185120			21.5	

QC Flag Legend

Processing Flags

Reagents:

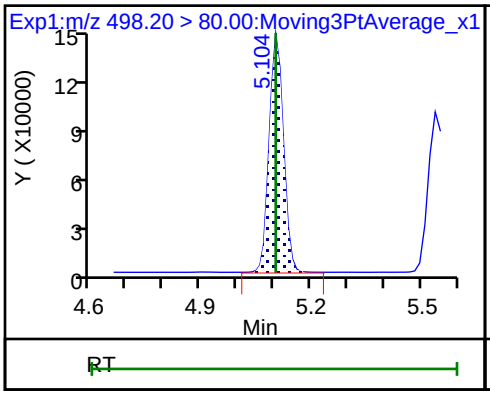
1633_125_WDM_00019 Amount Added: 1.00 Units: mL

Report Date: 06-Feb-2026 13:15:57 Chrom Revision: 2.3 29-Jan-2026 10:42:58

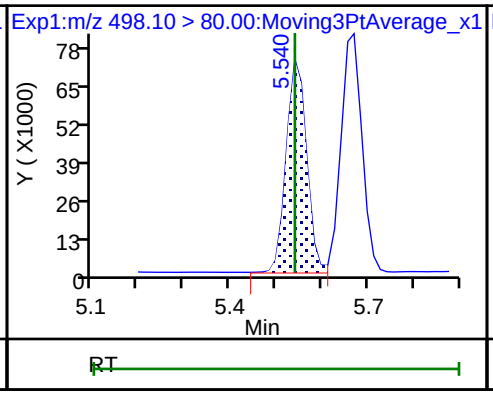
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-11.d				
Injection Date:	29-Jan-2026 02:54:52	Instrument ID:	30576		
Lims ID:	WDM				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		

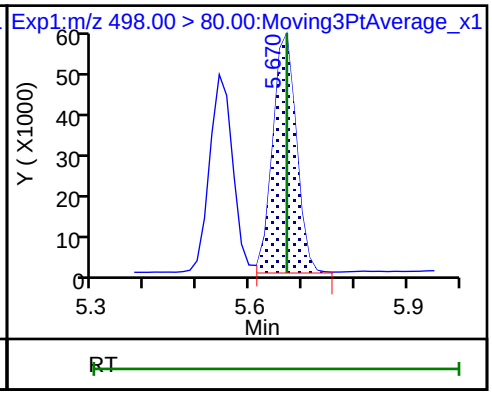
11 TUDCA



24 TCDCA



25 TDCA



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26FEB02PC-07.d
Lims ID: WDM
Client ID:
Sample Type: WDM
Inject. Date: 02-Feb-2026 11:30:17 ALS Bottle#: 11 Worklist Smp#: 4
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: WDM
Misc. Info.: Plate: 1 Rack: 1 410-0174324-004
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 13:24:15 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1613

First Level Reviewer: VGQ7 Date: 02-Feb-2026 13:18:29
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 TUDCA 498.20 > 80.00	5.092	5.092	0.0	1.000	368542	368542			44.6	
23 TCDCA 498.10 > 80.00	5.526	5.526	0.0	1.000	218336	218336			17.3	
27 TDCA 498.00 > 80.00	5.643	5.643	0.0	1.000	154799	154799			19.0	

QC Flag Legend

Processing Flags

Reagents:

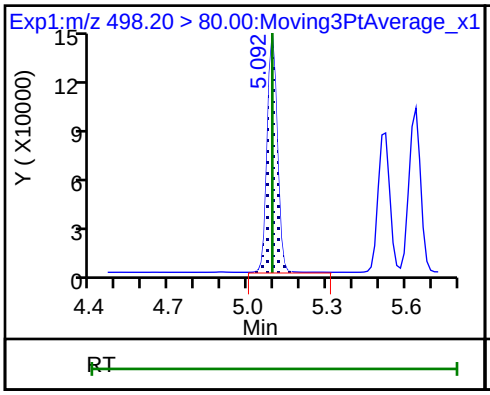
1633_125_WDM_00019 Amount Added: 1.00 Units: mL

Report Date: 02-Feb-2026 13:24:15 Chrom Revision: 2.3 29-Jan-2026 10:42:58

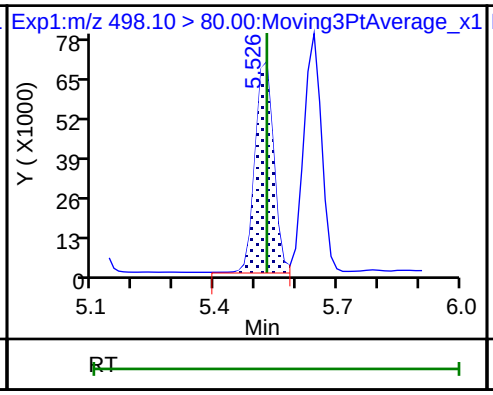
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26FEB02PC-07.d				
Injection Date:	02-Feb-2026 11:30:17	Instrument ID:	30576		
Lims ID:	WDM				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	11	Worklist Smp#:	4
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		

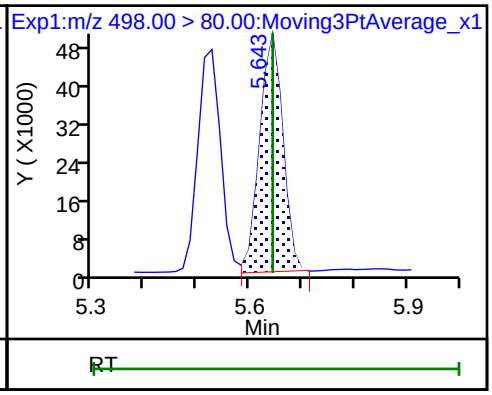
13 TUDCA



23 TCDCA



27 TDCA



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-11.d
Lims ID: WDM
Client ID:
Sample Type: WDM
Inject. Date: 04-Feb-2026 11:55:16 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: WDM
Misc. Info.: Plate: 1 Rack: 1 410-0174606-011
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 13:01:56 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:56:48
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 TUDCA 498.20 > 80.00	5.101	5.101	0.0	1.000	723412	723412			107	
24 TCDCA 498.10 > 80.00	5.541	5.541	0.0	1.000	436298	436298			16.7	
25 TDCA 498.00 > 80.00	5.657	5.657	0.0	1.000	375113	375113			19.9	

QC Flag Legend

Processing Flags

Reagents:

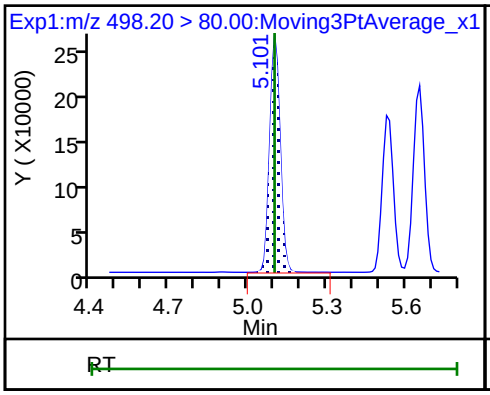
1633_125_WDM_00019 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2026 13:01:57 Chrom Revision: 2.3 29-Jan-2026 10:42:58

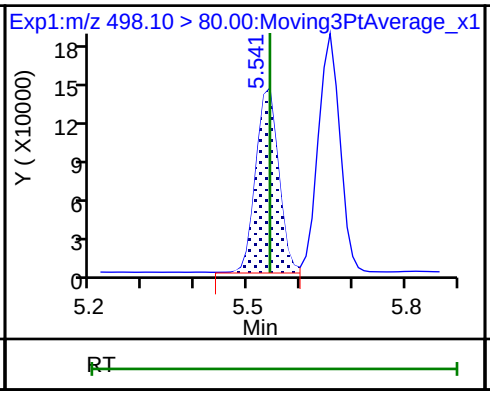
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-11.d				
Injection Date:	04-Feb-2026 11:55:16	Instrument ID:	30577		
Lims ID:	WDM				
Client ID:					
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		

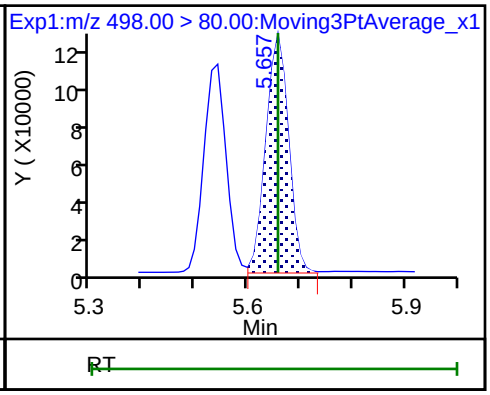
13 TUDCA

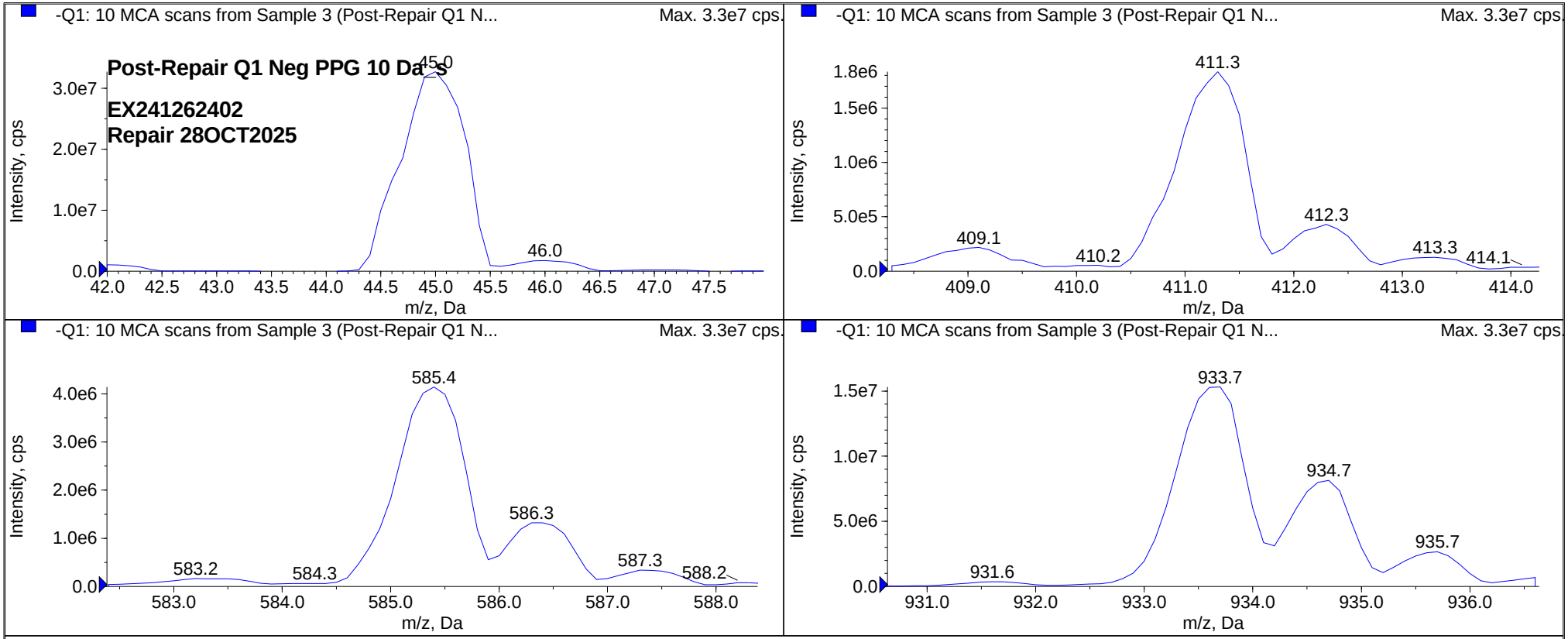


24 TCDCA



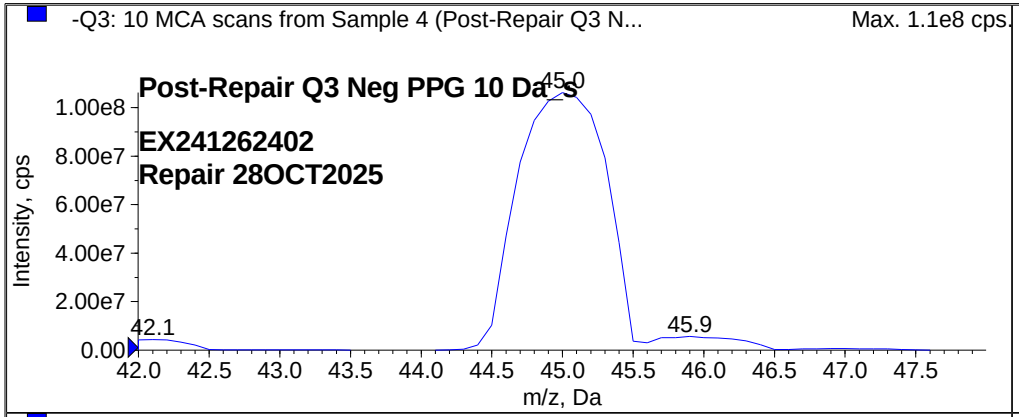
25 TDCA

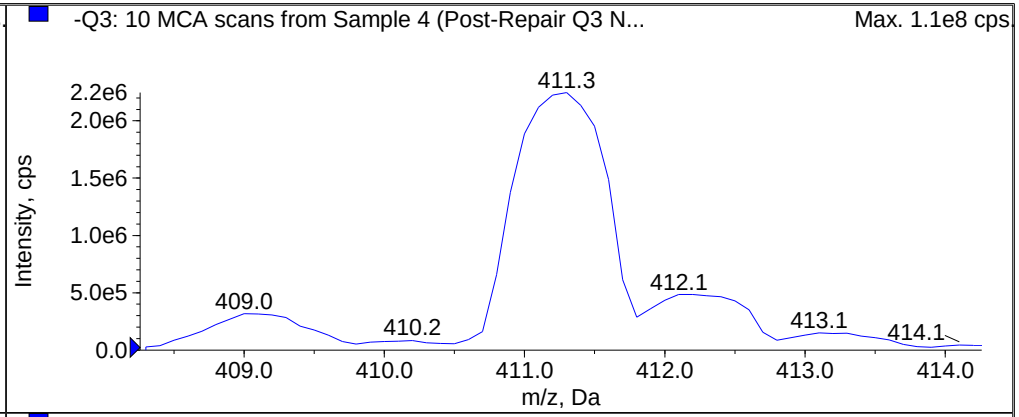


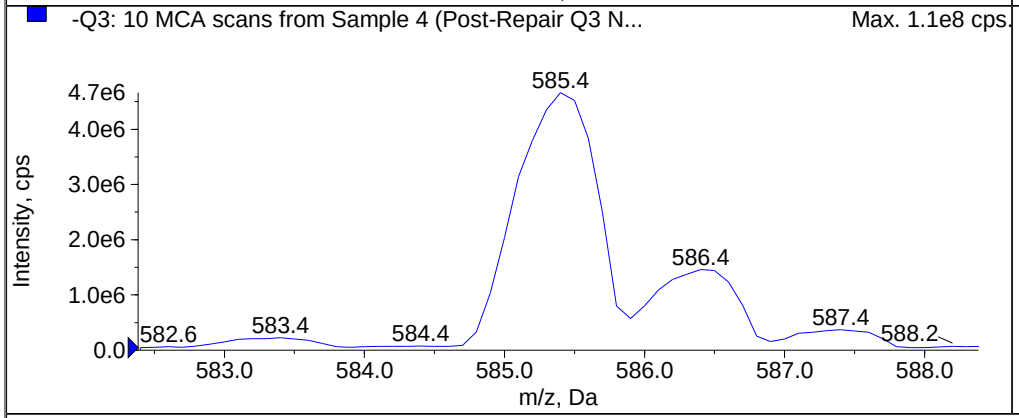


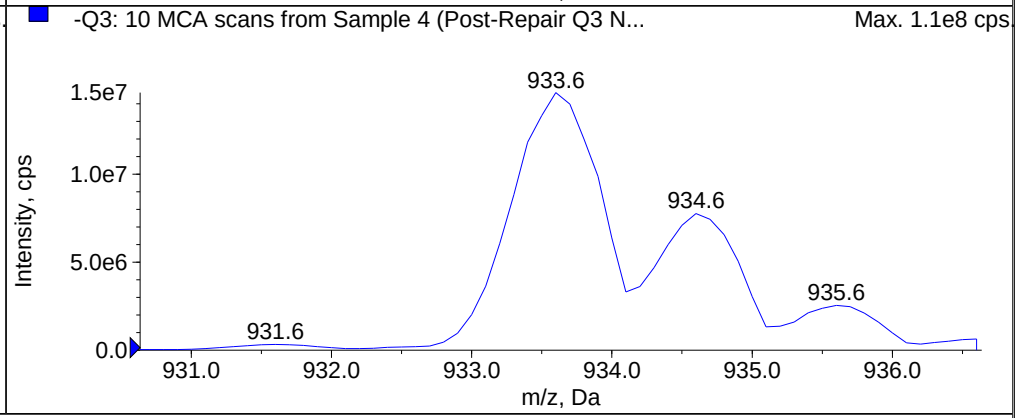
Peak List for " -Q1: 10 MCA scans from Sample 3 (Post-Repair Q1 Neg PPG 10 Da_s) of Post-Repair Q1 Neg PPG 10 Da_s.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	45.0072	3.2731e7	0.6903	-9.1564e-3
2	411.2590	411.2640	1.8346e6	0.6911	-5.0078e-3
3	585.3850	585.3866	4.1421e6	0.6975	-1.5678e-3
4	933.6360	933.6191	1.5313e7	0.7043	0.0169
5	1572.0970	n/a	n/a	n/a	n/a
6	1863.3060	n/a	n/a	n/a	n/a
7	1979.3890	n/a	n/a	n/a	n/a









Peak List for " -Q3: 10 MCA scans from Sample 4 (Post-Repair Q3 Neg PPG 10 Da_s) of Post-Repair Q3 Neg PPG 10 Da_s.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	45.0041	1.0625e8	0.7550	-6.1498e-3
2	411.2590	411.2594	2.2462e6	0.7770	-3.5603e-4
3	585.3850	585.3838	4.6620e6	0.6835	1.2294e-3
4	933.6360	933.6125	1.4621e7	0.7283	0.0235
5	1572.0970	n/a	n/a	n/a	n/a
6	1863.3060	n/a	n/a	n/a	n/a
7	1979.3890	n/a	n/a	n/a	n/a

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26Feb04PC-16.d
Lims ID: WDM
Client ID:
Sample Type: WDM
Inject. Date: 05-Feb-2026 11:14:57 ALS Bottle#: 11 Worklist Smp#: 4
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: WDM
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 18:54:08 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 18:52:19
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 TUDCA 498.20 > 80.00	5.121	5.121	0.0	1.000	569647	569647			101	
24 TCDCA 498.10 > 80.00	5.553	5.553	0.0	1.000	357467	357467			16.9	
25 TDCA 498.00 > 80.00	5.679	5.679	0.0	1.000	309287	309287			19.1	

QC Flag Legend
Processing Flags

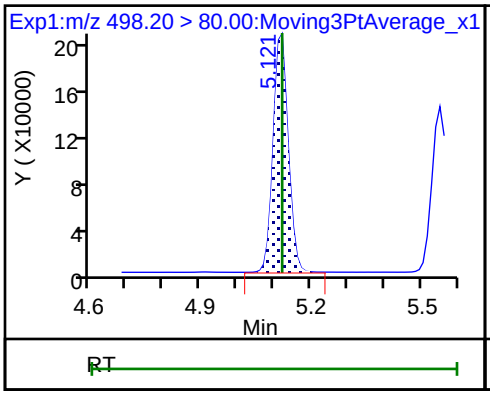
Reagents:
1633_125_WDM_00019 Amount Added: 1.00 Units: mL

Report Date: 05-Feb-2026 18:54:09 Chrom Revision: 2.3 29-Jan-2026 10:42:58

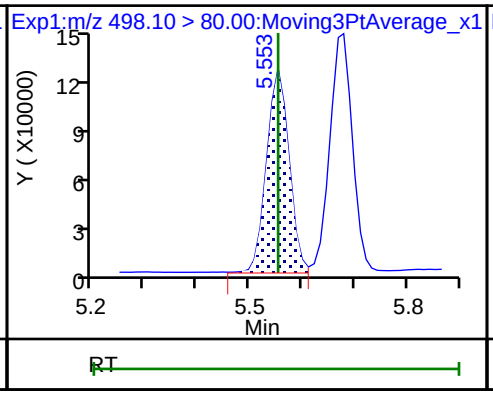
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26Feb04PC-16.d				
Injection Date:	05-Feb-2026 11:14:57	Instrument ID:	30577		
Lims ID:	WDM				
Client ID:					
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	11	Worklist Smp#:	4
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		

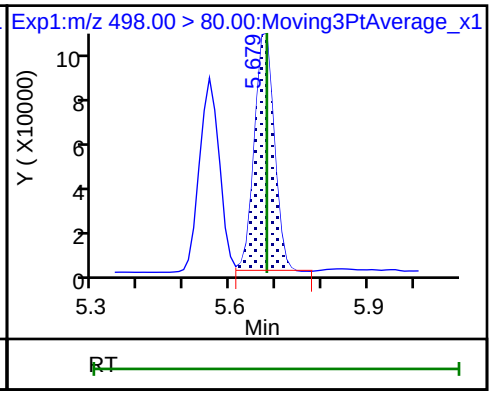
13 TUDCA



24 TCDCA



25 TDCA



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-763508/8-A

Matrix: Water
Lab File ID: 26Feb02n-01.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 125(mL)
Date Analyzed: 02/02/2026 21:16

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.00	U	4.00	1.10
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.00	U	2.00	0.60
307-24-4	Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.90
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.50
335-76-2	Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.50
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.50
307-55-1	Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.50
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	2.00	U	2.00	0.50
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	2.00	U	2.00	0.50
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.50
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	2.00	U	2.00	0.50
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.80
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.00	U	2.00	0.50
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.30
68259-12-1	Perfluorononanesulfonic acid (PFNS)	2.00	U	2.00	0.50
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	2.00	U	2.00	0.60
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.00	U	4.00	1.00
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.00	U	4.00	1.00
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.00	U	4.00	1.00
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.00	U	2.00	0.50
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	2.00	U	2.00	0.50
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.00	U	2.00	1.10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-763508/8-A

Matrix: Water
Lab File ID: 26Feb02n-01.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 125(mL)
Date Analyzed: 02/02/2026 21:16

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.50
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.50
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	10.0	U	10.0	4.00
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	10.0	U	10.0	4.00
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	U	2.00	1.40
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	U	2.00	0.50
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	U	2.00	0.50
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	U	2.00	0.50
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	U	2.00	0.50
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	2.00	U	2.00	0.50
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	2.00	U	2.00	0.50
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.00	U	2.00	0.50
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.00	U	4.00	1.00
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	10.0	U	10.0	2.80
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	10.0	U	10.0	2.50

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GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	88.6		5-130
2283397-79-3	13C5 PFPeA	90.6		40-130
2328024-54-8	13C5 PFHxA	95.3		40-130
2328024-55-9	13C4 PFHpA	97.6		40-130
1350614-84-4	13C8 PFOA	91.6		40-130
2283397-80-6	13C9 PFNA	92.9		40-130
2328024-56-0	13C6 PFDA	96.6		40-130
STL02580	13C7 PFUnA	97.0		30-130
STL02116	13C2 PFTeDA	76.0		10-130
2708218-83-9	13C3 PFBS	96.7		40-135
2708218-85-1	13C3 PFHxS	89.9		40-130
2265893-05-6	13C8 PFOS	87.9		40-130
STL01056	13C8 FOSA	74.1		40-130
1400690-70-1	d3-NMeFOSAA	80.1		40-170
1265205-97-7	d5-NEtFOSAA	181	*	25-135
STL02395	13C2 4:2 FTS	100		40-200
STL02279	13C2 6:2 FTS	105		40-200
STL02280	13C2 8:2 FTS	97.4		40-300
STL02255	13C3 HFPO-DA	93.2		40-130
STL02277	d7-N-MeFOSE-M	55.3		10-130
STL02278	d9-N-EtFOSE-M	52.6		10-130
STL02704	d5-NEtPFOSA	61.3		10-130
STL02705	d3-NMePFOSA	64.7		10-130
960315-52-0	13C2 PFDoA	95.4		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-01.d
Lims ID: MB 410-763508/8-A
Client ID:
Sample Type: MB
Inject. Date: 02-Feb-2026 21:16:34 ALS Bottle#: 42 Worklist Smp#: 42
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-763508/8-A
Misc. Info.: Plate: 1 Rack: 1 410-0174324-042
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 03-Feb-2026 11:37:01 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1674

First Level Reviewer: VGQ7 Date: 03-Feb-2026 11:14:07
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.016	1.992	0.024	0.482	1102734	1.68		84.2	535	
D 3 13C4-PFBA										
216.80 > 171.90	4.181	4.161	0.020	1.000	1399764	1.77		88.6	5466	
* 4 13C3PFBA										
216.00 > 172.00	4.181	4.169	0.012		1511478	2.00			1260	
D 8 13C5 PFPeA										
268.30 > 223.00	4.835	4.822	0.013	0.912	922559	1.81		90.6	5897	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.116	5.099	0.018	0.802	636098	4.70		100	2960	
D 15 13C5 PFHxA										
318.00 > 273.00	5.289	5.282	0.007	0.997	1906669	1.91		95.3	5691	
* 16 13C2 PFHxA										
315.10 > 270.00	5.303	5.282	0.021		4377900	5.00			12462	
D 18 13C3 PFBS										
302.10 > 79.90	5.445	5.410	0.035	0.853	1799140	1.80		96.7	10707	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.486	5.464	0.022	1.035	1613594	1.86		93.2	4926	
23 TCDCA										
498.10 > 80.00	5.849	5.526	0.323	0.805	416	NR			0.5	
27 TDCA										
498.00 > 80.00	6.316	5.643	0.673	0.869	1806	NR			1.4	
D 26 13C4 PFHpA										
367.10 > 322.00	5.729	5.707	0.022	1.080	1927317	1.95		97.6	3483	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.924	5.903	0.021	0.928	558766	5.01		105	3094	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										7M
413.00 > 369.00	6.135	6.104	0.031	0.998	6379	0.008928	Target=1.86		7.3	7M
413.00 > 169.00	6.148	6.104	0.044	1.000	5344		1.19(0.93-2.79)		7.8	
LOD = 0.0125										
* 35 13C4 PFOA										
417.10 > 372.00	6.148	6.117	0.031		6123919	5.00			9932	
D 34 13C8 PFOA										
421.10 > 376.00	6.148	6.117	0.031	1.000	2245451	1.83		91.6	5660	
D 38 13C3 PFHxS										
402.10 > 79.90	6.381	6.345	0.036	1.000	1552764	1.70		89.9	7283	
* 37 18O2 PFHxS										
403.00 > 83.90	6.381	6.345	0.036		1682366	1.90			7915	
* 42 13C5 PFNA										
468.00 > 423.00	6.568	6.525	0.043		2273799	2.00			7662	
D 41 13C9 PFNA										
472.10 > 427.00	6.568	6.525	0.043	1.000	1977802	1.86		92.9	5831	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.758	6.707	0.051	1.059	497084	4.68		97.4	1273	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.917	6.877	0.040	0.950	896662	4.00		80.1	1196	
D 51 13C6 PFDA										
519.10 > 474.10	6.988	6.938	0.050	1.000	1794054	1.93		96.6	4914	
* 52 13C2 PFDA										
515.10 > 470.10	6.988	6.938	0.050		1837818	2.00			6833	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.111	7.057	0.054	0.977	1755729	9.07		181	2765	
D 56 13C8 PFOS										
507.10 > 79.90	7.265	7.208	0.056	0.998	1286159	1.68		87.9	3117	
* 57 13C4 PFOS										
502.80 > 79.90	7.277	7.208	0.069		1441787	1.92			9402	
D 59 13C7 PFUnA										
570.00 > 525.10	7.421	7.353	0.068	1.062	1797592	1.94		97.0	4134	
D 82 PFDoA										
615.10 > 570.00	7.850	7.777	0.073	1.123	1245779	1.91		95.4	4348	
D 64 13C8 FOSA										
506.10 > 77.80	7.984	7.965	0.019	1.097	1268478	1.48		74.1	5486	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.587	8.510	0.077	1.229	823111	1.52		76.0	3655	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.744	8.738	0.006	1.201	373556	2.77		55.3	237	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.825	8.834	-0.009	1.213	313012	1.29		64.7	2822	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.919	8.926	-0.007	1.226	471972	2.63		52.6	420	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.996	8.991	0.005	1.236	360716	1.23		61.3	2681	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00579 Amount Added: 50.00 Units: uL

Report Date: 03-Feb-2026 11:38:56 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-01.d

Injection Date: 02-Feb-2026 21:16:34 Instrument ID: 30576

Lims ID: MB 410-763508/8-A

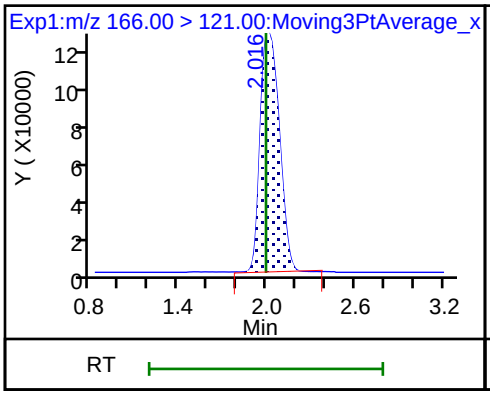
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 42 Worklist Smp#: 42

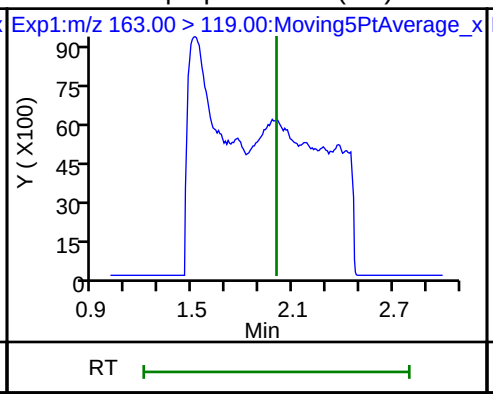
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

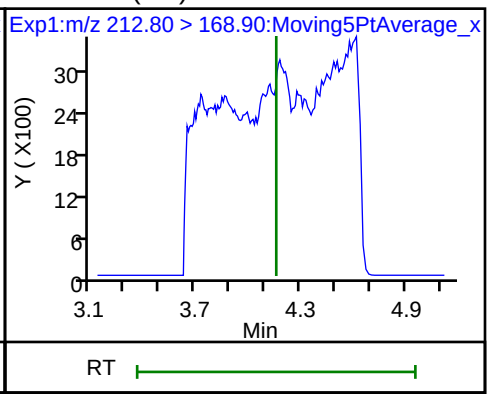
D 1 13C3PFPrA



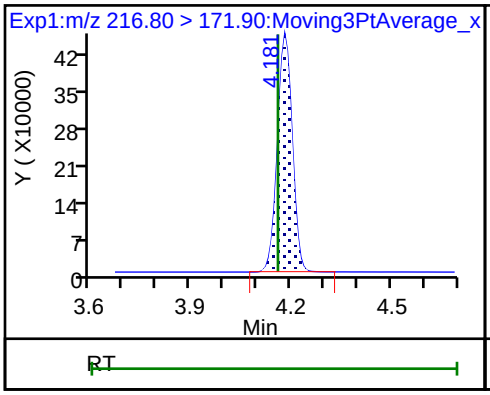
2 Perfluoropropionic acid (ND)



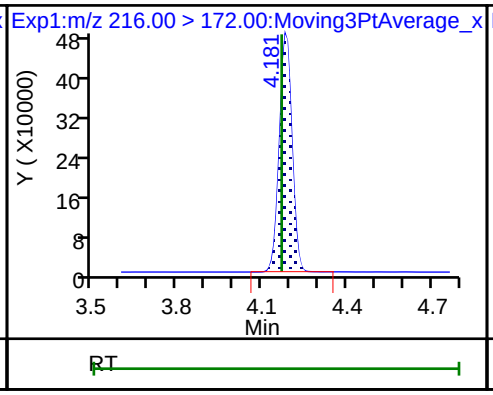
5 PFBA (ND)



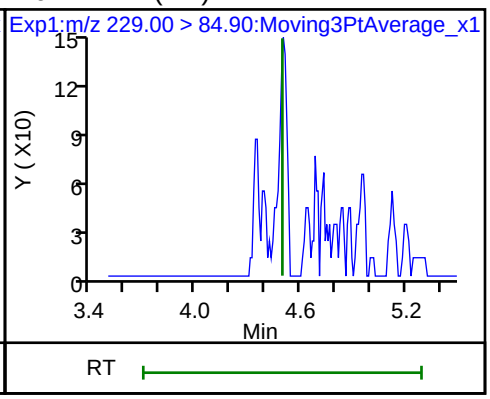
D 3 13C4-PFBA



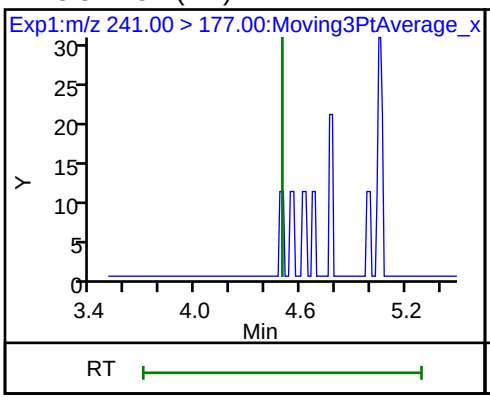
* 4 13C3PFBA



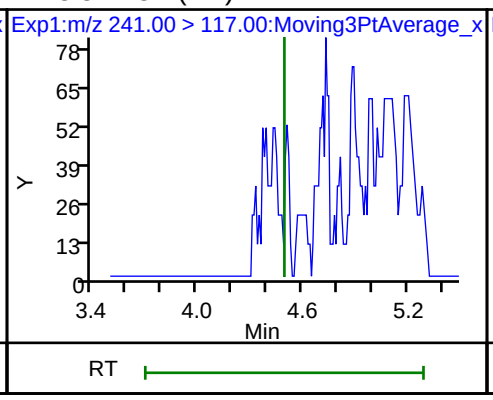
6 PFMPA (ND)



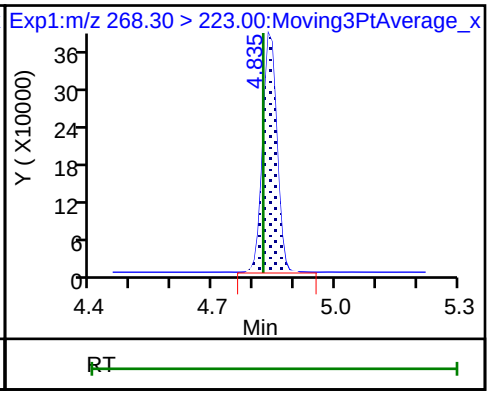
7 3:3 FTCA (ND)



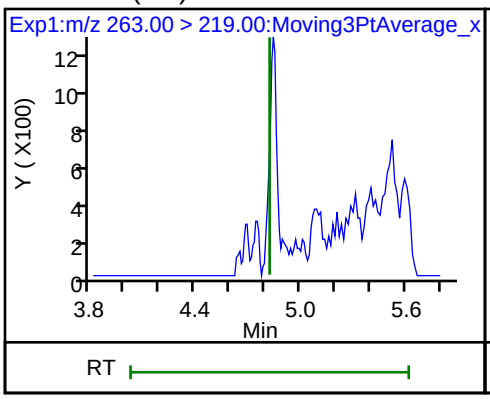
7 3:3 FTCA (ND)



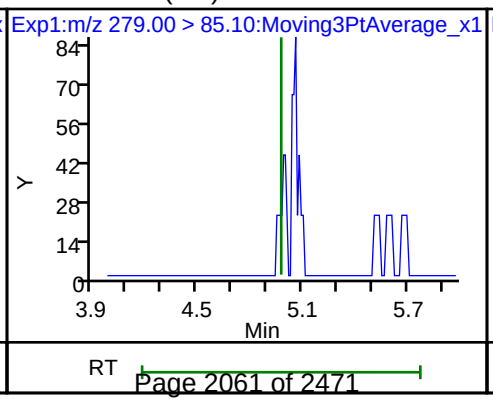
D 8 13C5 PFPeA



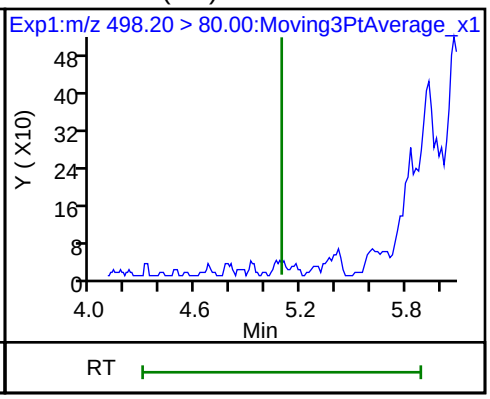
9 PFPA (ND)



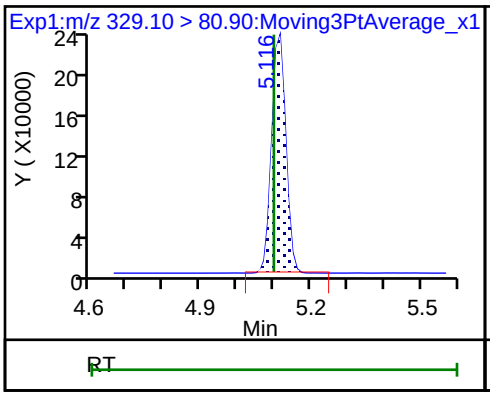
10 PFMBA (ND)



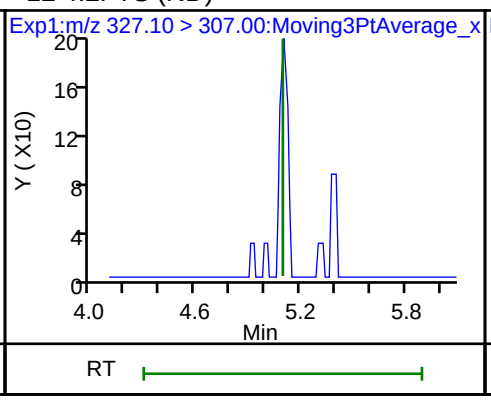
13 TUDCA (ND)



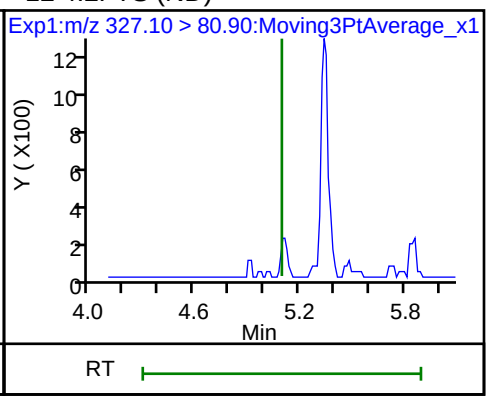
D 11 13C2-4:2FTS



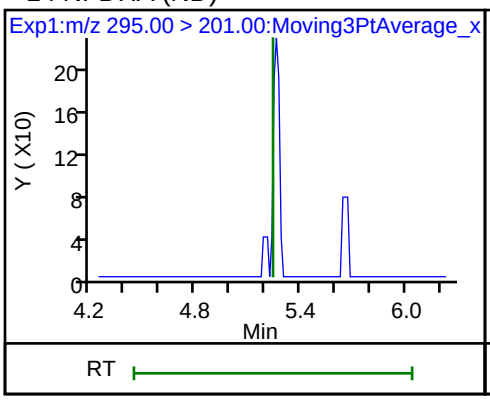
12 4:2FTS (ND)



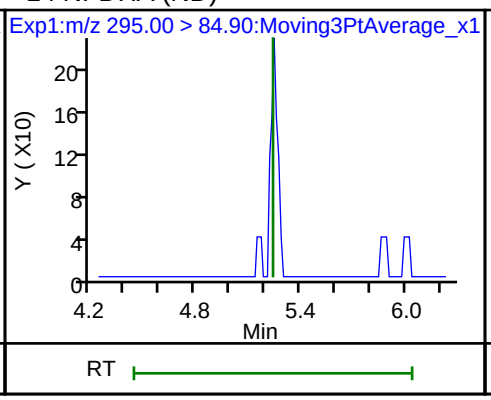
12 4:2FTS (ND)



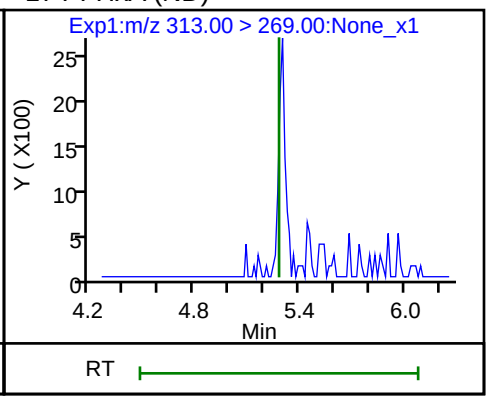
14 NFDHA (ND)



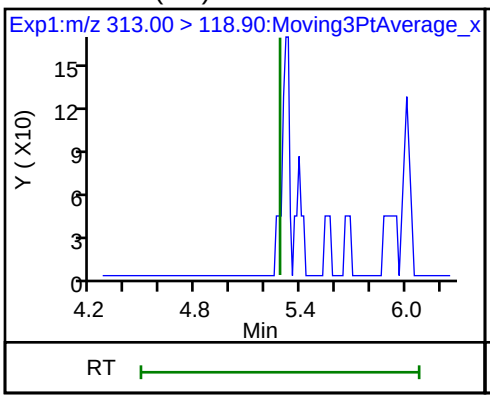
14 NFDHA (ND)



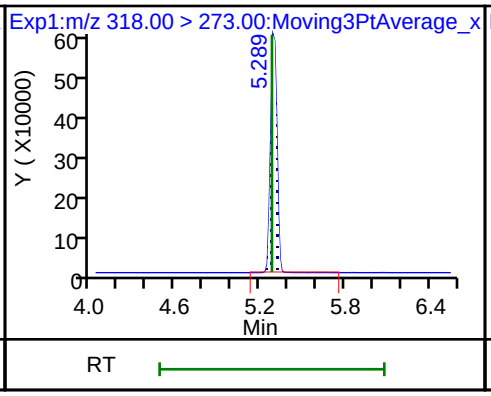
17 PFHxA (ND)



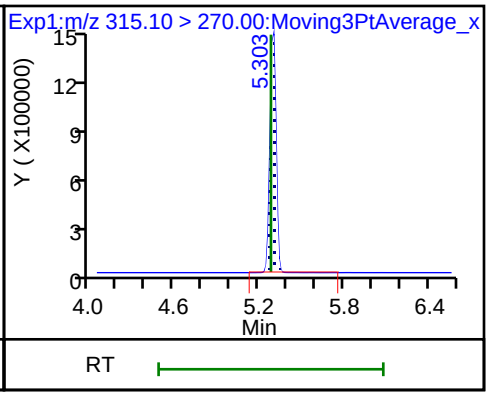
17 PFHxA (ND)



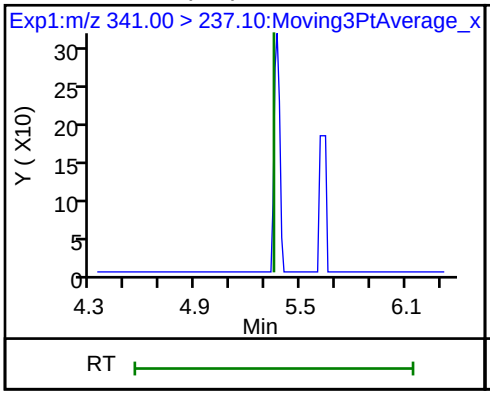
D 15 13C5 PFHxA



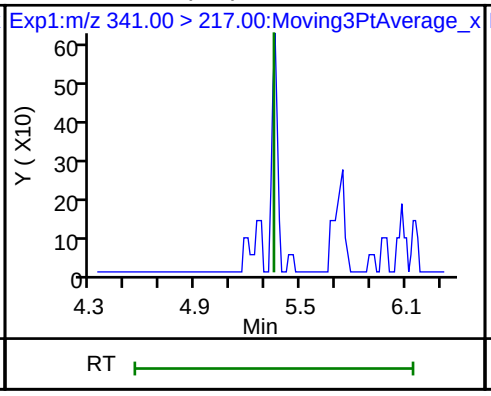
* 16 13C2 PFHxA



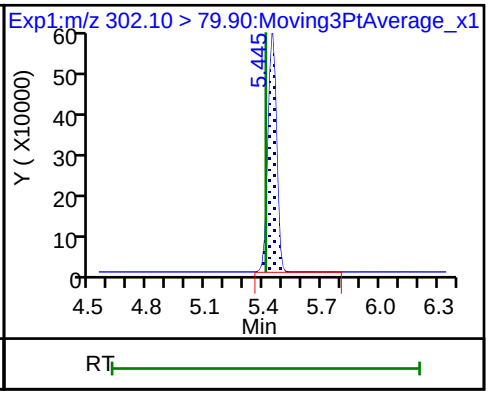
20 5:3 FTCA (ND)



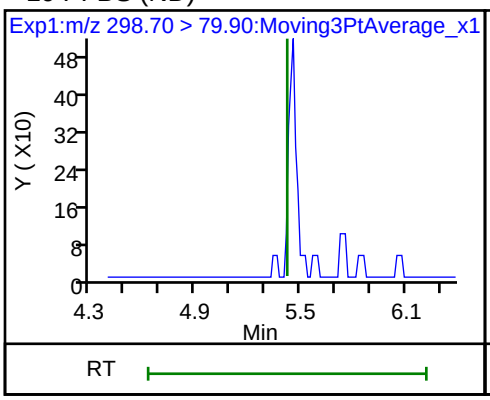
20 5:3 FTCA (ND)



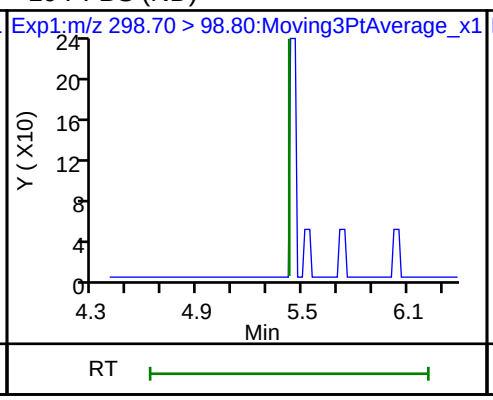
D 18 13C3 PFBS



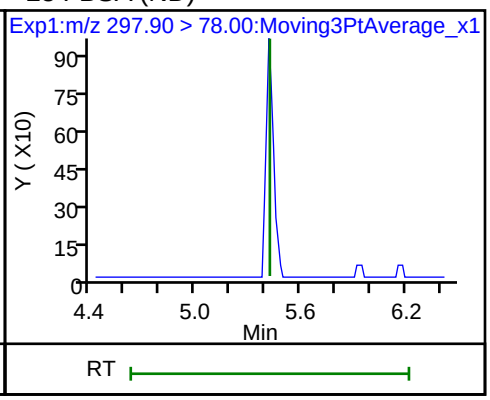
19 PFBS (ND)



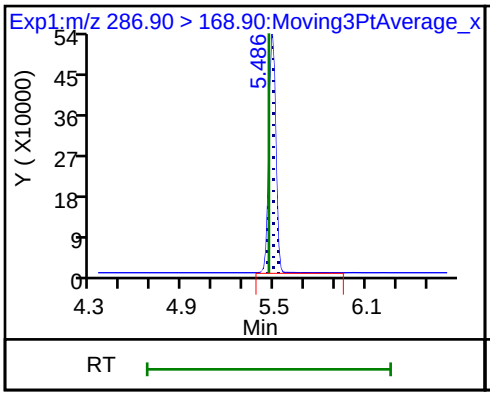
19 PFBS (ND)



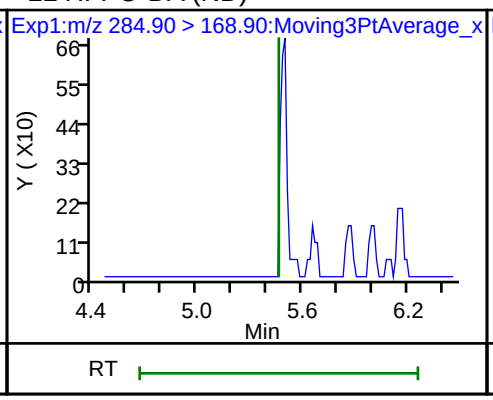
25 FBSA (ND)



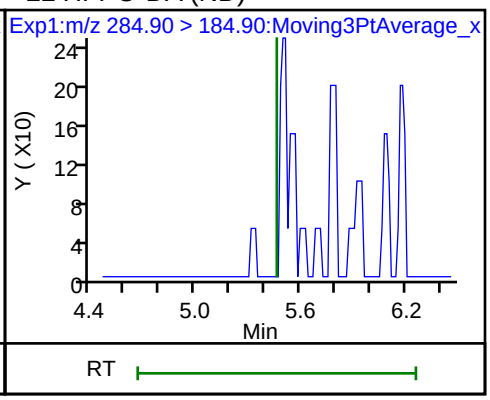
D 21 13C3 HFPO-DA



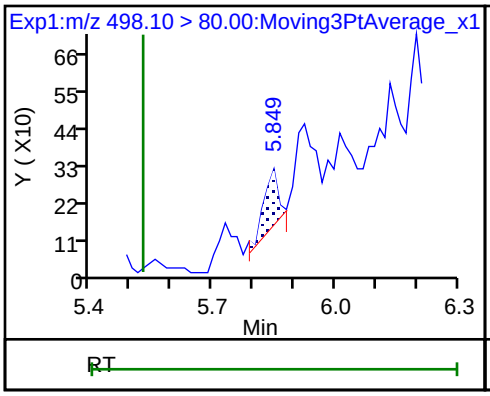
22 HFPO-DA (ND)



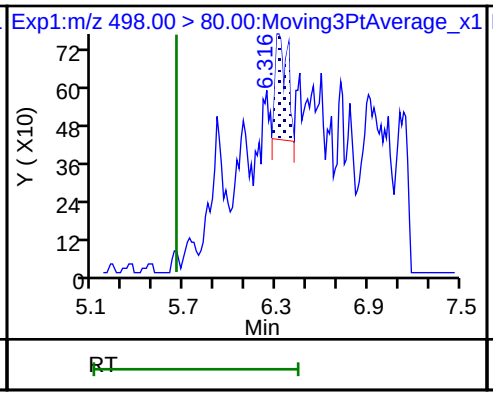
22 HFPO-DA (ND)



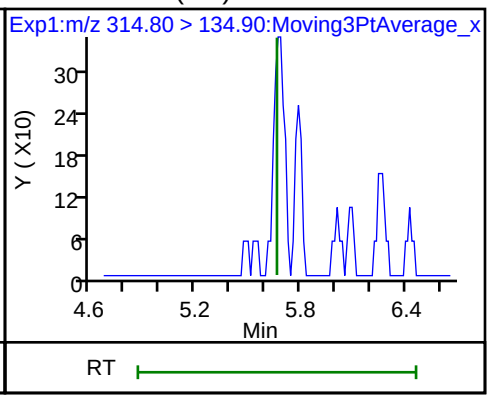
23 TCDCA



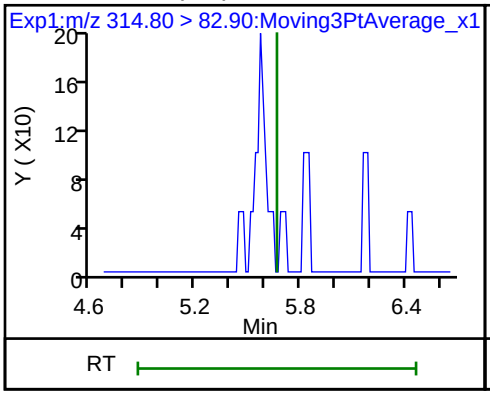
27 TDCA



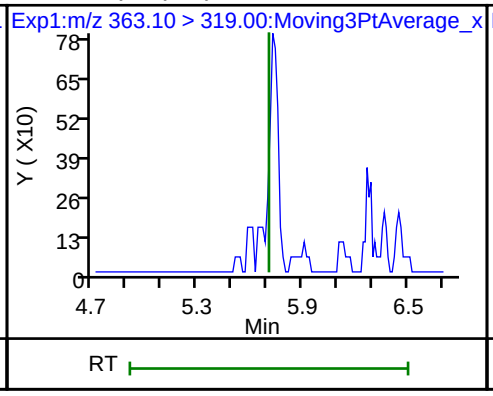
24 PFEESA (ND)



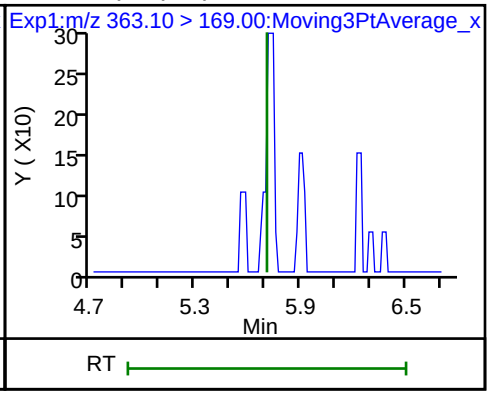
24 PFEESA (ND)



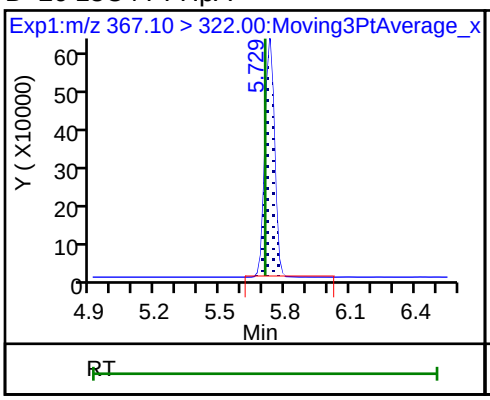
28 PFHpA (ND)



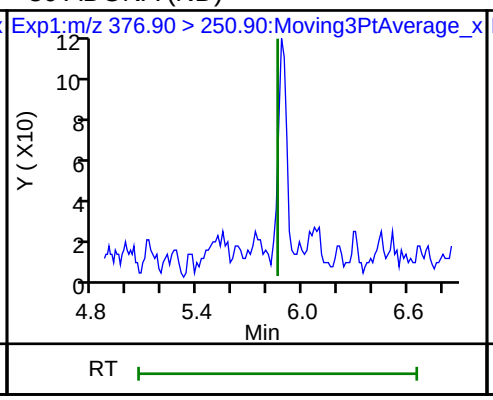
28 PFHpA (ND)



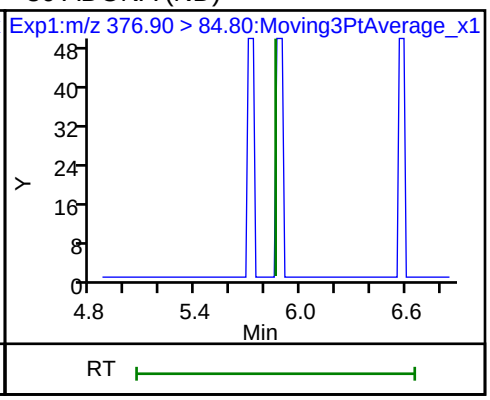
D 26 13C4 PFHpA



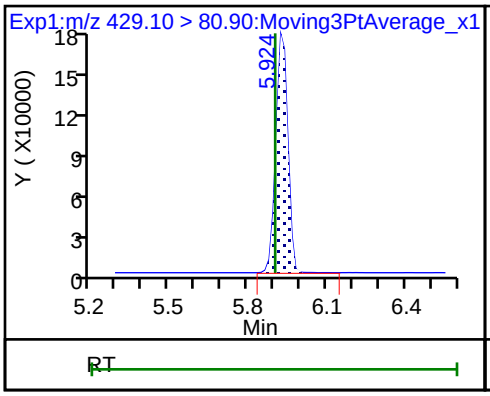
30 ADONA (ND)



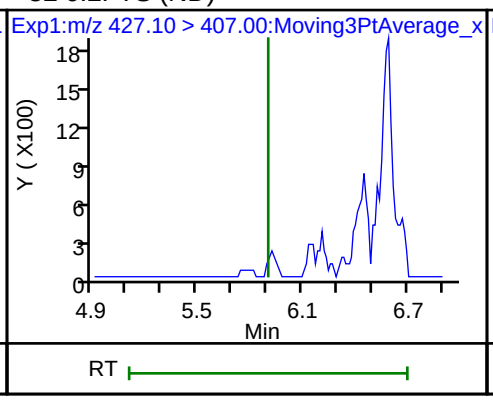
30 ADONA (ND)



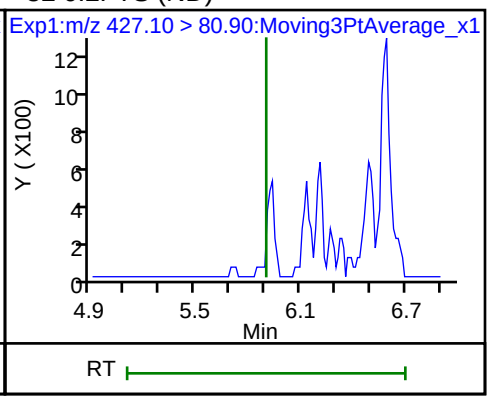
D 31 13C2-6:2FTS



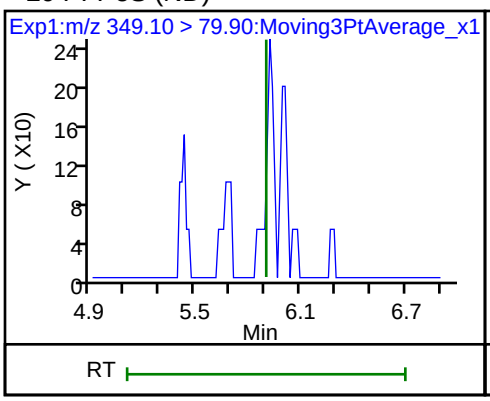
32 6:2FTS (ND)



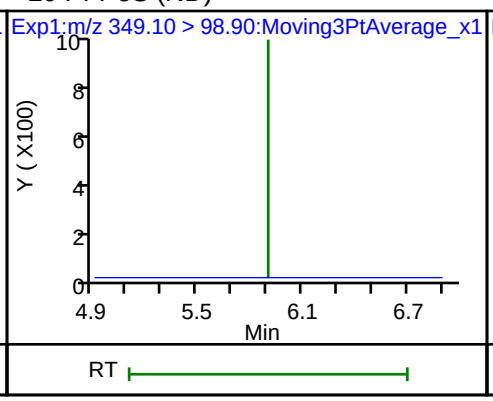
32 6:2FTS (ND)



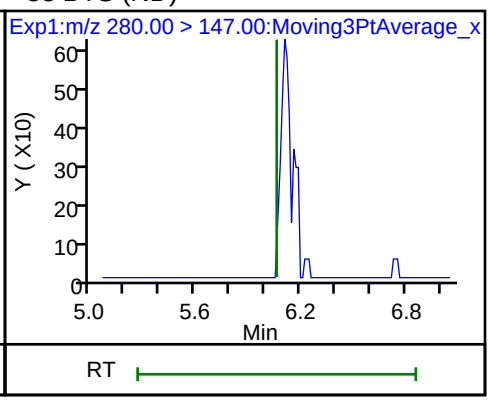
29 PFPeS (ND)



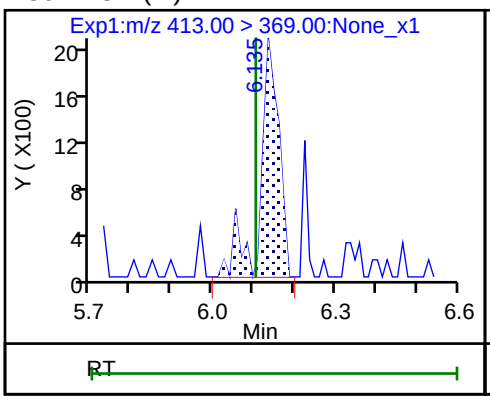
29 PFPeS (ND)



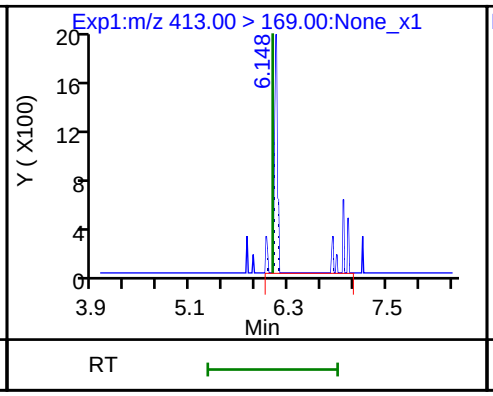
33 BTS (ND)



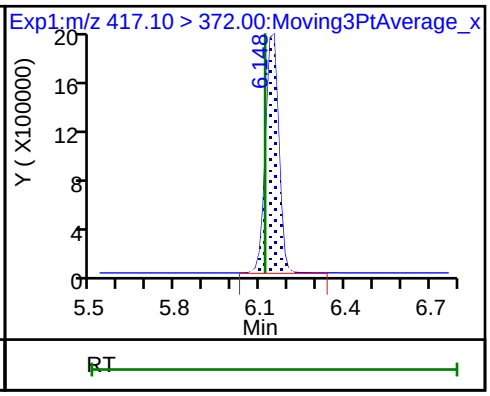
36 PFOA (M)



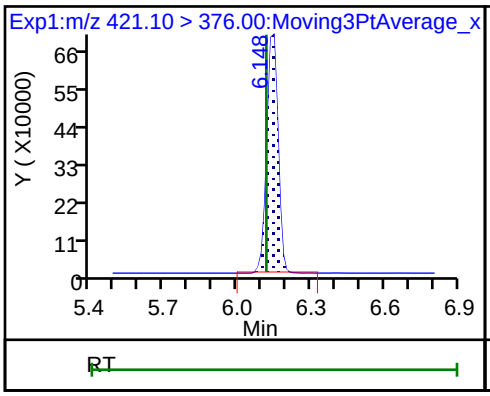
36 PFOA



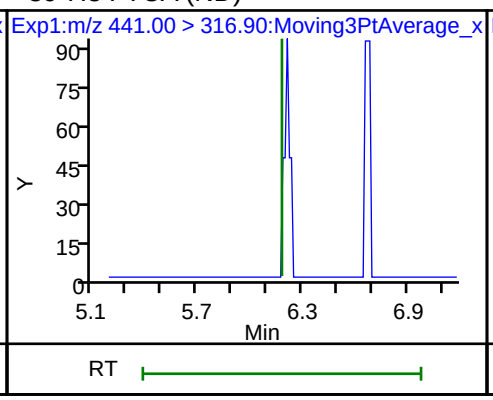
* 35 13C4 PFOA



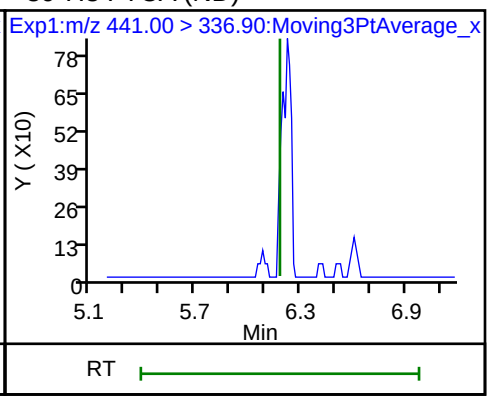
D 34 13C8 PFOA



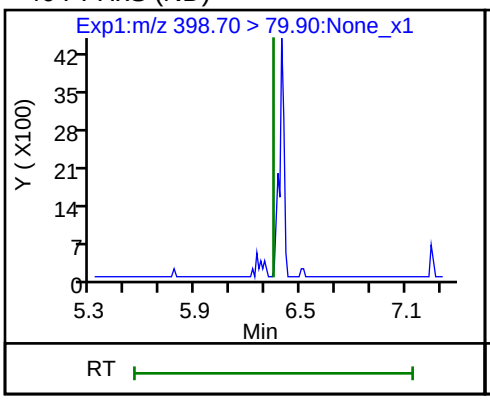
39 7:3 FTCA (ND)



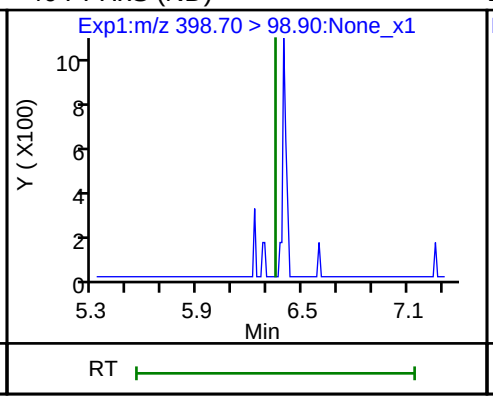
39 7:3 FTCA (ND)



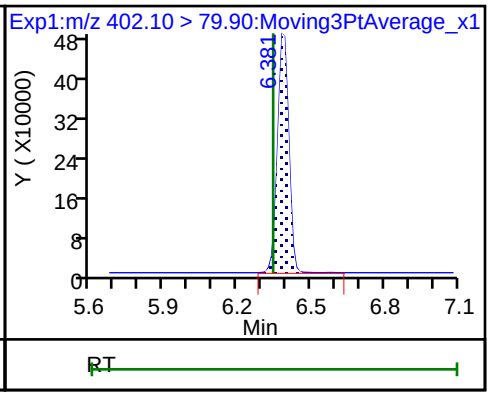
40 PFHxS (ND)



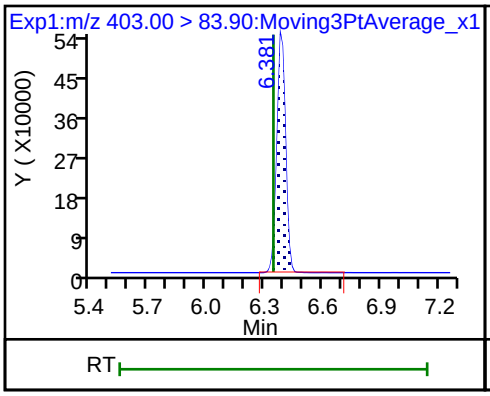
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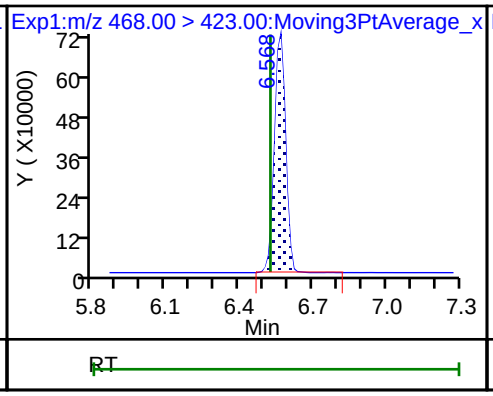
D 38 13C3 PFHxS



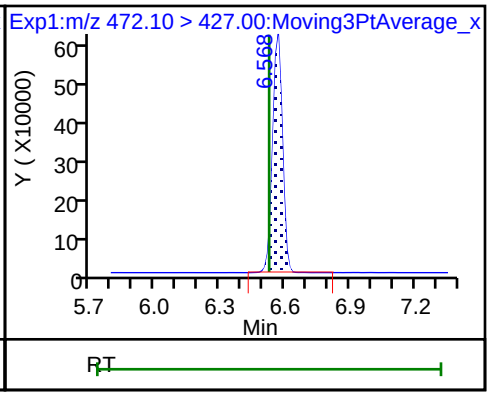
* 37 18O2 PFHxS



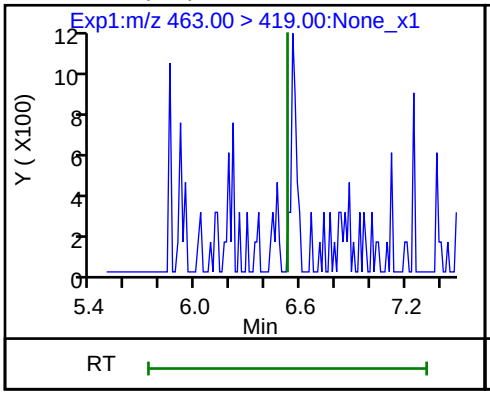
* 42 13C5 PFNA



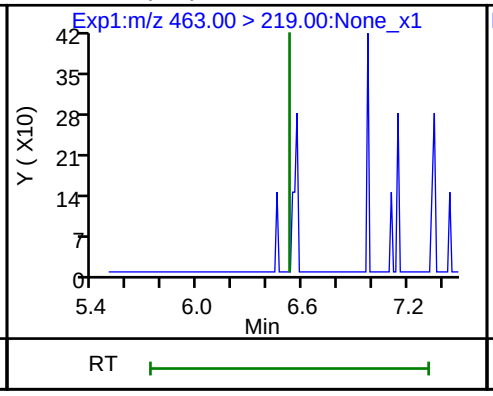
D 41 13C9 PFNA



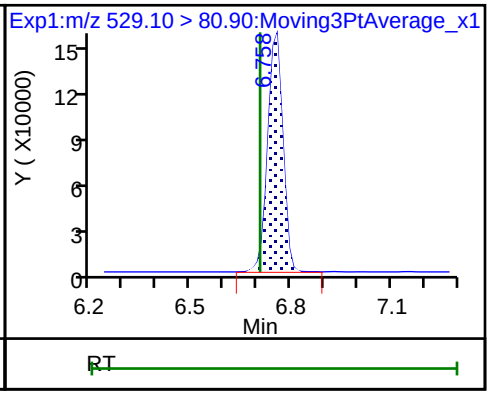
43 PFNA (ND)



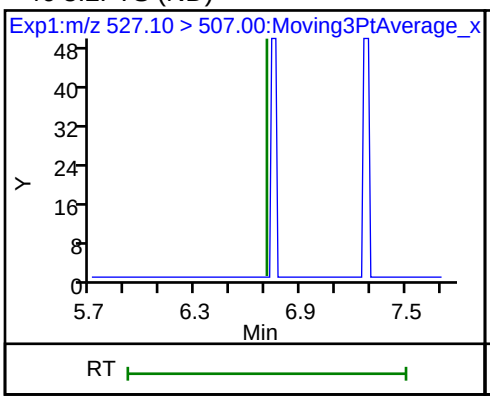
43 PFNA (ND)



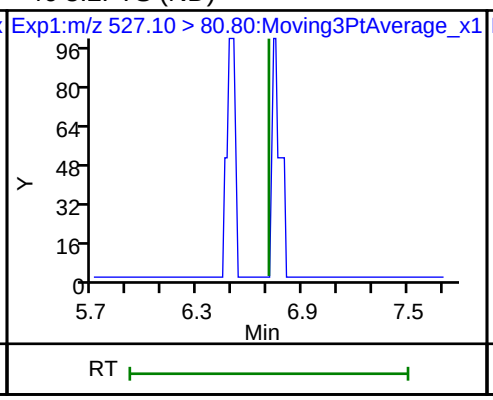
D 45 13C2-8:2FTS



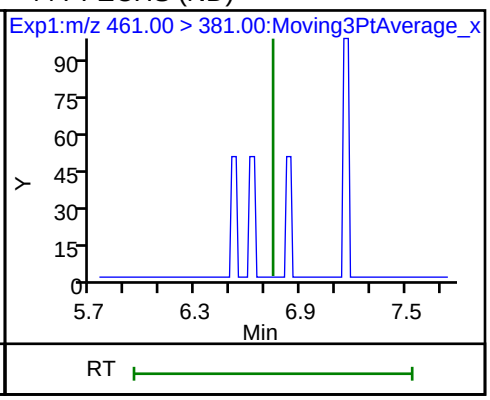
46 8:2FTS (ND)



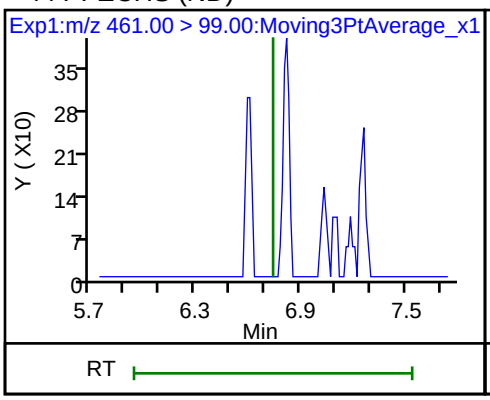
46 8:2FTS (ND)



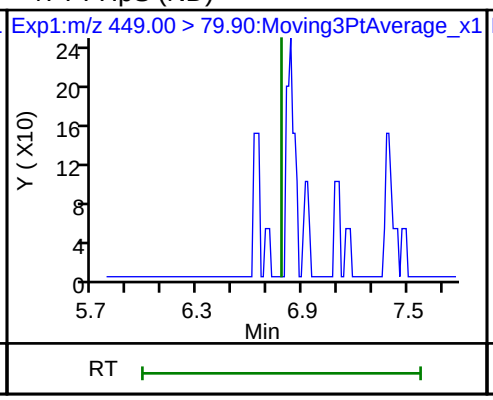
44 PFECHS (ND)



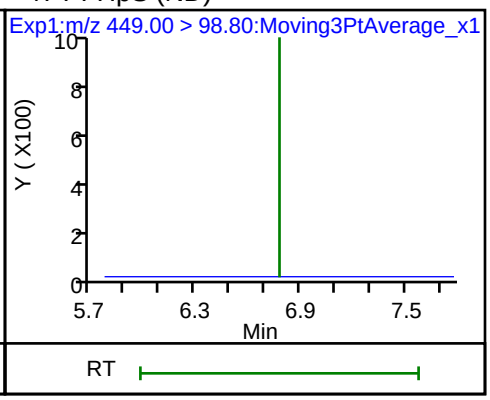
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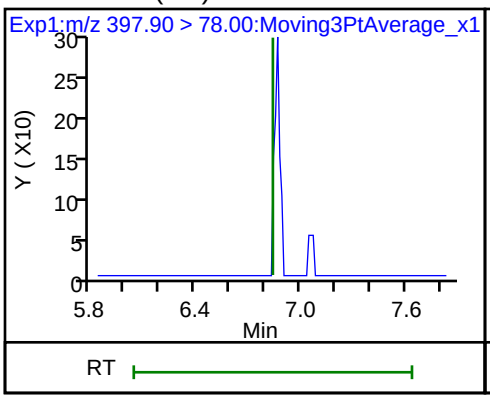
47 PFHpS (ND)



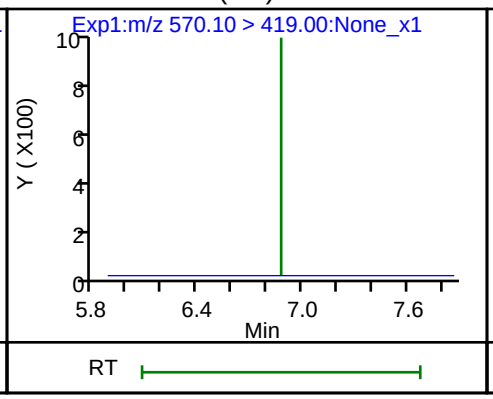
47 PFHpS (ND)



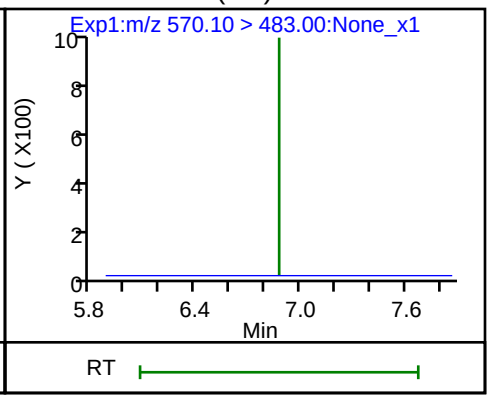
48 FHxSA (ND)



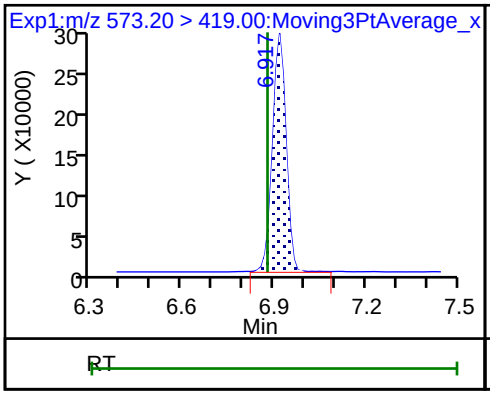
50 NMeFOSAA (ND)



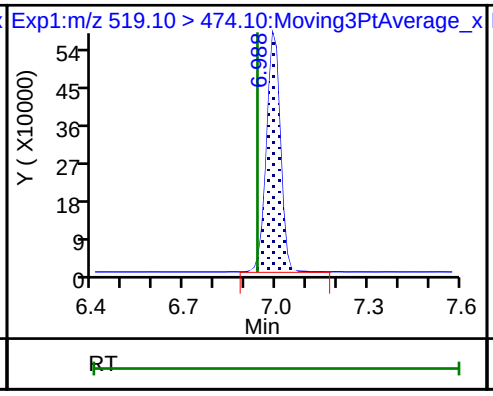
50 NMeFOSAA (ND)



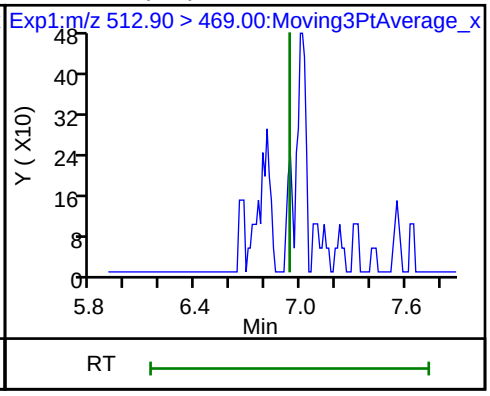
D 49 d3-NMeFOSAA



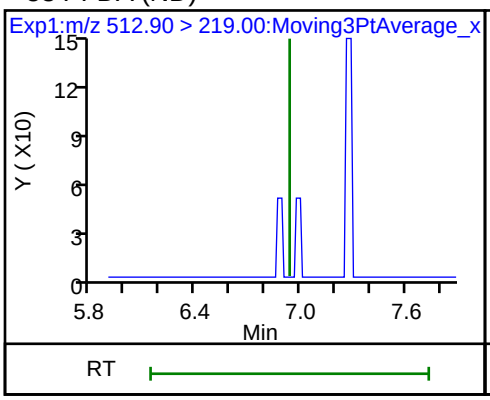
D 51 13C6 PFDA



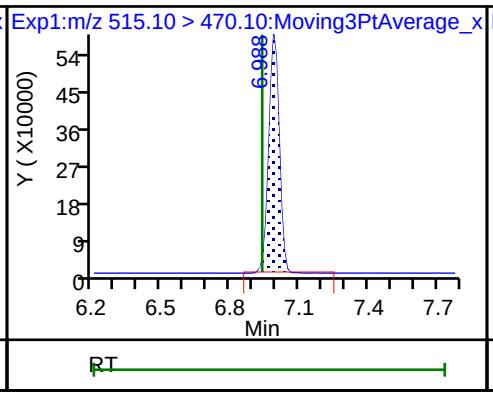
53 PFDA (ND)



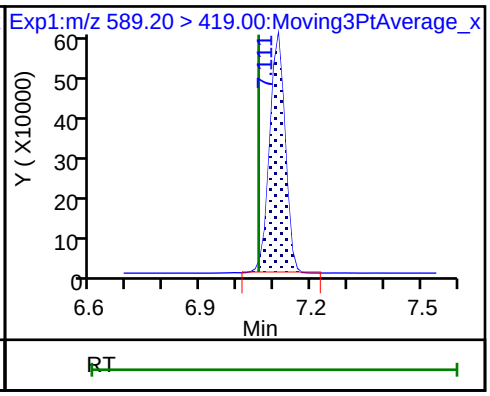
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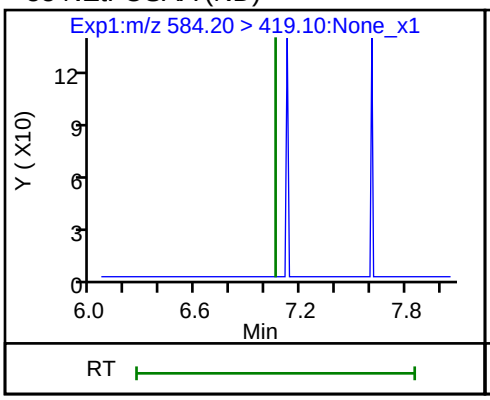
* 52 13C2 PFDA



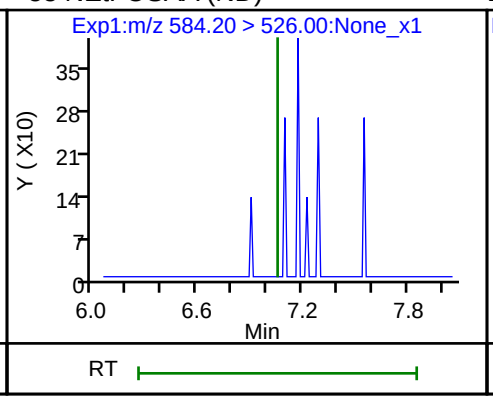
D 54 d5-NEtFOSAA



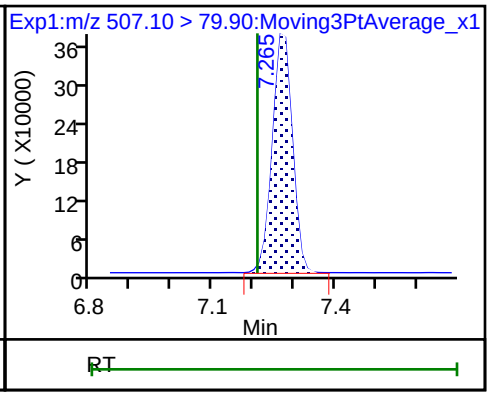
55 NEtFOSAA (ND)



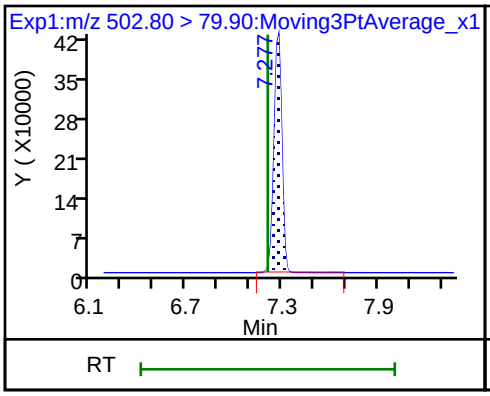
55 NEtFOSAA (ND)



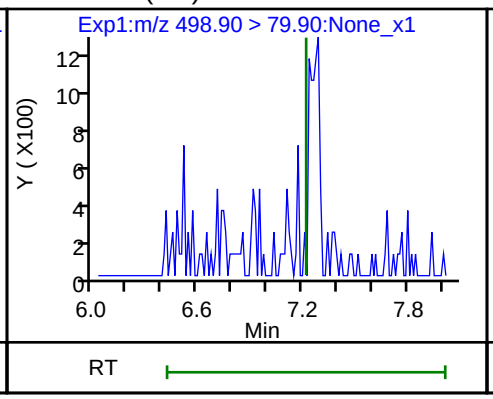
D 56 13C8 PFOS



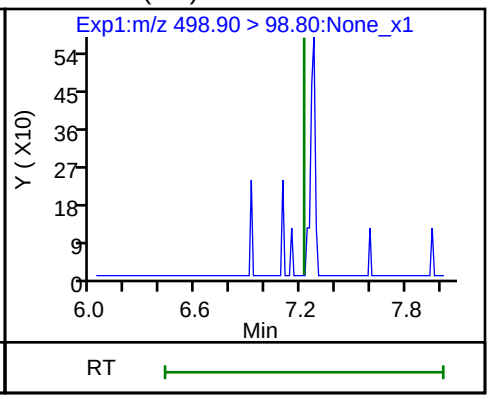
* 57 13C4 PFOS



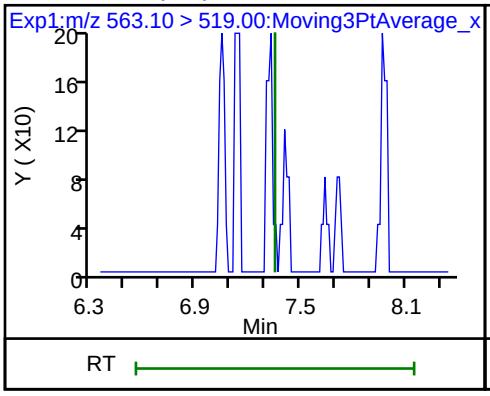
58 PFOS (ND)



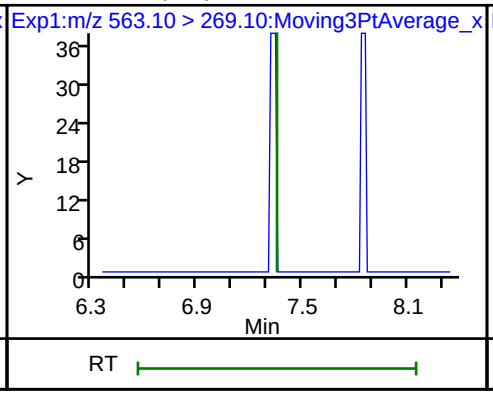
58 PFOS (ND)



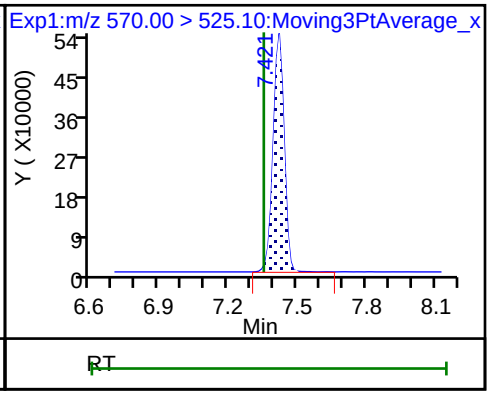
60 PFUnA (ND)



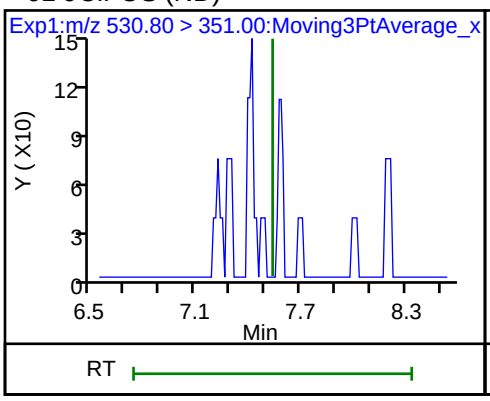
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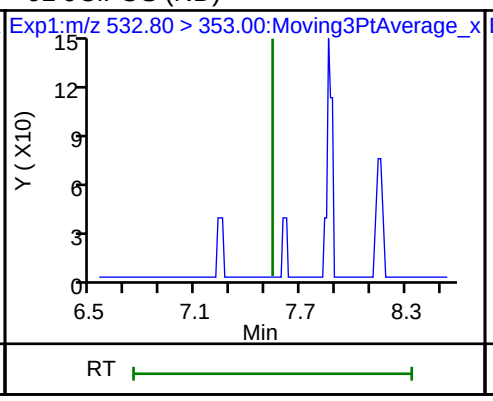
D 59 13C7 PFUnA



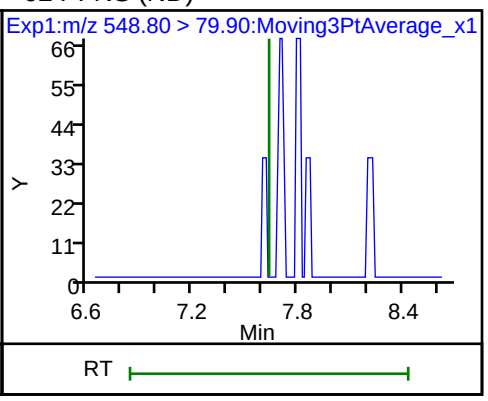
61 9ClFOS (ND)



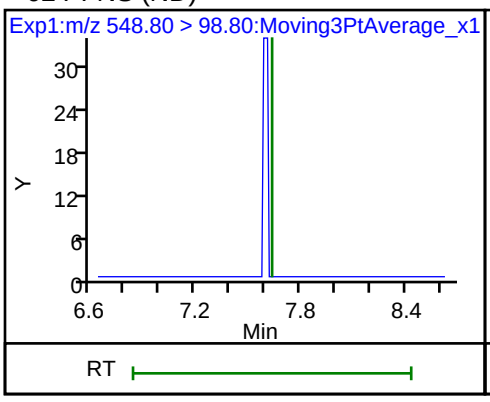
61 9ClFOS (ND)



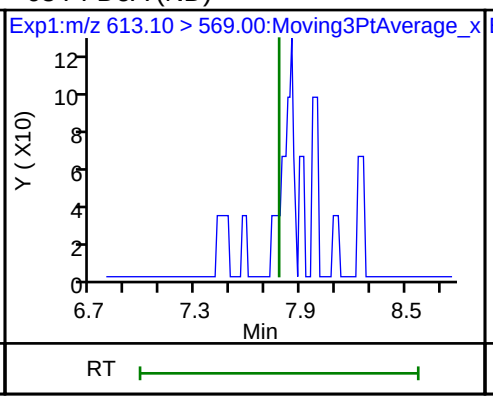
62 PFNS (ND)



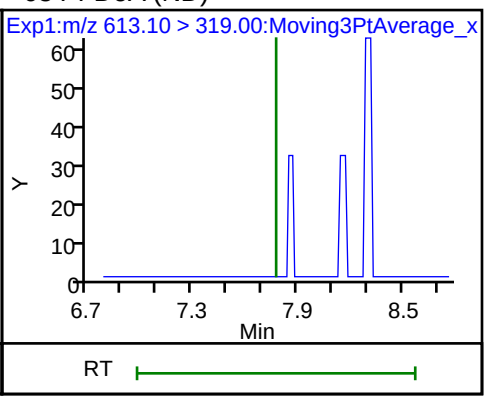
62 PFNS (ND)



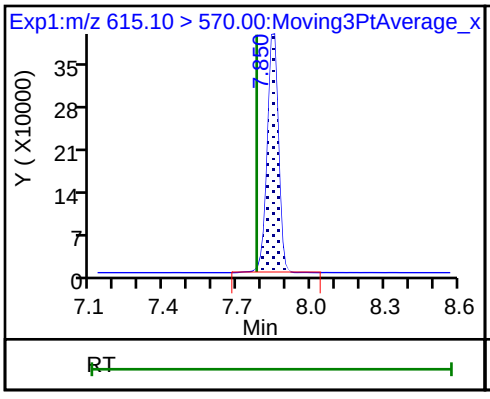
63 PFDoA (ND)



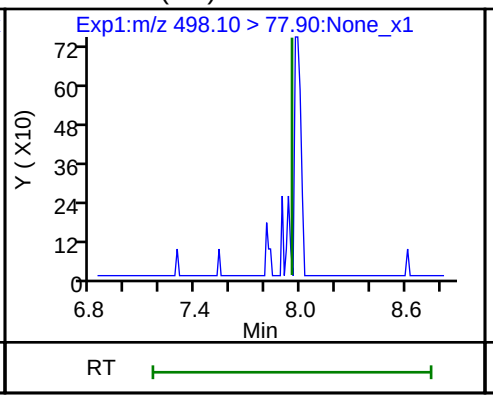
63 PFDoA (ND)



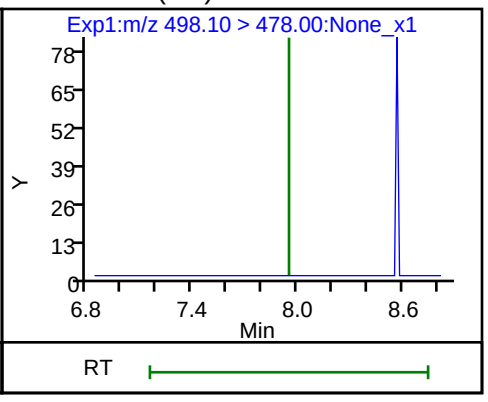
D 82 PFDoA



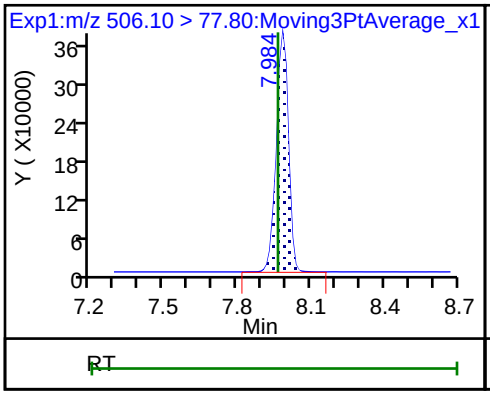
65 PFOSA (ND)



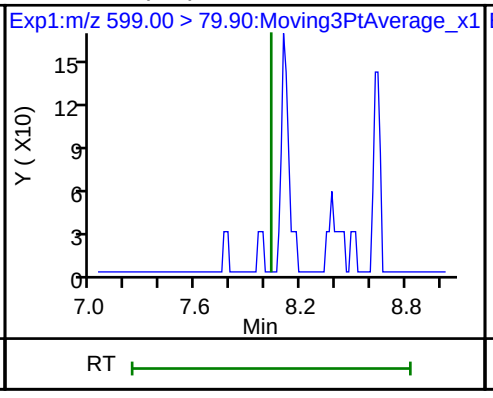
65 PFOSA (ND)



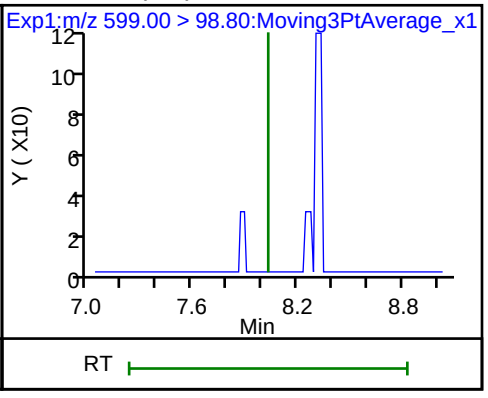
D 64 13C8 FOSA



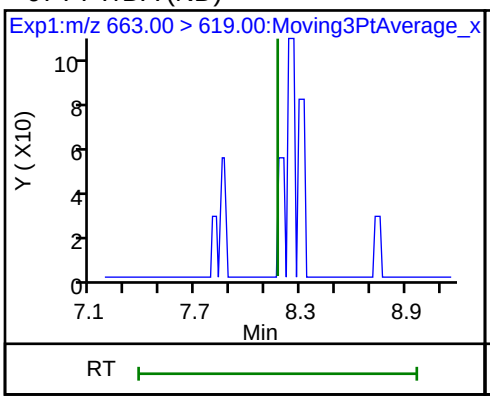
66 PFDS (ND)



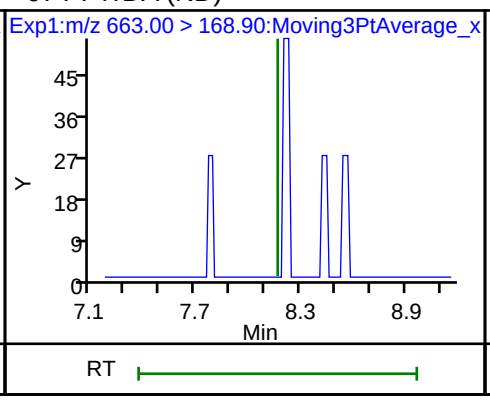
66 PFDS (ND)



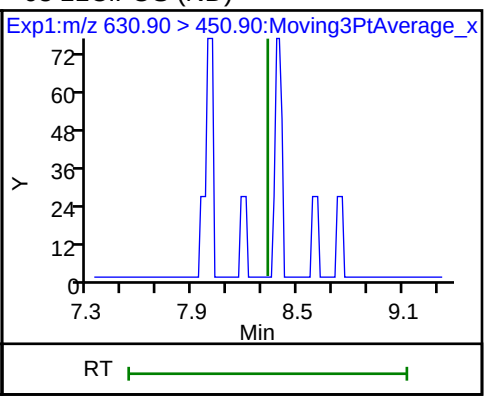
67 PFTrDA (ND)



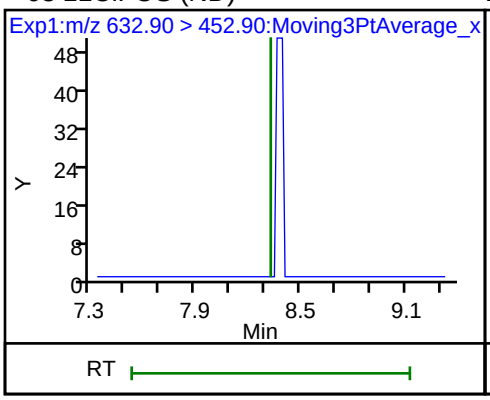
67 PFTrDA (ND)



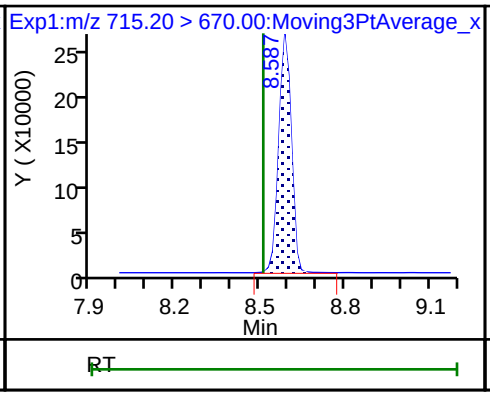
68 11ClFOS (ND)



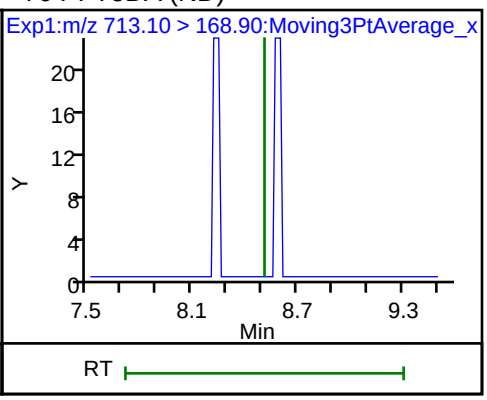
68 11ClFOS (ND)



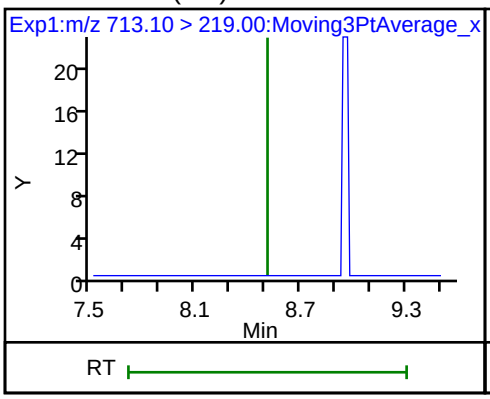
D 69 13C2 PFTeDA



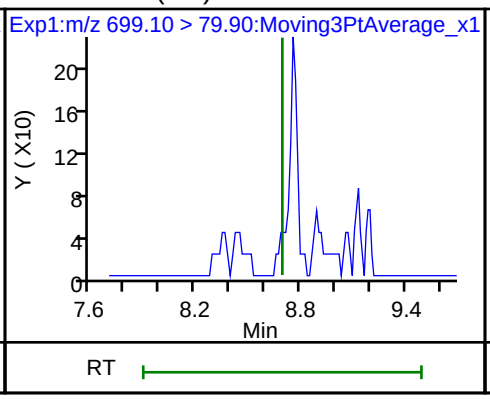
70 PFTeDA (ND)



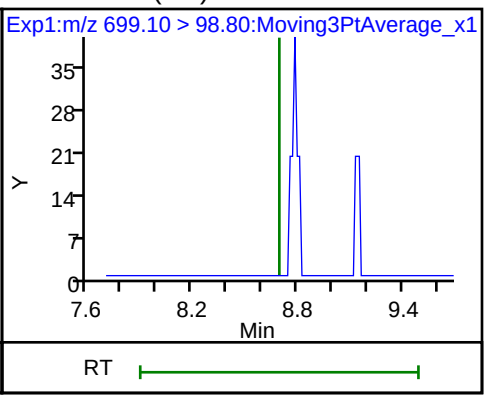
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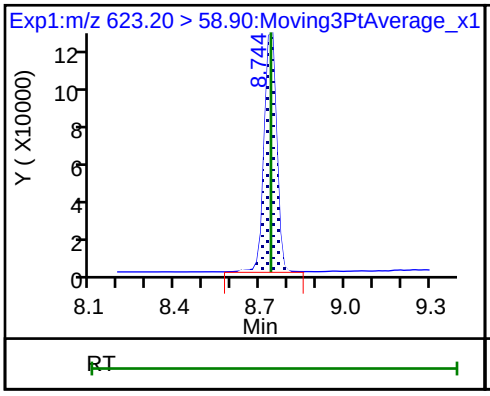
73 PFDoS (ND)



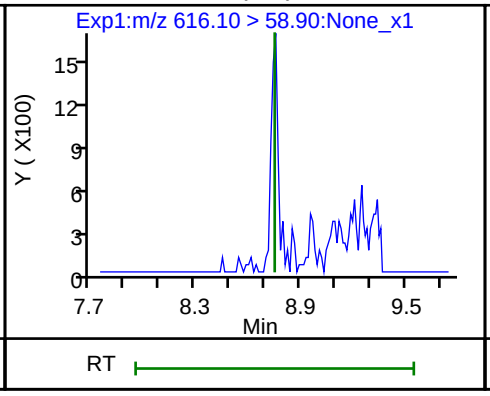
73 PFDoS (ND)



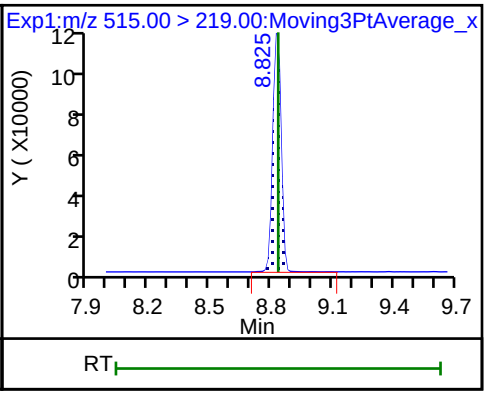
D 71 d7-N-Me-FOSE



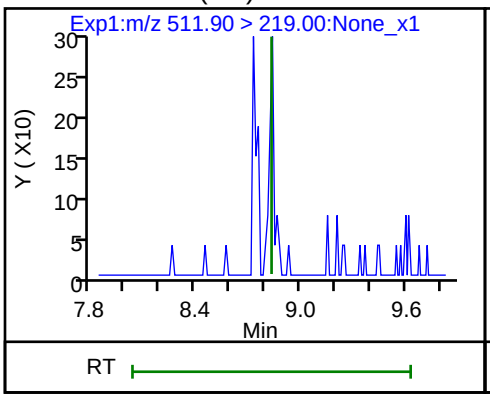
72 N-MeFOSE-M (ND)



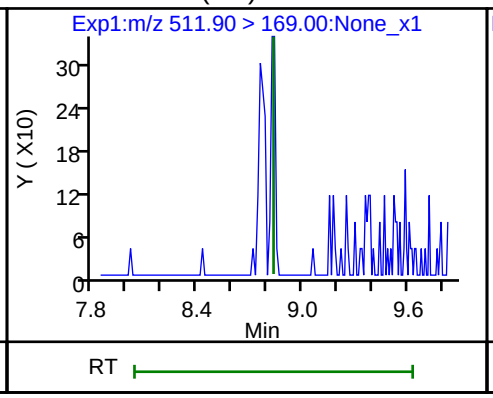
D 74 d3-NMePFOSA



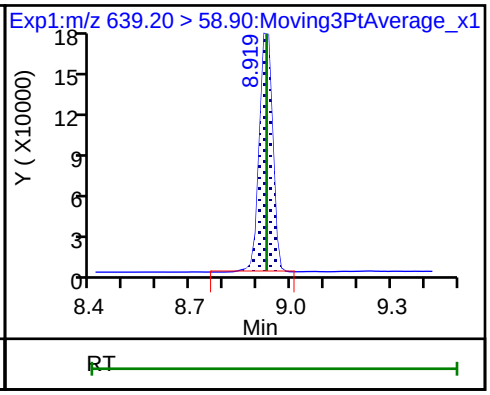
75 NMeFOSA (ND)



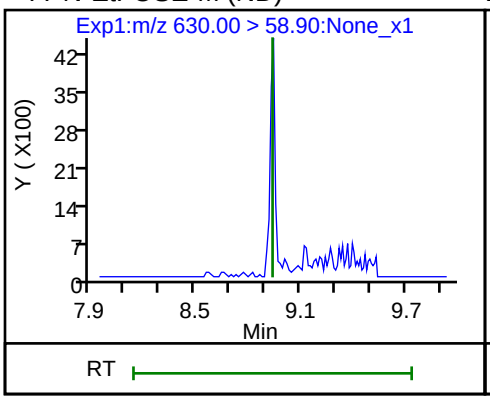
75 NMeFOSA (ND)



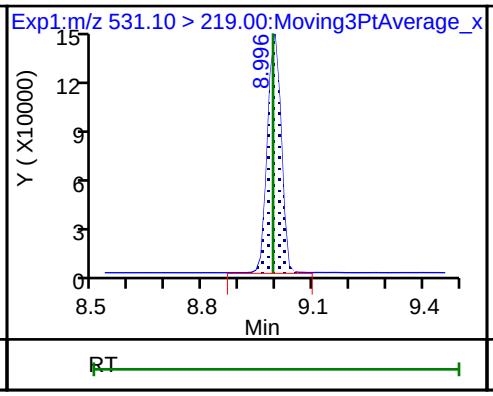
D 76 d9-N-EtFOSE



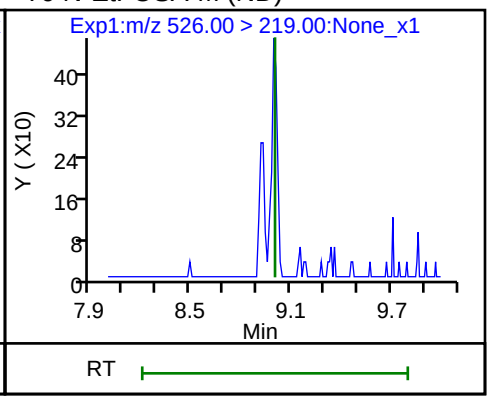
77 N-EtFOSE-M (ND)



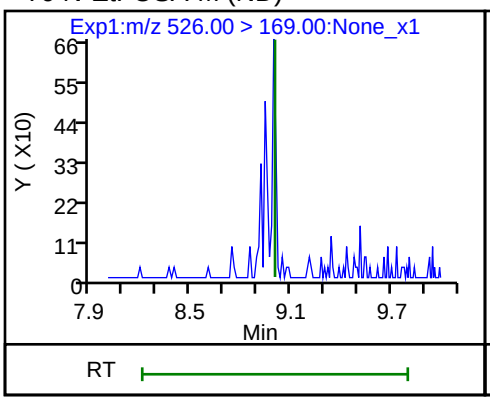
D 78 d5-NEtPFOSA



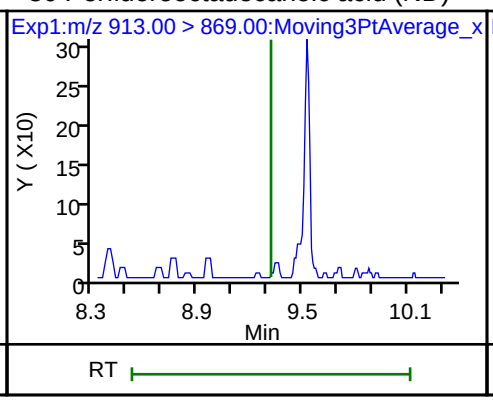
79 N-EtFOSA-M (ND)



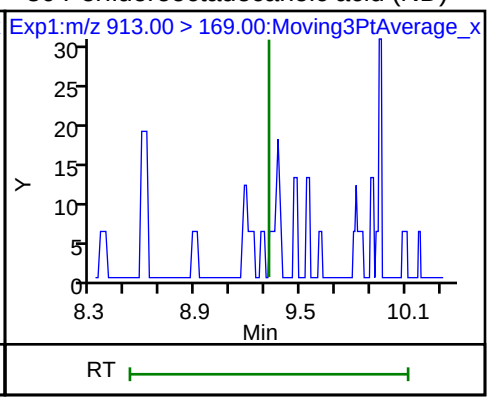
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

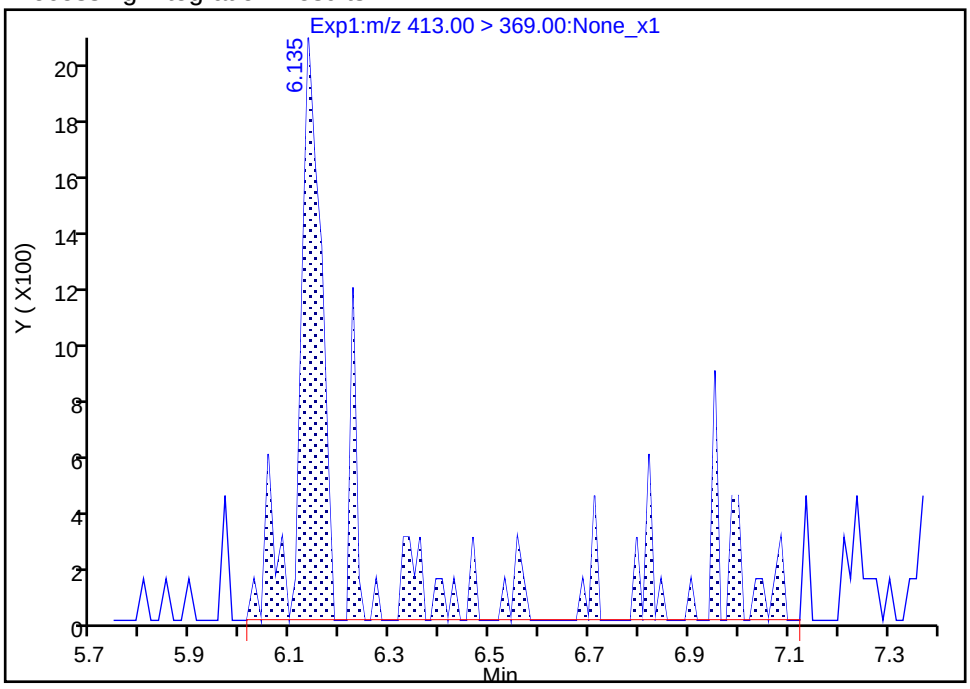
Data File:	\\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-01.d				
Injection Date:	02-Feb-2026 21:16:34	Instrument ID:	30576		
Lims ID:	MB 410-763508/8-A				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	42	Worklist Smp#:	42
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 1

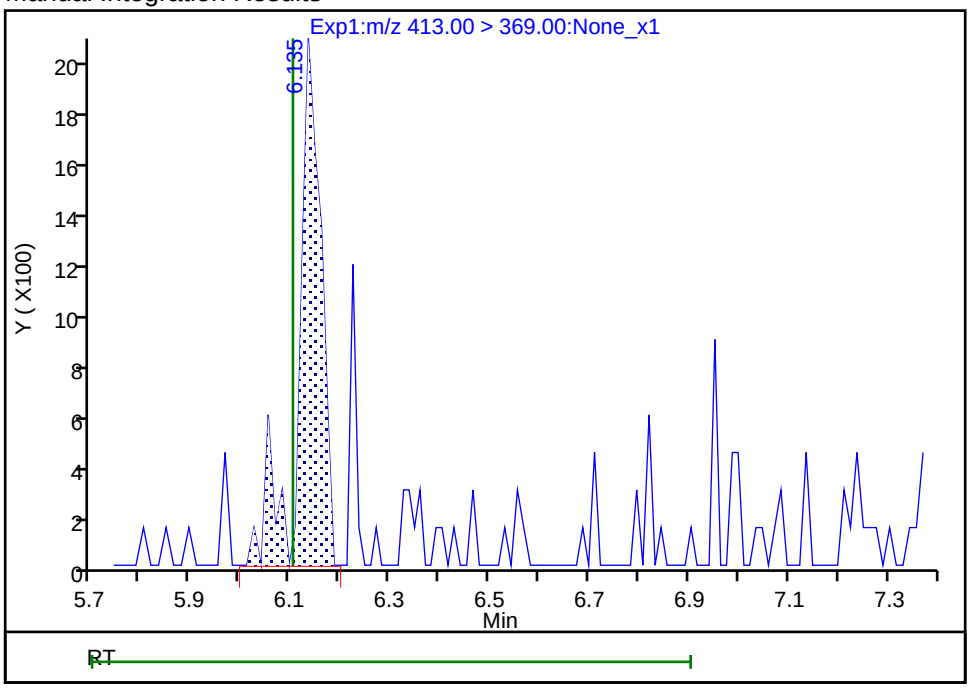
Processing Integration Results

RT: 6.14
Area: 12173
Amount: 0.017037
Amount Units: ng/ml



Manual Integration Results

RT: 6.14
Area: 6379
Amount: 0.008928
Amount Units: ng/ml



Reviewer: VGQ7, 03-Feb-2026 11:13:58 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-764041/1-A

Matrix: Solid
Lab File ID: 26Feb04SD-53.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.00(g)
Date Analyzed: 02/04/2026 18:24

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.40	U	0.40	0.10
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.10
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.10
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.060
375-95-1	Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.10
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.060
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.10
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.10
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.10
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.10
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.10
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.10
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.10
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.10
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.10
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.10
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.10
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.10
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.40	U	0.40	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.40	U	0.40	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.40	U	0.40	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.10
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.10
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-764041/1-A

Matrix: Solid
Lab File ID: 26Feb04SD-53.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.00(g)
Date Analyzed: 02/04/2026 18:24

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.10
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.00	U	1.00	0.50
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.00	U	1.00	0.50
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.20	0.10
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.20	0.10
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	0.20	0.10
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	0.20	0.10
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.20	U	0.20	0.10
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.20	U	0.20	0.10
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.20	U	0.20	0.10
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.20	U	0.20	0.10
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.40	U	0.40	0.20
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.00	U	1.00	0.50
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.00	U	1.00	0.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-764041/1-A

Matrix: Solid Lab File ID: 26Feb04SD-53.d

Analysis Method: 1633A Date Collected:

Extraction Method: 1633A Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.00(g) Date Analyzed: 02/04/2026 18:24

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500 Units: ug/Kg

Preparation Batch No.: 764041 Instrument ID: 30575

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	104		8-130
2283397-79-3	13C5 PFPeA	102		35-130
2328024-54-8	13C5 PFHxA	108		40-130
2328024-55-9	13C4 PFHpA	102		40-130
1350614-84-4	13C8 PFOA	110		40-130
2283397-80-6	13C9 PFNA	94.5		40-130
2328024-56-0	13C6 PFDA	88.5		40-130
STL02580	13C7 PFUnA	74.9		40-130
STL02116	13C2 PFTeDA	57.0		20-130
2708218-83-9	13C3 PFBS	118		40-135
2708218-85-1	13C3 PFHxS	109		40-130
2265893-05-6	13C8 PFOS	80.6		40-130
STL01056	13C8 FOSA	78.9		40-130
1400690-70-1	d3-NMeFOSAA	73.2		40-135
1265205-97-7	d5-NEtFOSAA	66.9		40-150
STL02395	13C2 4:2 FTS	107		40-165
STL02279	13C2 6:2 FTS	118		40-215
STL02280	13C2 8:2 FTS	106		40-275
STL02255	13C3 HFPO-DA	110		40-130
STL02277	d7-N-MeFOSE-M	49.8		20-130
STL02278	d9-N-EtFOSE-M	47.1		15-130
STL02704	d5-NEtPFOSA	46.5		10-130
STL02705	d3-NMePFOSA	53.2		10-130
960315-52-0	13C2 PFDoA	63.3		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-53.d
Lims ID: MB 410-764041/1-A
Client ID:
Sample Type: MB
Inject. Date: 04-Feb-2026 18:24:20 ALS Bottle#: 36 Worklist Smp#: 136
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-764041/1-A
Misc. Info.: Plate: 1 Rack: 1 410-0174617-136
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 21:19:45 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 19:22:34
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C3PFPrA 166.00 > 121.00	2.067	2.114	-0.047	0.472	1624229	1.88		93.8	1231	
D 6 13C4-PFBA 216.80 > 171.90	4.379	4.338	0.041	1.000	2988492	2.07		104	8311	
* 7 13C3PFBA 216.00 > 172.00	4.379	4.338	0.041		2388369	2.00			7944	
D 11 13C5 PFPeA 268.30 > 223.00	4.994	4.955	0.039	0.915	2138347	2.04		102	6092	
D 14 13C2-4:2FTS 329.10 > 80.90	5.276	5.240	0.036	0.817	1106655	5.01		107	5944	
D 17 13C5 PFHxA 318.00 > 273.00	5.459	5.418	0.041	1.000	3203042	2.17		108	16068	
* 18 13C2 PFHxA 315.10 > 270.00	5.459	5.432	0.027		6392003	5.00			24510	
D 20 13C3 PFBS 302.10 > 79.90	5.583	5.568	0.015	0.864	2446485	2.20		118	9702	
D 23 13C3 HFPO-DA 286.90 > 168.90	5.641	5.611	0.030	1.033	2226479	2.20		110	6774	
D 26 13C4 PFHpA 367.10 > 322.00	5.869	5.845	0.024	1.075	2957230	2.04		102	7531	
D 30 13C2-6:2FTS 429.10 > 80.90	6.055	6.033	0.022	0.937	736322	5.62		118	5306	
D 35 13C8 PFOA 421.10 > 376.00	6.245	6.233	0.012	1.000	3679275	2.20		110	7865	
* 34 13C4 PFOA 417.10 > 372.00	6.245	6.233	0.012		8364991	5.00			10058	
* 38 18O2 PFHxS 403.00 > 83.90	6.460	6.460	0.0		1656169	1.90			6672	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 37 13C3 PFHxS 402.10 > 79.90	6.460	6.460	0.0	1.000	1814288	2.07		109	8352	
D 42 13C9 PFNA 472.10 > 427.00	6.632	6.620	0.012	1.000	3167472	1.89		94.5	6770	
* 41 13C5 PFNA 468.00 > 423.00	6.632	6.620	0.012		3337146	2.00			8902	
D 44 13C2-8:2FTS 529.10 > 80.90	6.789	6.790	-0.001	1.051	648523	5.08		106	183235	
D 48 d3-NMeFOSAA 573.20 > 419.00	6.952	6.940	0.012	0.960	1279742	3.66		73.2	2448	
D 50 13C6 PFDA 519.10 > 474.10	7.001	7.015	-0.014	1.000	2936850	1.77		88.5	9528	
* 52 13C2 PFDA 515.10 > 470.10	7.001	7.015	-0.014		3253319	2.00			9398	
D 54 d5-NEtFOSAA 589.20 > 419.00	7.110	7.124	-0.014	0.982	1032275	3.34		66.9	2150	
D 56 13C8 PFOS 507.10 > 79.90	7.243	7.267	-0.024	1.000	1342188	1.54		80.6	1849	
* 57 13C4 PFOS 502.80 > 79.90	7.243	7.267	-0.024		1799976	1.92			13801	
D 59 13C7 PFUnA 570.00 > 525.10	7.387	7.409	-0.022	1.055	2987628	1.50		74.9	6562	
D 81 PFDoA 615.10 > 570.00	7.772	7.801	-0.029	1.110	2238847	1.27		63.3	10381	
D 65 13C8 FOSA 506.10 > 77.80	7.978	7.957	0.021	1.102	1694567	1.58		78.9	5254	
D 69 13C2 PFTeDA 715.20 > 670.00	8.451	8.494	-0.043	1.207	1112340	1.14		57.0	5825	
D 71 d7-N-Me-FOSE 623.20 > 58.90	8.736	8.723	0.013	1.206	391973	2.49		49.8	310	
D 74 d3-NMePFOSA 515.00 > 219.00	8.824	8.809	0.015	1.218	259841	1.06		53.2	2321	
D 76 d9-N-EtFOSE 639.20 > 58.90	8.925	8.897	0.028	1.232	376582	2.35		47.1	664	
D 78 d5-NEtPFOSA 531.10 > 219.00	8.994	8.967	0.027	1.242	277285	0.9309		46.5	1820	

QC Flag Legend

Processing Flags

Reagents:

1633_125_IS_V_00592 Amount Added: 50.00 Units: uL

Report Date: 04-Feb-2026 21:22:19 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-53.d

Injection Date: 04-Feb-2026 18:24:20 Instrument ID: 30575

Lims ID: MB 410-764041/1-A

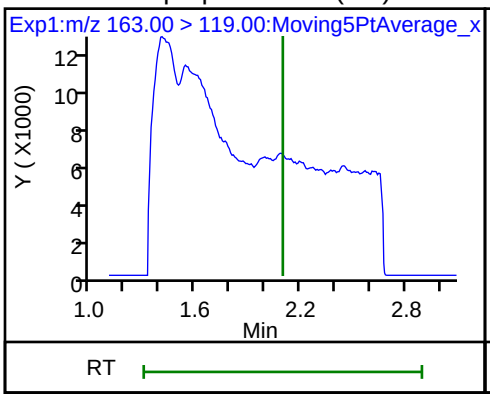
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 36 Worklist Smp#: 136

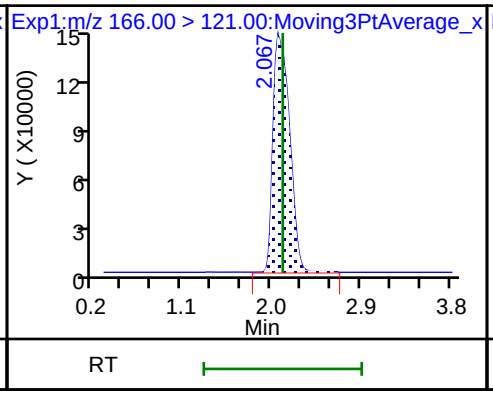
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

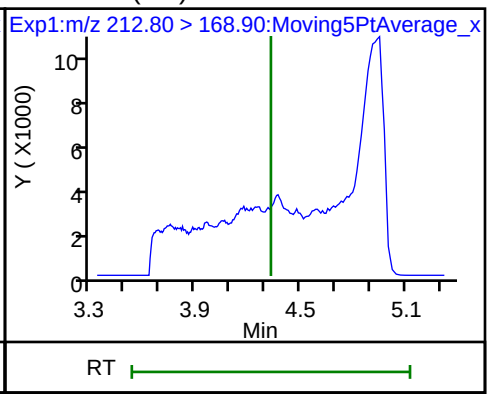
1 Perfluoropropionic acid (ND)



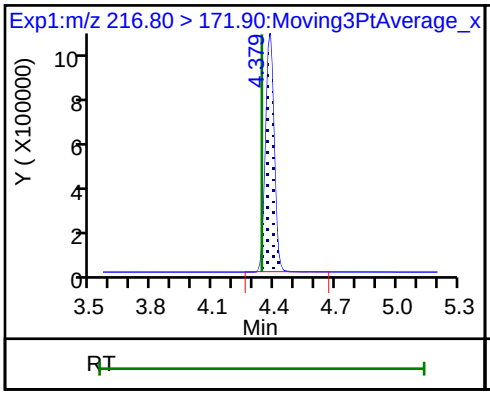
D 2 13C3PFPrA



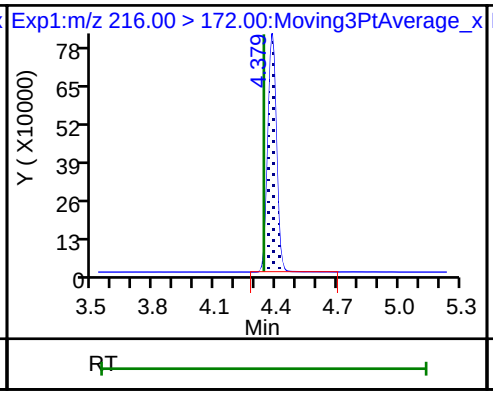
5 PFBA (ND)



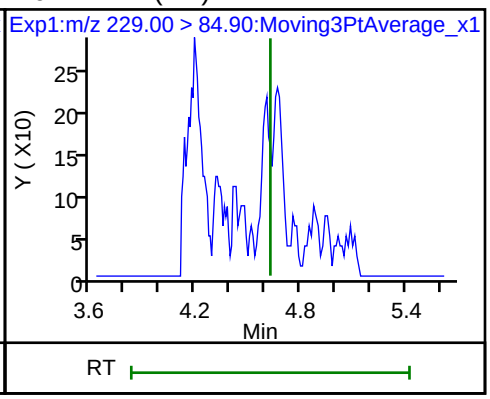
D 6 13C4-PFBA



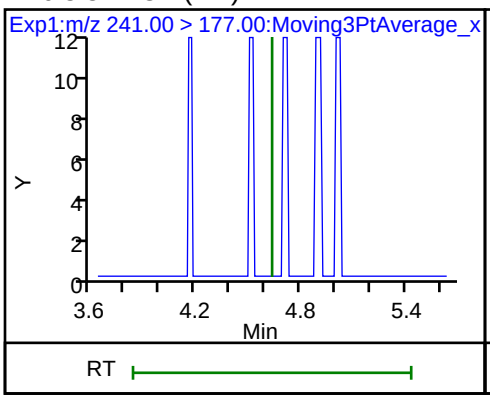
* 7 13C3PFBA



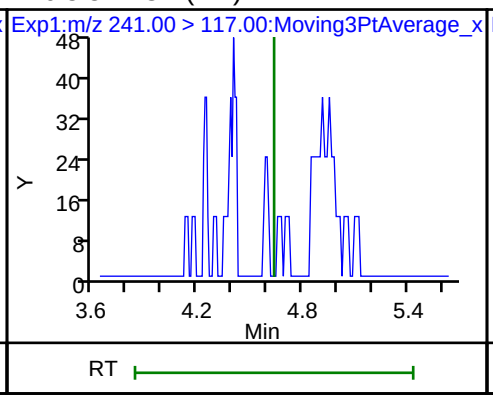
9 PFMPA (ND)



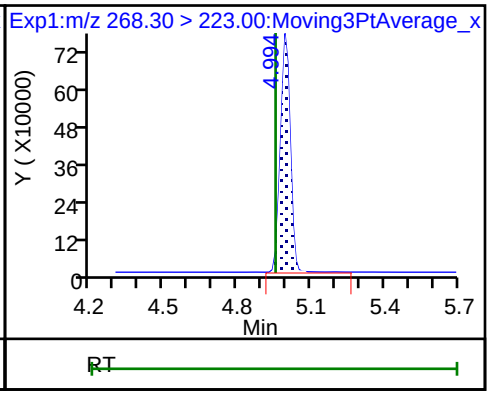
10 3:3 FTCA (ND)



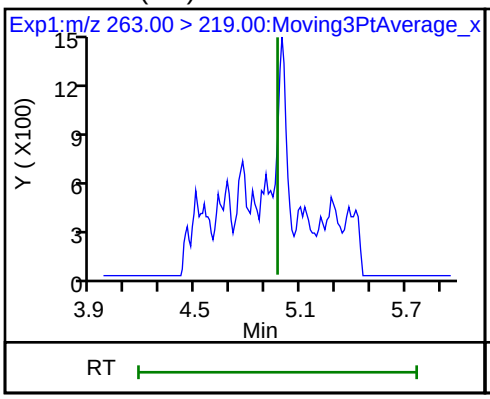
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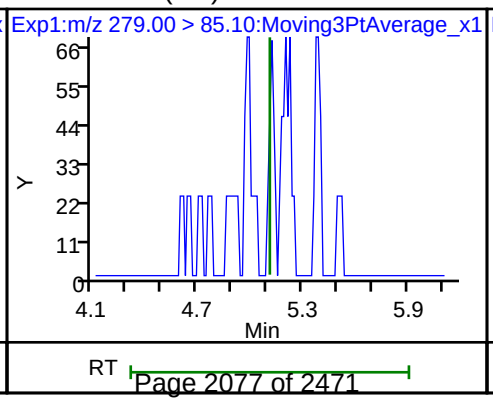
D 11 13C5 PFPeA



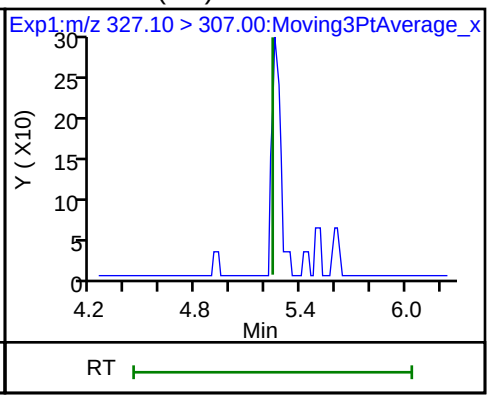
12 PFPA (ND)



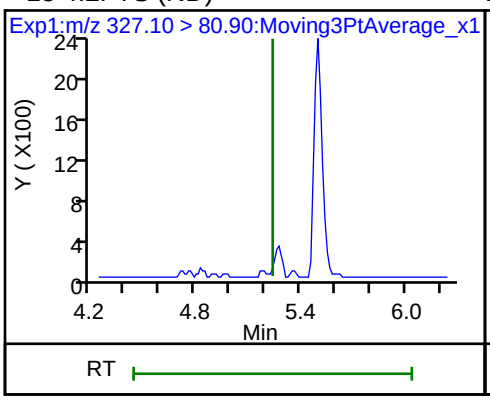
13 PFMBA (ND)



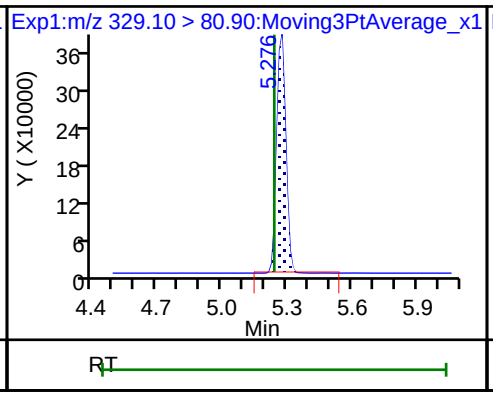
15 4:2FTS (ND)



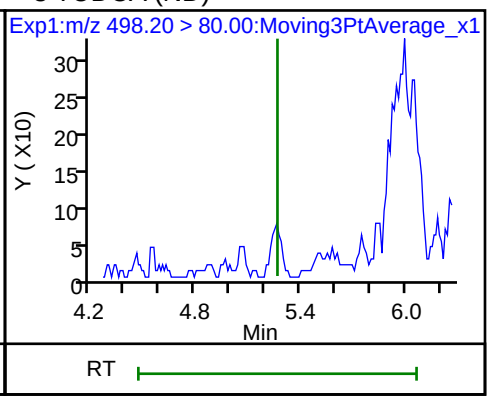
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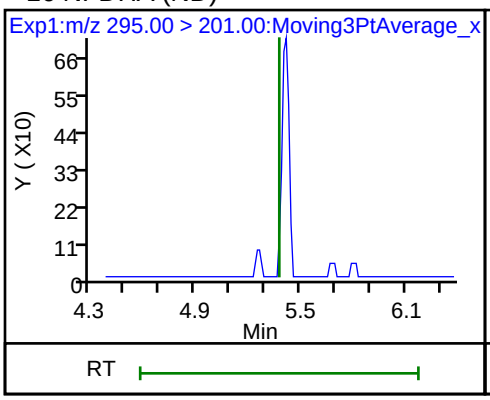
D 14 13C2-4:2FTS



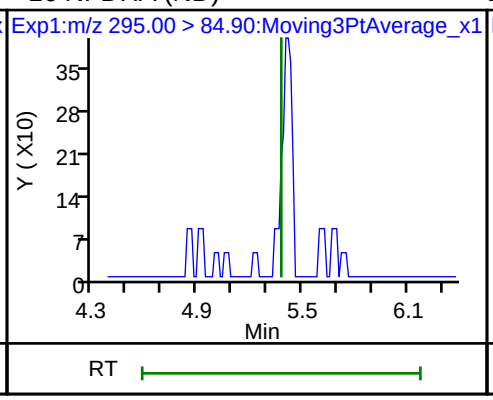
3 TUDCA (ND)



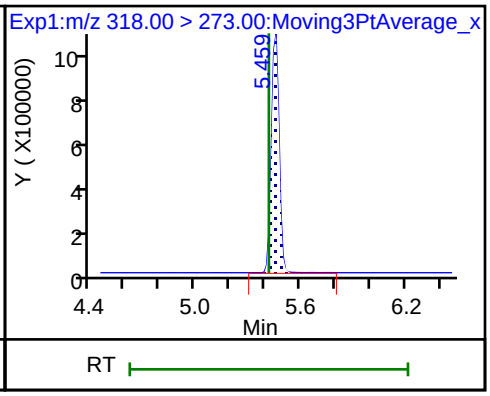
16 NFDHA (ND)



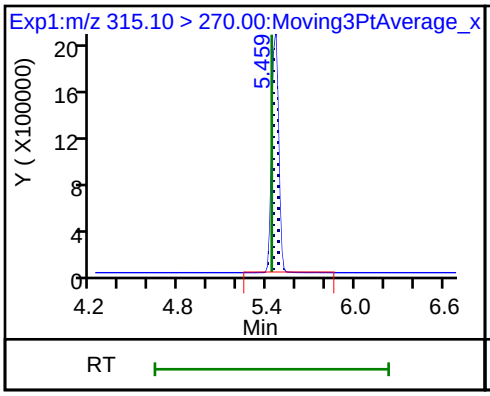
16 NFDHA (ND)



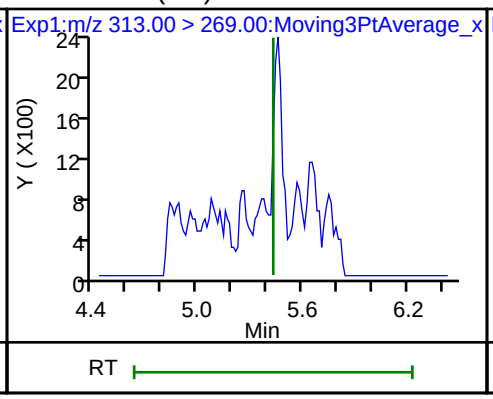
D 17 13C5 PFHxA



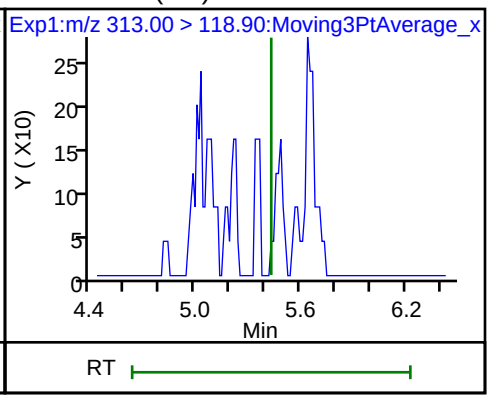
* 18 13C2 PFHxA



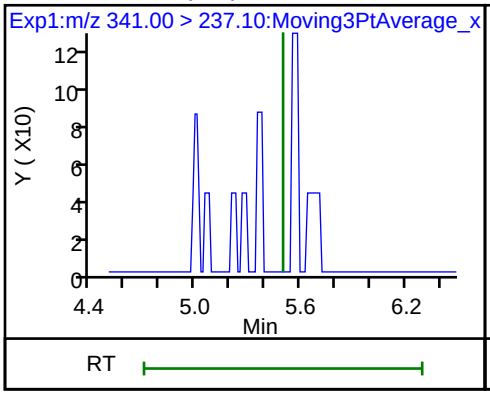
19 PFHxA (ND)



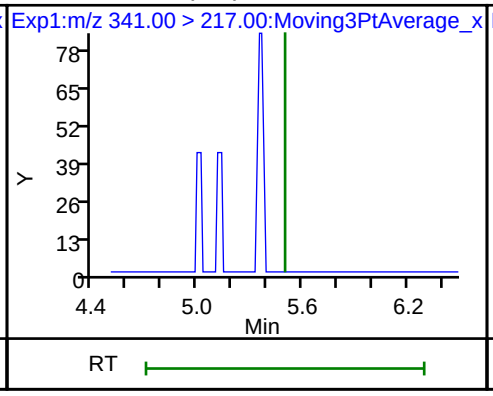
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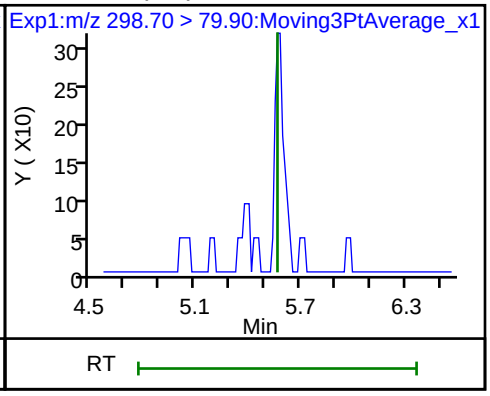
22 5:3 FTCA (ND)



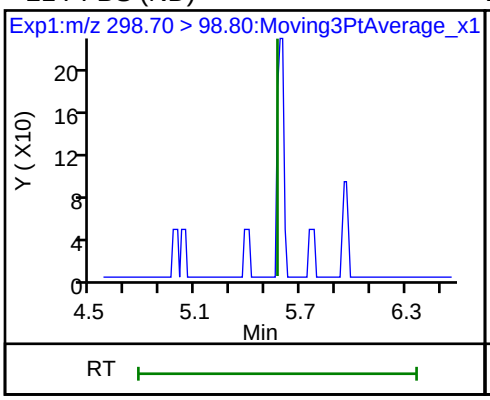
22 5:3 FTCA (ND)



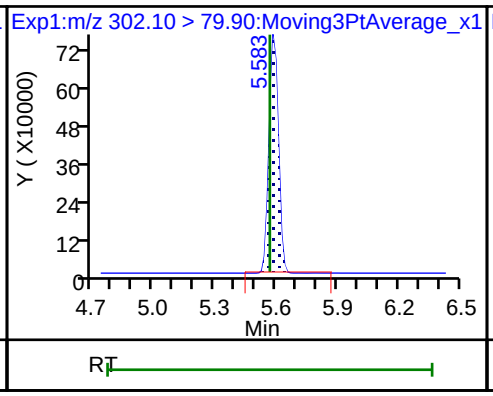
21 PFBS (ND)



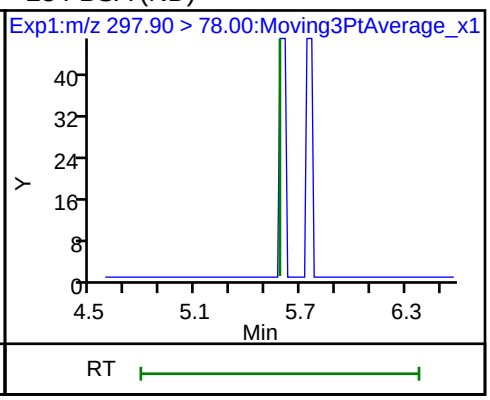
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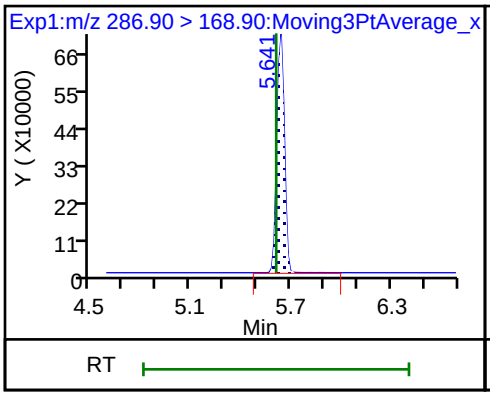
D 20 13C3 PFBS



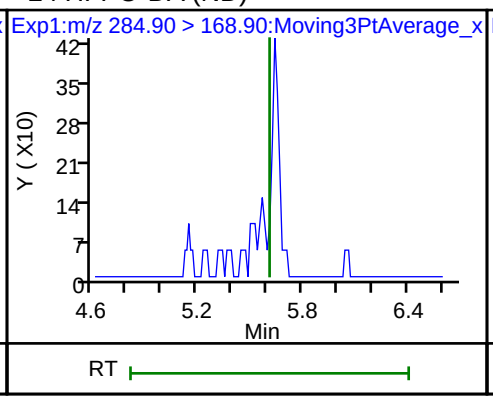
28 FBSA (ND)



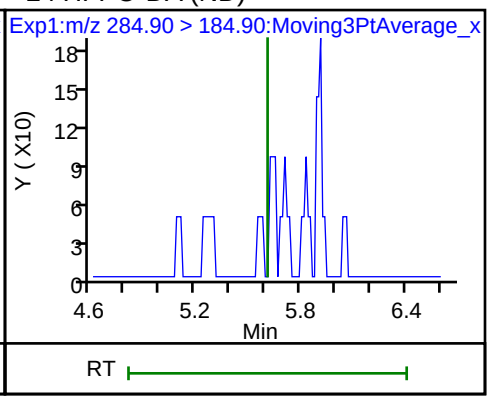
D 23 13C3 HFPO-DA



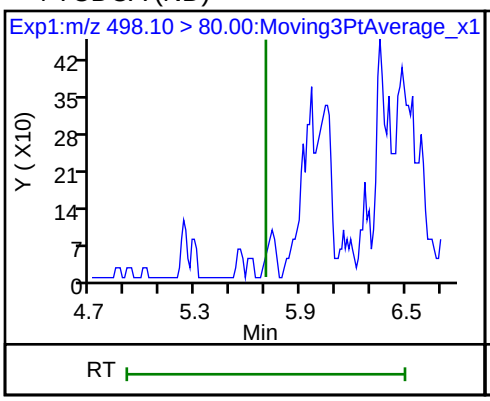
24 HFPO-DA (ND)



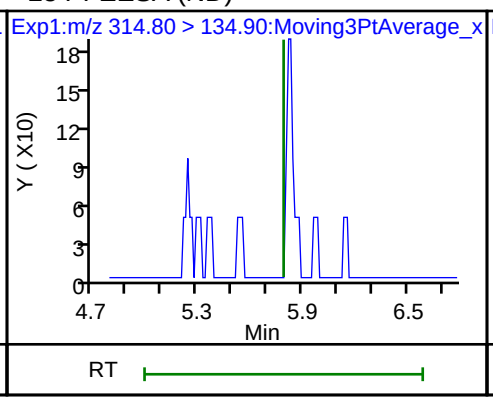
24 HFPO-DA (ND)



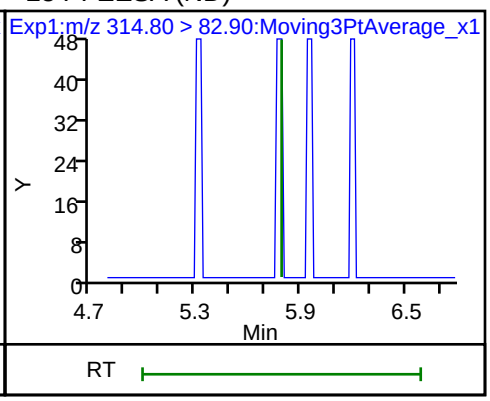
4 TCDCA (ND)



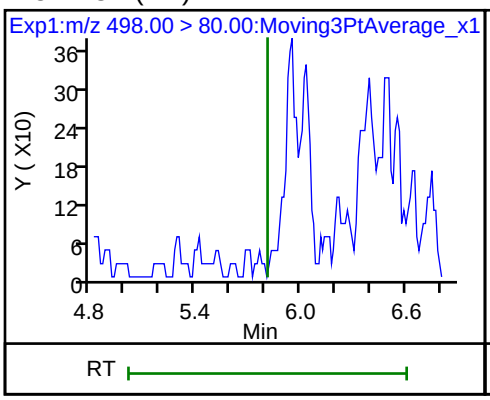
25 PFEESA (ND)



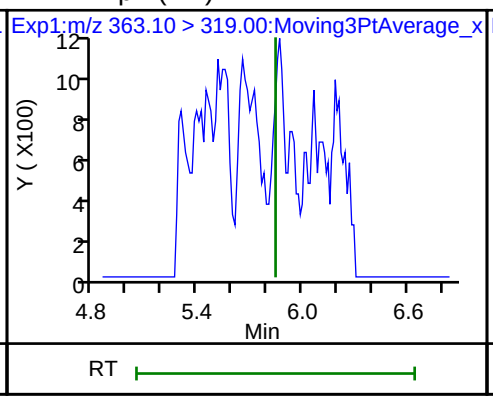
25 PFEESA (ND)



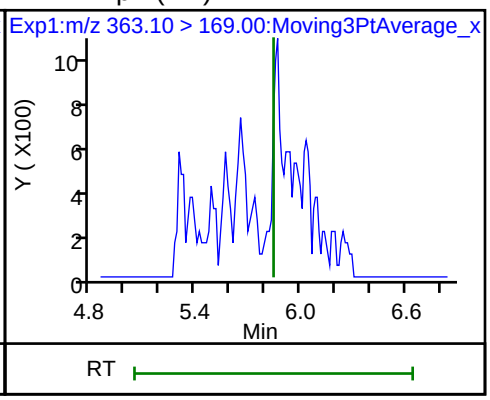
8 TDCA (ND)



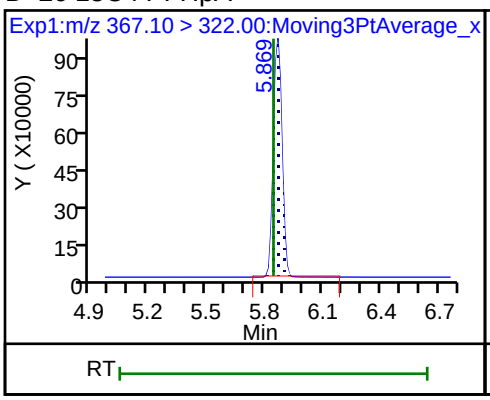
27 PFHpA (ND)



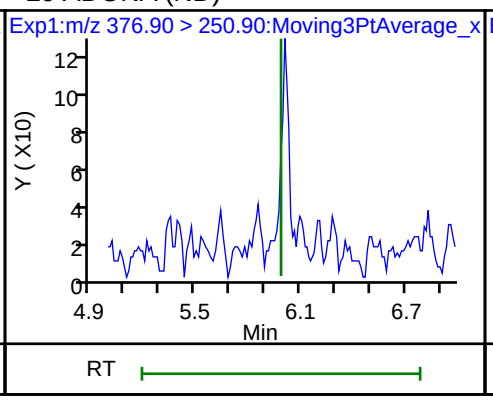
27 PFHpA (ND)



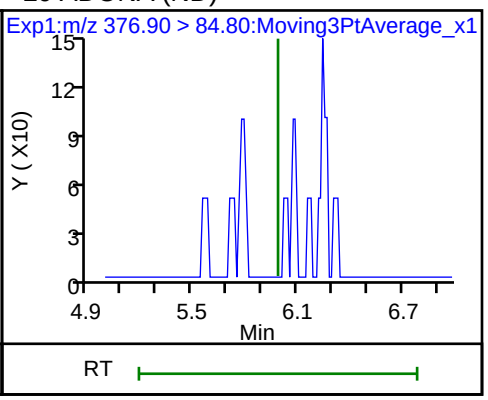
D 26 13C4 PFHpA



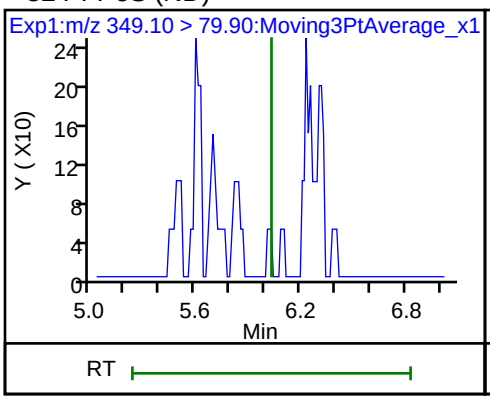
29 ADONA (ND)



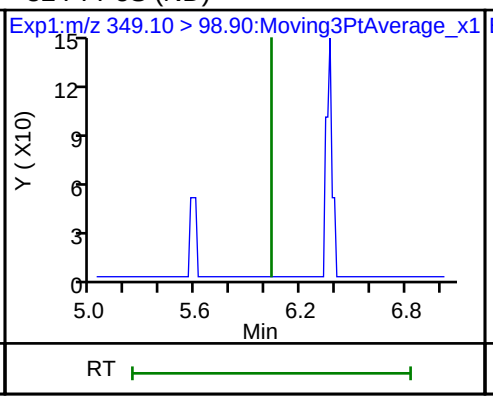
29 ADONA (ND)



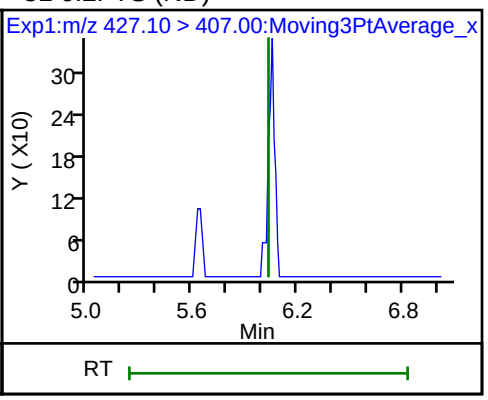
32 PFPeS (ND)



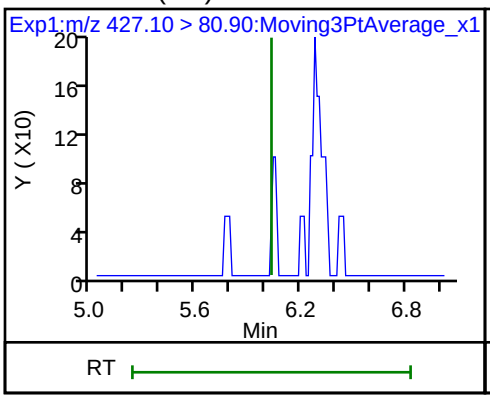
32 PFPeS (ND)



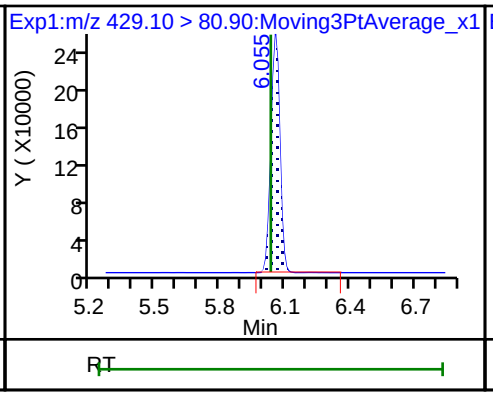
31 6:2FTS (ND)



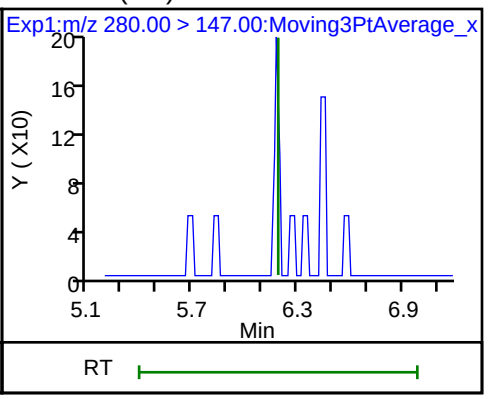
31 6:2FTS (ND)



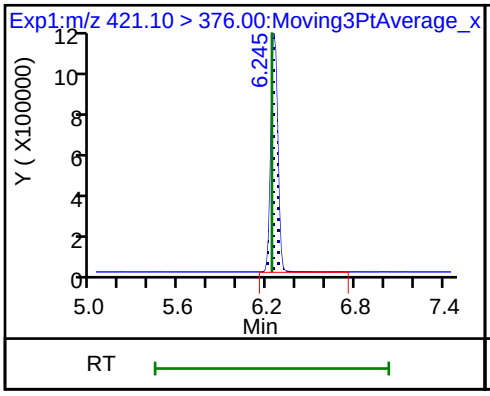
D 30 13C2-6:2FTS



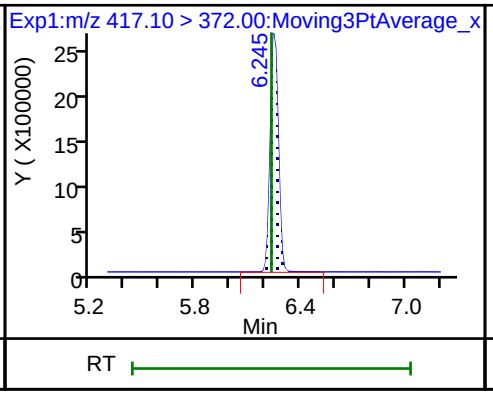
33 BTS (ND)



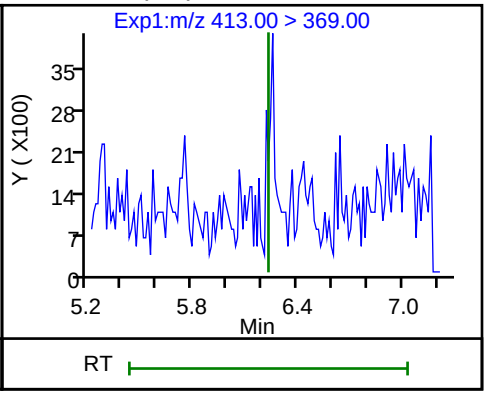
D 35 13C8 PFOA



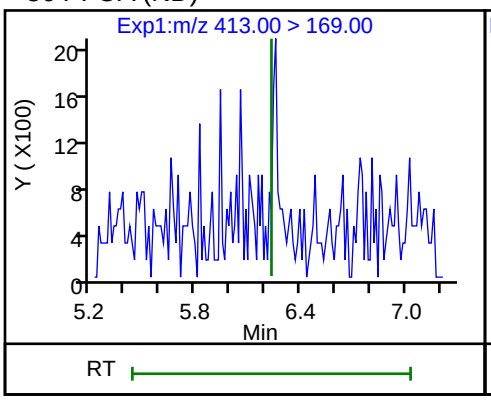
* 34 13C4 PFOA



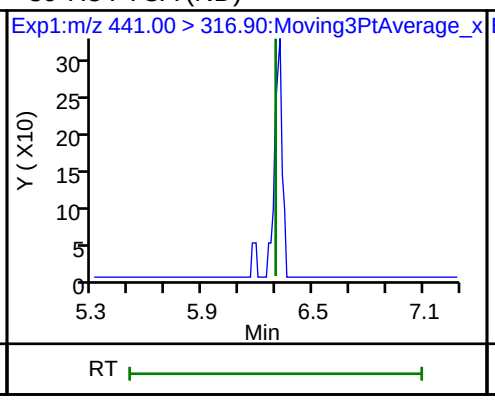
36 PFOA (ND)



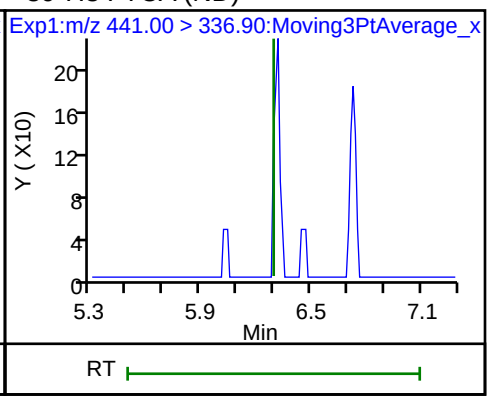
36 PFOA (ND)



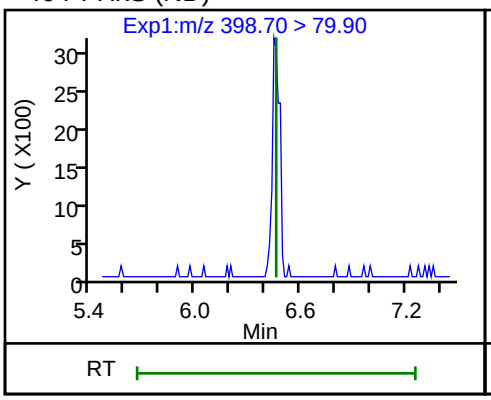
39 7:3 FTCA (ND)



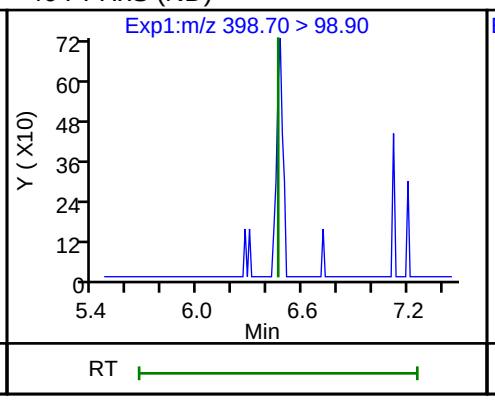
39 7:3 FTCA (ND)



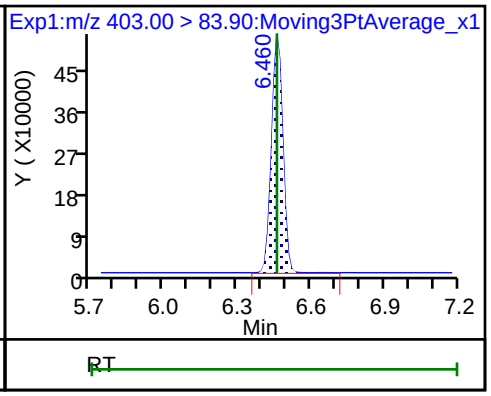
40 PFHxS (ND)



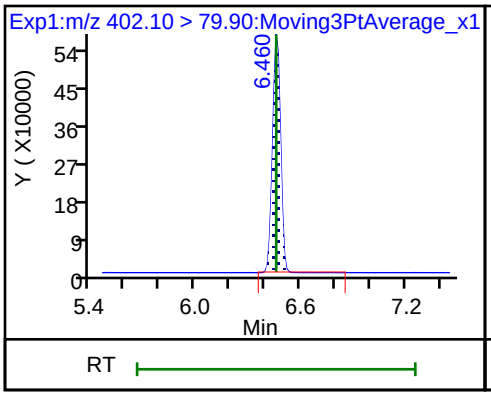
40 PFHxS (ND)



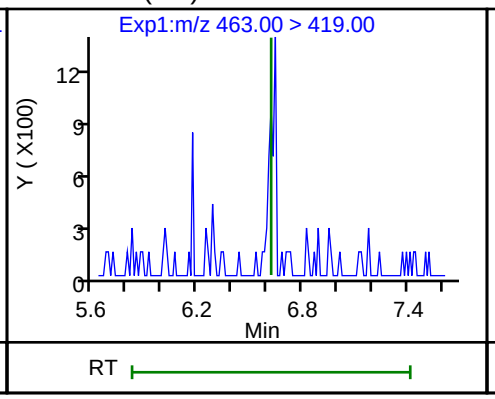
* 38 18O2 PFHxS



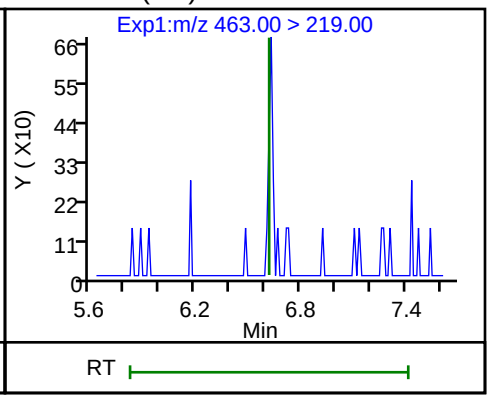
D 37 13C3 PFHxS



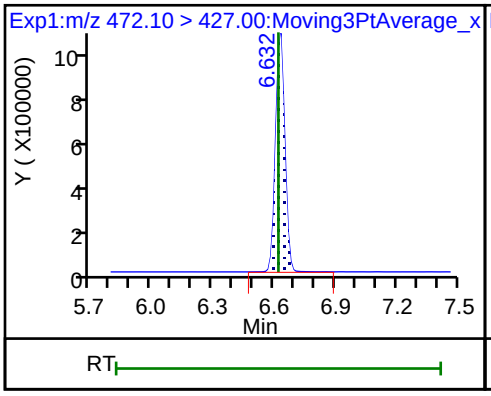
43 PFNA (ND)



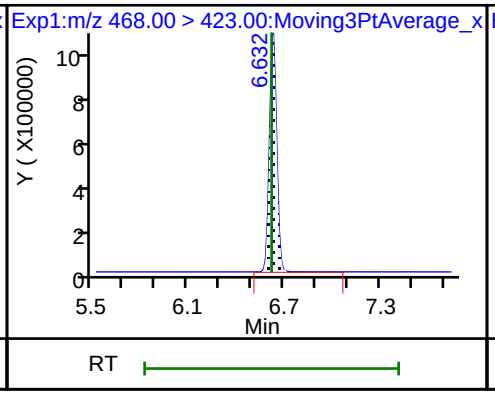
43 PFNA (ND)



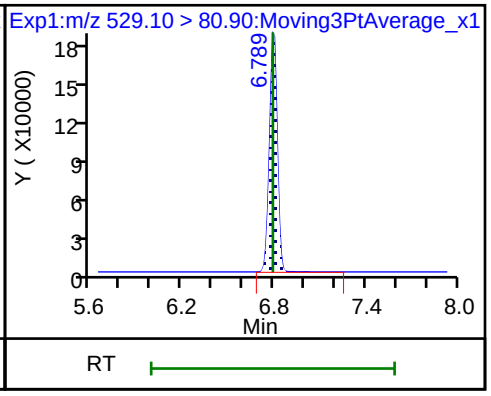
D 42 13C9 PFNA



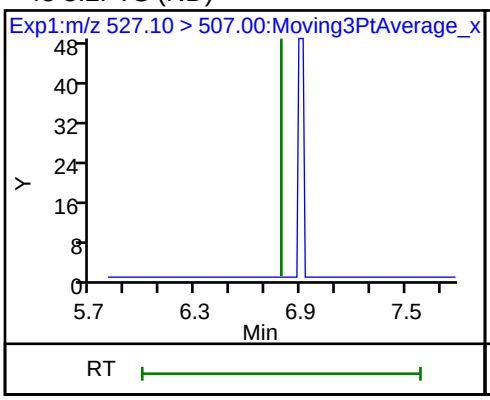
* 41 13C5 PFNA



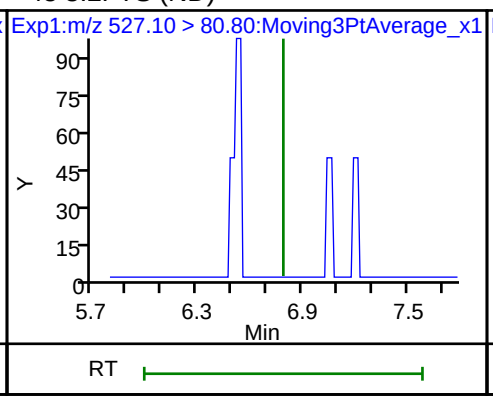
D 44 13C2-8:2FTS



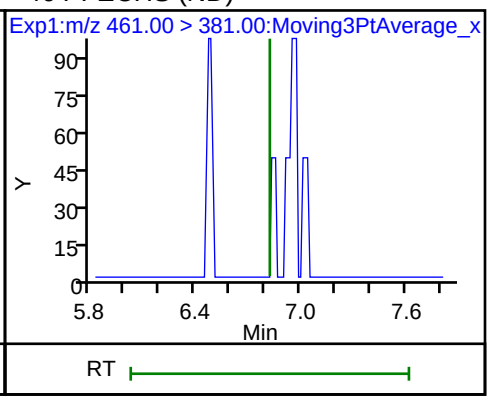
45 8:2FTS (ND)



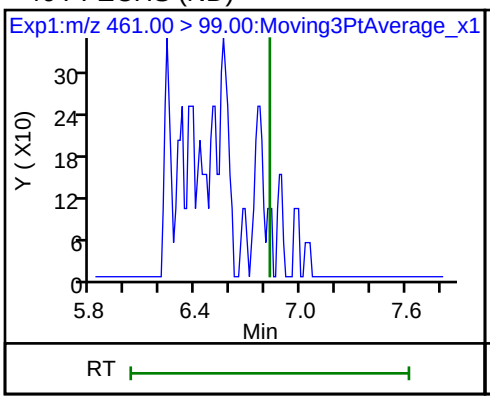
45 8:2FTS (ND)



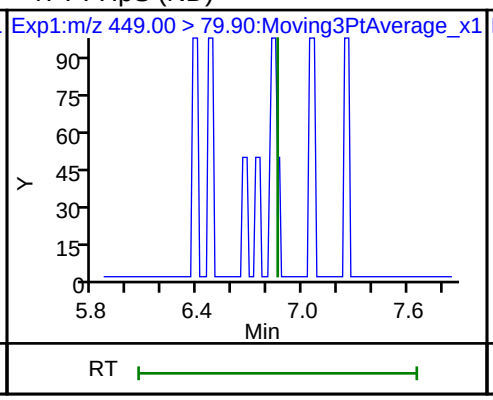
46 PFECHS (ND)



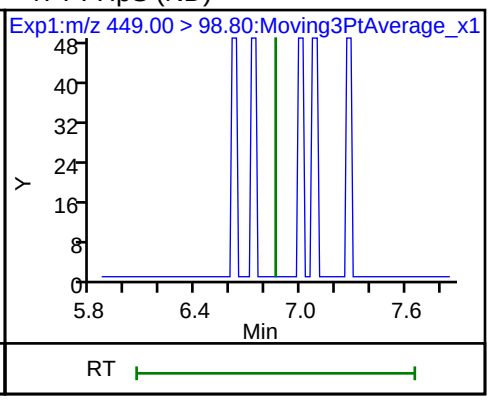
46 PFECHS (ND)



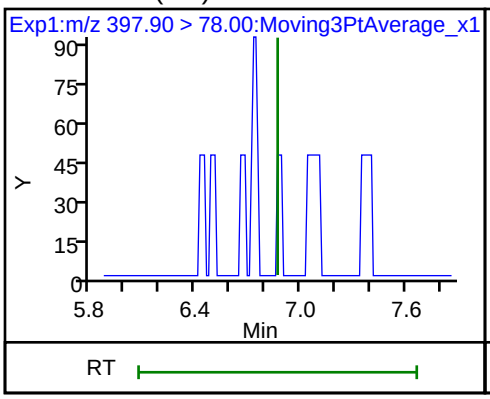
47 PFHpS (ND)



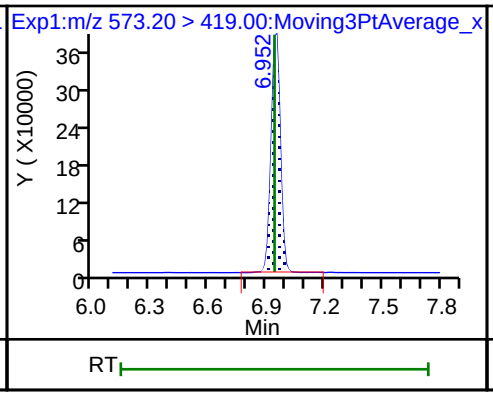
47 PFHpS (ND)



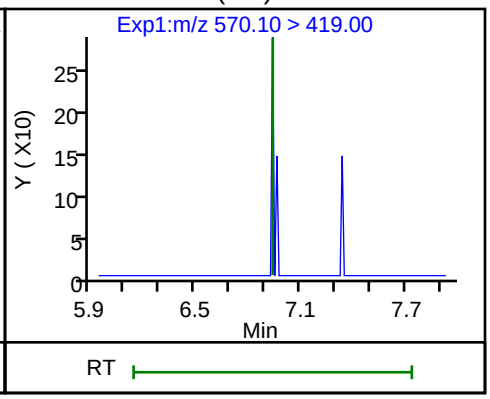
53 FHxSA (ND)



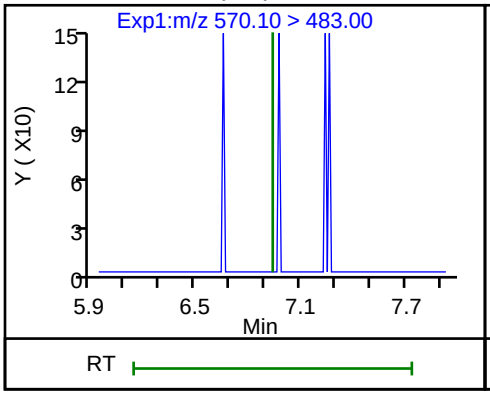
D 48 d3-NMeFOSAA



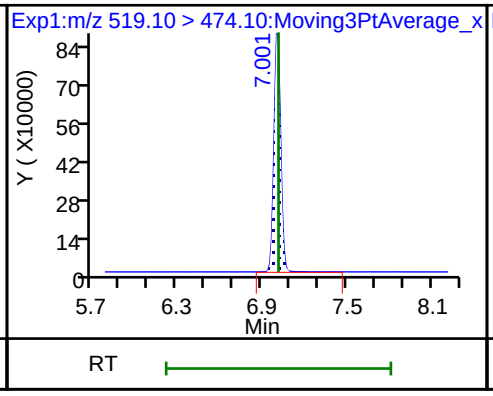
49 NMeFOSAA (ND)



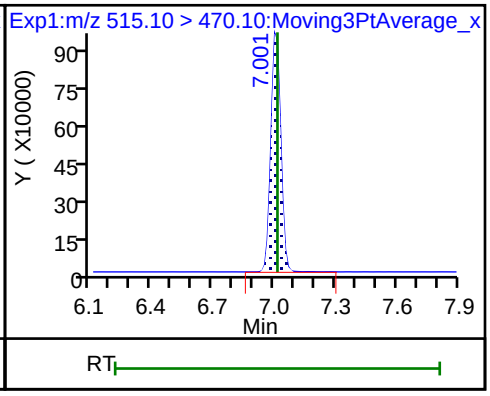
49 NMeFOSAA (ND)



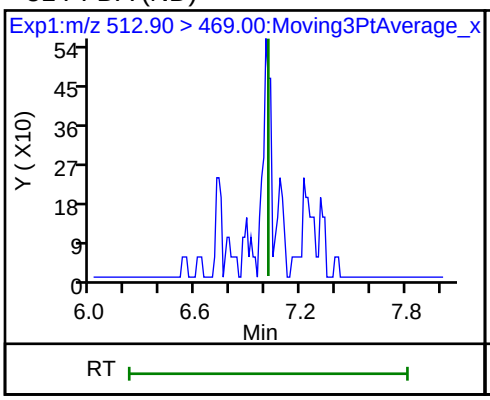
D 50 13C6 PFDA



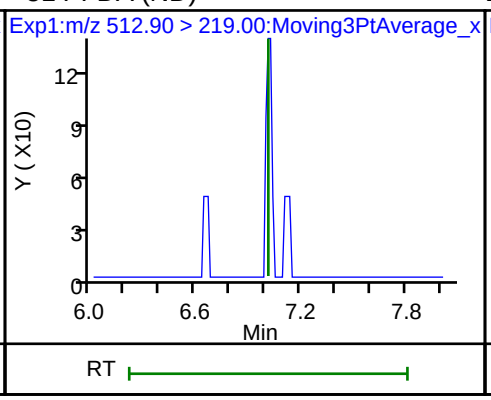
* 52 13C2 PFDA



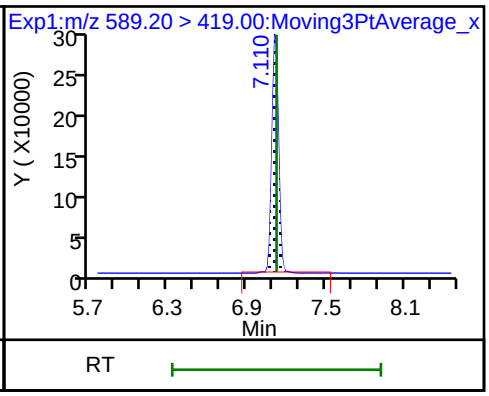
51 PFDA (ND)



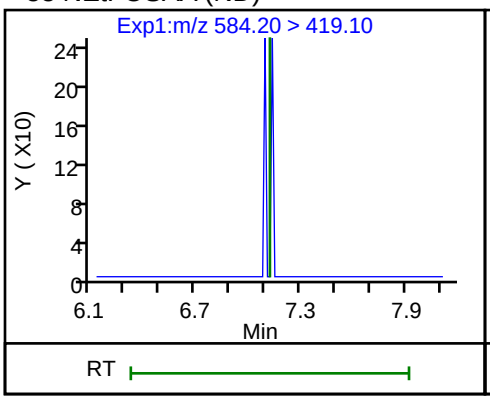
51 PFDA (ND)



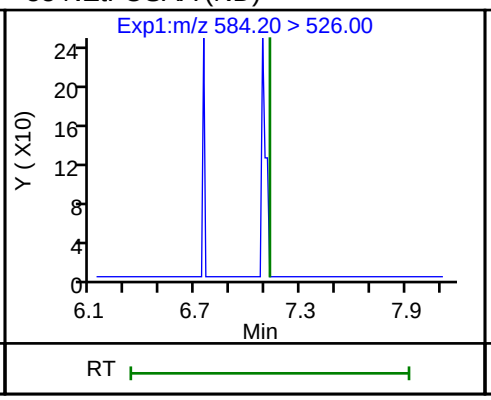
D 54 d5-NEtFOSAA



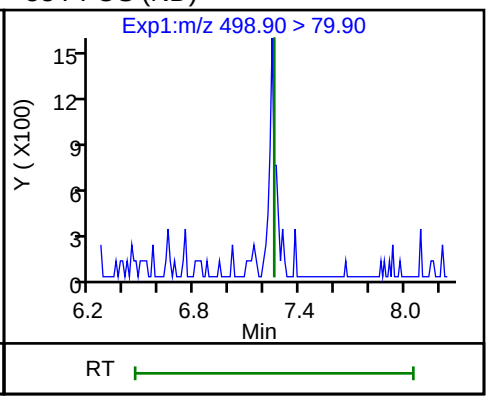
55 NEtFOSAA (ND)



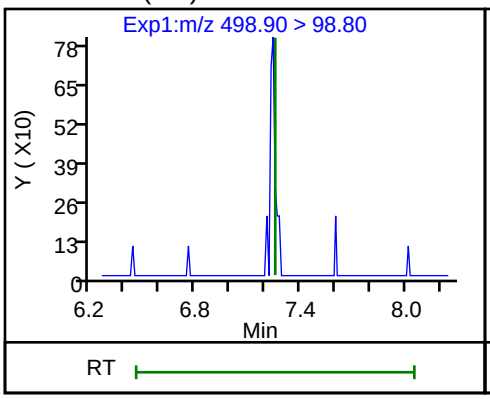
55 NEtFOSAA (ND)



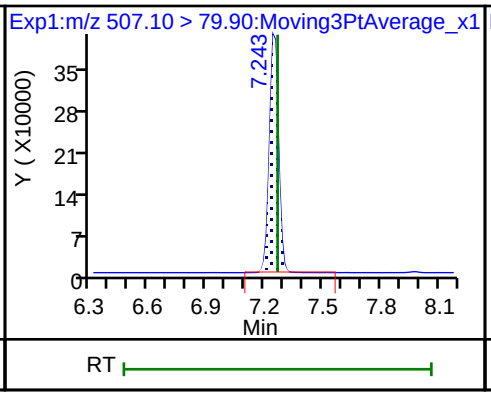
58 PFOS (ND)



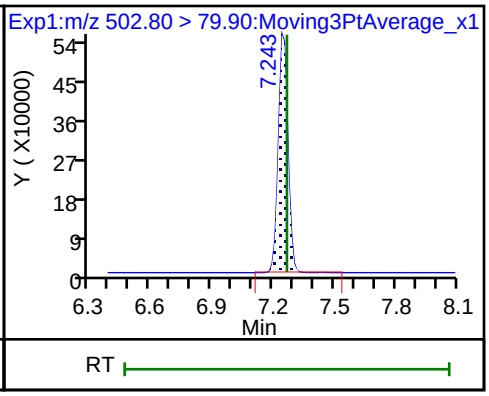
58 PFOS (ND)



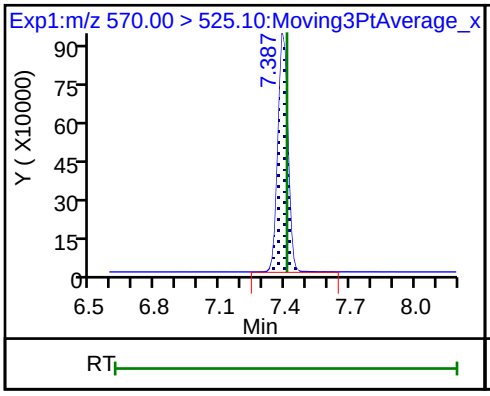
D 56 13C8 PFOS



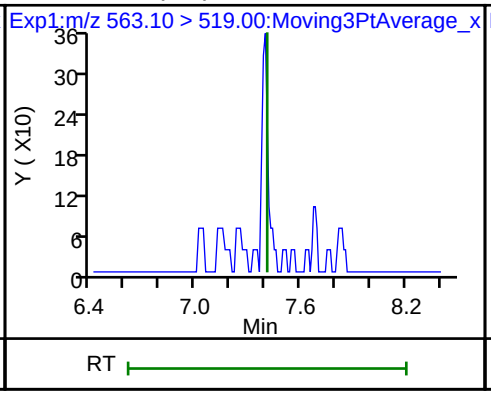
* 57 13C4 PFOS



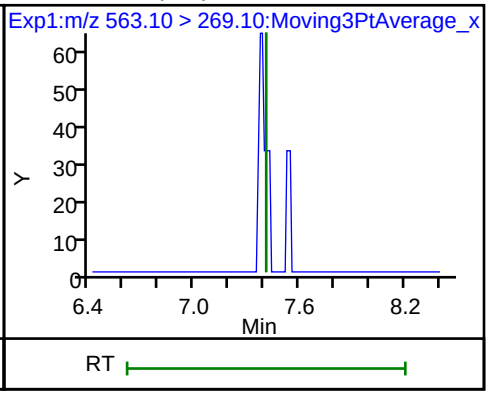
D 59 13C7 PFUnA



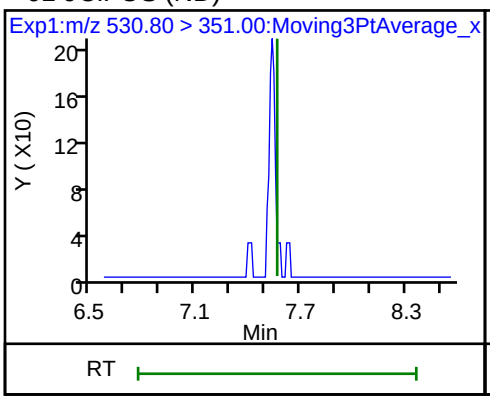
60 PFUnA (ND)



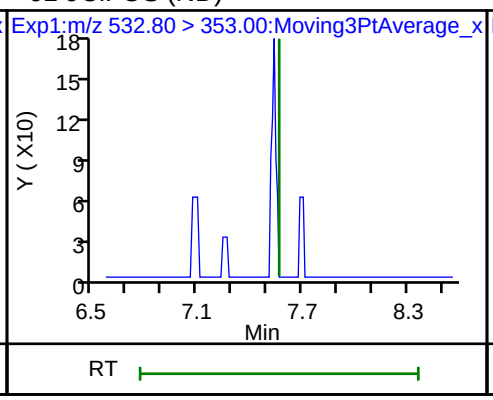
60 PFUnA (ND)



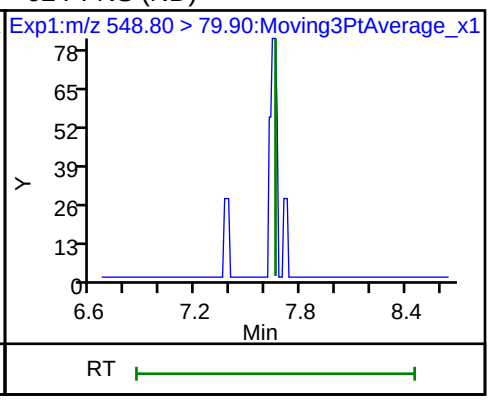
61 9ClFOS (ND)



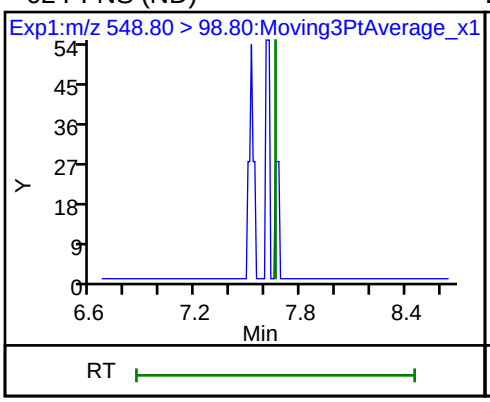
61 9ClFOS (ND)



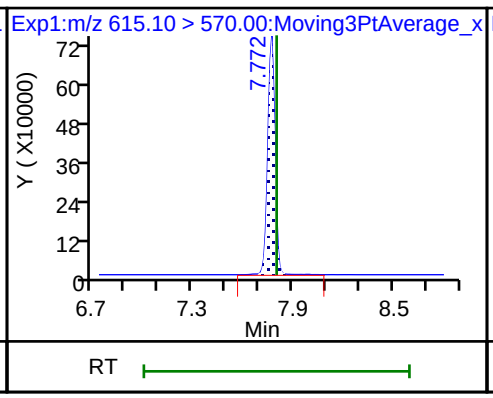
62 PFNS (ND)



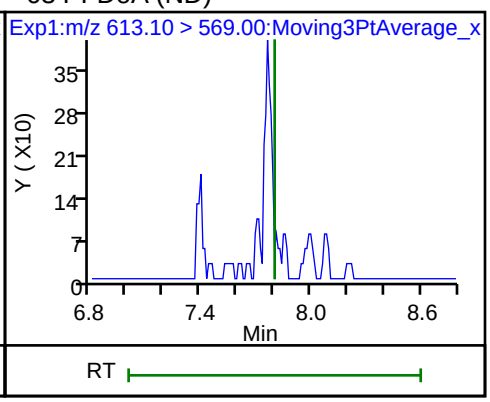
62 PFNS (ND)



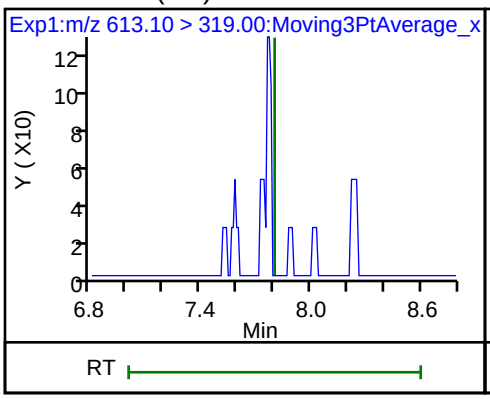
D 81 PFDoA



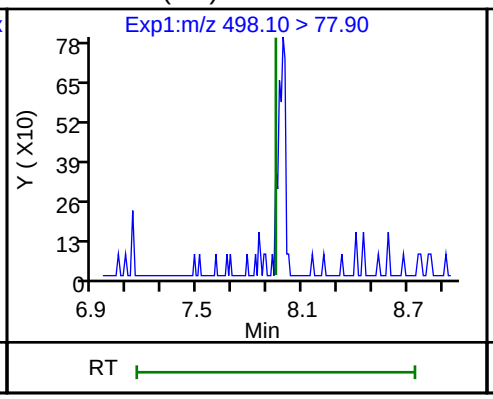
63 PFDoA (ND)



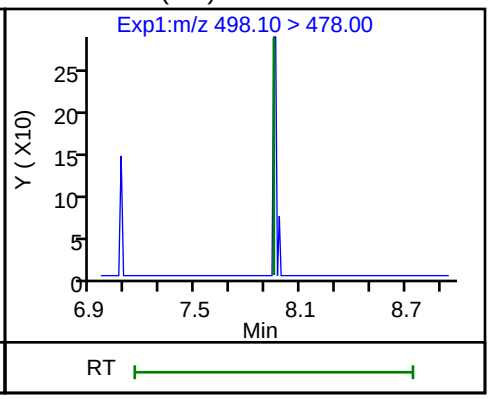
63 PFDoA (ND)



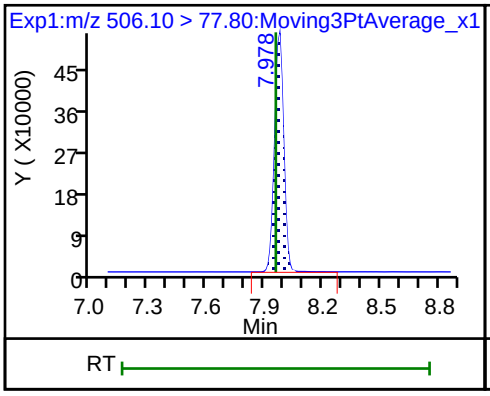
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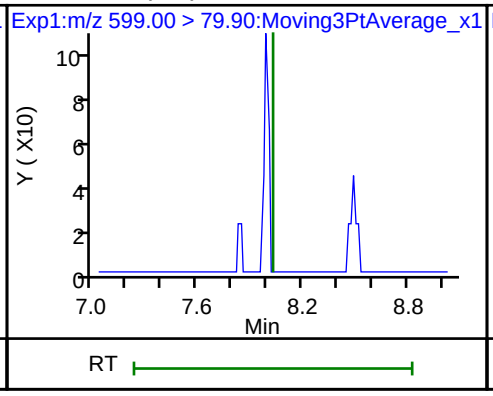
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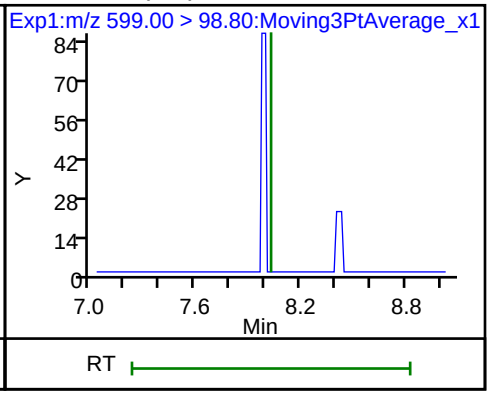
D 65 13C8 FOSA



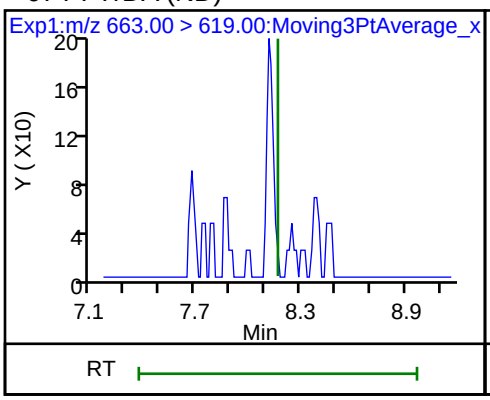
66 PFDS (ND)



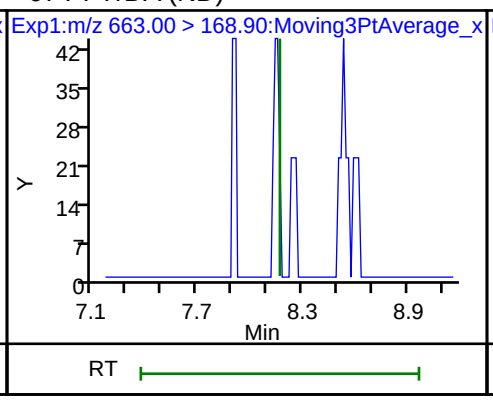
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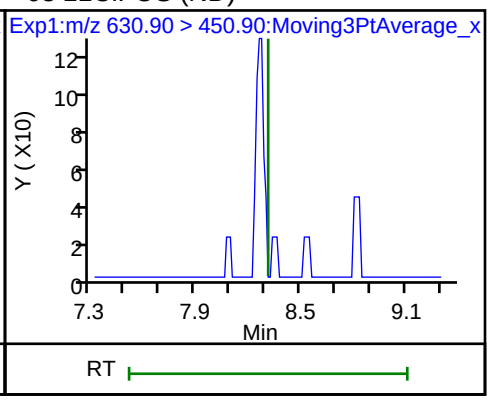
67 PFTrDA (ND)



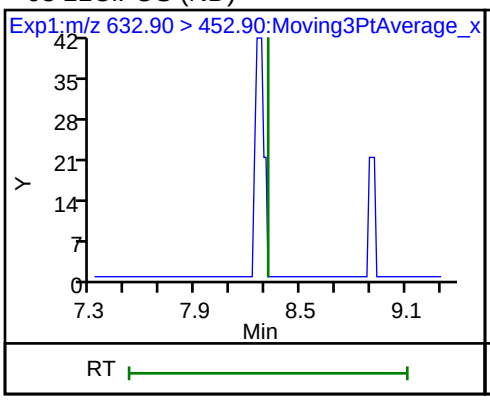
67 PFTrDA (ND)



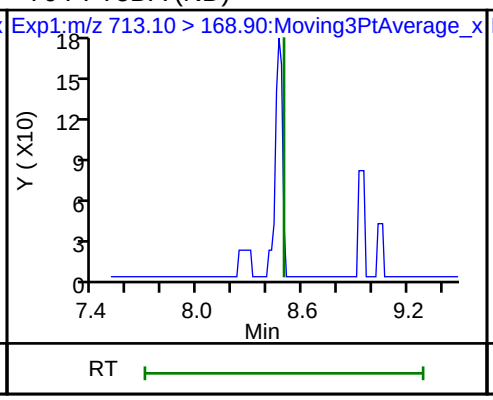
68 11ClFOS (ND)



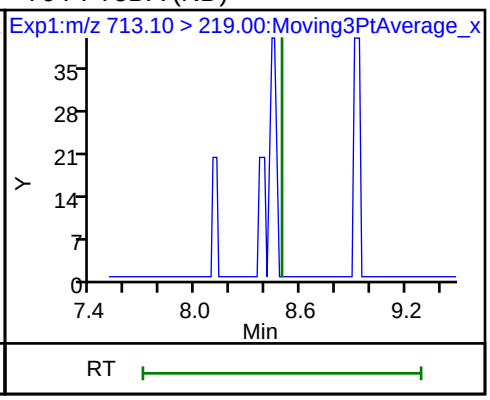
68 11ClFOS (ND)



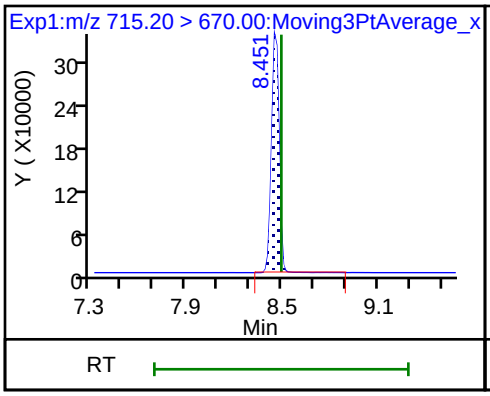
70 PFTeDA (ND)



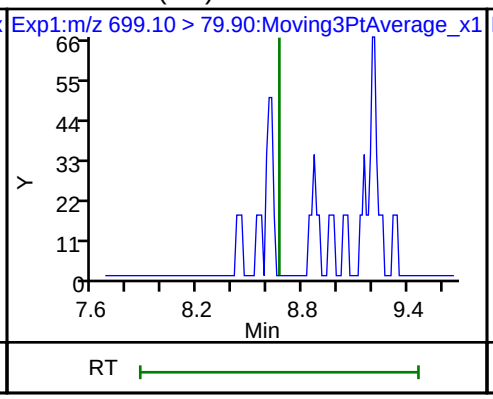
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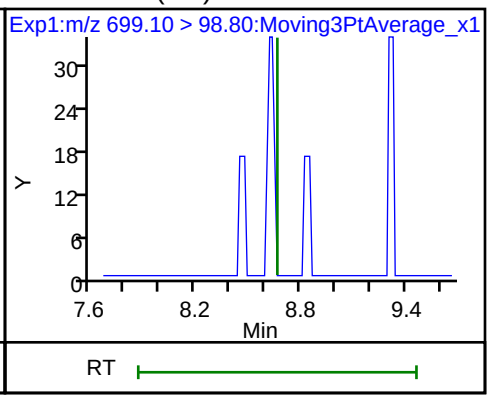
D 69 13C2 PFTeDA



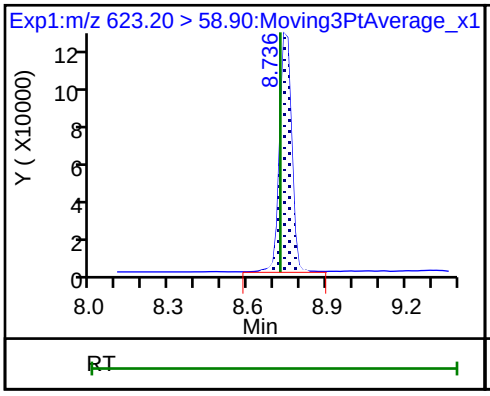
73 PFDoS (ND)



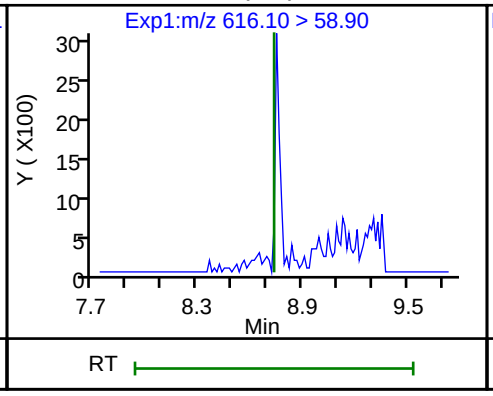
73 PFDoS (ND)



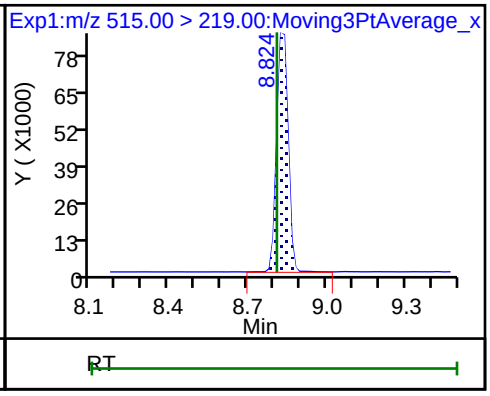
D 71 d7-N-Me-FOSE



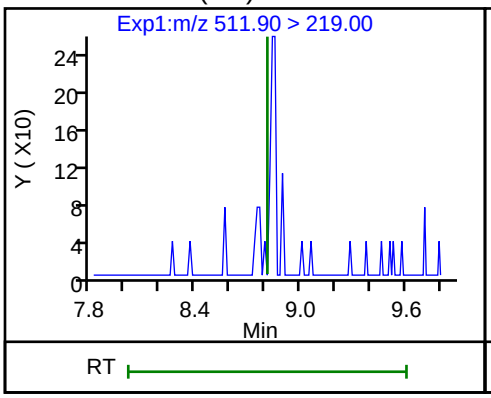
72 N-MeFOSE-M (ND)



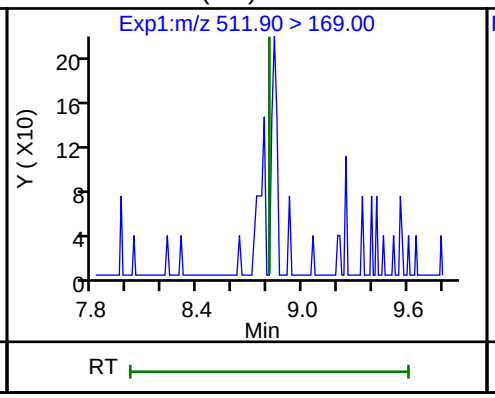
D 74 d3-NMePFOSA



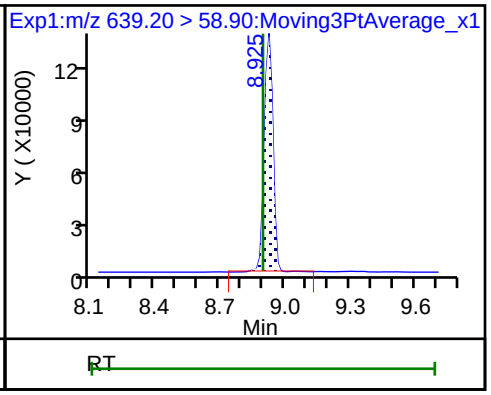
75 NMeFOSA (ND)



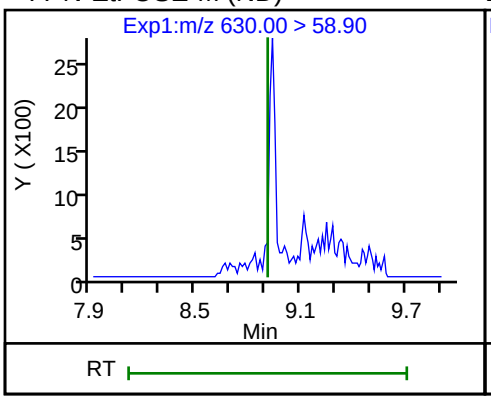
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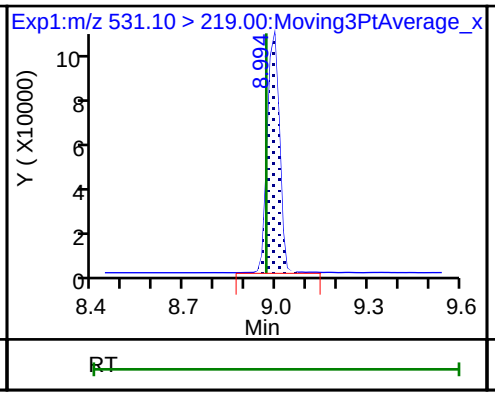
D 76 d9-N-EtFOSE



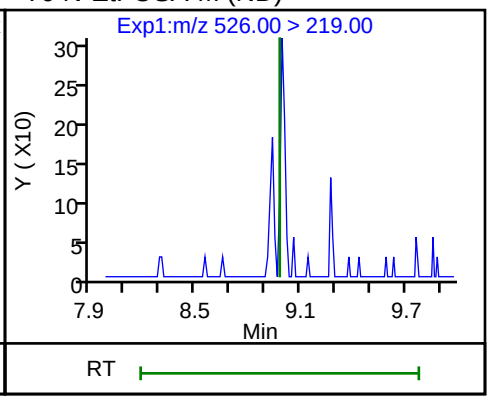
77 N-EtFOSE-M (ND)



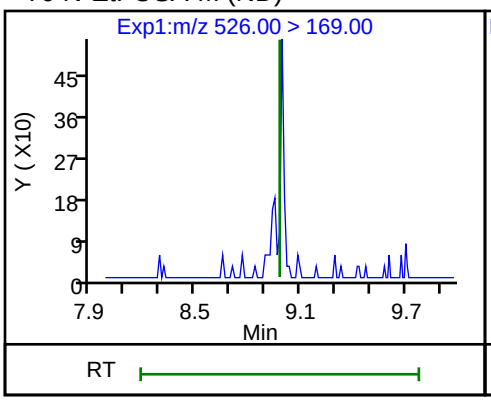
D 78 d5-NEtPFOSA



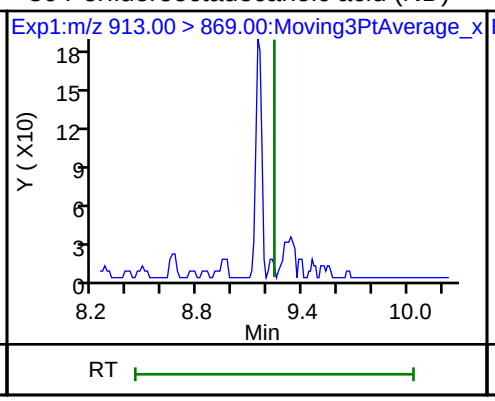
79 N-EtFOSA-M (ND)



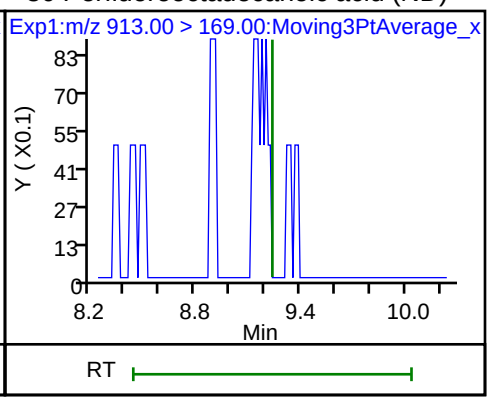
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-765112/1-A

Matrix: Solid
Lab File ID: 26FEB05JO-28.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.05(g)
Date Analyzed: 02/05/2026 20:04

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.39	U	0.39	0.098
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.098
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.098
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.059
375-95-1	Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.098
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.059
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.098
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.098
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.098
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.098
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.098
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.098
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.098
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.098
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.098
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.098
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.098
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.098
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.39	U	0.39	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.39	U	0.39	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.39	U	0.39	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.098
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.098
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.098

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-765112/1-A

Matrix: Solid
Lab File ID: 26FEB05JO-28.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.05(g)
Date Analyzed: 02/05/2026 20:04

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.098
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.098
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.98	U	0.98	0.49
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.98	U	0.98	0.49
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.20	0.098
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.20	0.098
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	0.20	0.098
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	0.20	0.098
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.20	U	0.20	0.098
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.20	U	0.20	0.098
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.20	U	0.20	0.098
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.20	U	0.20	0.098
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.39	U	0.39	0.20
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.98	U	0.98	0.49
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.98	U	0.98	0.49

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-765112/1-A

Matrix: Solid
Lab File ID: 26FEB05JO-28.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.05(g)
Date Analyzed: 02/05/2026 20:04

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	88.0		8-130
2283397-79-3	13C5 PFPeA	83.3		35-130
2328024-54-8	13C5 PFHxA	80.0		40-130
2328024-55-9	13C4 PFHpA	84.4		40-130
1350614-84-4	13C8 PFOA	79.8		40-130
2283397-80-6	13C9 PFNA	78.2		40-130
2328024-56-0	13C6 PFDA	87.5		40-130
STL02580	13C7 PFUnA	91.0		40-130
STL02116	13C2 PFTeDA	84.8		20-130
2708218-83-9	13C3 PFBS	81.1		40-135
2708218-85-1	13C3 PFHxS	85.6		40-130
2265893-05-6	13C8 PFOS	85.1		40-130
STL01056	13C8 FOSA	70.1		40-130
1400690-70-1	d3-NMeFOSAA	69.8		40-135
1265205-97-7	d5-NEtFOSAA	70.0		40-150
STL02395	13C2 4:2 FTS	84.1		40-165
STL02279	13C2 6:2 FTS	83.3		40-215
STL02280	13C2 8:2 FTS	71.6		40-275
STL02255	13C3 HFPO-DA	82.0		40-130
STL02277	d7-N-MeFOSE-M	30.0		20-130
STL02278	d9-N-EtFOSE-M	25.5		15-130
STL02704	d5-NEtPFOSA	56.7		10-130
STL02705	d3-NMePFOSA	60.3		10-130
960315-52-0	13C2 PFDoA	88.5		40-130

Report Date: 05-Feb-2026 22:56:03 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-28.d
Lims ID: MB 410-765112/1-A
Client ID:
Sample Type: MB
Inject. Date: 05-Feb-2026 20:04:54 ALS Bottle#: 13 Worklist Smp#: 132
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-765112/1-A
Misc. Info.: Plate: 1 Rack: 1 410-0174796-132
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:31:28
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.985	2.018	-0.033	0.475	1132979	1.68		83.9	1653	
D 4 13C4-PFBA										
216.80 > 171.90	4.180	4.187	-0.007	1.000	1607538	1.76		88.0	7943	
* 5 13C3PFBA										
216.00 > 172.00	4.180	4.187	-0.007		1779916	2.00			4354	
D 8 13C5 PFPeA										
268.30 > 223.00	4.836	4.844	-0.008	0.912	1479396	1.67		83.3	5583	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.118	5.121	-0.003	0.804	839867	3.94		84.1	4596	
13 TUDCA										
498.20 > 80.00	5.796	5.121	0.675	0.802	2337	NR			18.1	
D 15 13C5 PFHxA										
318.00 > 273.00	5.300	5.303	-0.003	1.000	1726925	1.60		80.0	3412	
* 16 13C2 PFHxA										
315.10 > 270.00	5.300	5.303	-0.003		5094652	5.00			5708	
D 19 13C3 PFBS										
302.10 > 79.90	5.434	5.437	-0.003	0.854	1727802	1.51		81.1	7136	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.484	5.486	-0.002	1.035	1205637	1.64		82.0	5048	
24 TCDCA										
498.10 > 80.00	5.927	5.553	0.374	0.820	2469	NR			11.1	
25 TDCA										
498.00 > 80.00	5.796	5.679	0.117	0.802	2549	NR			6.3	
D 28 13C4 PFHpA										
367.10 > 322.00	5.719	5.732	-0.013	1.079	1779916	1.69		84.4	4266	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.927	5.930	-0.003	0.931	714043	3.97		83.3	3831	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA 417.10 > 372.00	6.130	6.143	-0.013		6887209	5.00			4955	
D 35 13C8 PFOA 421.10 > 376.00	6.130	6.143	-0.013	1.000	2240502	1.60		79.8	7121	
* 39 18O2 PFHxS 403.00 > 83.90	6.366	6.379	-0.013		1701532	1.90			7071	
D 38 13C3 PFHxS 402.10 > 79.90	6.366	6.379	-0.013	1.000	1569098	1.62		85.6	6096	
D 41 13C9 PFNA 472.10 > 427.00	6.545	6.549	-0.004	1.000	1695336	1.56		78.2	6306	
* 42 13C5 PFNA 468.00 > 423.00	6.545	6.560	-0.015		2094044	2.00			6333	
D 44 13C2-8:2FTS 529.10 > 80.90	6.733	6.737	-0.004	1.058	638764	3.44		71.6	2336	
D 49 d3-NMeFOSAA 573.20 > 419.00	6.896	6.899	-0.003	0.953	1400735	3.49		69.8	4590	
* 51 13C2 PFDA 515.10 > 470.10	6.956	6.970	-0.014		2060700	2.00			6283	
D 52 13C6 PFDA 519.10 > 474.10	6.966	6.970	-0.004	1.001	1777783	1.75		87.5	5671	
D 54 d5-NEtFOSAA 589.20 > 419.00	7.082	7.090	-0.008	0.979	1213070	3.50		70.0	1925	
* 57 13C4 PFOS 502.80 > 79.90	7.233	7.241	-0.008		1490792	1.92			9163	
D 56 13C8 PFOS 507.10 > 79.90	7.224	7.241	-0.017	0.999	1411056	1.63		85.1	6291	
D 59 13C7 PFUnA 570.00 > 525.10	7.378	7.387	-0.009	1.061	1842698	1.82		91.0	2857	
D 81 PFDoA 615.10 > 570.00	7.792	7.806	-0.014	1.120	1721864	1.77		88.5	1803	
D 65 13C8 FOSA 506.10 > 77.80	8.037	8.035	0.002	1.111	1252425	1.40		70.1	4930	
D 70 13C2 PFTeDA 715.20 > 670.00	8.596	8.611	-0.015	1.236	1484831	1.70		84.8	5127	
D 72 d7-N-Me-FOSE 623.20 > 58.90	8.900	8.889	0.011	1.230	107603	1.50		30.0	338	
D 75 d3-NMePFOSA 515.00 > 219.00	9.013	9.002	0.010	1.246	341350	1.21		60.3	1459	
D 76 d9-N-EtFOSE 639.20 > 58.90	9.134	9.125	0.009	1.263	98491	1.27		25.5	286	
D 78 d5-NEtPFOSA 531.10 > 219.00	9.224	9.215	0.009	1.275	413048	1.13		56.7	2296	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00591 Amount Added: 50.00 Units: uL

Report Date: 05-Feb-2026 22:56:03 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-28.d

Injection Date: 05-Feb-2026 20:04:54 Instrument ID: 30577

Lims ID: MB 410-765112/1-A

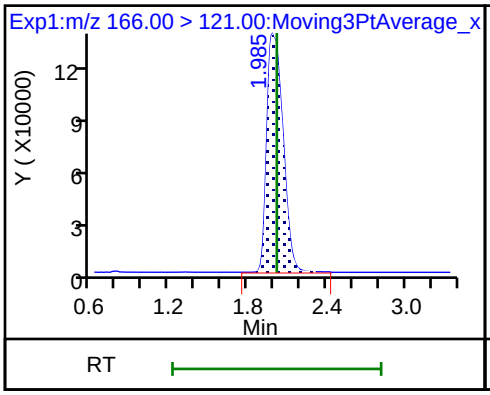
Client ID:

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 13 Worklist Smp#: 132

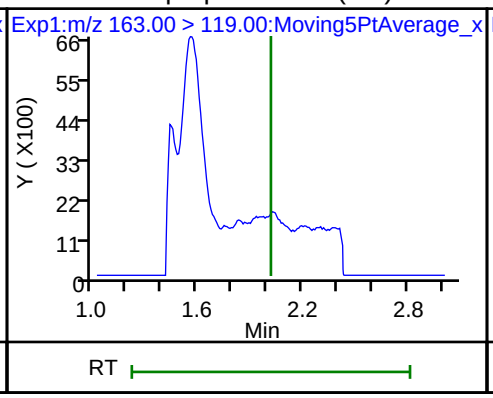
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

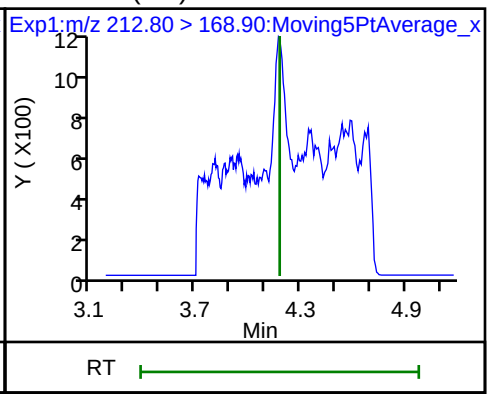
D 1 13C3PFPrA



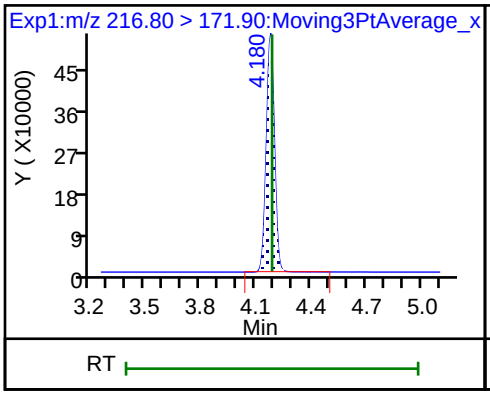
2 Perfluoropropionic acid (ND)



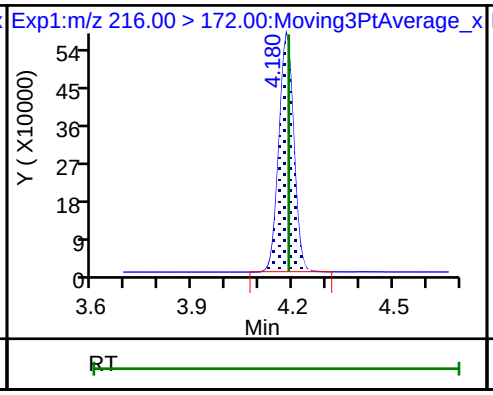
3 PFBA (ND)



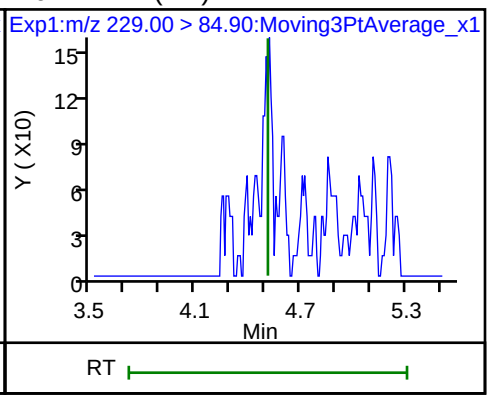
D 4 13C4-PFBA



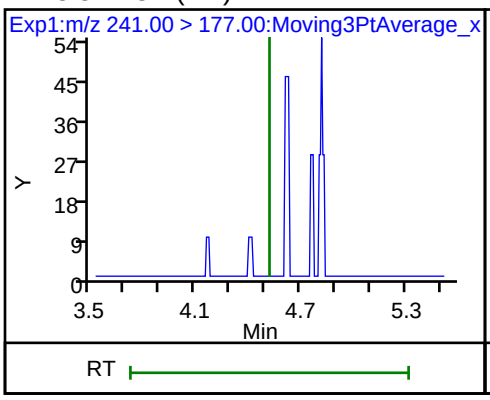
* 5 13C3PFBA



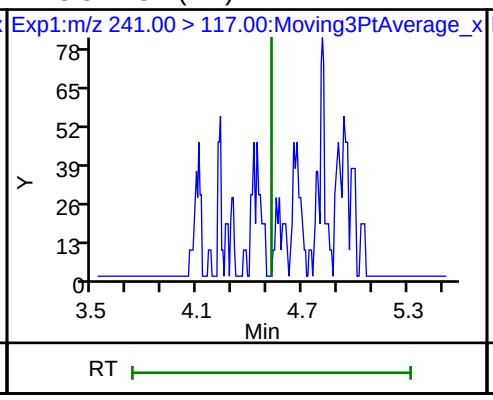
6 PFMPA (ND)



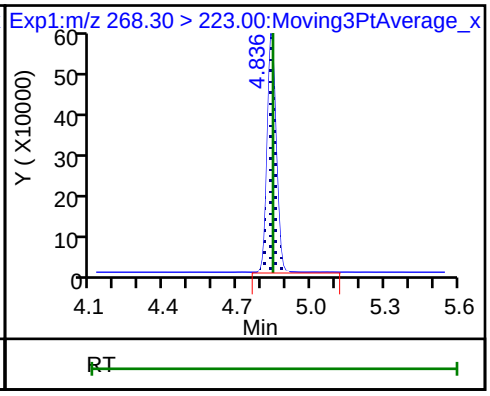
7 3:3 FTCA (ND)



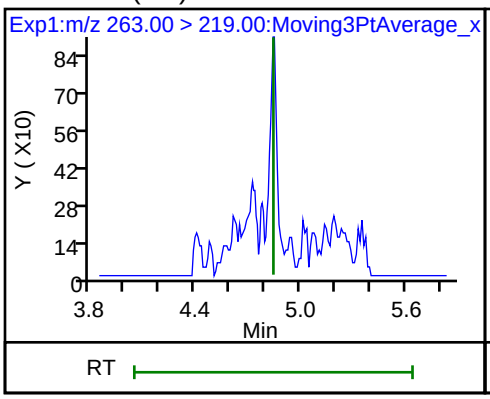
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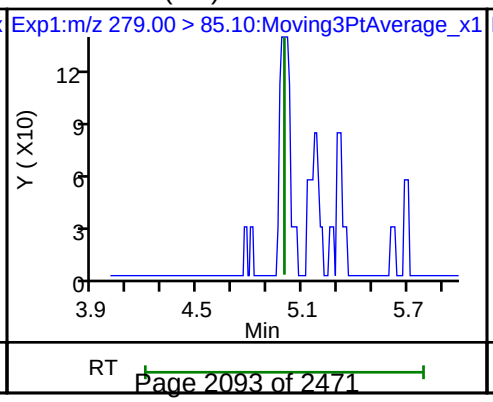
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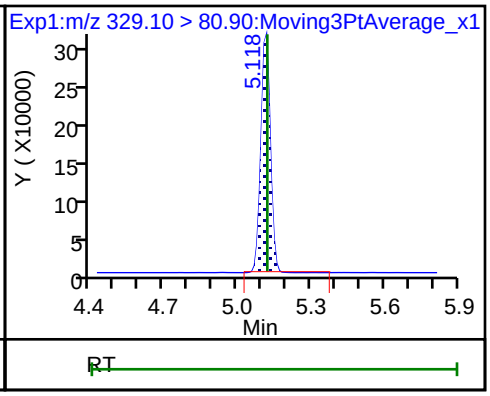
9 PFPA (ND)



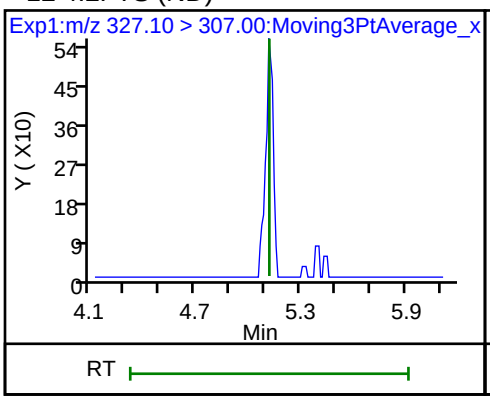
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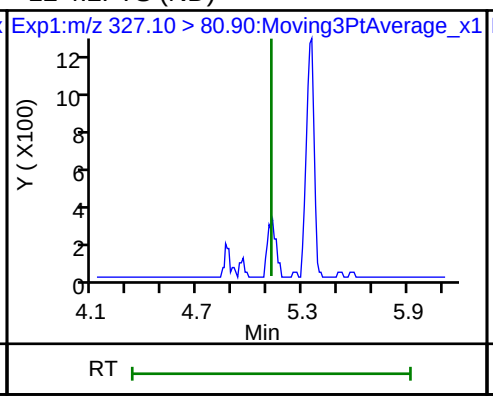
D 11 13C2-4:2FTS



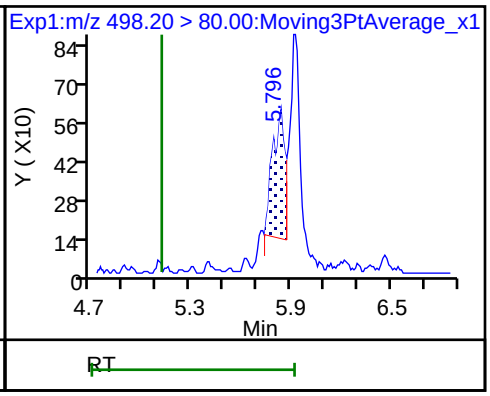
12 4:2FTS (ND)



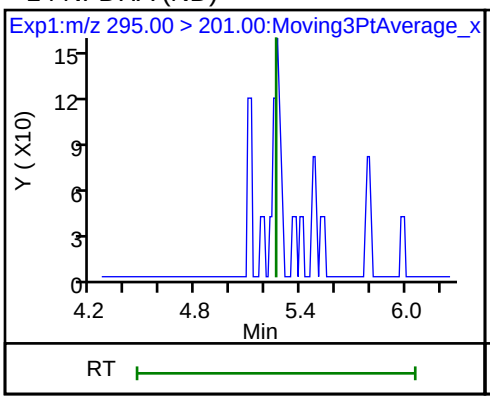
12 4:2FTS (ND)



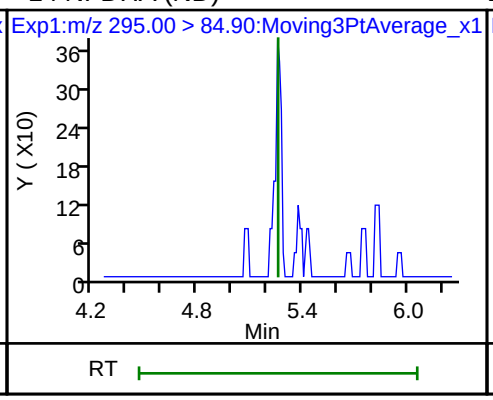
13 TUDCA



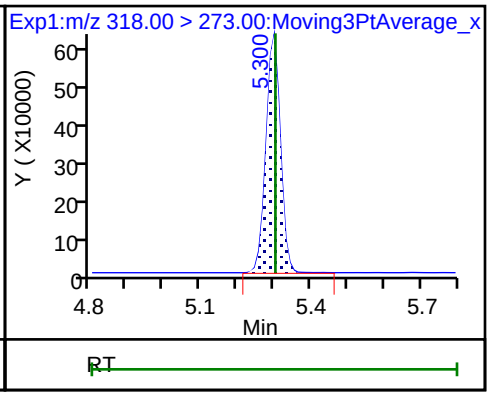
14 NFDHA (ND)



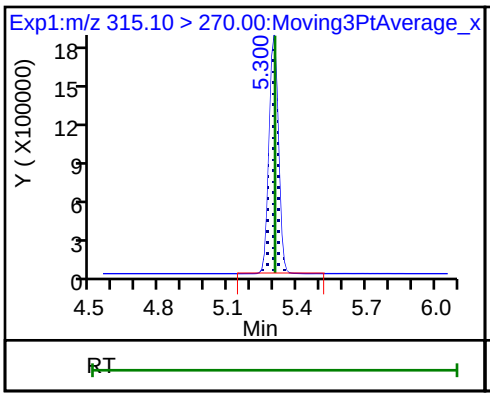
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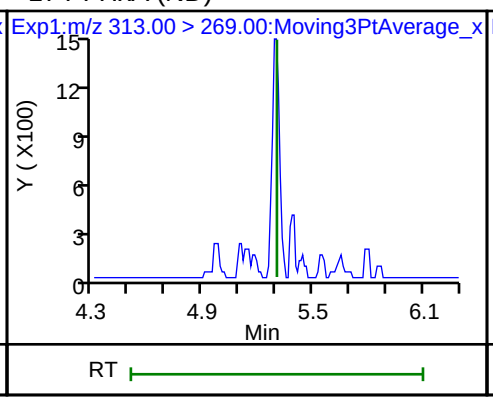
D 15 13C5 PFHxA



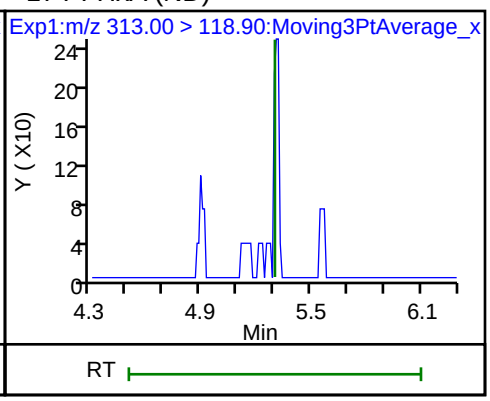
* 16 13C2 PFHxA



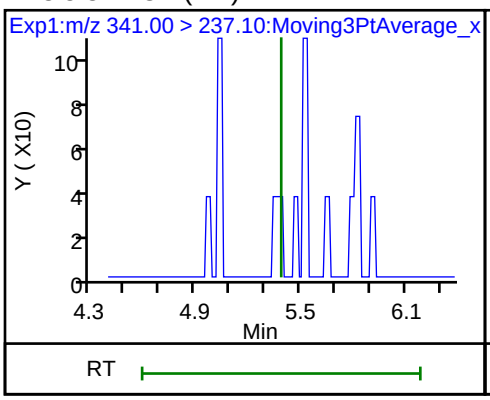
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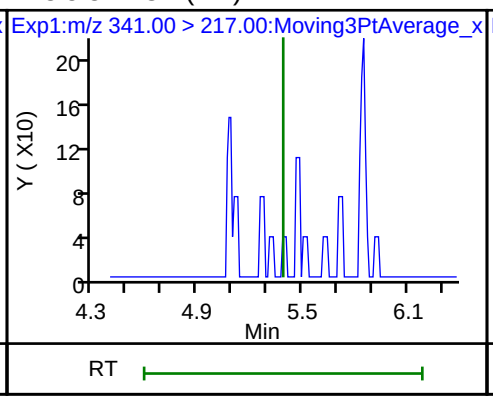
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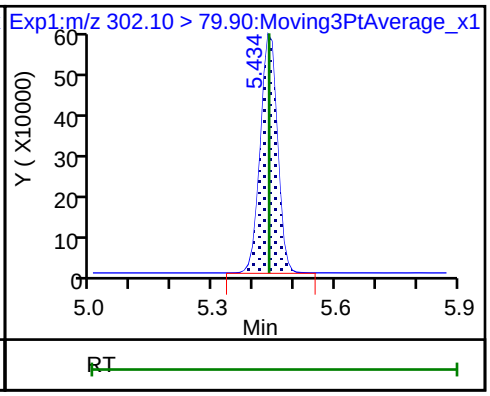
18 5:3 FTCA (ND)



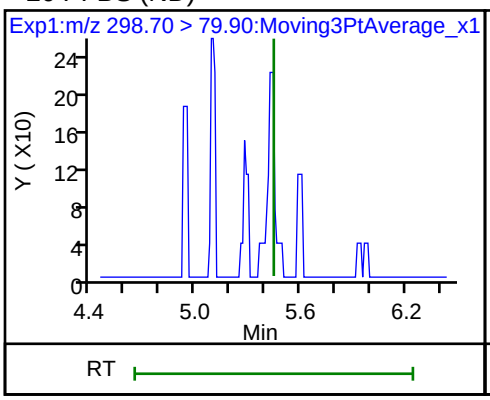
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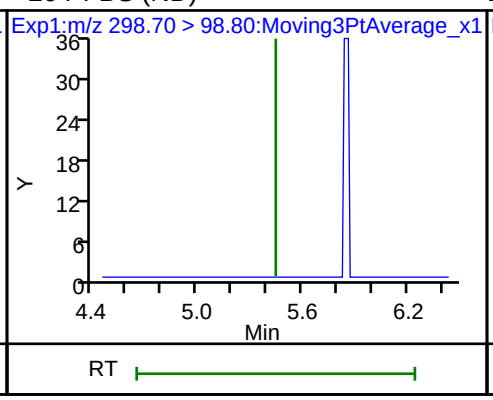
D 19 13C3 PFBS



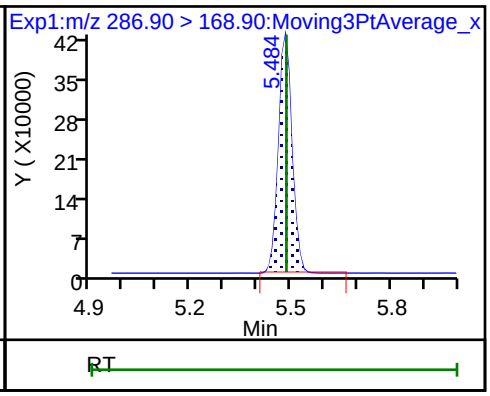
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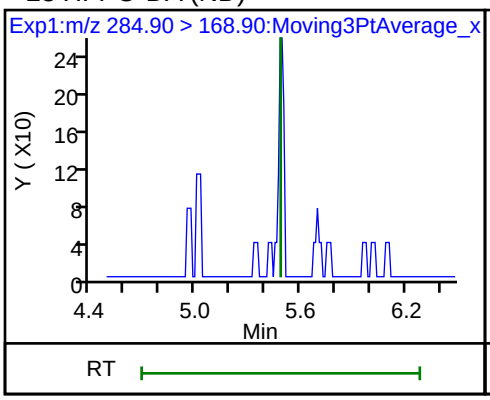
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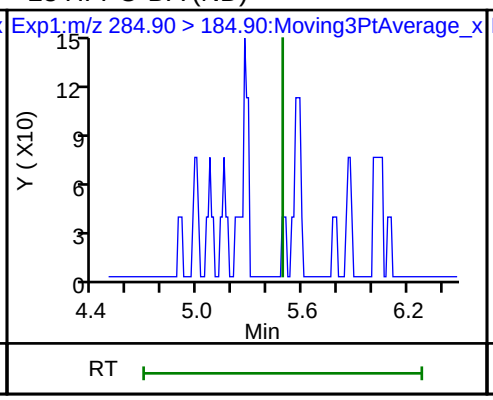
D 22 13C3 HFPO-DA



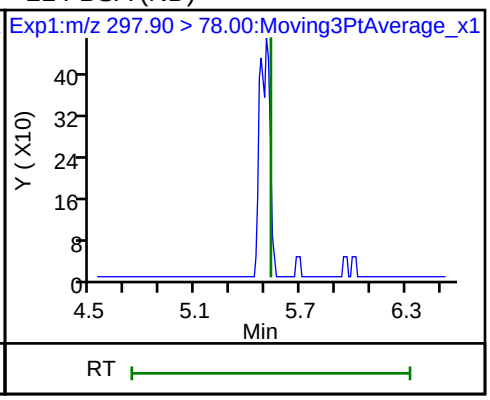
23 HFPO-DA (ND)



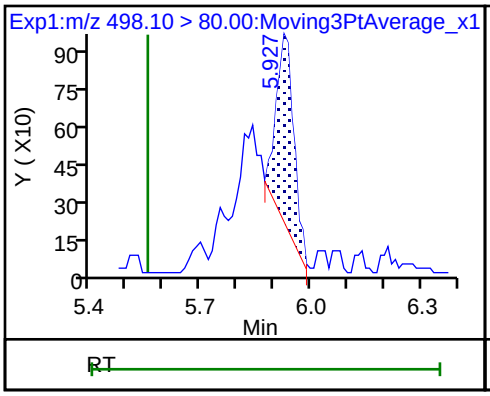
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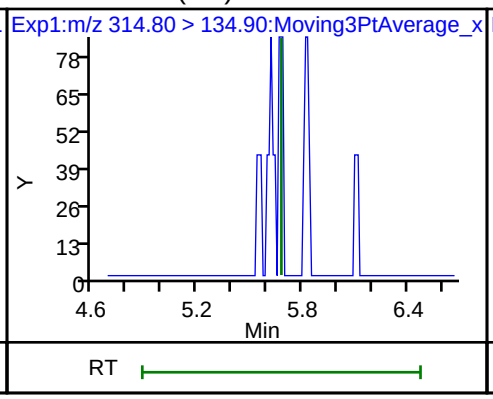
21 FBSA (ND)



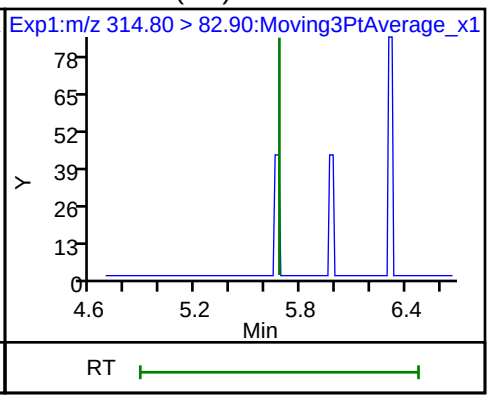
24 TCDCA



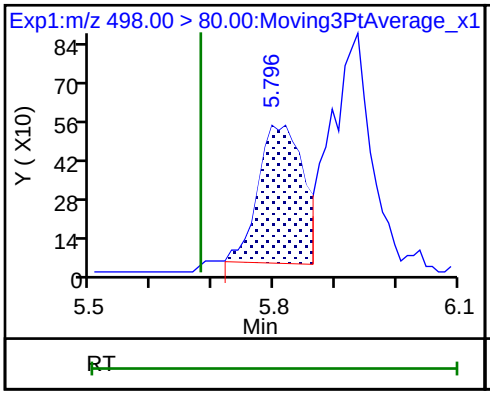
26 PFEESA (ND)



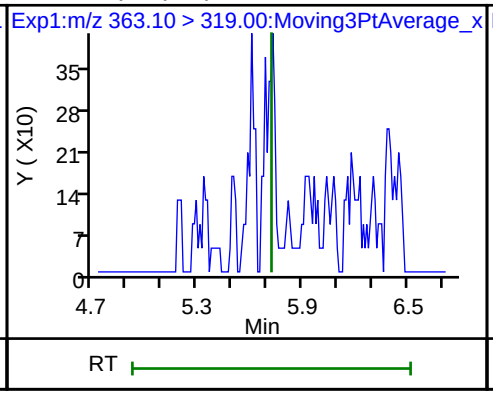
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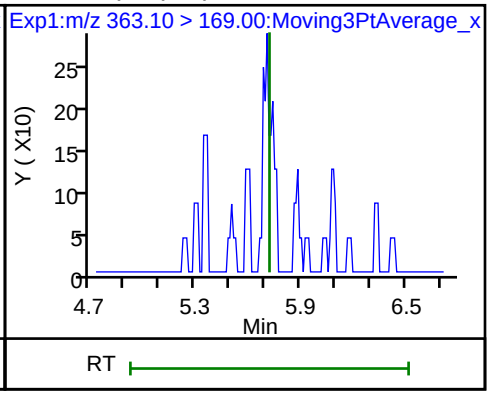
25 TDCA



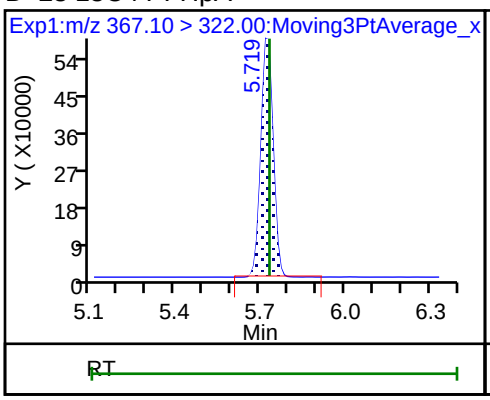
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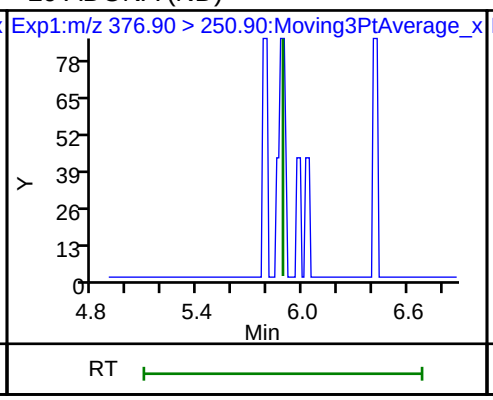
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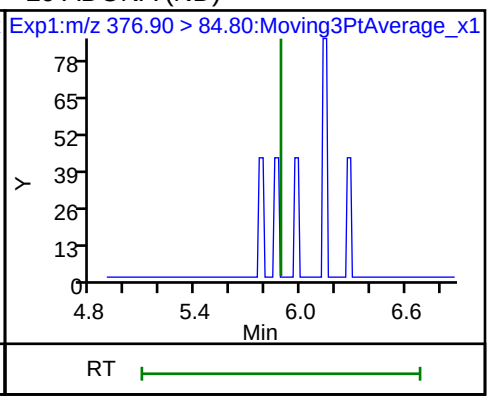
D 28 13C4 PFHpA



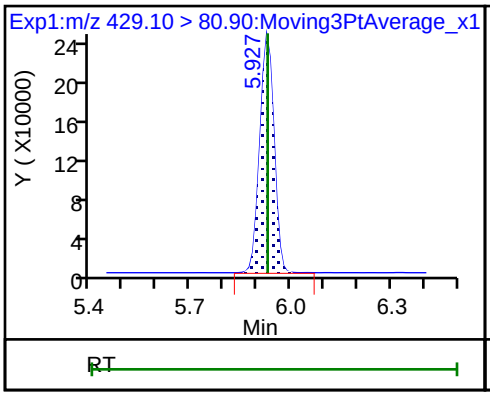
29 ADONA (ND)



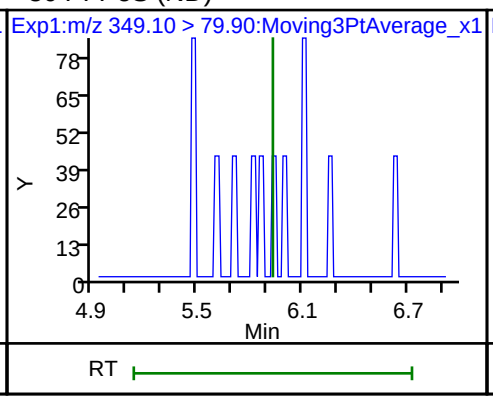
29 ADONA (ND)



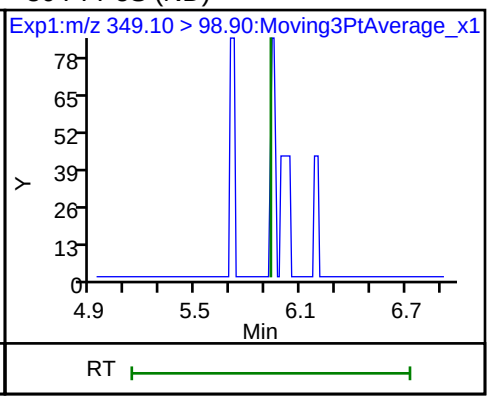
D 32 13C2-6:2FTS



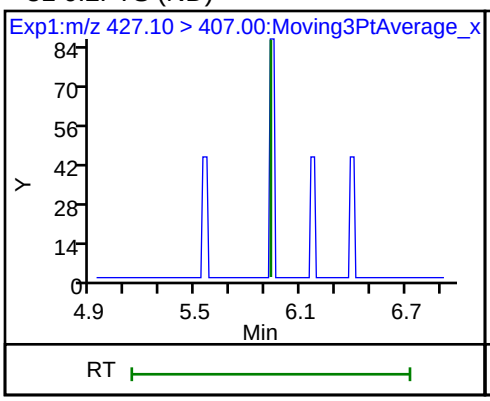
30 PFPeS (ND)



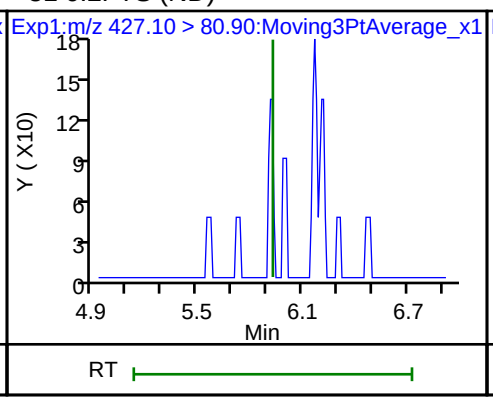
30 PFPeS (ND)



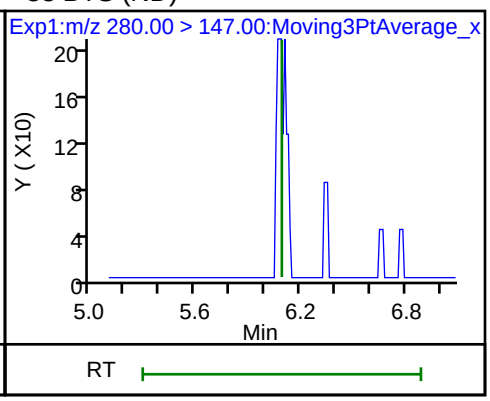
31 6:2FTS (ND)



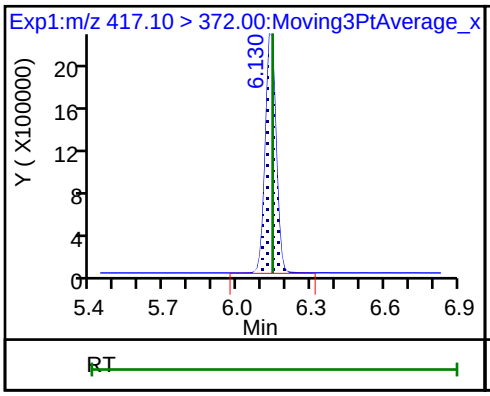
31 6:2FTS (ND)



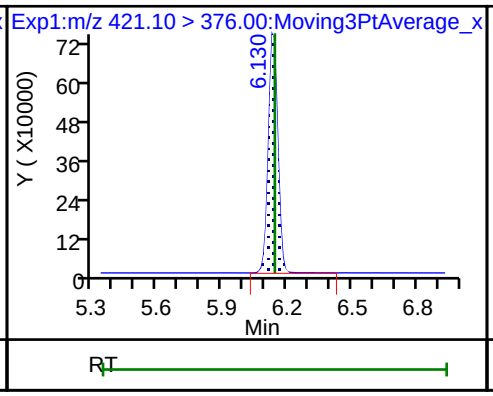
33 BTS (ND)



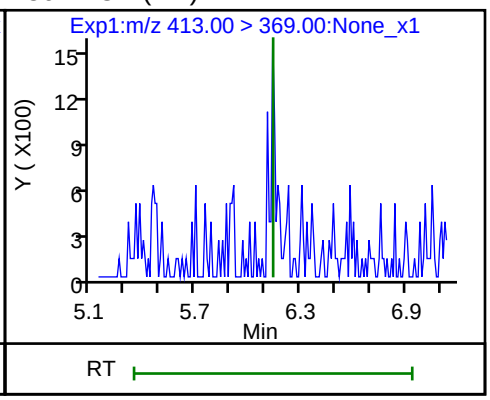
* 34 13C4 PFOA



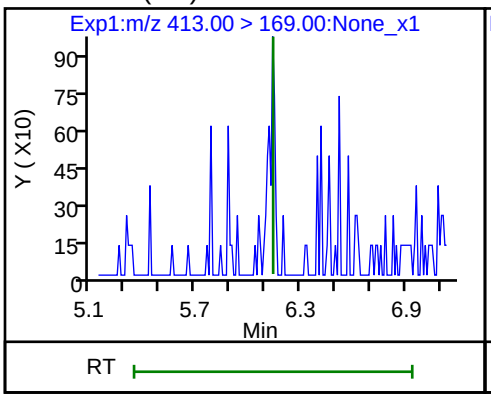
D 35 13C8 PFOA



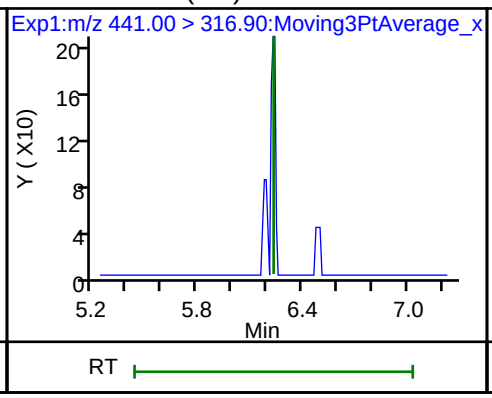
36 PFOA (ND)



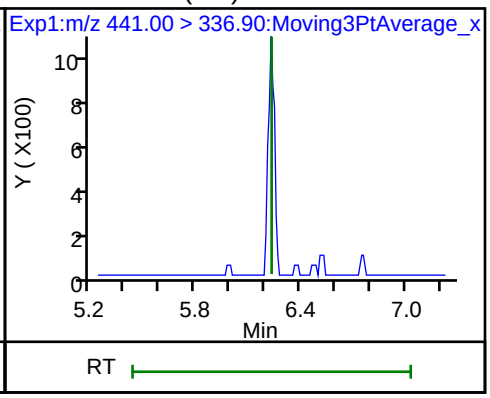
36 PFOA (ND)



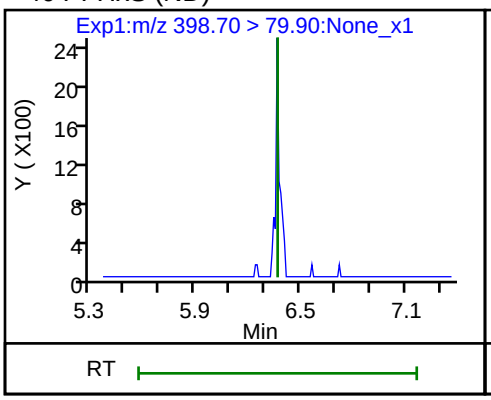
37 7:3 FTCA (ND)



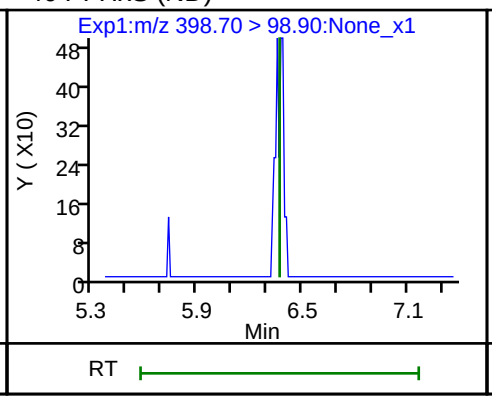
37 7:3 FTCA (ND)



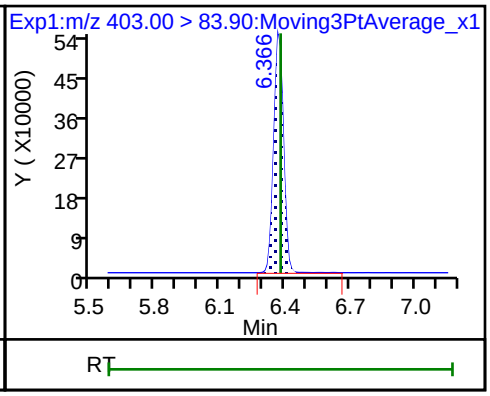
40 PFHxS (ND)



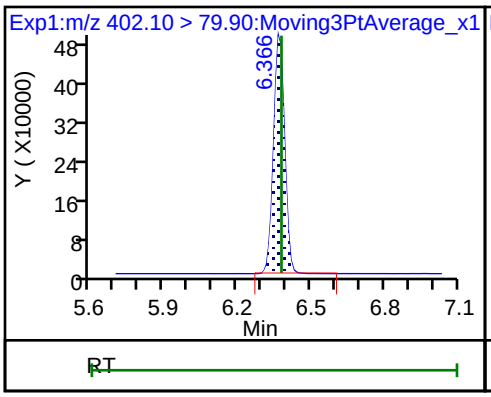
40 PFHxS (ND)



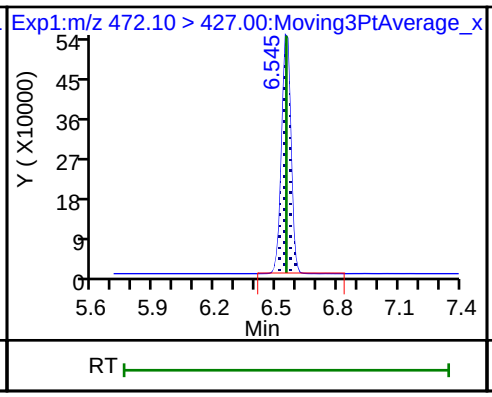
* 39 18O2 PFHxS



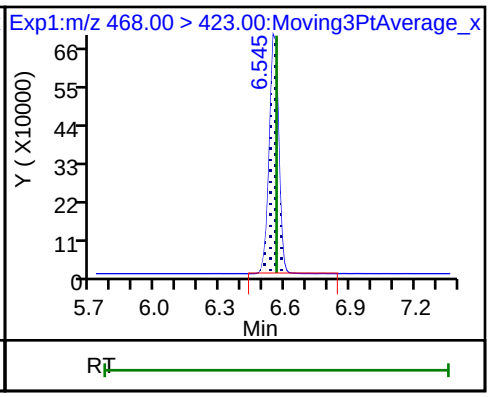
D 38 13C3 PFHxS



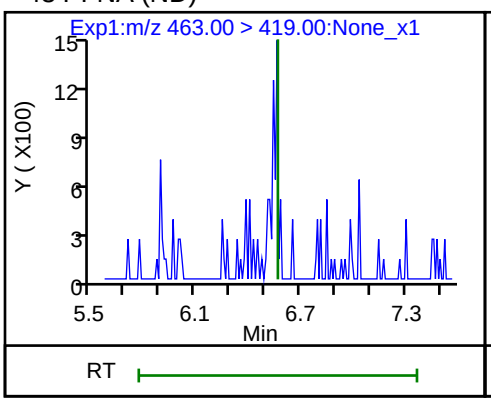
D 41 13C9 PFNA



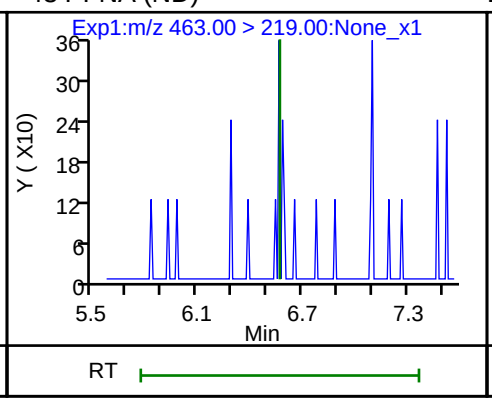
* 42 13C5 PFNA



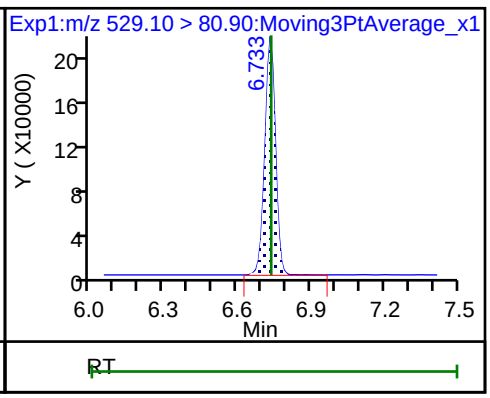
43 PFNA (ND)



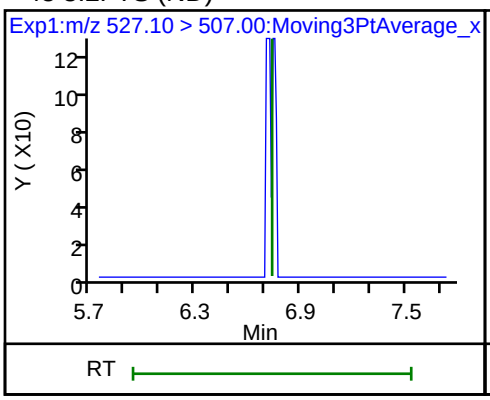
43 PFNA (ND)



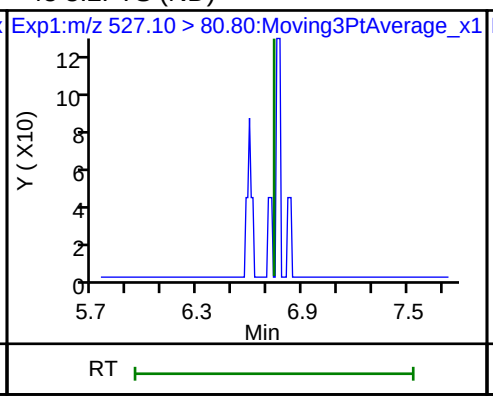
D 44 13C2-8:2FTS



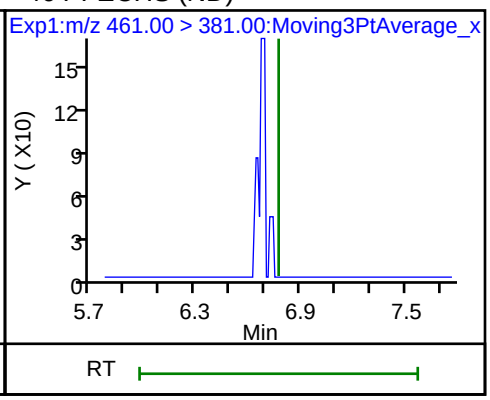
45 8:2FTS (ND)



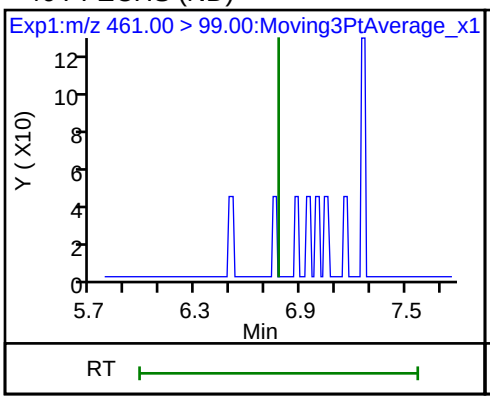
45 8:2FTS (ND)



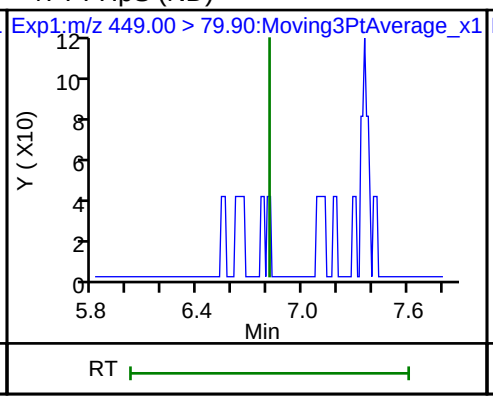
46 PFECHS (ND)



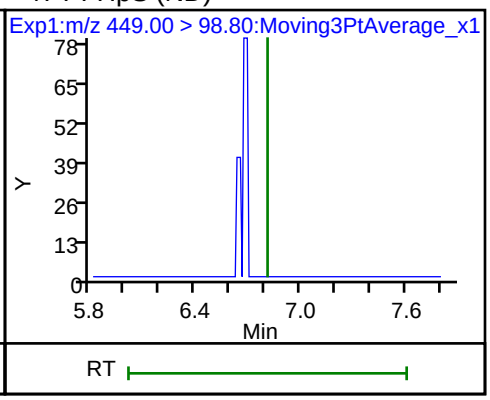
46 PFECHS (ND)



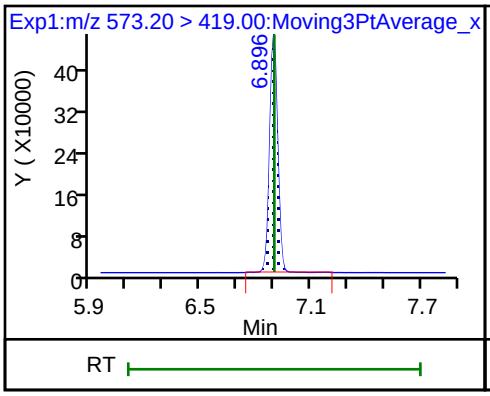
47 PFHpS (ND)



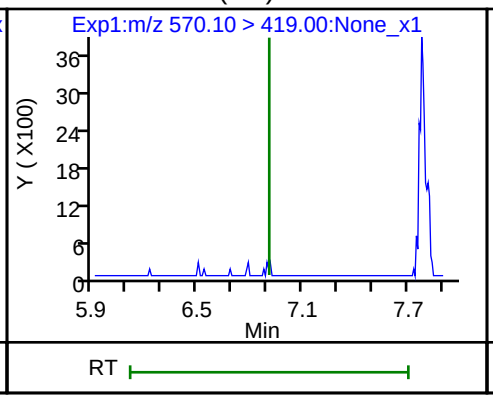
47 PFHpS (ND)



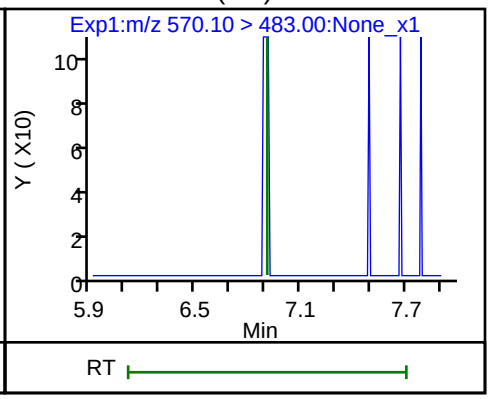
D 49 d3-NMeFOSAA



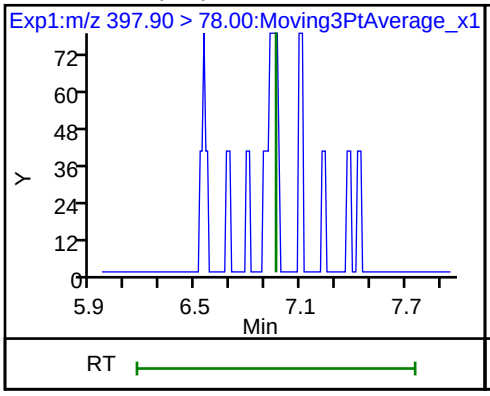
50 NMeFOSAA (ND)



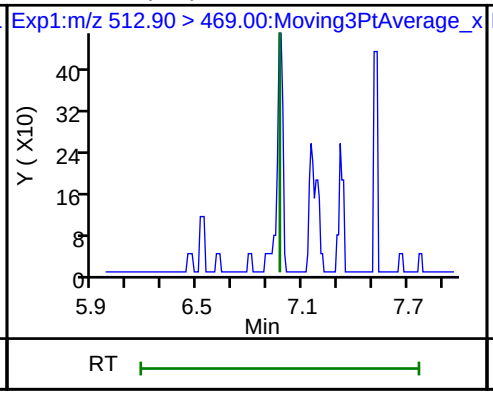
50 NMeFOSAA (ND)



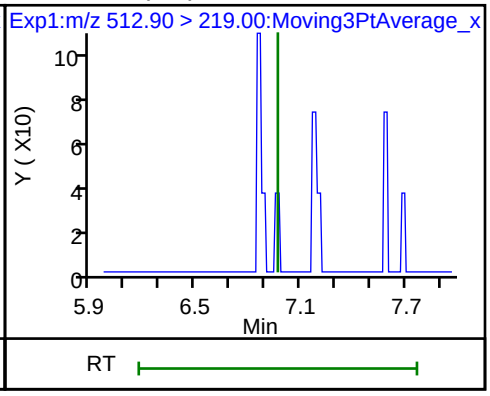
48 FHxSA (ND)



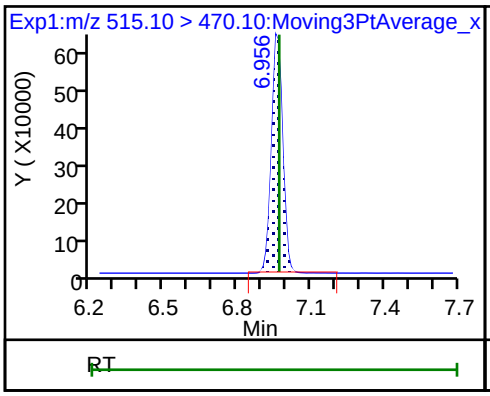
53 PFDA (ND)



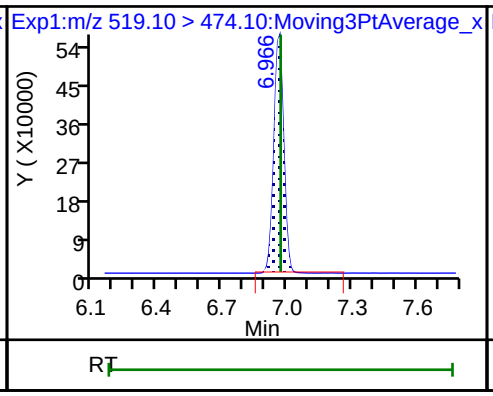
53 PFDA (ND)



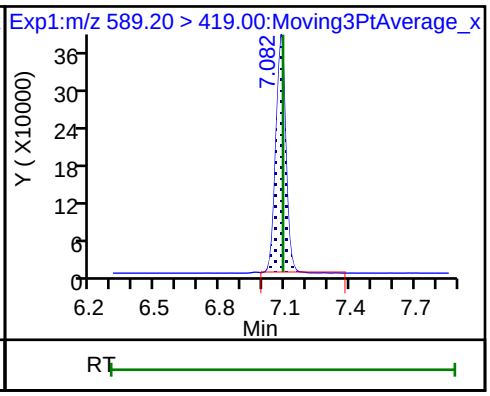
* 51 13C2 PFDA



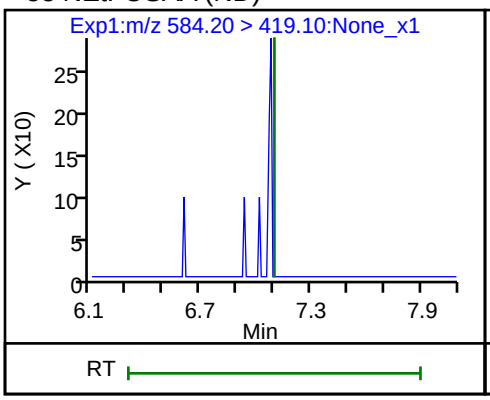
D 52 13C6 PFDA



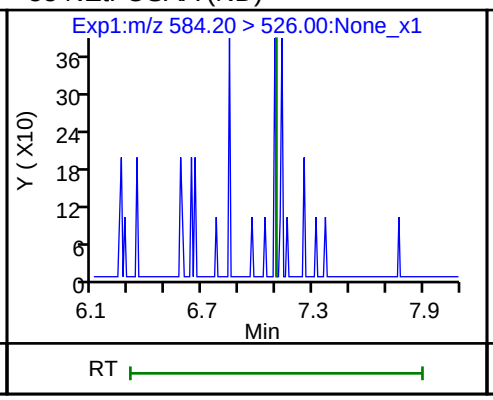
D 54 d5-NEtFOSAA



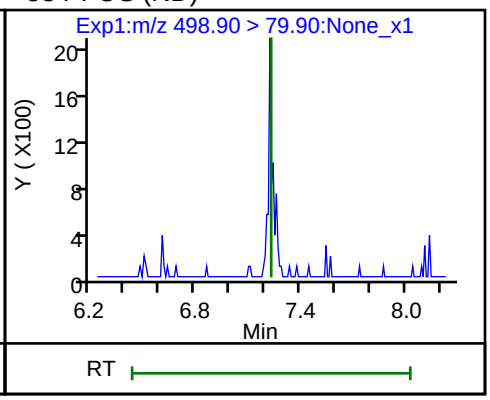
55 NEtFOSAA (ND)



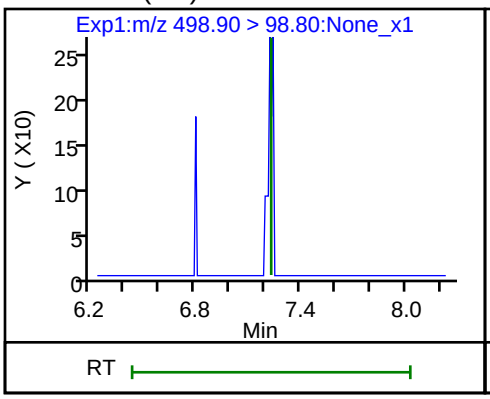
55 NEtFOSAA (ND)



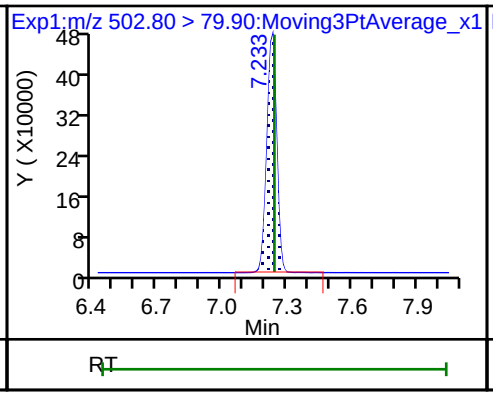
58 PFOS (ND)



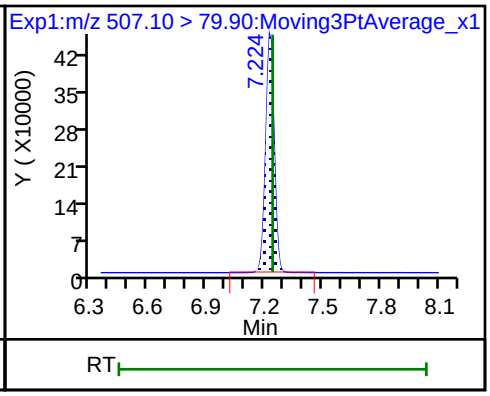
58 PFOS (ND)



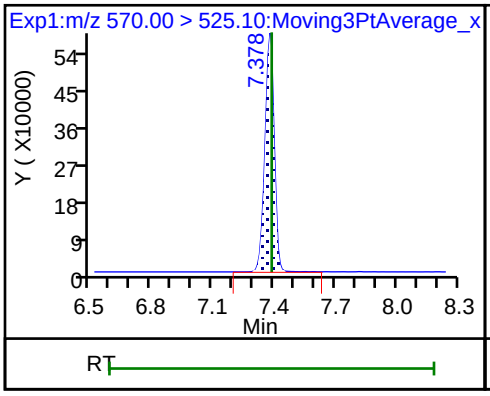
* 57 13C4 PFOS



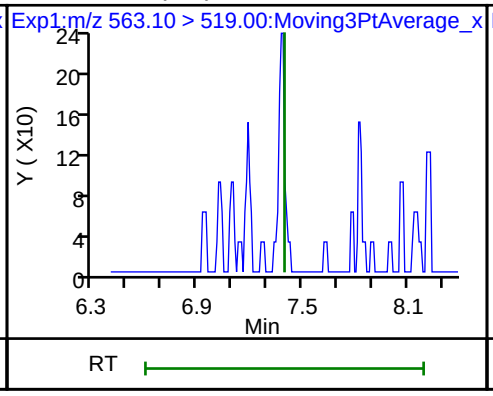
D 56 13C8 PFOS



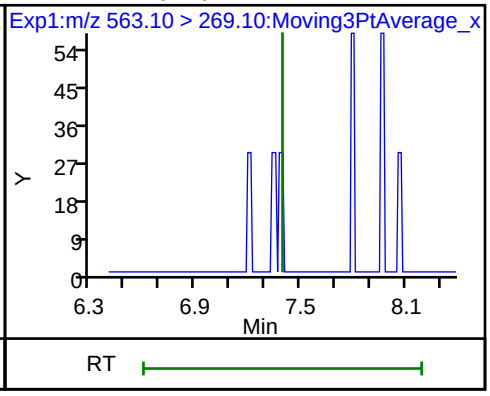
D 59 13C7 PFUnA



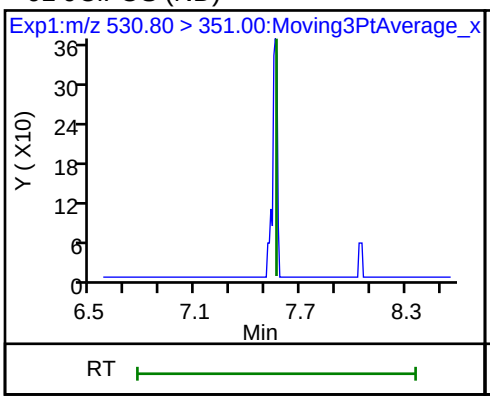
60 PFUnA (ND)



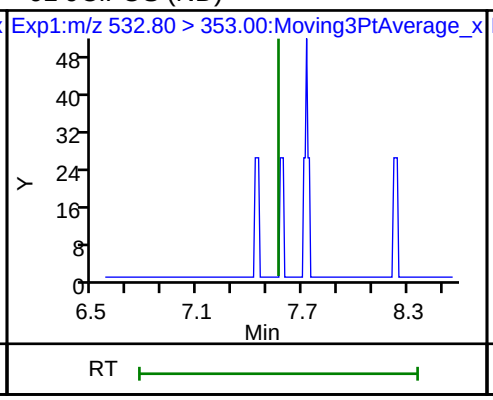
60 PFUnA (ND)



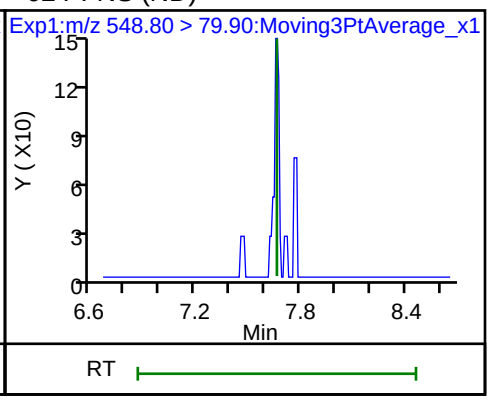
61 9ClFOS (ND)



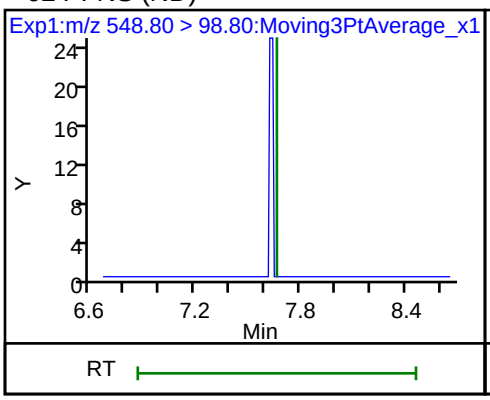
61 9ClFOS (ND)



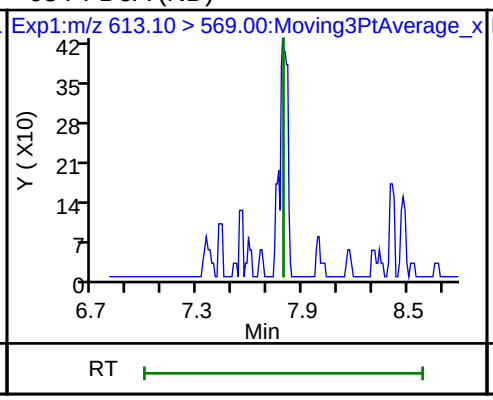
62 PFNS (ND)



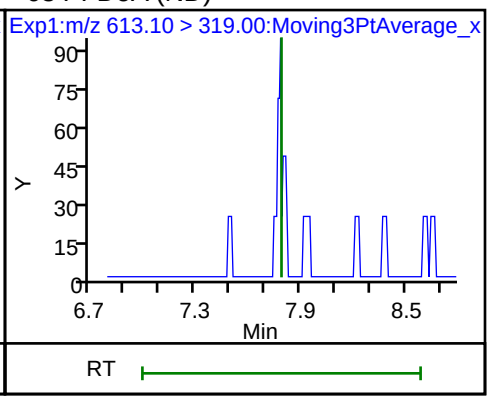
62 PFNS (ND)



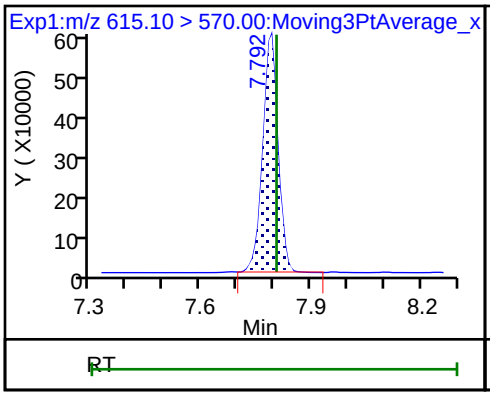
63 PFDoA (ND)



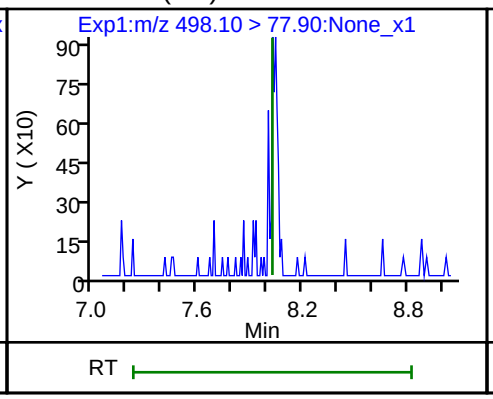
63 PFDoA (ND)



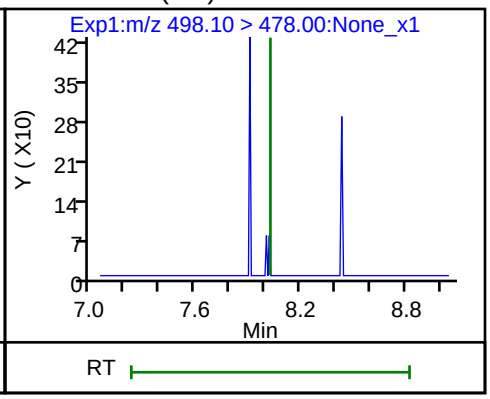
D 81 PFDoA



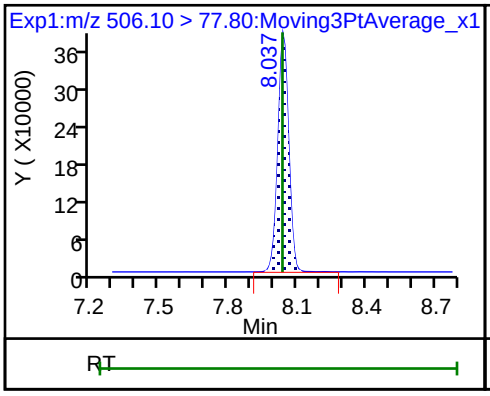
64 PFOSA (ND)



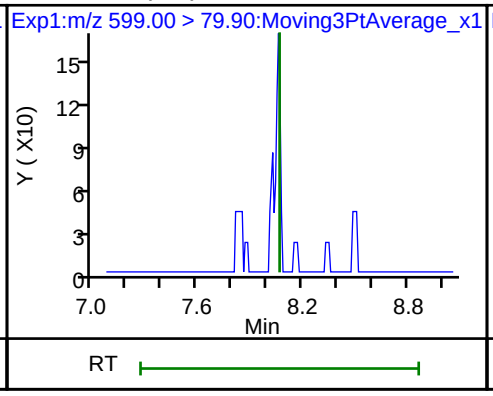
64 PFOSA (ND)



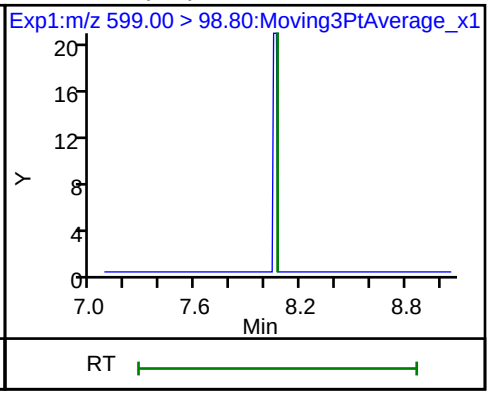
D 65 13C8 FOSA



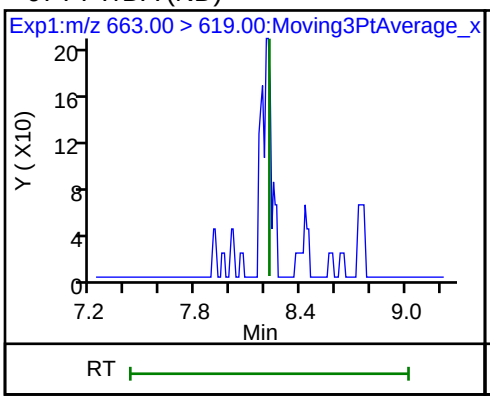
66 PFDS (ND)



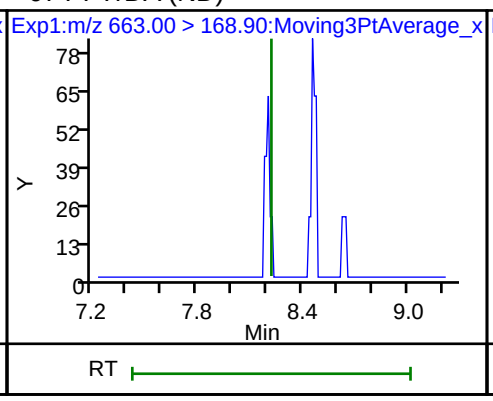
66 PFDS (ND)



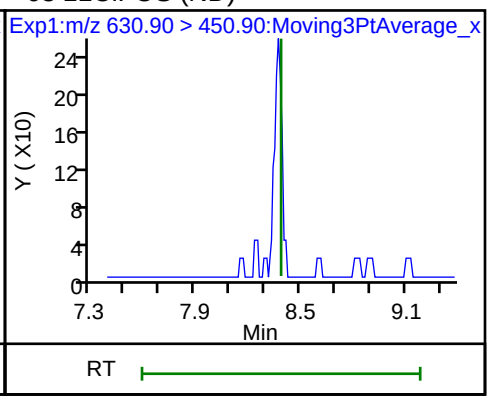
67 PFTrDA (ND)



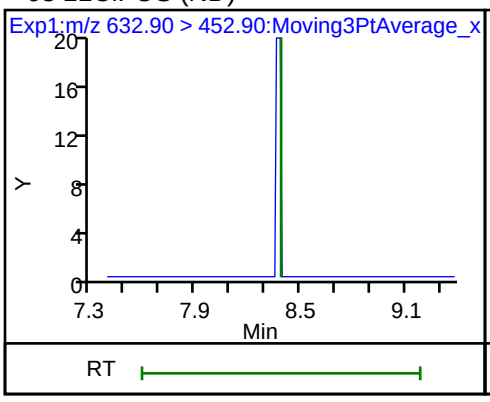
67 PFTrDA (ND)



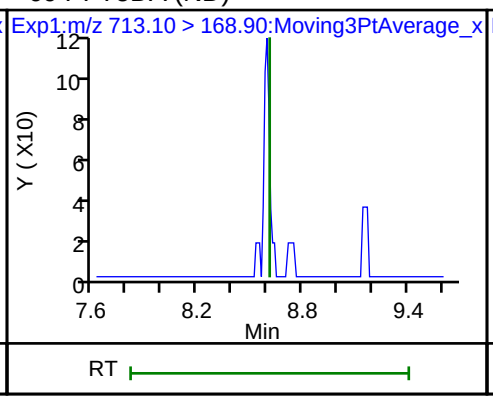
68 11ClFOS (ND)



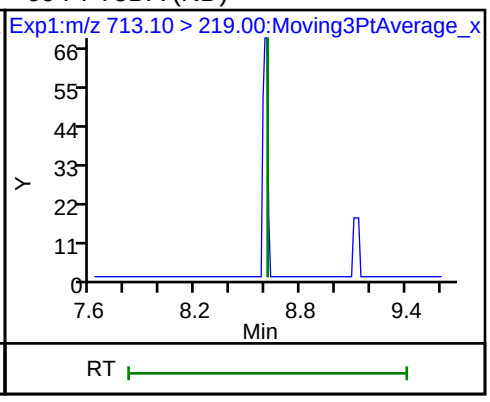
68 11ClFOS (ND)



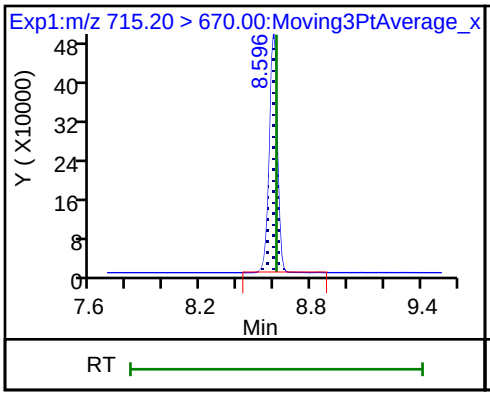
69 PFTeDA (ND)



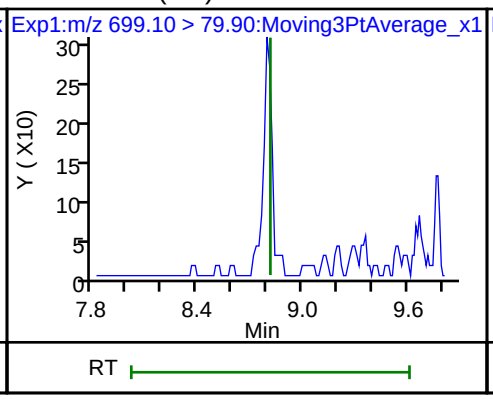
69 PFTeDA (ND)



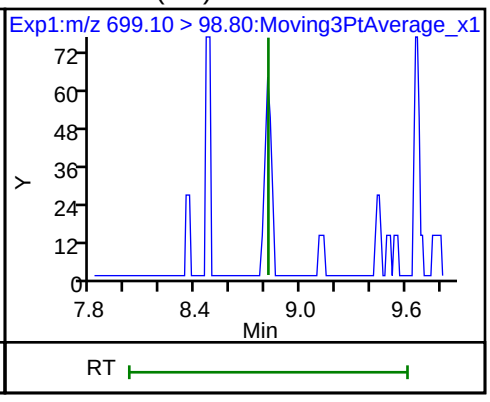
D 70 13C2 PFTeDA



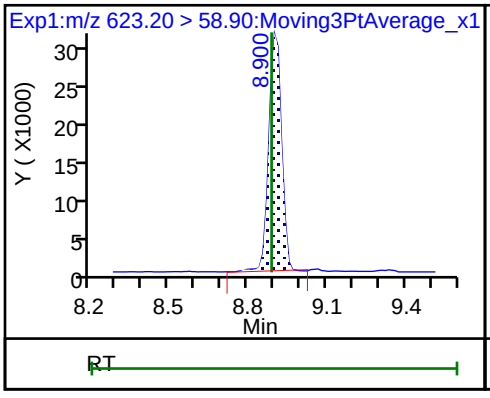
71 PFDoS (ND)



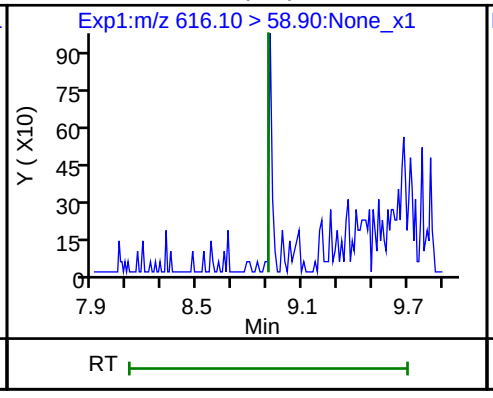
71 PFDoS (ND)



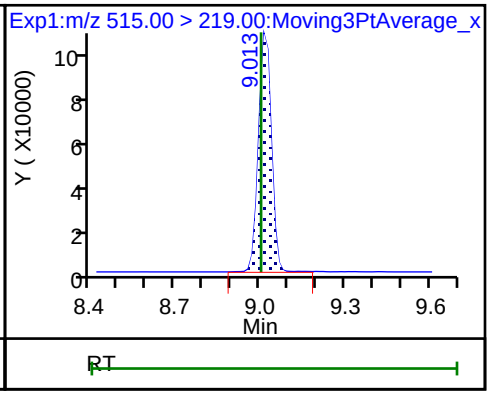
D 72 d7-N-Me-FOSE



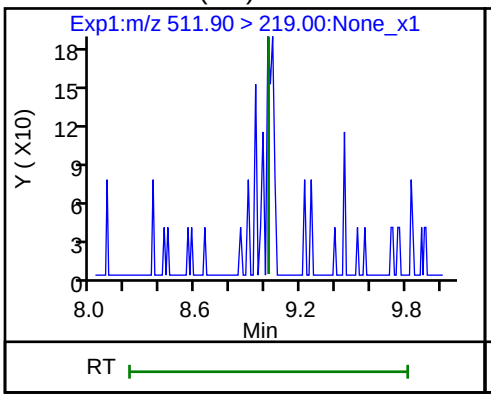
73 N-MeFOSE-M (ND)



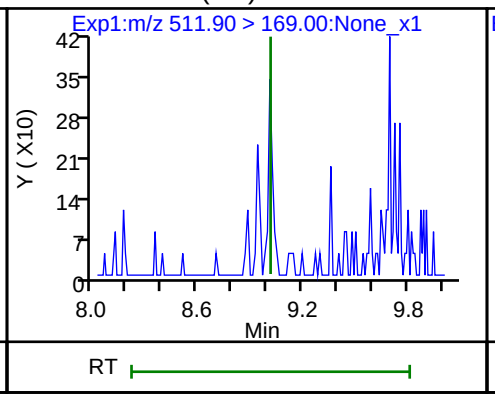
D 75 d3-NMePFOSA



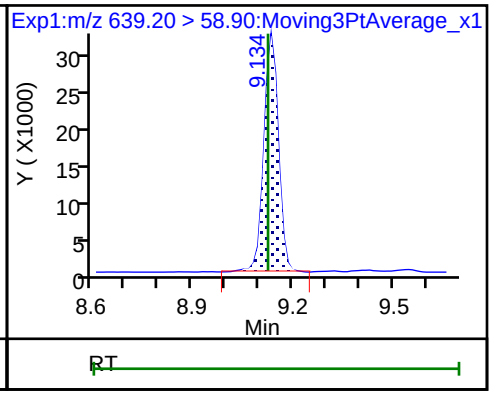
74 NMeFOSA (ND)



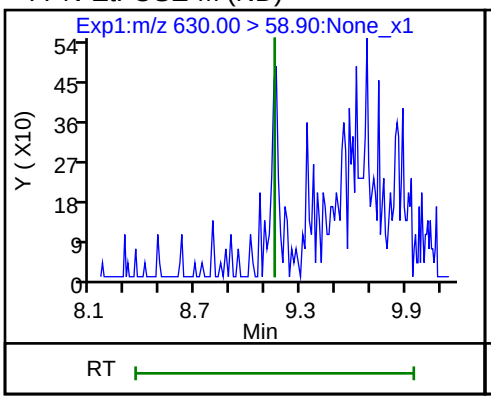
74 NMeFOSA (ND)



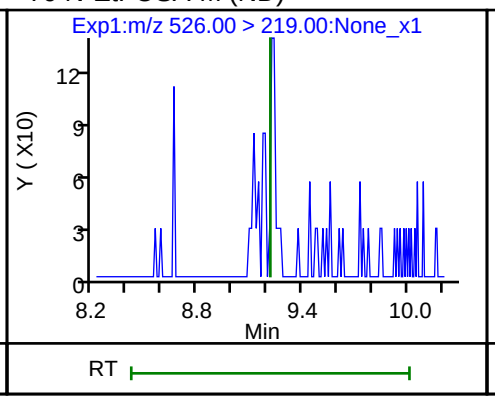
D 76 d9-N-EtFOSE



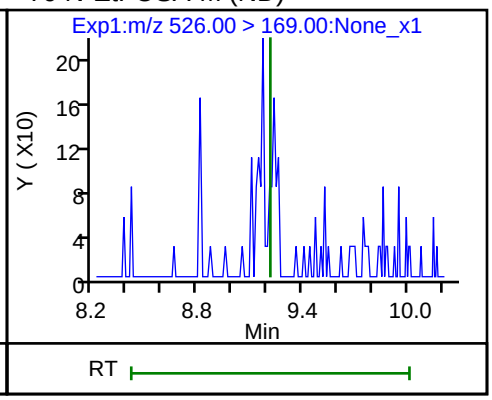
77 N-EtFOSE-M (ND)



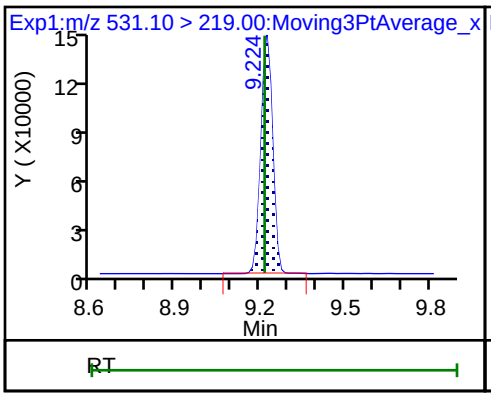
79 N-EtFOSA-M (ND)



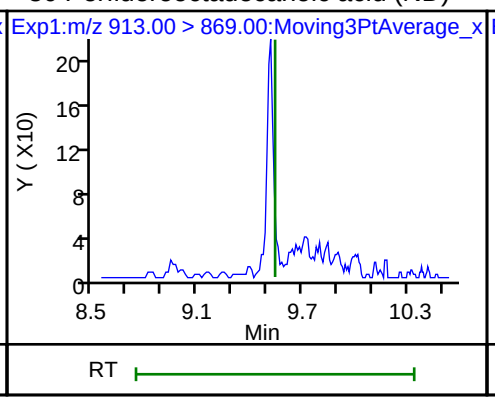
79 N-EtFOSA-M (ND)



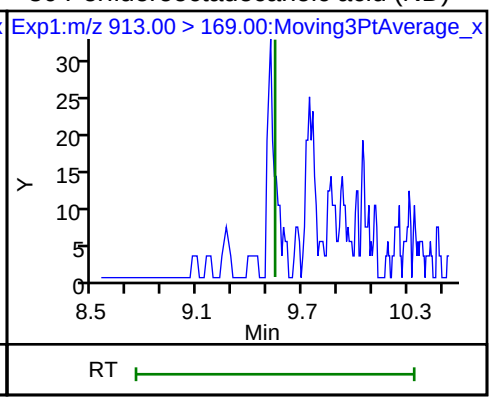
D 78 d5-NEtPFOSA



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-763219/38

Matrix: Water
Lab File ID: 26feb02PC-42.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/02/2026 19:53

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.010	U	0.010	0.0040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.010	U	0.010	0.0040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.010	U	0.010	0.0040
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.010	U	0.010	0.0040
335-67-1	Perfluorooctanoic acid (PFOA)	0.010	U	0.010	0.0040
375-95-1	Perfluorononanoic acid (PFNA)	0.010	U	0.010	0.0040
335-76-2	Perfluorodecanoic acid (PFDA)	0.010	U	0.010	0.0040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.010	U	0.010	0.0040
307-55-1	Perfluorododecanoic acid (PFDoA)	0.010	U	0.010	0.0040
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.010	U	0.010	0.0040
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.010	U	0.010	0.0040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.010	U	0.010	0.0040
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.010	U	0.010	0.0040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.010	U	0.010	0.0040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.010	U	0.010	0.0040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.010	U	0.010	0.0040
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.010	U	0.010	0.0040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.010	U	0.010	0.0040
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.010	U	0.010	0.0040
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.010	U	0.010	0.0040
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.010	U	0.010	0.0040
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.010	U	0.010	0.0040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.010	U	0.010	0.0040
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.010	U	0.010	0.0040
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 410-763219/38

Matrix: Water Lab File ID: 26feb02PC-42.d

Analysis Method: 1633A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 02/02/2026 19:53

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219 Units: ng/mL

Preparation Batch No.: Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.010	U	0.010	0.0040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.010	U	0.010	0.0040
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.010	U	0.010	0.0040
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.010	U	0.010	0.0040
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.010	U	0.010	0.0040
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.010	U	0.010	0.0040
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.010	U	0.010	0.0040
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.010	U	0.010	0.0040
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.010	U	0.010	0.0040
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.010	U	0.010	0.0040
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.010	U	0.010	0.0040
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.010	U	0.010	0.0040
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.010	U	0.010	0.0040
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.010	U	0.010	0.0040
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 410-763219/38

Matrix: Water Lab File ID: 26feb02PC-42.d

Analysis Method: 1633A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 02/02/2026 19:53

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219 Units: ng/mL

Preparation Batch No.: Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	101		5-130
2283397-79-3	13C5 PFPeA	98.7		40-130
2328024-54-8	13C5 PFHxA	100		40-130
2328024-55-9	13C4 PFHpA	107		40-130
1350614-84-4	13C8 PFOA	107		40-130
2283397-80-6	13C9 PFNA	106		40-130
2328024-56-0	13C6 PFDA	104		40-130
STL02580	13C7 PFUnA	111		30-130
STL02116	13C2 PFTeDA	93.1		10-130
2708218-83-9	13C3 PFBS	102		40-135
2708218-85-1	13C3 PFHxS	100		40-130
2265893-05-6	13C8 PFOS	106		40-130
STL01056	13C8 FOSA	92.0		40-130
1400690-70-1	d3-NMeFOSAA	94.2		40-170
1265205-97-7	d5-NEtFOSAA	97.5		25-135
STL02395	13C2 4:2 FTS	101		40-200
STL02279	13C2 6:2 FTS	114		40-200
STL02280	13C2 8:2 FTS	110		40-300
STL02255	13C3 HFPO-DA	103		40-130
STL02277	d7-N-MeFOSE-M	84.3		10-130
STL02278	d9-N-EtFOSE-M	74.8		10-130
STL02704	d5-NEtPFOSA	78.7		10-130
STL02705	d3-NMePFOSA	82.4		10-130
960315-52-0	13C2 PFDoA	111		10-130

Report Date: 03-Feb-2026 08:04:18 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26feb02PC-42.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 02-Feb-2026 19:53:17 ALS Bottle#: 1 Worklist Smp#: 38
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 03-Feb-2026 08:03:50 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1674

First Level Reviewer: VGQ7 Date: 03-Feb-2026 07:21:49
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.016	1.992	0.024	0.485	1225042	1.95		97.7	388	
D 3 13C4-PFBA										
216.80 > 171.90	4.156	4.161	-0.005	1.000	1531348	2.02		101	4199	
* 4 13C3PFBA										
216.00 > 172.00	4.156	4.169	-0.013		1448114	2.00			1284	
D 8 13C5 PFPeA										
268.30 > 223.00	4.817	4.822	-0.005	0.913	968508	1.97		98.7	6076	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.092	5.099	-0.006	0.805	632047	4.74		101	2666	
D 15 13C5 PFHxA										
318.00 > 273.00	5.274	5.282	-0.008	1.000	1932310	2.00		100	7572	
* 16 13C2 PFHxA										
315.10 > 270.00	5.274	5.282	-0.008		4221319	5.00			11760	
D 18 13C3 PFBS										
302.10 > 79.90	5.404	5.410	-0.006	0.854	1861639	1.89		102	8660	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.457	5.464	-0.007	1.035	1712640	2.05		103	7418	
23 TCDCA										
498.10 > 80.00	6.161	5.526	0.635	0.857	1022	NR			1.7	
27 TDCA										
498.00 > 80.00	5.877	5.643	0.234	0.818	628	NR			0.8	
D 26 13C4 PFHpA										
367.10 > 322.00	5.698	5.707	-0.009	1.080	2036614	2.14		107	4846	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.892	5.903	-0.011	0.931	593663	5.41		114	1821	
* 35 13C4 PFOA										
417.10 > 372.00	6.096	6.117	-0.021		5733252	5.00			11232	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 34 13C8 PFOA 421.10 > 376.00	6.096	6.117	-0.021	1.000	2453138	2.14		107	9129	
D 38 13C3 PFHxS 402.10 > 79.90	6.327	6.345	-0.018	1.000	1705830	1.90		100	5910	
* 37 18O2 PFHxS 403.00 > 83.90	6.327	6.345	-0.018		1656057	1.90			9053	
* 42 13C5 PFNA 468.00 > 423.00	6.505	6.525	-0.020		2072160	2.00			8836	
D 41 13C9 PFNA 472.10 > 427.00	6.505	6.525	-0.020	1.000	2051379	2.11		106	4778	
D 45 13C2-8:2FTS 529.10 > 80.90	6.699	6.707	-0.008	1.059	550591	5.26		110	1551	
D 49 d3-NMeFOSAA 573.20 > 419.00	6.857	6.877	-0.020	0.954	1030955	4.71		94.2	1377	
D 51 13C6 PFDA 519.10 > 474.10	6.917	6.938	-0.021	1.000	1889664	2.08		104	5170	
* 52 13C2 PFDA 515.10 > 470.10	6.917	6.938	-0.021		1798358	2.00			8071	
D 54 d5-NEtFOSAA 589.20 > 419.00	7.035	7.057	-0.022	0.979	922319	4.88		97.5	1675	
D 56 13C8 PFOS 507.10 > 79.90	7.187	7.208	-0.021	1.000	1520502	2.04		106	4233	
* 57 13C4 PFOS 502.80 > 79.90	7.187	7.208	-0.021		1408996	1.92			7603	
D 59 13C7 PFUnA 570.00 > 525.10	7.331	7.353	-0.022	1.060	2016457	2.22		111	3672	
D 82 PFDoA 615.10 > 570.00	7.748	7.777	-0.029	1.120	1418154	2.22		111	1682	
D 64 13C8 FOSA 506.10 > 77.80	7.944	7.965	-0.021	1.105	1540811	1.84		92.0	7730	
D 69 13C2 PFTeDA 715.20 > 670.00	8.489	8.510	-0.021	1.227	987096	1.86		93.1	4062	
D 71 d7-N-Me-FOSE 623.20 > 58.90	8.728	8.738	-0.010	1.214	556153	4.21		84.3	371	
D 74 d3-NMePFOSA 515.00 > 219.00	8.824	8.834	-0.010	1.228	389534	1.65		82.4	2946	
D 76 d9-N-EtFOSE 639.20 > 58.90	8.918	8.926	-0.008	1.241	656024	3.74		74.8	658	
D 78 d5-NEtPFOSA 531.10 > 219.00	8.982	8.991	-0.009	1.250	452849	1.57		78.7	2309	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00512	Amount Added: 50.00	Units: uL
1633_125_SS_00202	Amount Added: 5.00	Units: uL

Report Date: 03-Feb-2026 08:04:18 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26feb02PC-42.d

Injection Date: 02-Feb-2026 19:53:17 Instrument ID: 30576

Lims ID: CCB

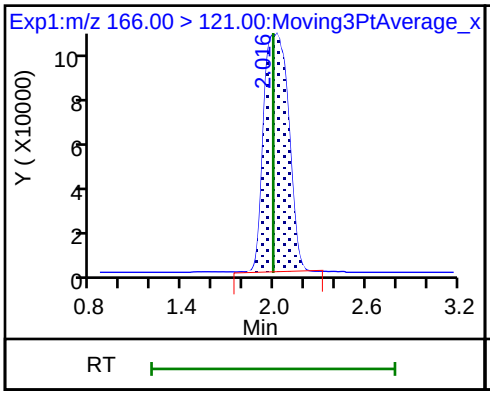
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 1 Worklist Smp#: 38

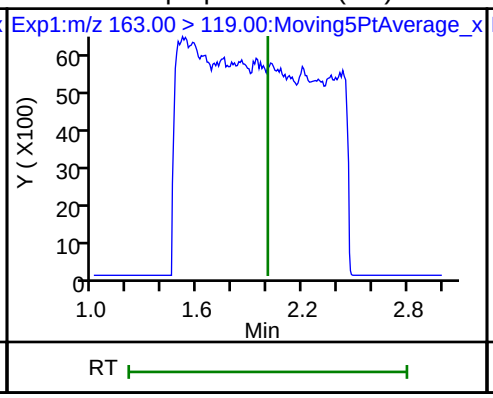
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

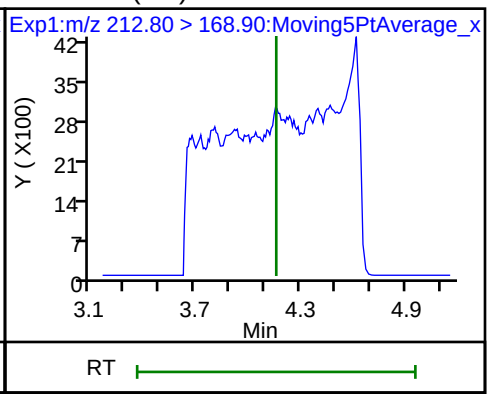
D 1 13C3PFPrA



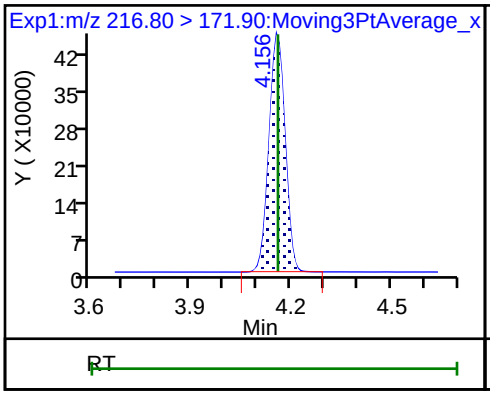
2 Perfluoropropionic acid (ND)



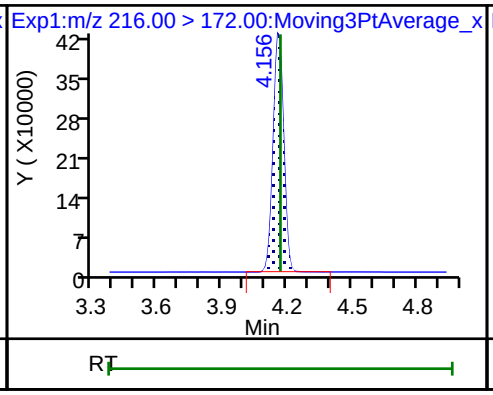
5 PFBA (ND)



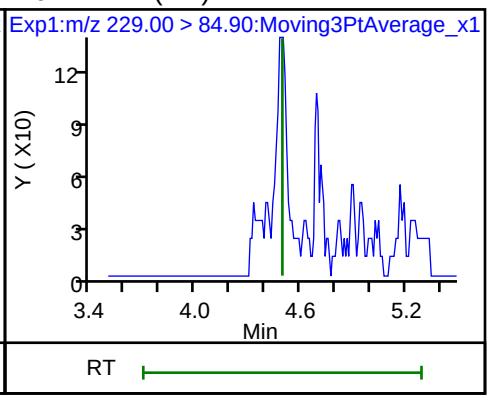
D 3 13C4-PFBA



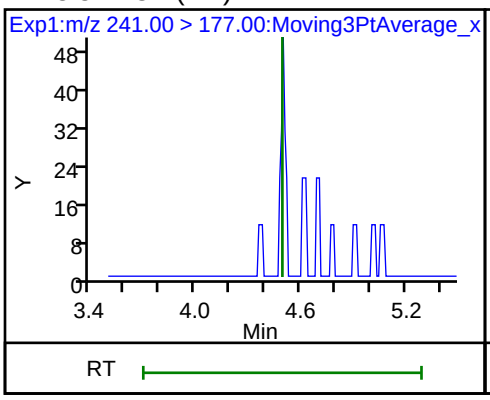
* 4 13C3PFBA



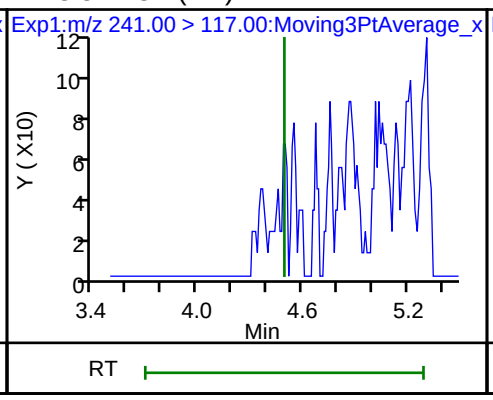
6 PFMPA (ND)



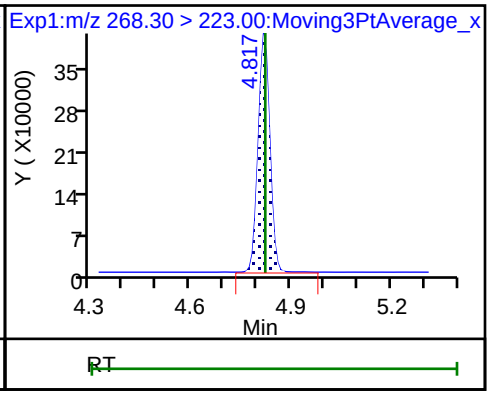
7 3:3 FTCA (ND)



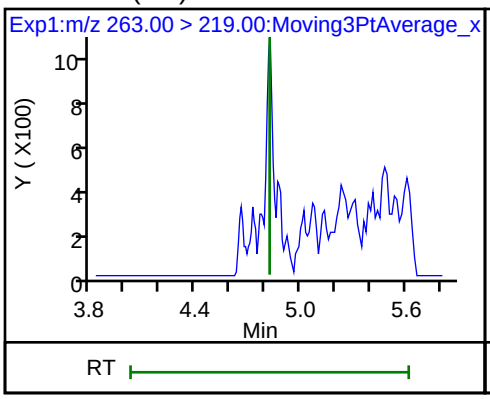
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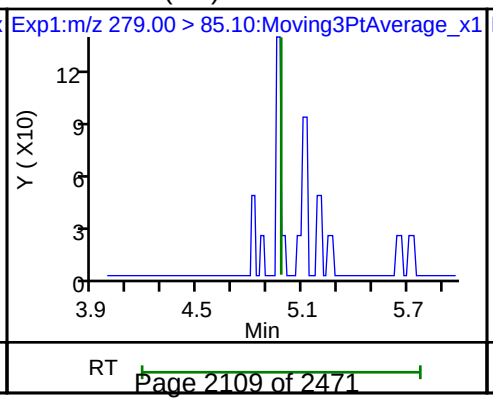
D 8 13C5 PFPeA



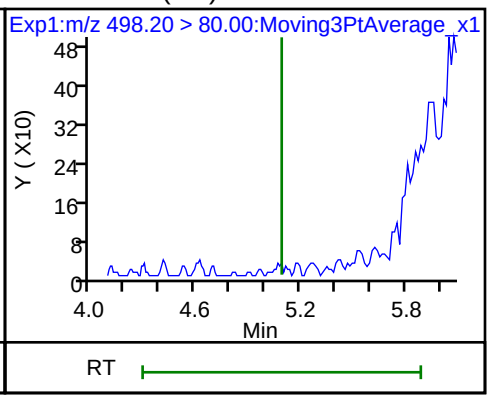
9 PFPA (ND)



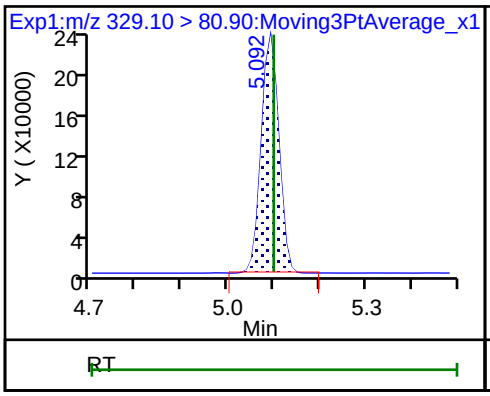
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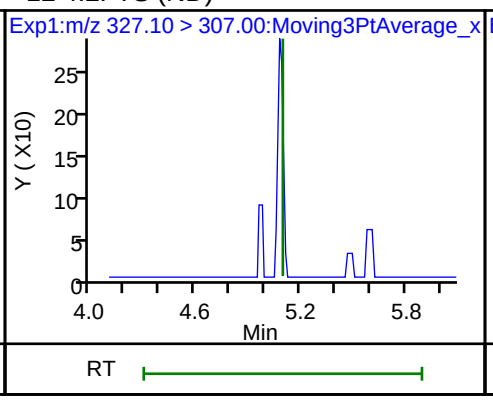
13 TUDCA (ND)



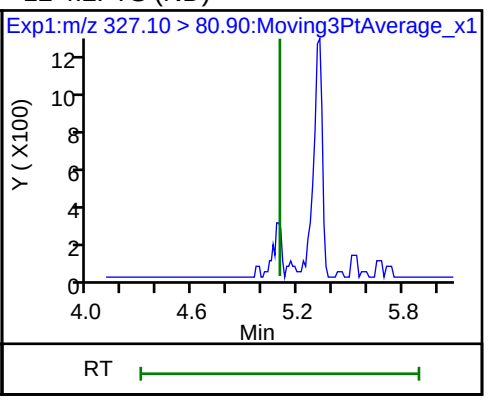
D 11 13C2-4:2FTS



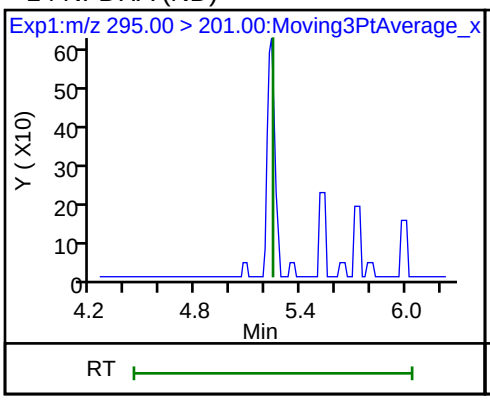
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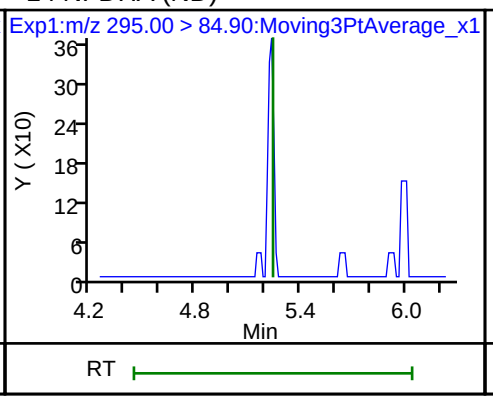
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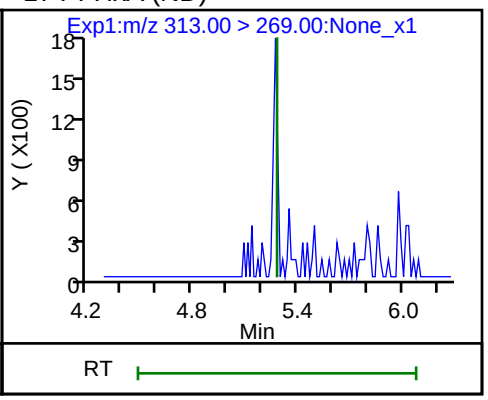
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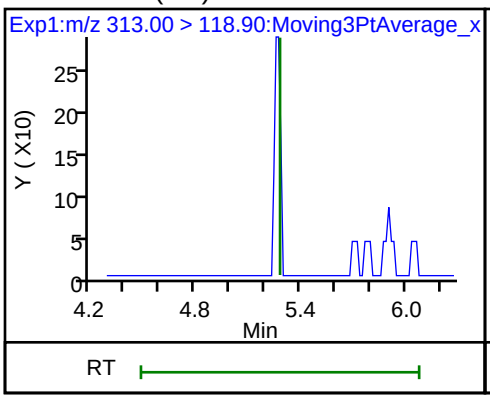
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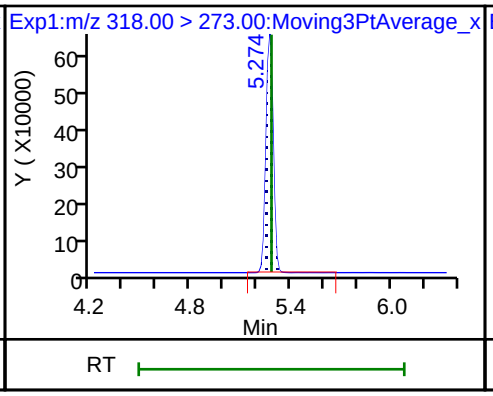
17 PFHxA (ND)



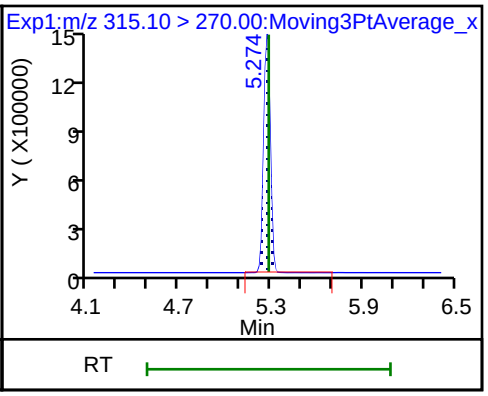
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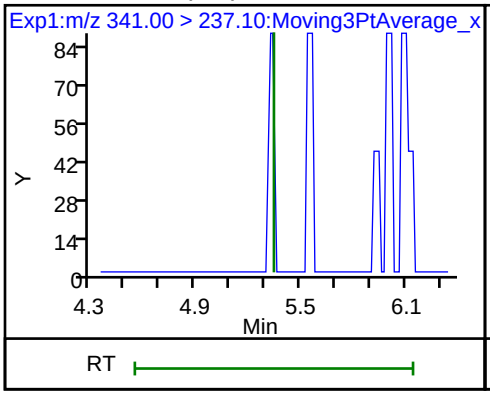
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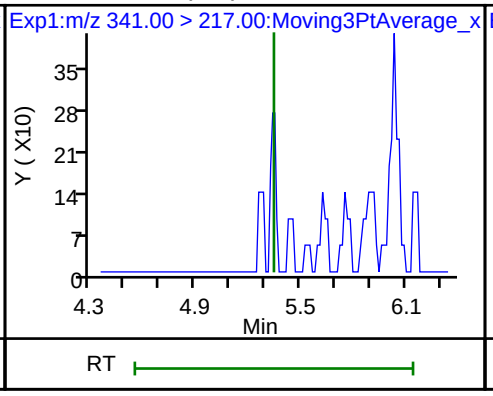
* 16 13C2 PFHxA



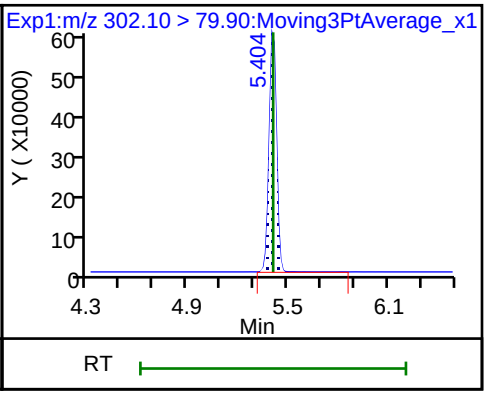
20 5:3 FTCA (ND)



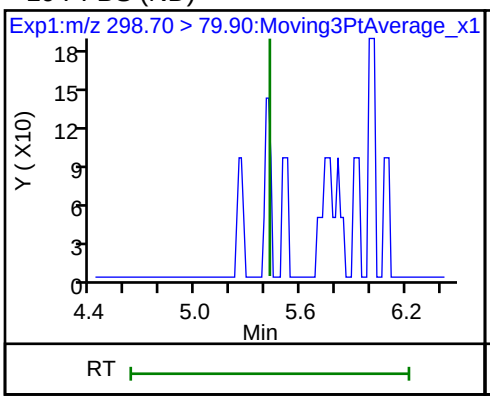
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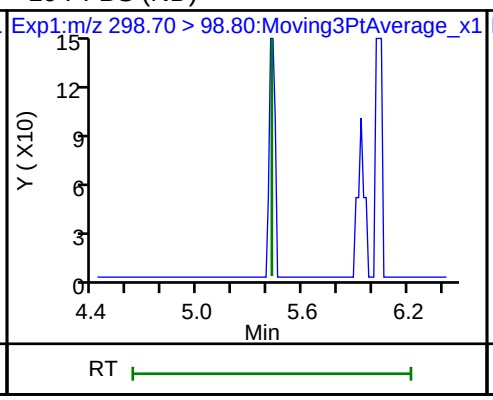
D 18 13C3 PFBS



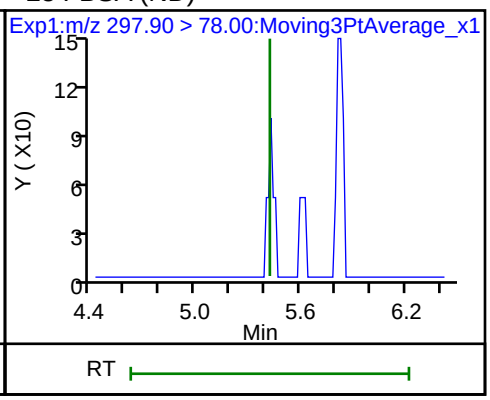
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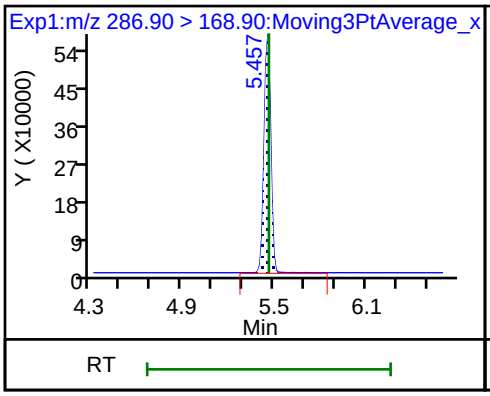
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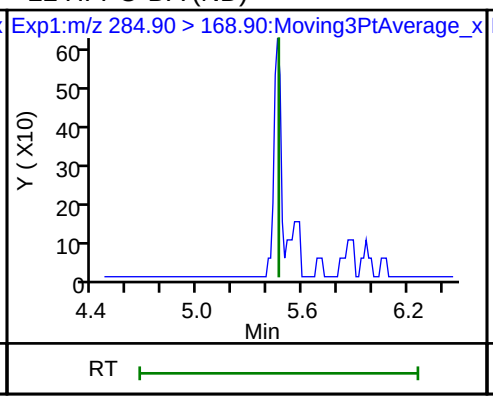
25 FBSA (ND)



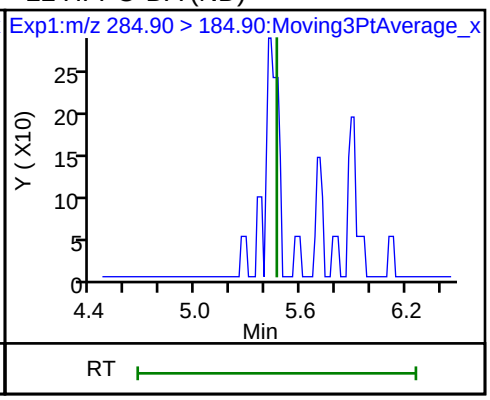
D 21 13C3 HFPO-DA



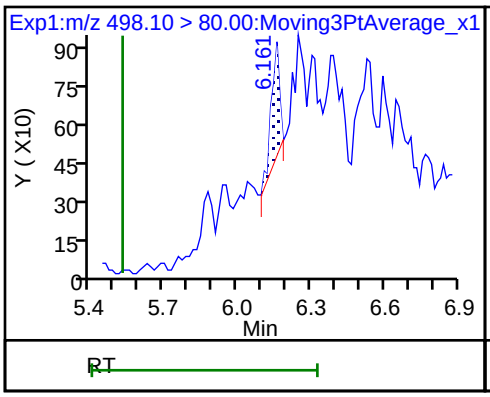
22 HFPO-DA (ND)



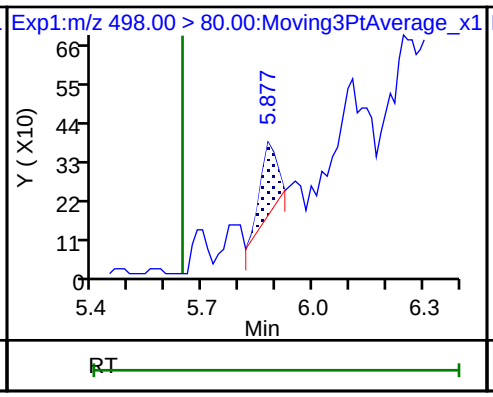
22 HFPO-DA (ND)



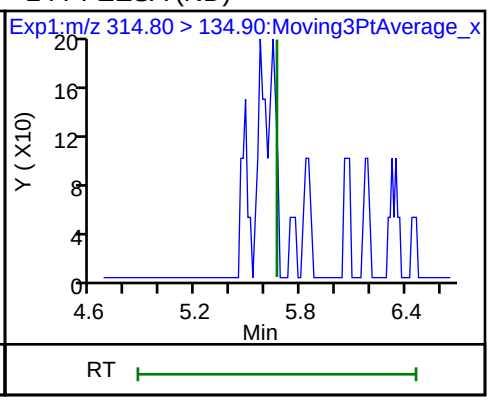
23 TCDCA



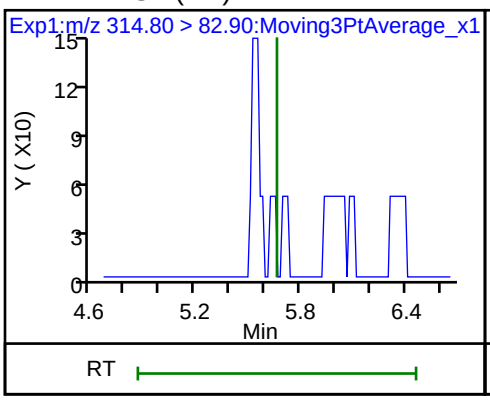
27 TDCA



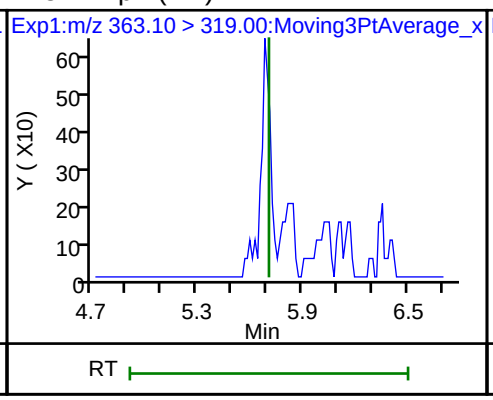
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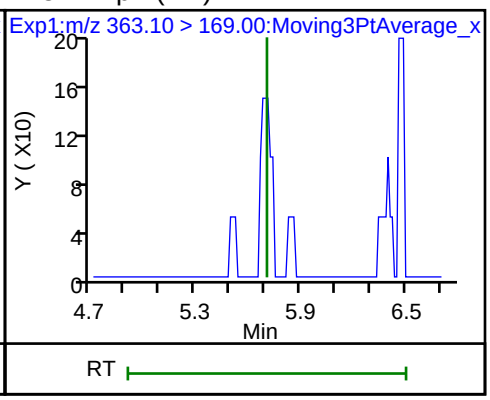
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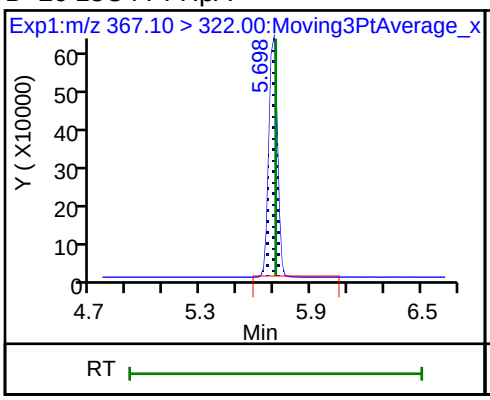
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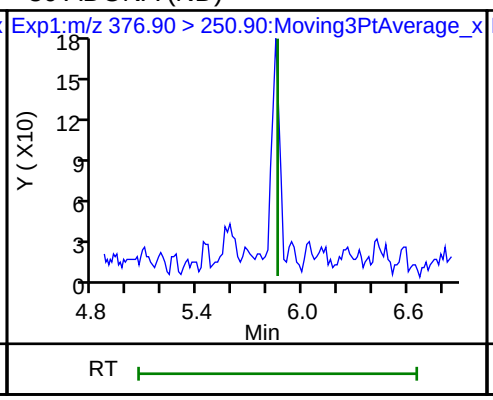
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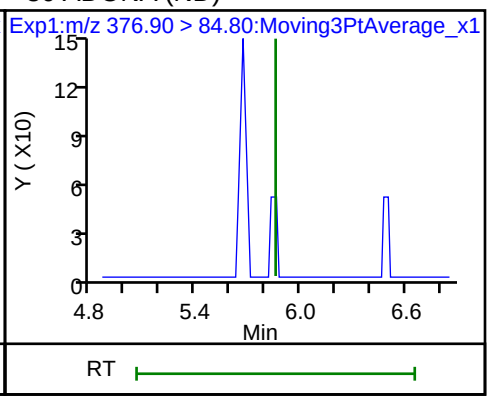
D 26 13C4 PFHpA



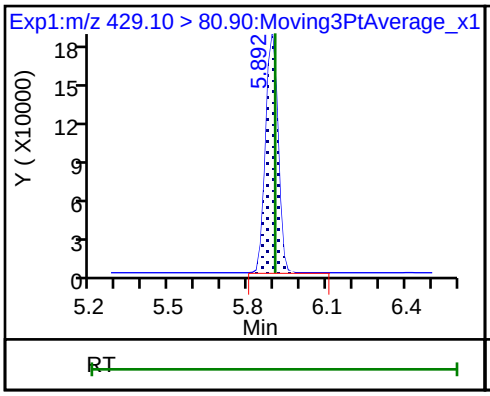
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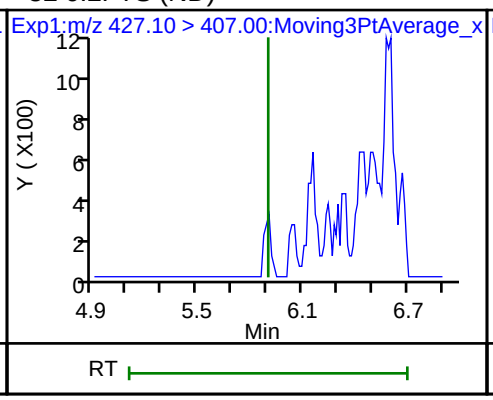
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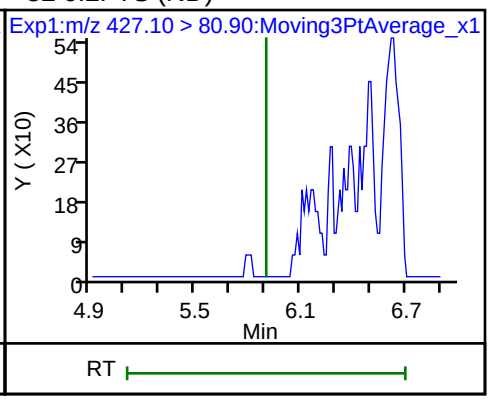
D 31 13C2-6:2FTS



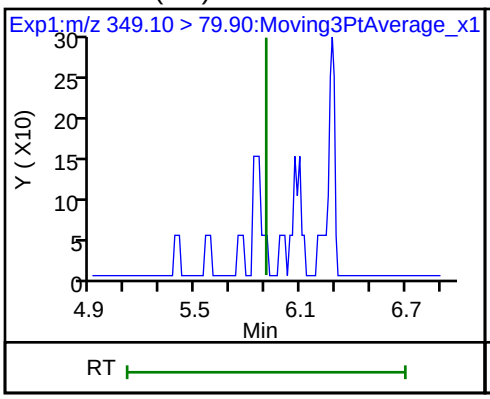
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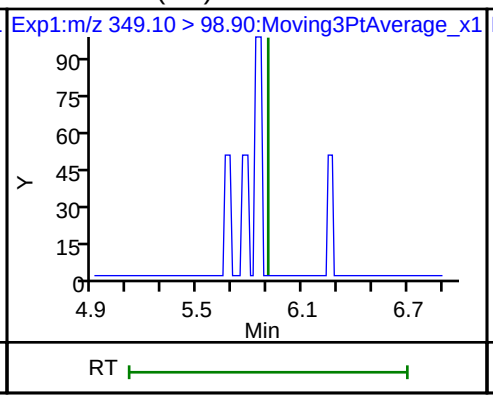
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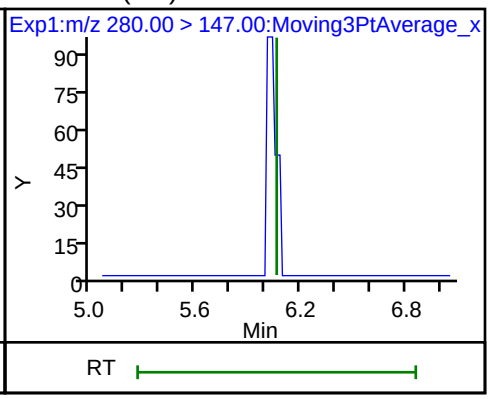
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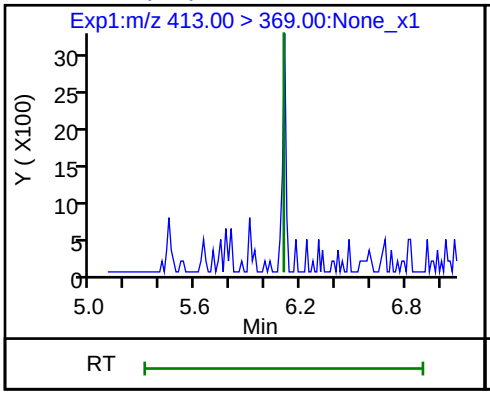
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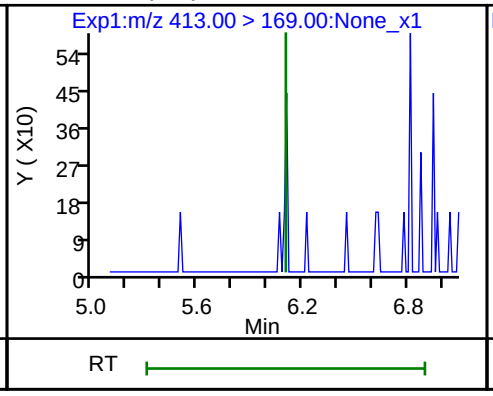
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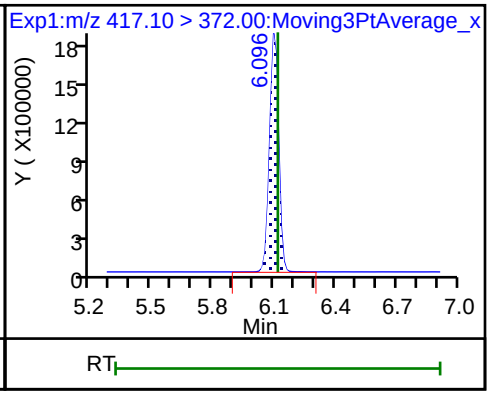
36 PFOA (ND)



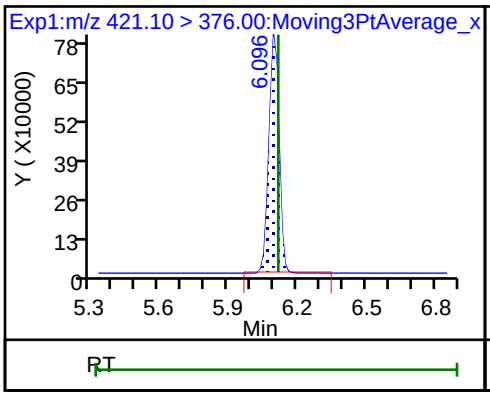
36 PFOA (ND)



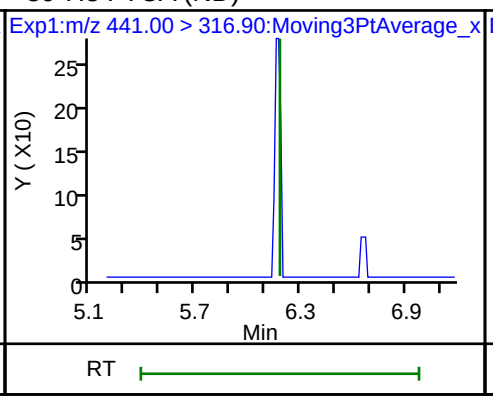
* 35 13C4 PFOA



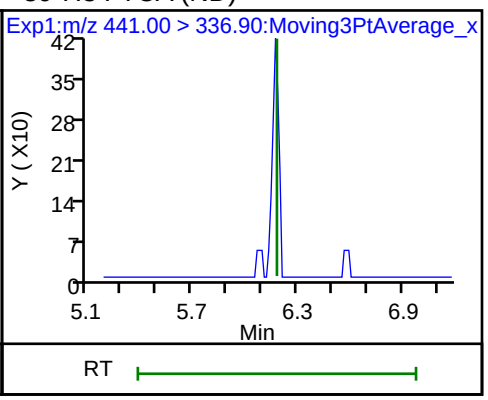
D 34 13C8 PFOA



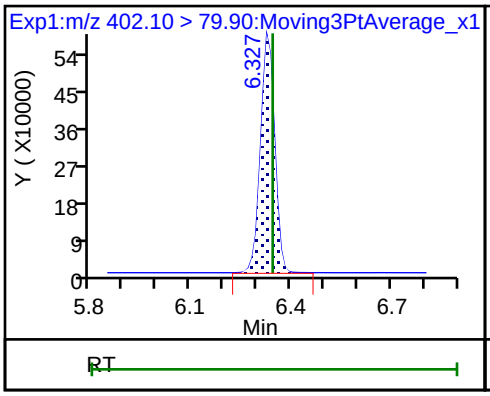
39 7:3 FTCA (ND)



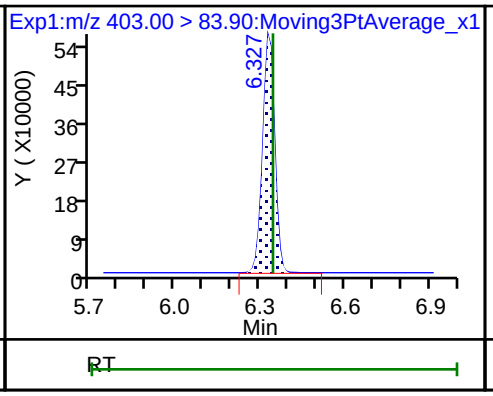
39 7:3 FTCA (ND)



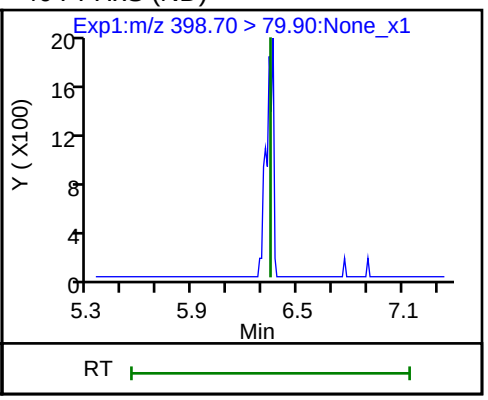
D 38 13C3 PFHxS



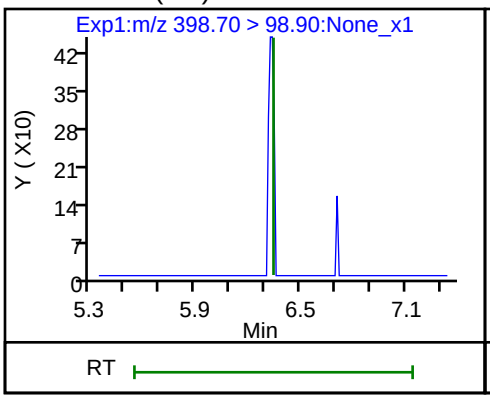
* 37 18O2 PFHxS



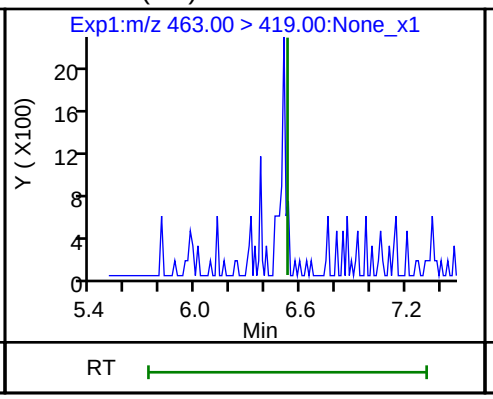
40 PFHxS (ND)



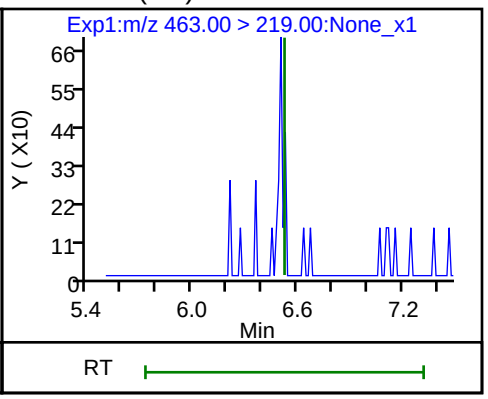
40 PFHxS (ND)



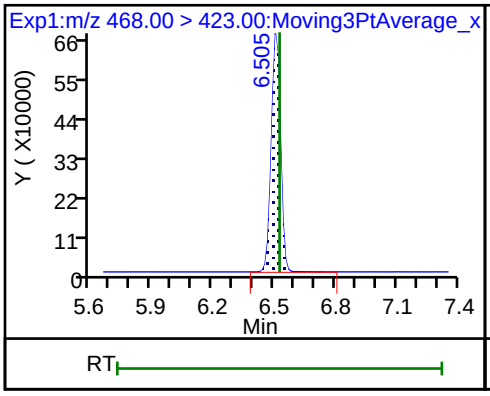
43 PFNA (ND)



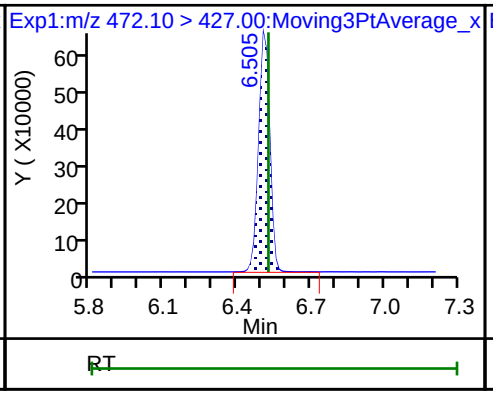
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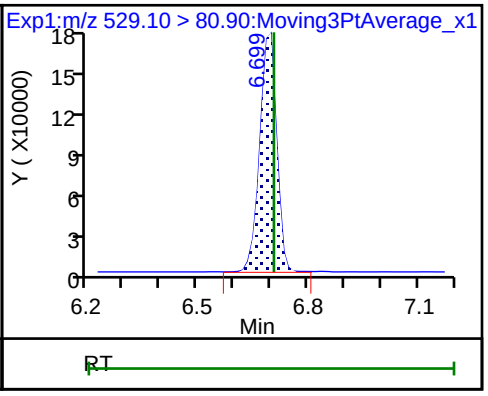
* 42 13C5 PFNA



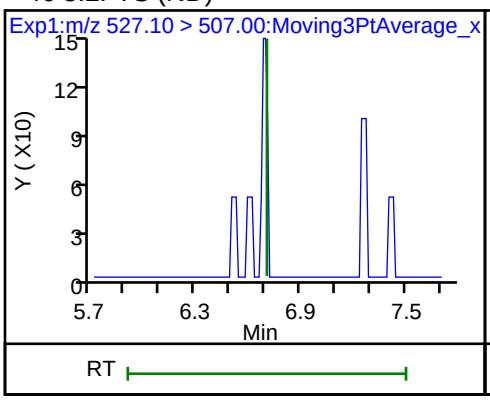
D 41 13C9 PFNA



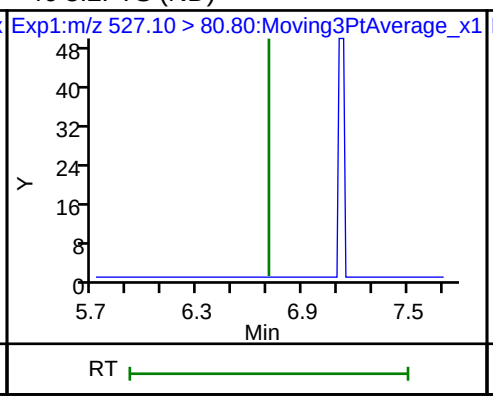
D 45 13C2-8:2FTS



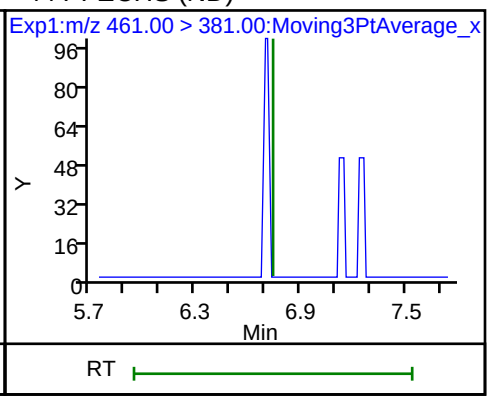
46 8:2FTS (ND)



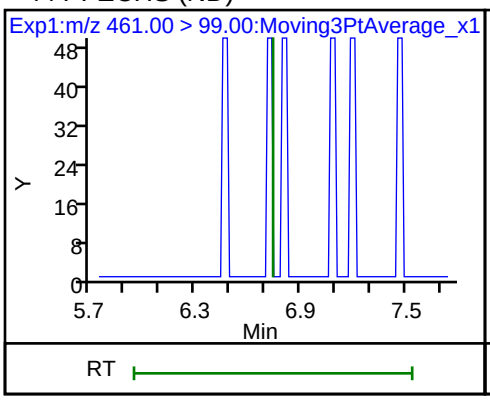
46 8:2FTS (ND)



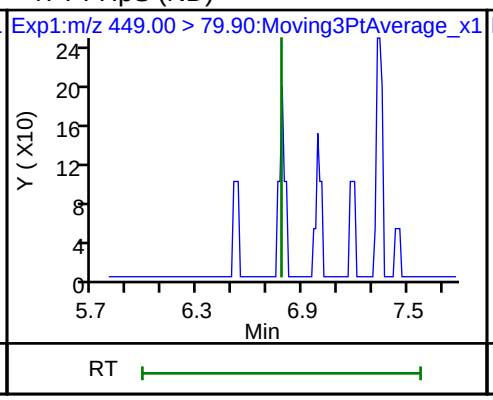
44 PFECHS (ND)



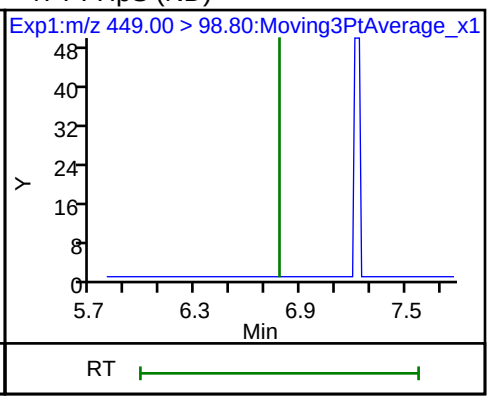
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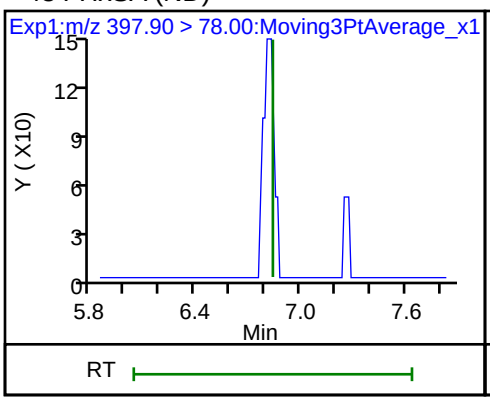
47 PFHpS (ND)



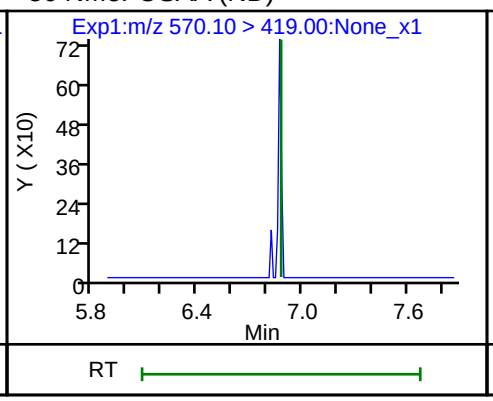
47 PFHpS (ND)



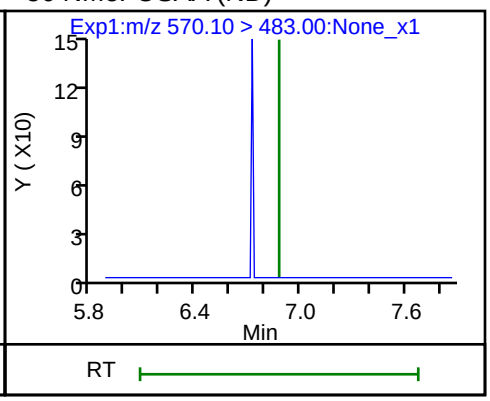
48 FHxSA (ND)



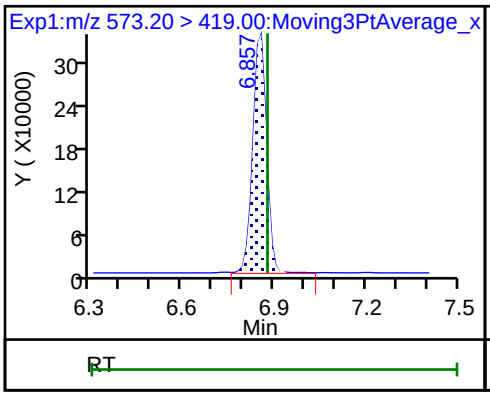
50 NMeFOSAA (ND)



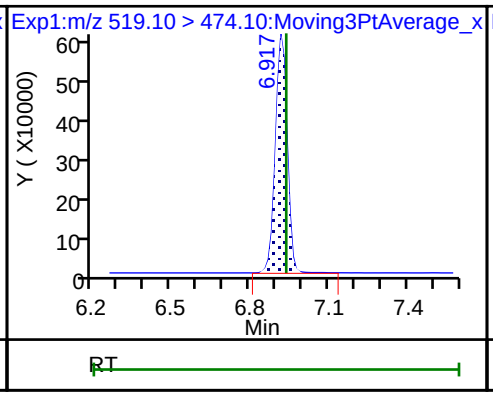
50 NMeFOSAA (ND)



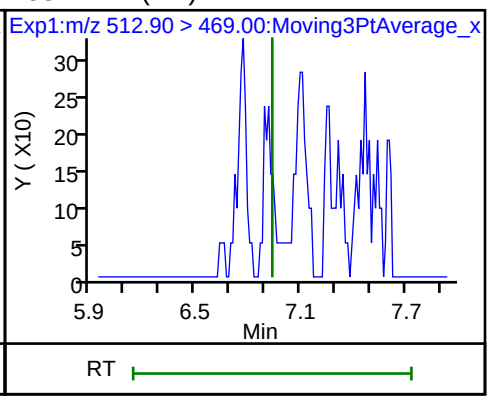
D 49 d3-NMeFOSAA



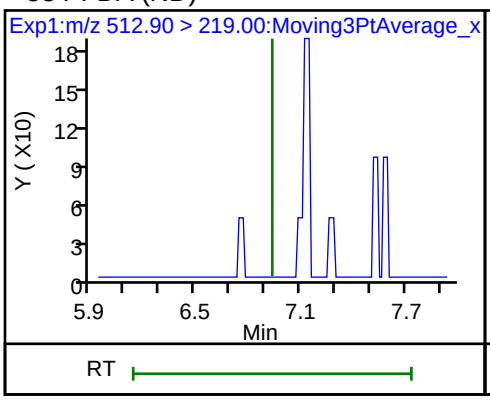
D 51 13C6 PFDA



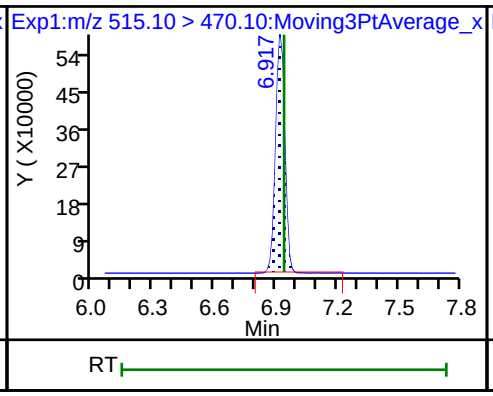
53 PFDA (ND)



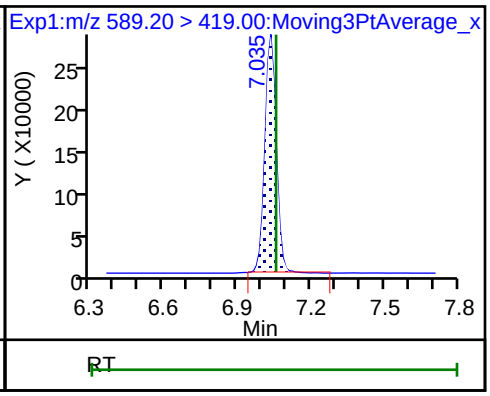
53 PFDA (ND)



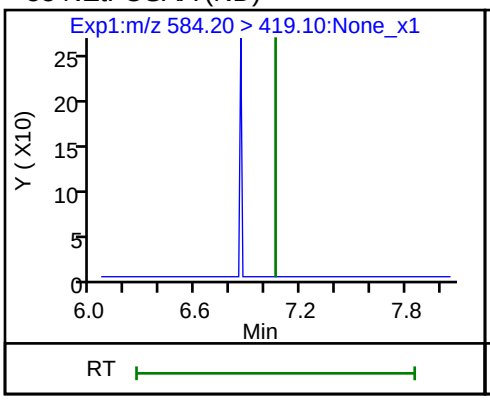
* 52 13C2 PFDA



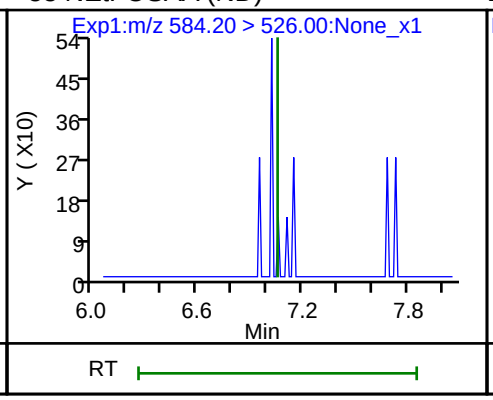
D 54 d5-NEtFOSAA



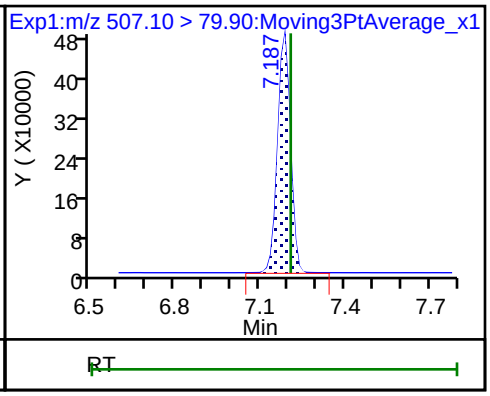
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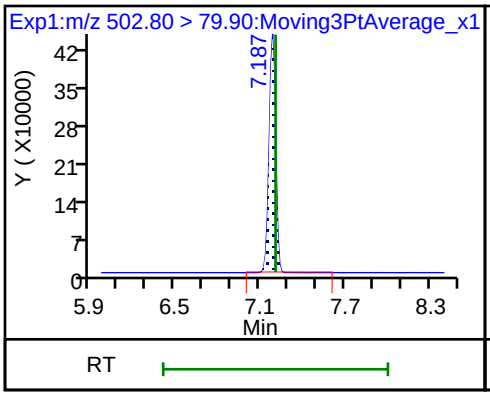
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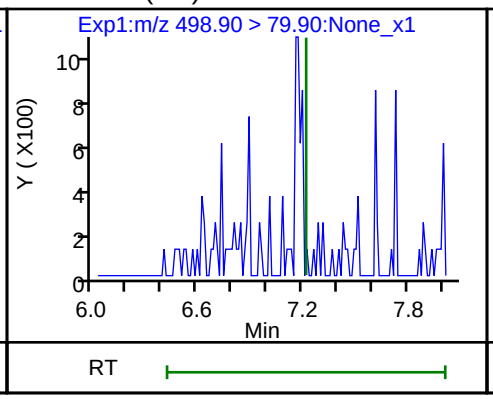
D 56 13C8 PFOS



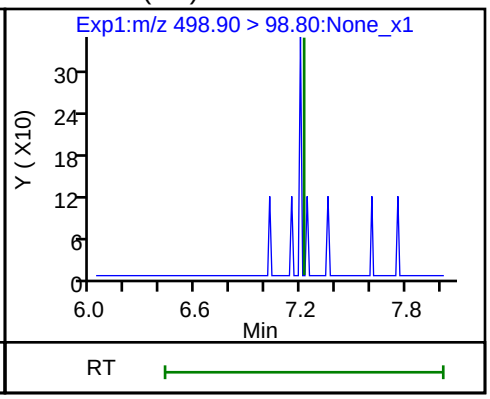
* 57 13C4 PFOS



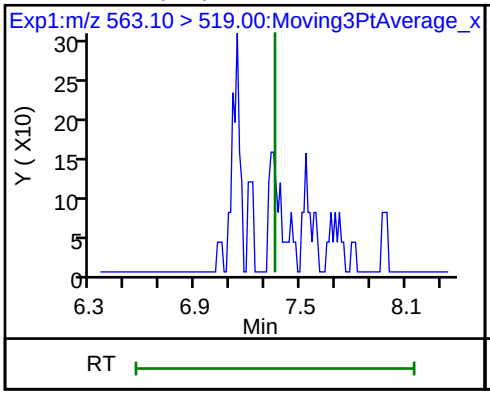
58 PFOS (ND)



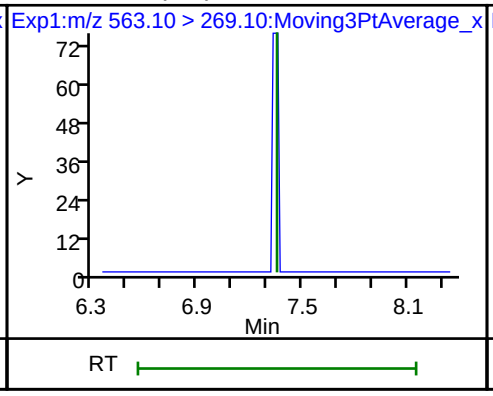
58 PFOS (ND)



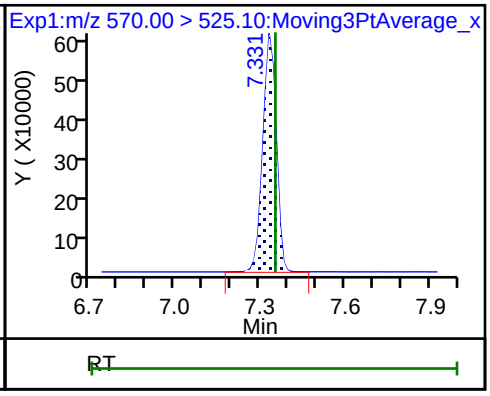
60 PFUnA (ND)



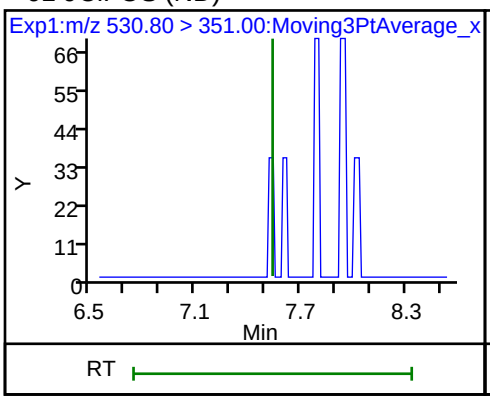
60 PFUnA (ND)



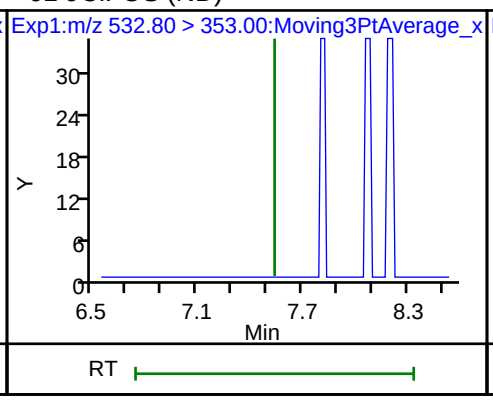
D 59 13C7 PFUnA



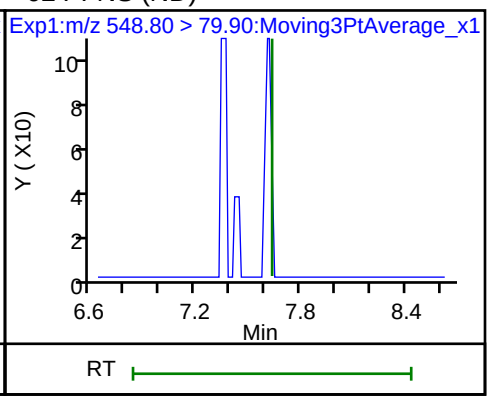
61 9ClFOS (ND)



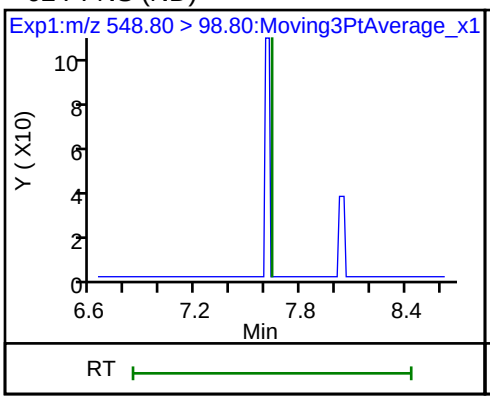
61 9ClFOS (ND)



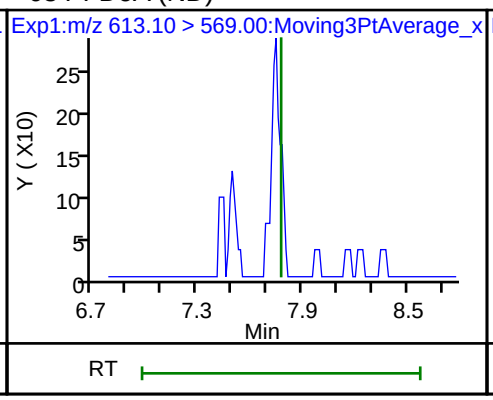
62 PFNS (ND)



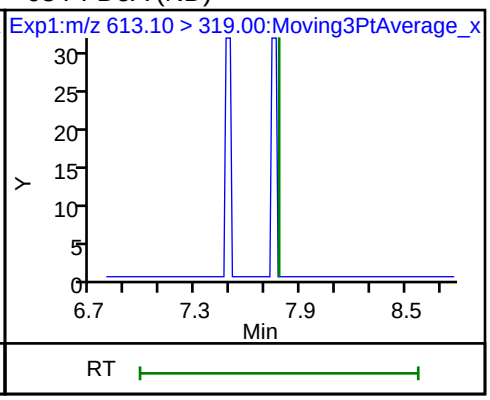
62 PFNS (ND)



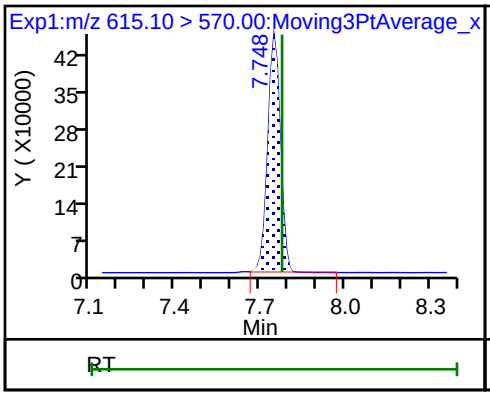
63 PFDoA (ND)



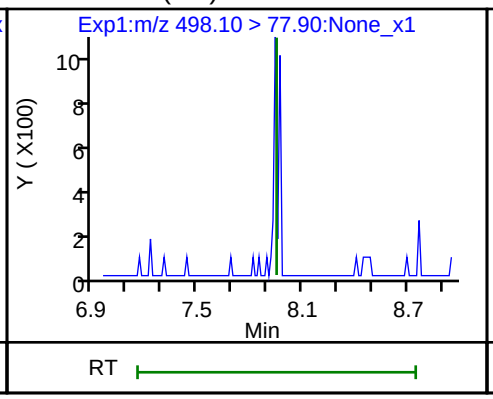
63 PFDoA (ND)



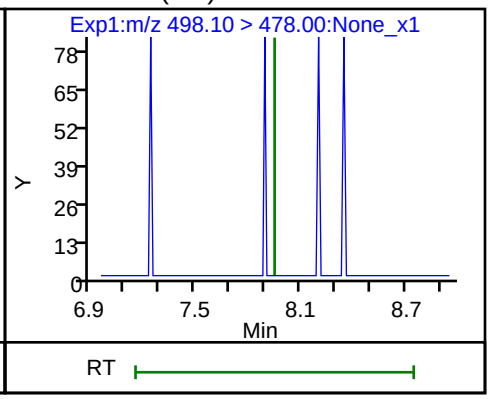
D 82 PFDoA



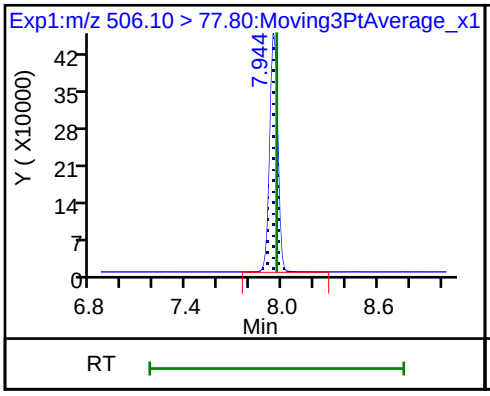
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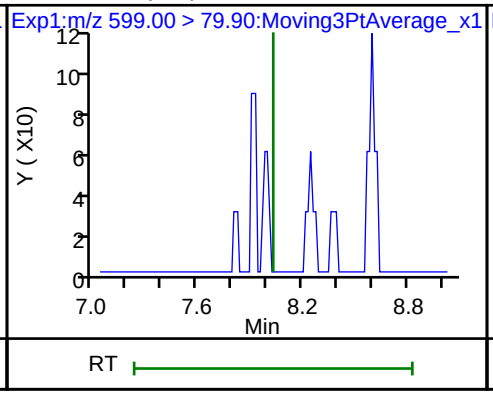
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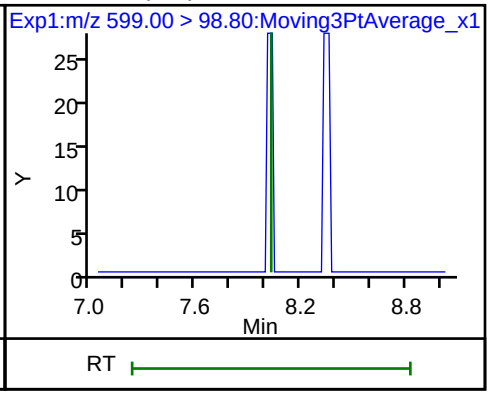
D 64 13C8 FOSA



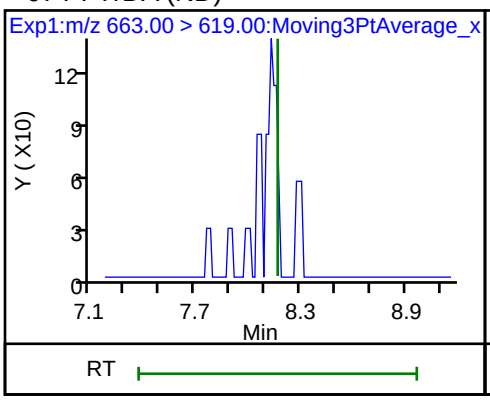
66 PFDS (ND)



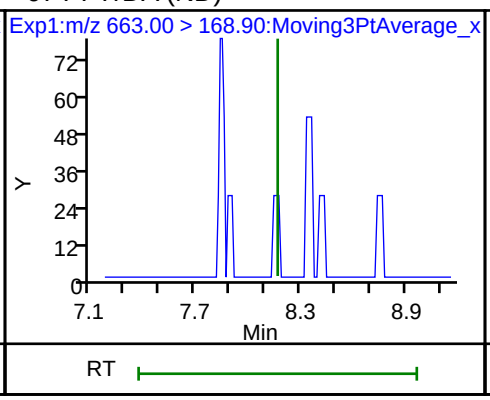
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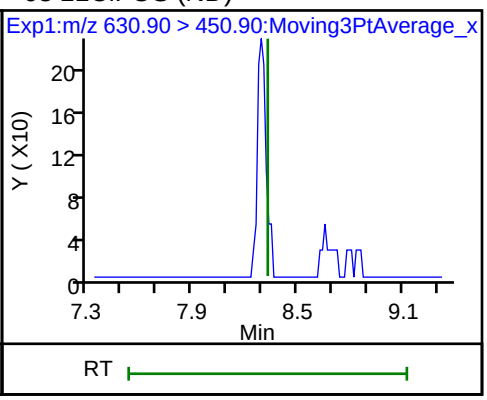
67 PFTrDA (ND)



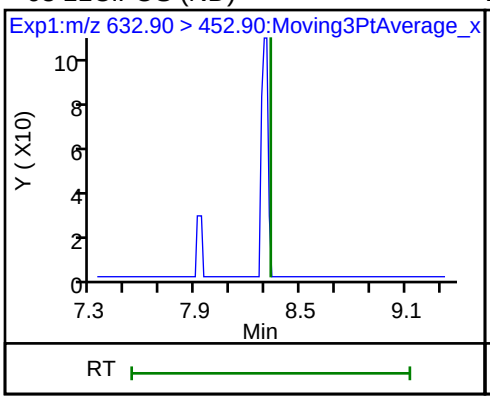
67 PFTrDA (ND)



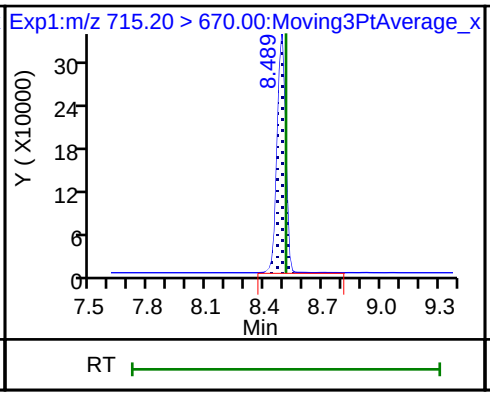
68 11ClFOS (ND)



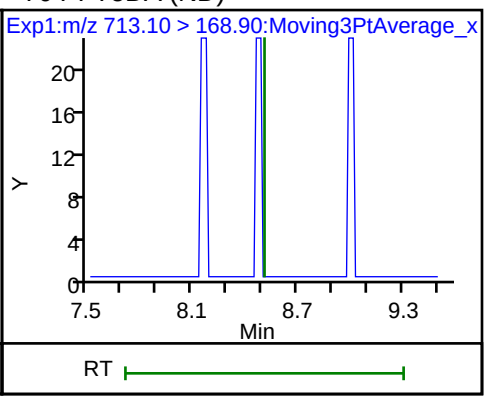
68 11ClFOS (ND)



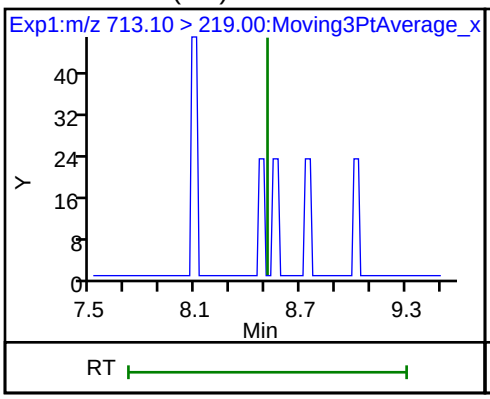
D 69 13C2 PFTeDA



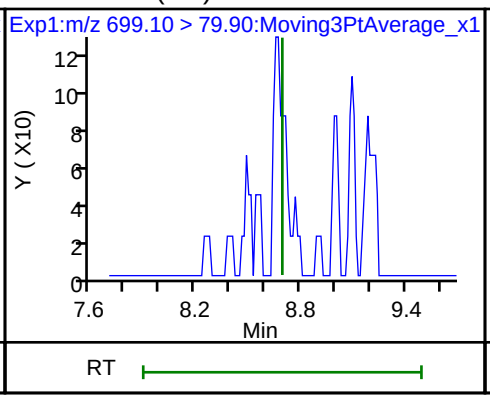
70 PFTeDA (ND)



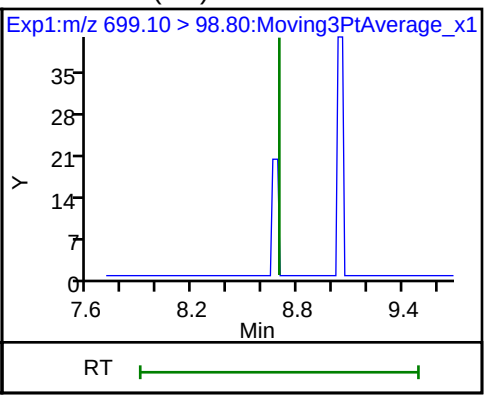
70 PFTeDA (ND)



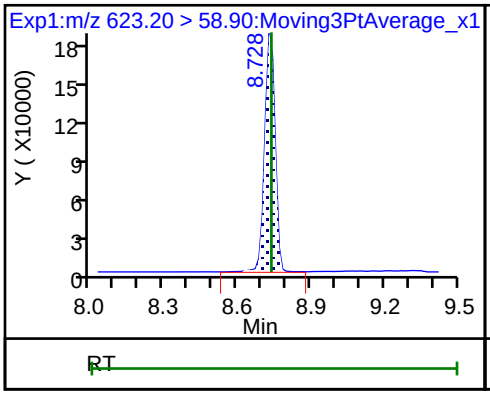
73 PFDoS (ND)



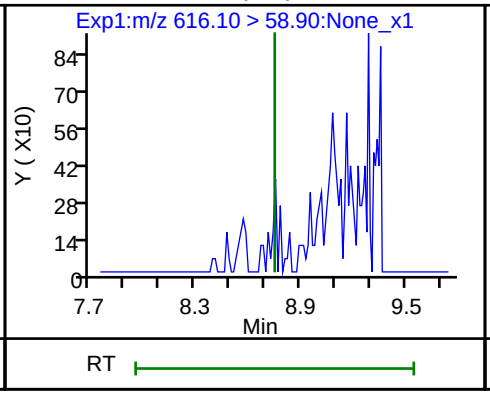
73 PFDoS (ND)



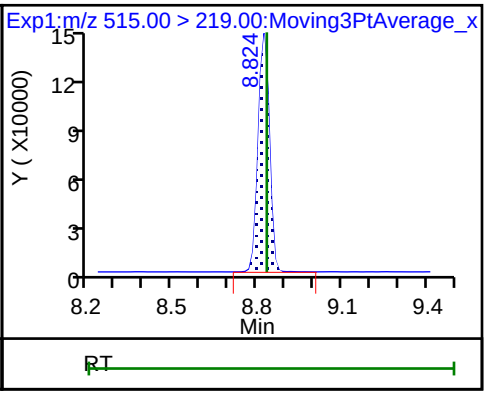
D 71 d7-N-Me-FOSE



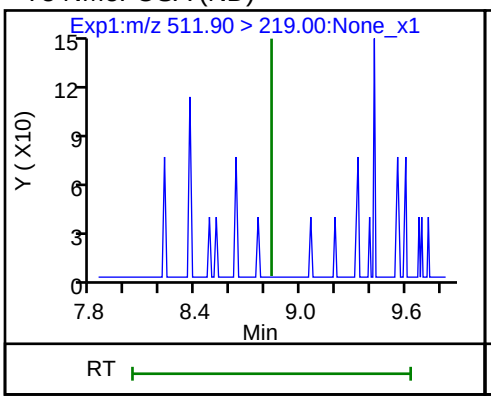
72 N-MeFOSE-M (ND)



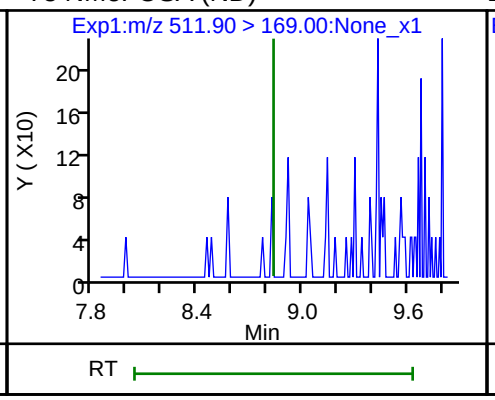
D 74 d3-NMePFOSA



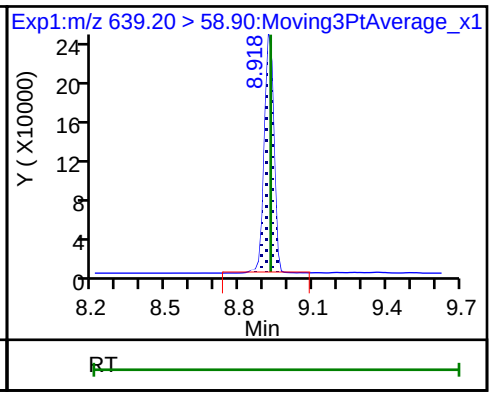
75 NMeFOSA (ND)



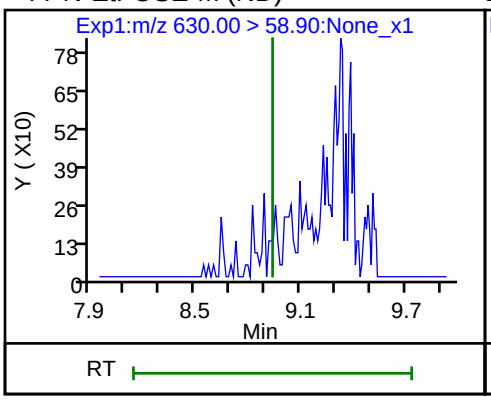
75 NMeFOSA (ND)



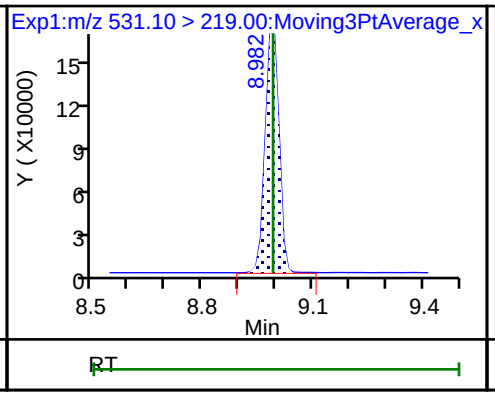
D 76 d9-N-EtFOSE



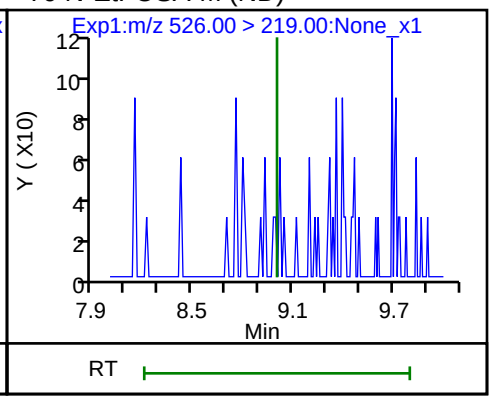
77 N-EtFOSE-M (ND)



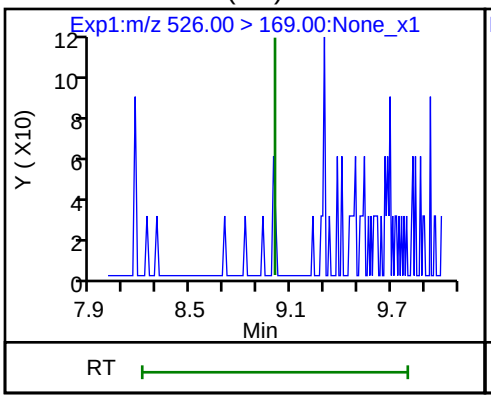
D 78 d5-NEtPFOSA



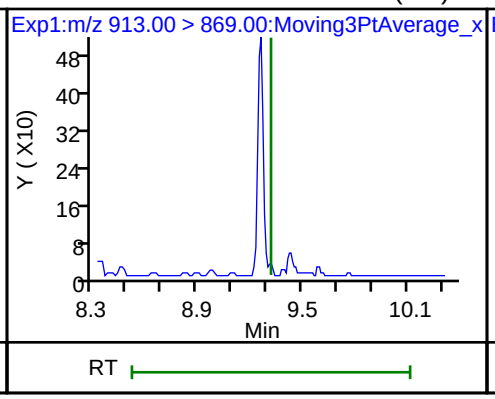
79 N-EtFOSA-M (ND)



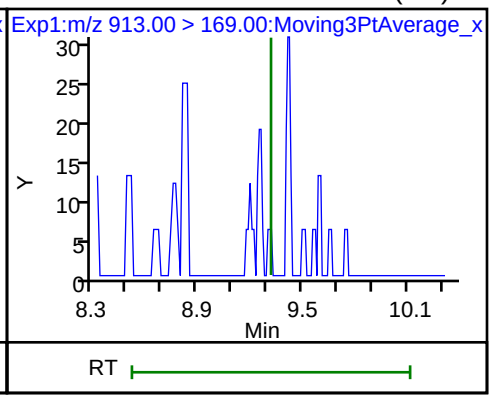
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-763219/65

Matrix: Water
Lab File ID: 26Feb02n-16.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/03/2026 00:54

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.010	U	0.010	0.0040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.010	U	0.010	0.0040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.010	U	0.010	0.0040
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.010	U	0.010	0.0040
335-67-1	Perfluorooctanoic acid (PFOA)	0.010	U	0.010	0.0040
375-95-1	Perfluorononanoic acid (PFNA)	0.010	U	0.010	0.0040
335-76-2	Perfluorodecanoic acid (PFDA)	0.010	U	0.010	0.0040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.010	U	0.010	0.0040
307-55-1	Perfluorododecanoic acid (PFDoA)	0.010	U	0.010	0.0040
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.010	U	0.010	0.0040
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.010	U	0.010	0.0040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.010	U	0.010	0.0040
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.010	U	0.010	0.0040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.010	U	0.010	0.0040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.010	U	0.010	0.0040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.010	U	0.010	0.0040
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.010	U	0.010	0.0040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.010	U	0.010	0.0040
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.010	U	0.010	0.0040
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.010	U	0.010	0.0040
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.010	U	0.010	0.0040
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.010	U	0.010	0.0040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.010	U	0.010	0.0040
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.010	U	0.010	0.0040
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-763219/65

Matrix: Water
Lab File ID: 26Feb02n-16.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/03/2026 00:54

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.010	U	0.010	0.0040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.010	U	0.010	0.0040
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.010	U	0.010	0.0040
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.010	U	0.010	0.0040
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.010	U	0.010	0.0040
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.010	U	0.010	0.0040
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.010	U	0.010	0.0040
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.010	U	0.010	0.0040
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.010	U	0.010	0.0040
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.010	U	0.010	0.0040
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.010	U	0.010	0.0040
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.010	U	0.010	0.0040
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.010	U	0.010	0.0040
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.010	U	0.010	0.0040
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-763219/65

Matrix: Water
Lab File ID: 26Feb02n-16.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/03/2026 00:54

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	96.9		5-130
2283397-79-3	13C5 PFPeA	102		40-130
2328024-54-8	13C5 PFHxA	103		40-130
2328024-55-9	13C4 PFHpA	112		40-130
1350614-84-4	13C8 PFOA	101		40-130
2283397-80-6	13C9 PFNA	110		40-130
2328024-56-0	13C6 PFDA	103		40-130
STL02580	13C7 PFUnA	106		30-130
STL02116	13C2 PFTeDA	90.6		10-130
2708218-83-9	13C3 PFBS	102		40-135
2708218-85-1	13C3 PFHxS	105		40-130
2265893-05-6	13C8 PFOS	103		40-130
STL01056	13C8 FOSA	87.0		40-130
1400690-70-1	d3-NMeFOSAA	97.1		40-170
1265205-97-7	d5-NEtFOSAA	97.2		25-135
STL02395	13C2 4:2 FTS	102		40-200
STL02279	13C2 6:2 FTS	117		40-200
STL02280	13C2 8:2 FTS	104		40-300
STL02255	13C3 HFPO-DA	104		40-130
STL02277	d7-N-MeFOSE-M	80.4		10-130
STL02278	d9-N-EtFOSE-M	78.1		10-130
STL02704	d5-NEtPFOSA	76.0		10-130
STL02705	d3-NMePFOSA	81.8		10-130
960315-52-0	13C2 PFDoA	108		10-130

Report Date: 03-Feb-2026 11:40:44 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-16.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 03-Feb-2026 00:54:04 ALS Bottle#: 1 Worklist Smp#: 65
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: EIS 212
Misc. Info.: Plate: 3 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 03-Feb-2026 11:40:23 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1674

First Level Reviewer: VGQ7 Date: 03-Feb-2026 07:27:58
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.992	1.992	0.0	0.478	1274292	1.97		98.4	478	
D 3 13C4-PFBA										
216.80 > 171.90	4.163	4.161	0.002	1.000	1515230	1.94		96.9	6299	
* 4 13C3PFBA										
216.00 > 172.00	4.163	4.169	-0.006		1495016	2.00			1292	
D 8 13C5 PFPeA										
268.30 > 223.00	4.825	4.822	0.003	0.915	997384	2.04		102	4518	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.089	5.099	-0.009	0.803	634423	4.80		102	3853	
D 15 13C5 PFHxA										
318.00 > 273.00	5.271	5.282	-0.011	1.000	1977086	2.06		103	7236	
* 16 13C2 PFHxA										
315.10 > 270.00	5.271	5.282	-0.011		4204438	5.00			8931	
D 18 13C3 PFBS										
302.10 > 79.90	5.414	5.410	0.004	0.855	1855127	1.90		102	10069	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.454	5.464	-0.010	1.035	1725194	2.08		104	3627	
23 TCDCA										
498.10 > 80.00	5.890	5.526	0.364	0.818	425	NR			0.6	
27 TDCA										
498.00 > 80.00	6.159	5.643	0.516	0.856	888	NR			1.1	
D 26 13C4 PFHpA										
367.10 > 322.00	5.695	5.707	-0.012	1.080	2115603	2.23		112	7739	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.890	5.903	-0.013	0.930	605806	5.57		117	2828	
* 35 13C4 PFOA										
417.10 > 372.00	6.107	6.117	-0.010		6284016	5.00			10469	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 34 13C8 PFOA										
421.10 > 376.00	6.107	6.117	-0.010	1.000	2544470	2.02		101	7667	
D 38 13C3 PFHxS										
402.10 > 79.90	6.336	6.345	-0.009	1.000	1766867	1.99		105	7315	
* 37 18O2 PFHxS										
403.00 > 83.90	6.336	6.345	-0.009		1642635	1.90			8027	
* 42 13C5 PFNA										
468.00 > 423.00	6.516	6.525	-0.009		2064515	2.00			6899	
D 41 13C9 PFNA										
472.10 > 427.00	6.516	6.525	-0.009	1.000	2120570	2.19		110	6008	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.697	6.707	-0.010	1.057	517480	4.99		104	1657	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.868	6.877	-0.009	0.954	1090763	4.86		97.1	2061	
D 51 13C6 PFDA										
519.10 > 474.10	6.928	6.938	-0.010	1.000	1989693	2.06		103	6585	
* 52 13C2 PFDA										
515.10 > 470.10	6.928	6.938	-0.010		1909628	2.00			8273	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.047	7.057	-0.010	0.979	943211	4.86		97.2	1328	
D 56 13C8 PFOS										
507.10 > 79.90	7.199	7.208	-0.009	1.000	1507731	1.97		103	3736	
* 57 13C4 PFOS										
502.80 > 79.90	7.199	7.208	-0.009		1446143	1.92			4772	
D 59 13C7 PFUnA										
570.00 > 525.10	7.344	7.353	-0.009	1.060	2034349	2.11		106	4024	
D 82 PFDoA										
615.10 > 570.00	7.756	7.777	-0.021	1.120	1459036	2.15		108	3830	
D 64 13C8 FOSA										
506.10 > 77.80	7.954	7.965	-0.011	1.105	1494398	1.74		87.0	5665	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.486	8.510	-0.024	1.225	1019335	1.81		90.6	3848	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.739	8.738	0.001	1.214	544815	4.02		80.4	344	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.822	8.834	-0.012	1.225	396676	1.64		81.8	2530	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.928	8.926	0.002	1.240	702694	3.91		78.1	680	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.992	8.991	0.001	1.249	448893	1.52		76.0	2211	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00512	Amount Added: 50.00	Units: uL
1633_125_SS_00202	Amount Added: 5.00	Units: uL

Report Date: 03-Feb-2026 11:40:44 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-16.d

Injection Date: 03-Feb-2026 00:54:04 Instrument ID: 30576

Lims ID: CCB

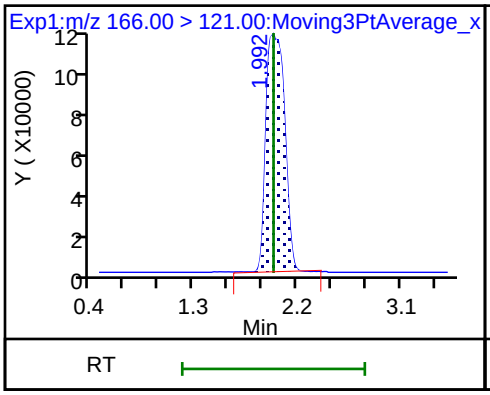
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 1 Worklist Smp#: 65

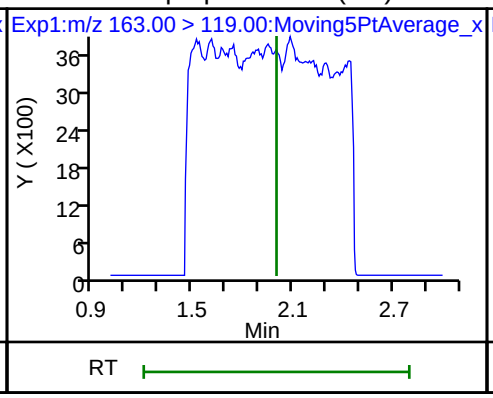
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

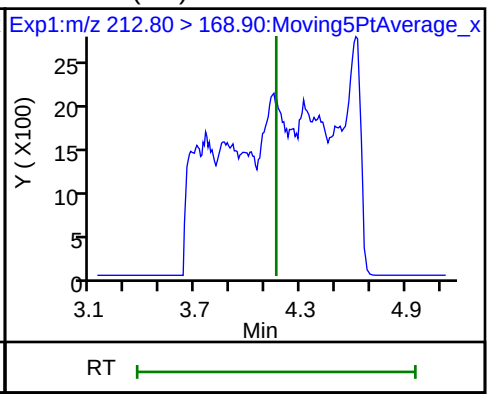
D 1 13C3PFPrA



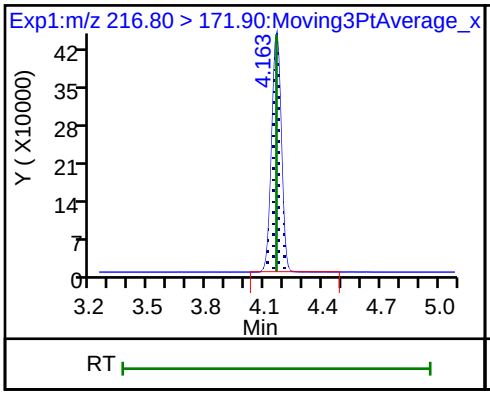
2 Perfluoropropionic acid (ND)



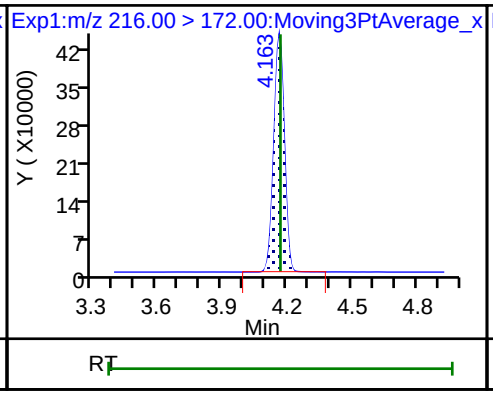
5 PFBA (ND)



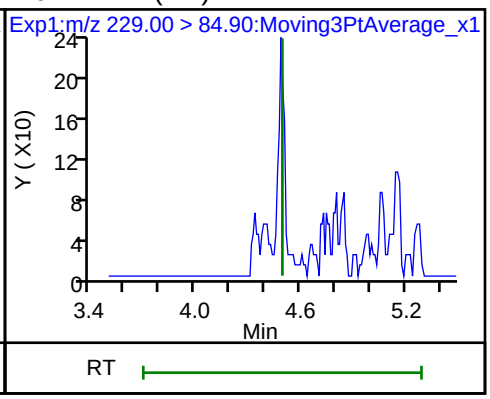
D 3 13C4-PFBA



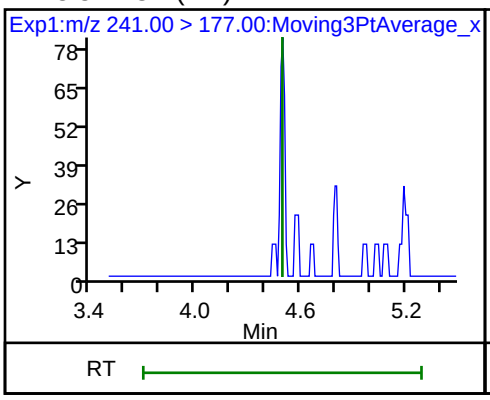
* 4 13C3PFBA



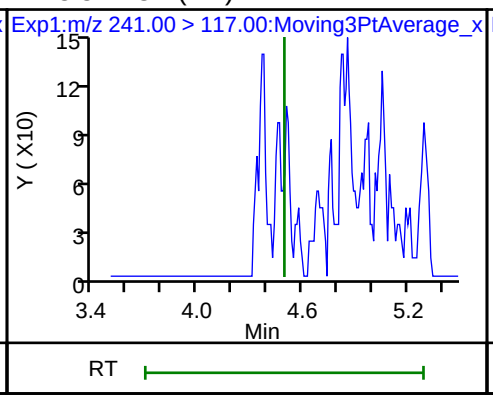
6 PFMPA (ND)



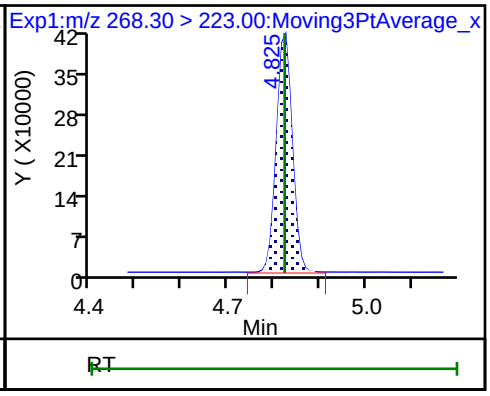
7 3:3 FTCA (ND)



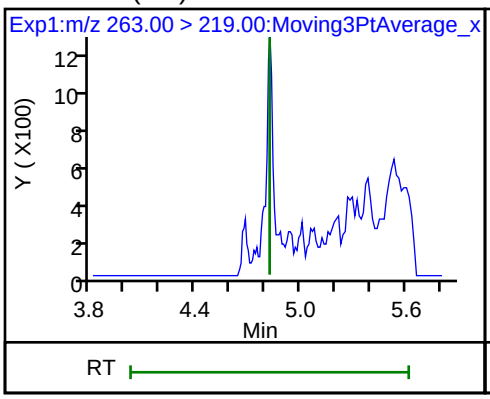
7 3:3 FTCA (ND)



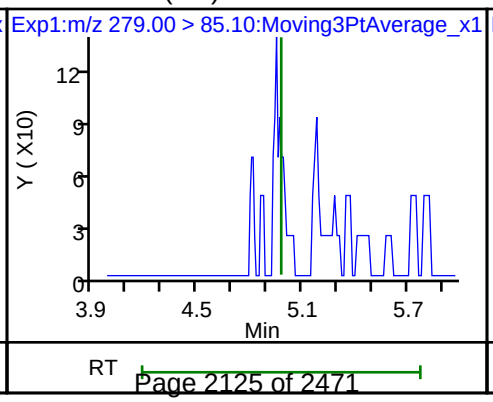
D 8 13C5 PFPeA



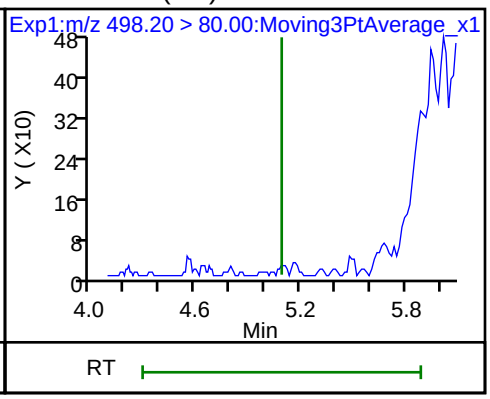
9 PFPA (ND)



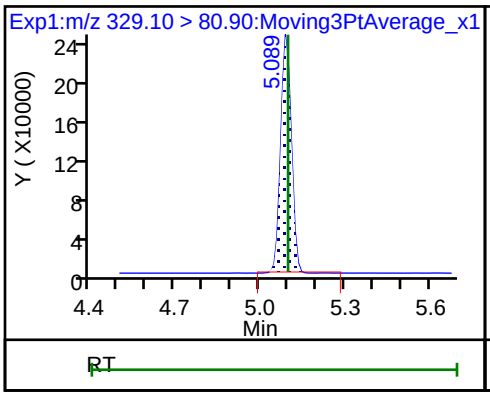
10 PFMBA (ND)



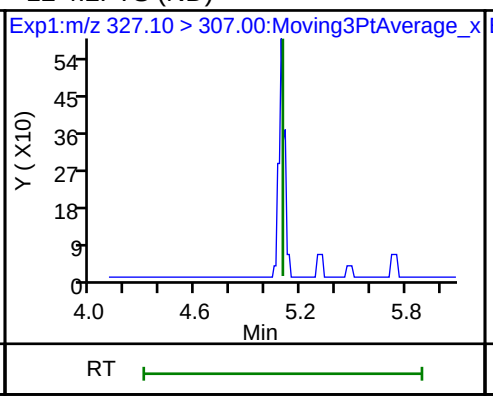
13 TUDCA (ND)



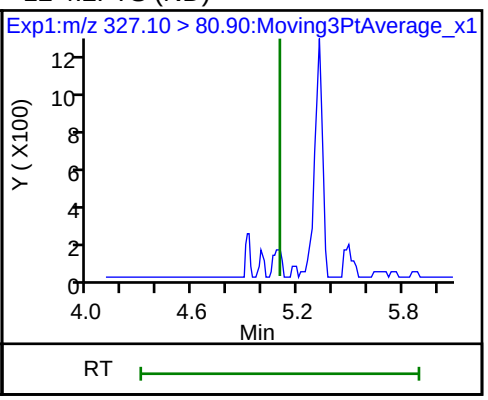
D 11 13C2-4:2FTS



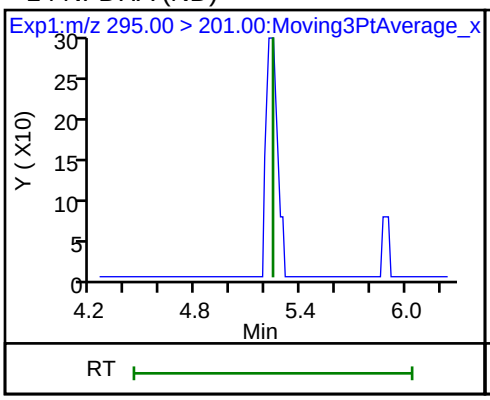
12 4:2FTS (ND)



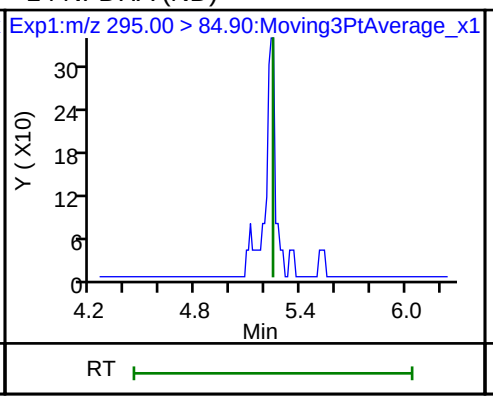
12 4:2FTS (ND)



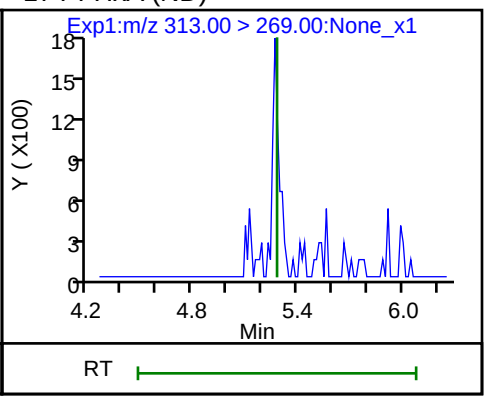
14 NFDHA (ND)



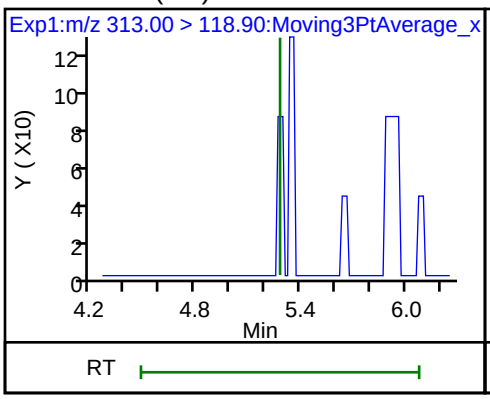
14 NFDHA (ND)



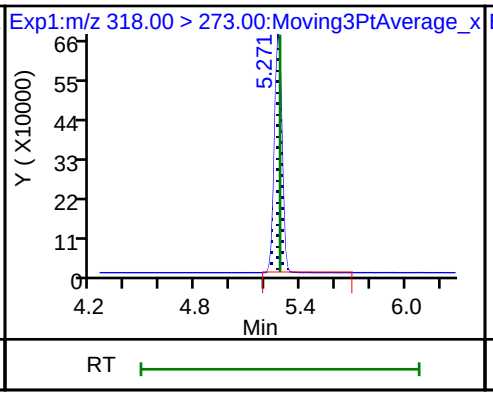
17 PFHxA (ND)



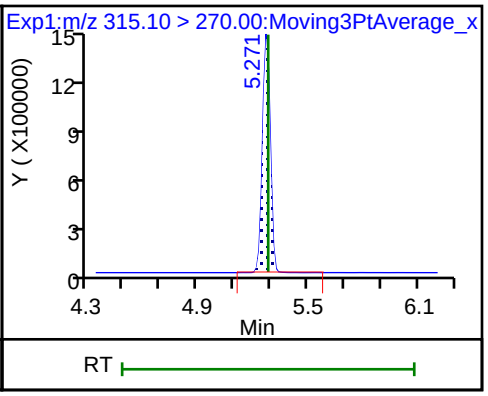
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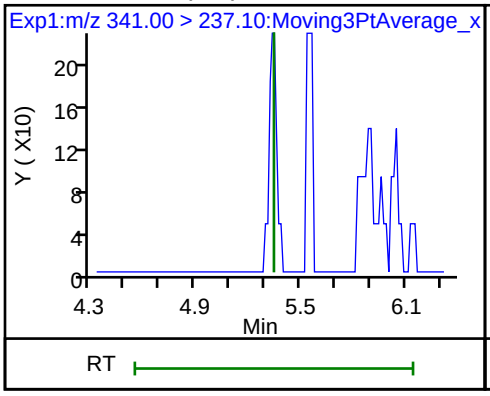
D 15 13C5 PFHxA



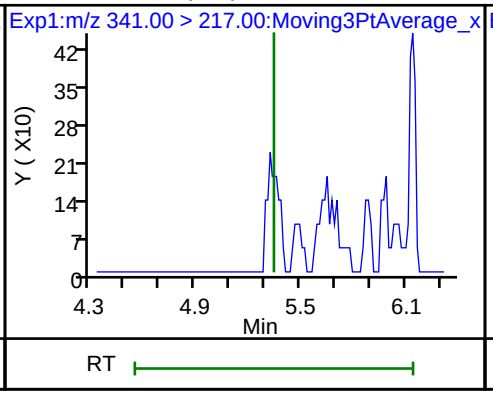
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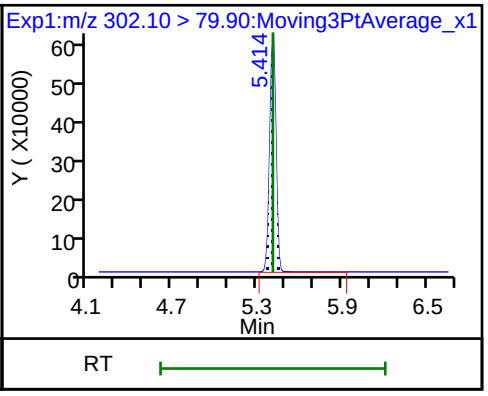
20 5:3 FTCA (ND)



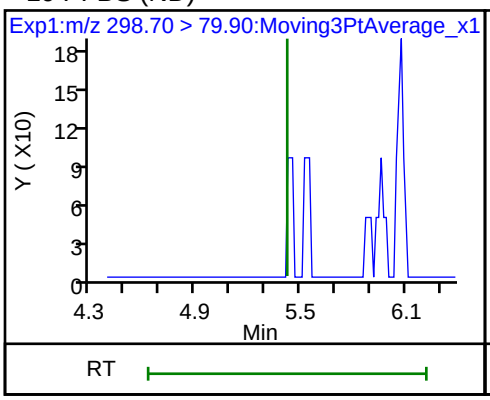
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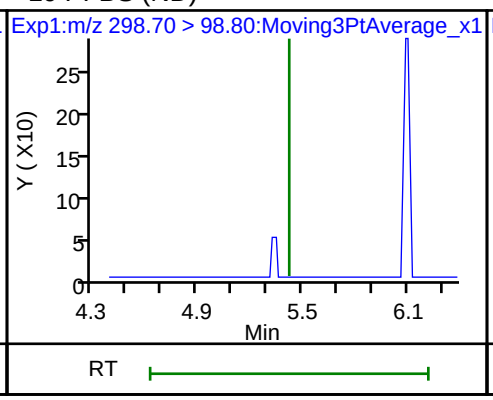
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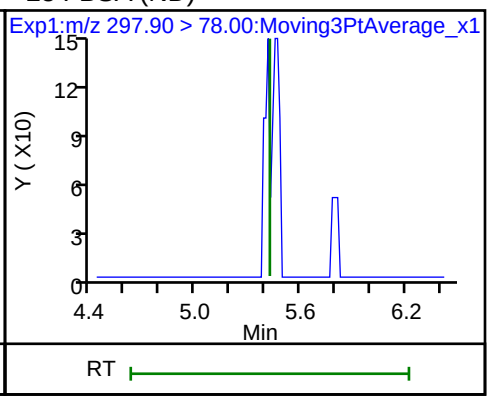
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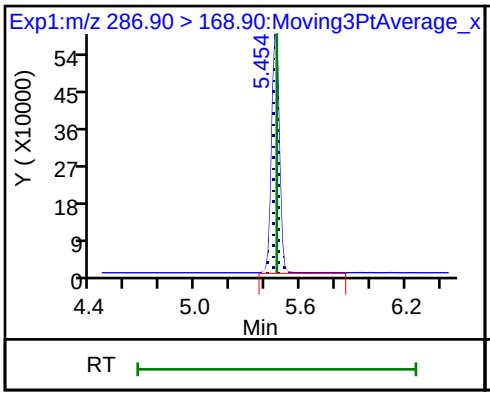
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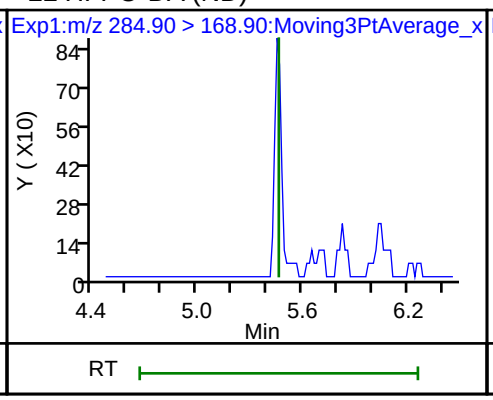
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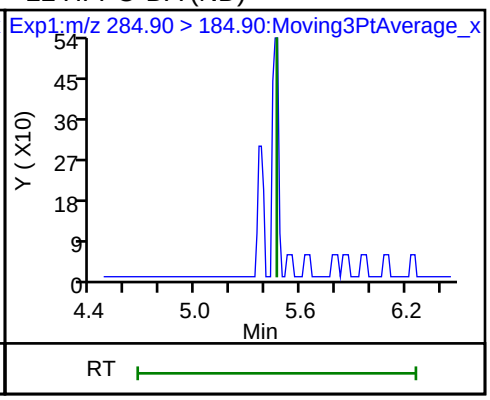
D 21 13C3 HFPO-DA



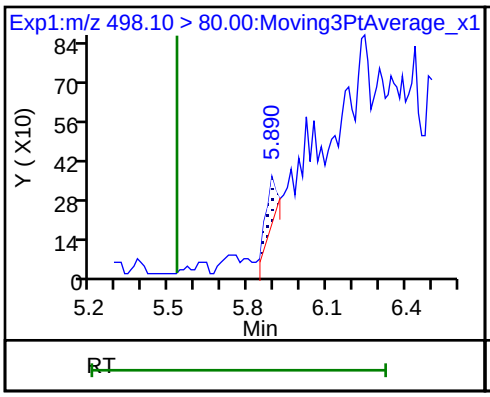
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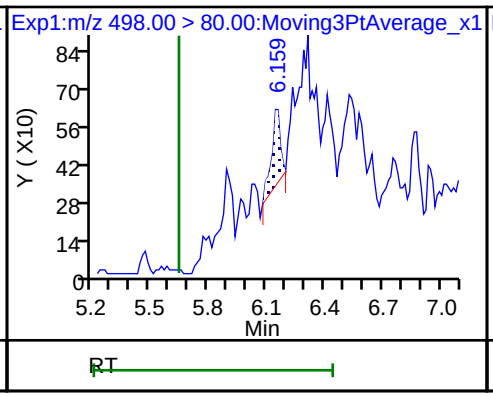
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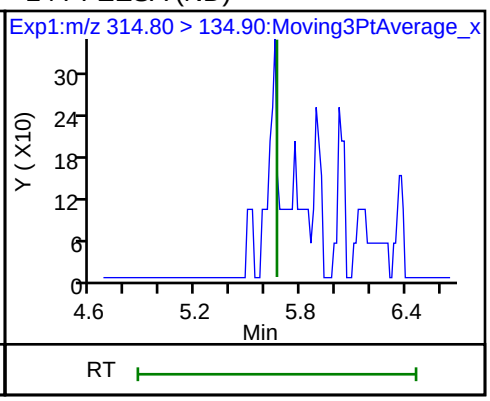
23 TCDCA



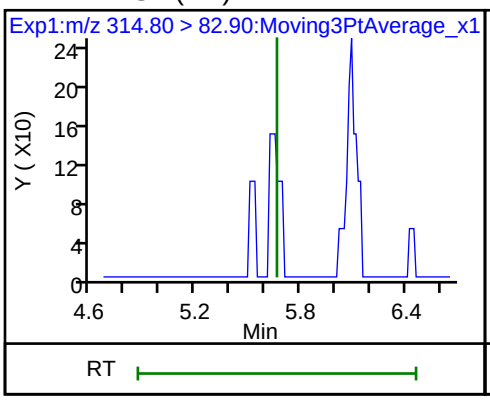
27 TDCA



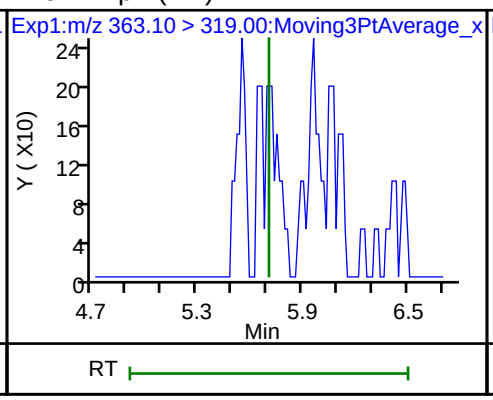
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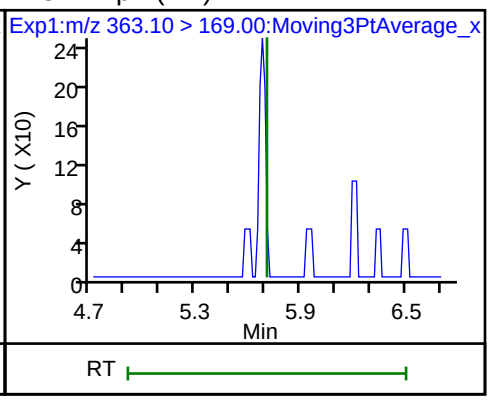
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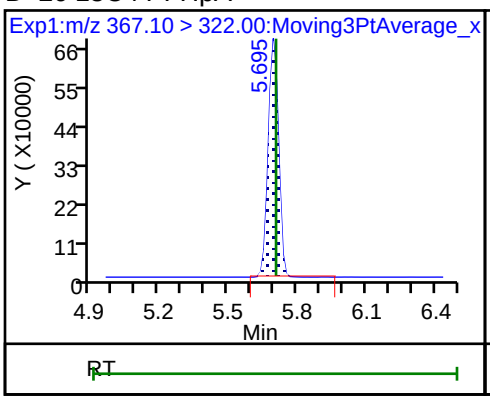
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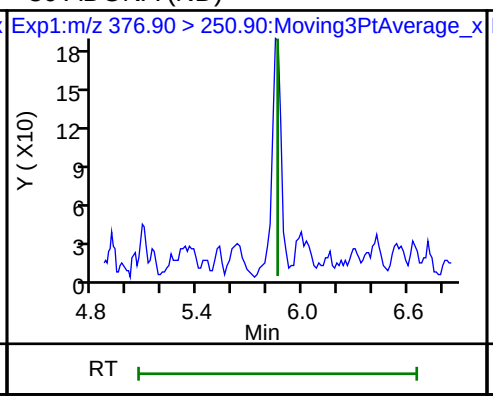
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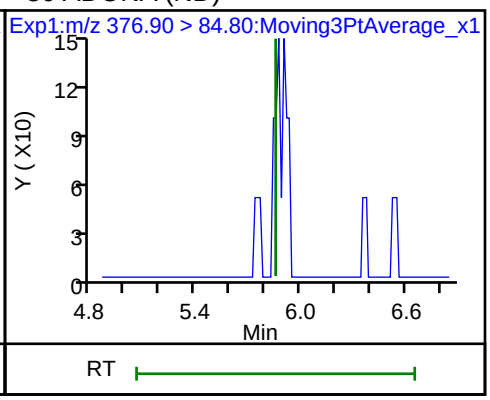
D 26 13C4 PFHpA



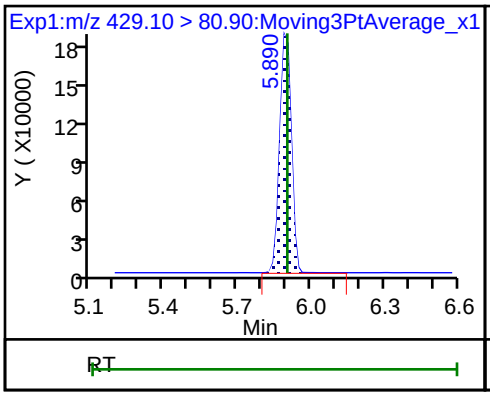
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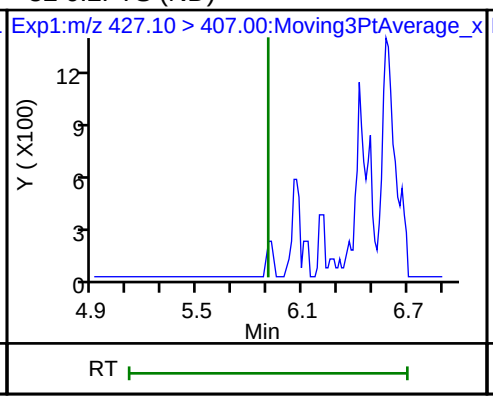
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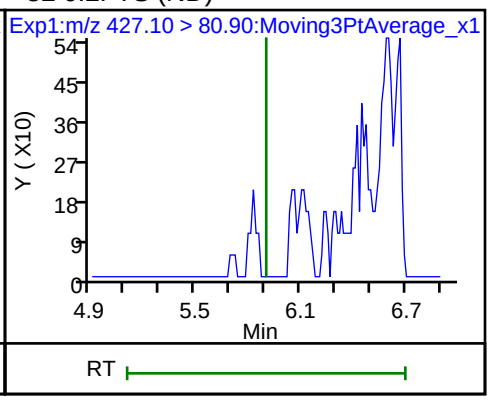
D 31 13C2-6:2FTS



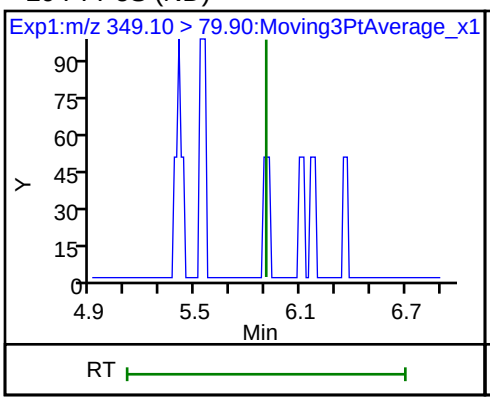
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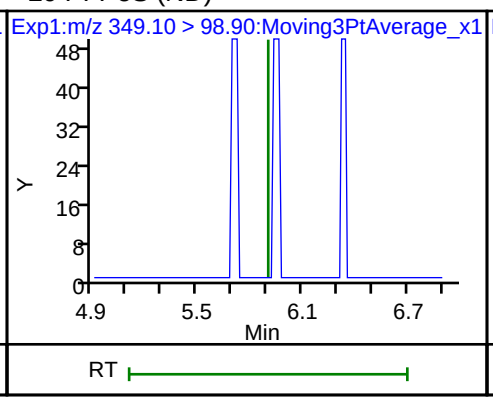
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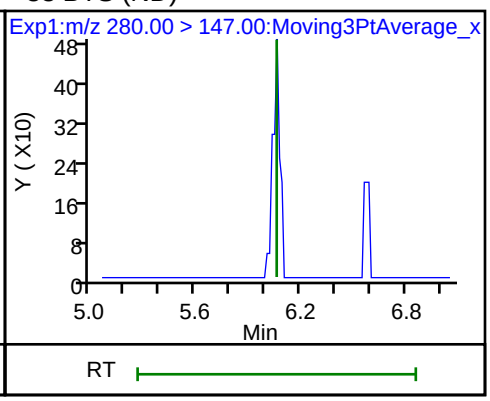
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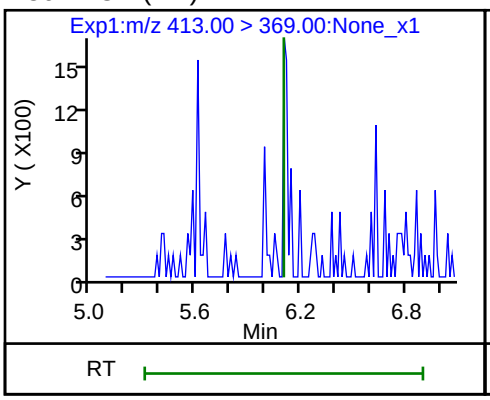
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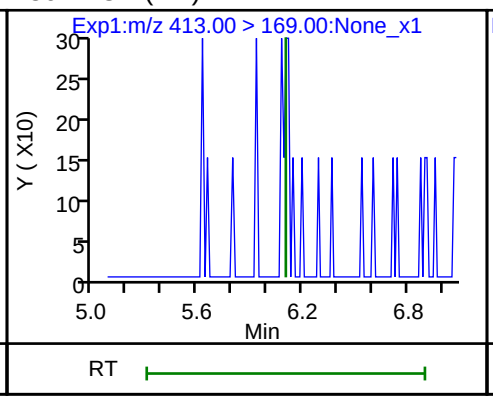
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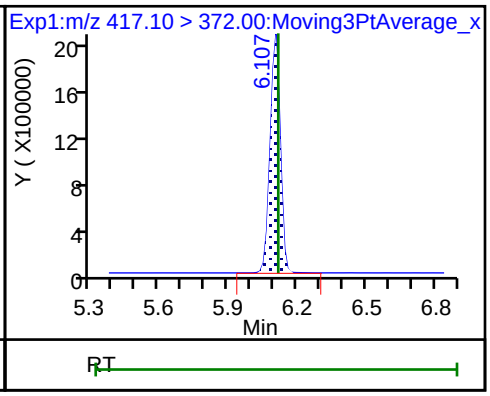
36 PFOA (ND)



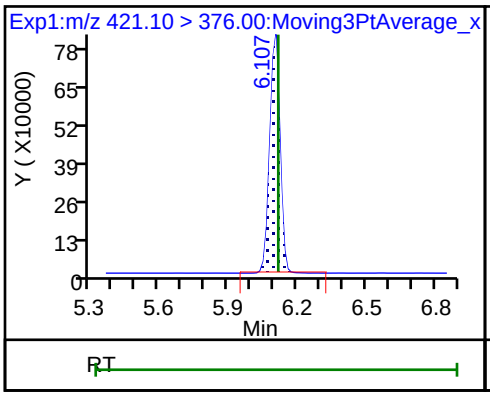
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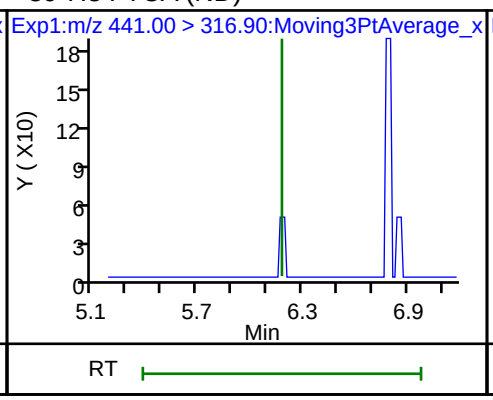
* 35 13C4 PFOA



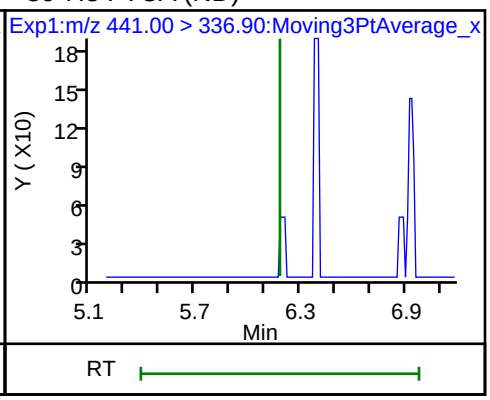
D 34 13C8 PFOA



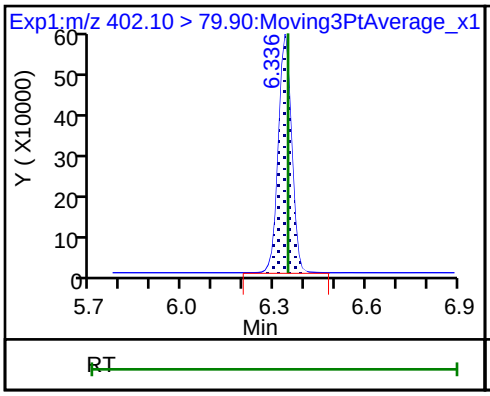
39 7:3 FTCA (ND)



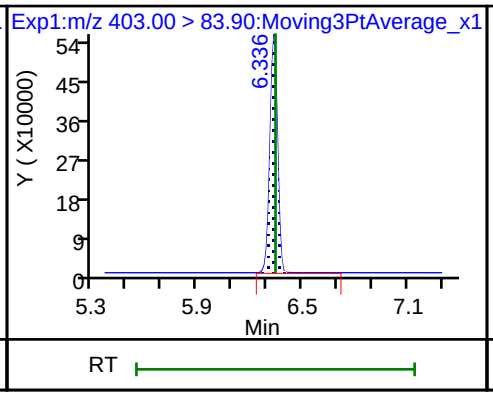
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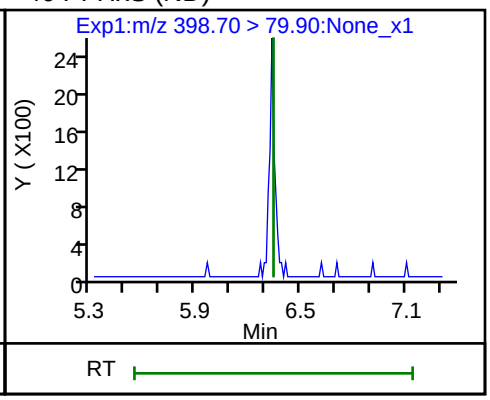
D 38 13C3 PFHxS



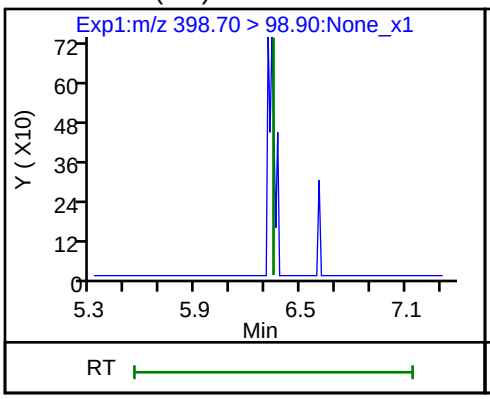
* 37 18O2 PFHxS



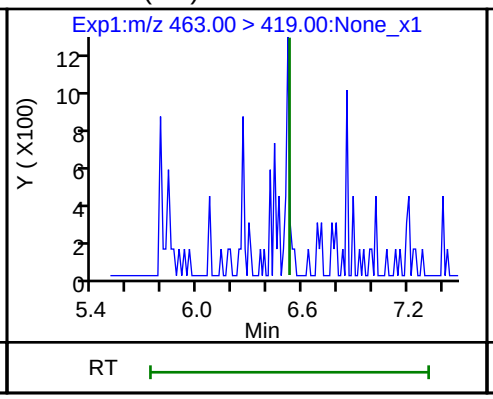
40 PFHxS (ND)



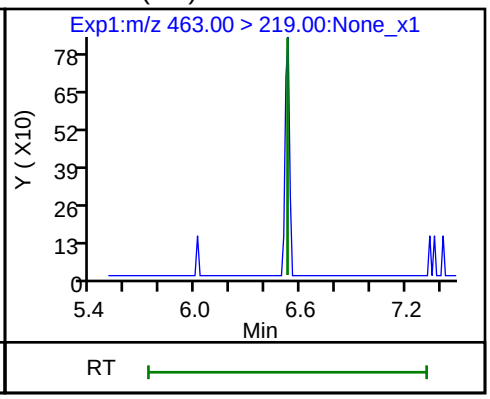
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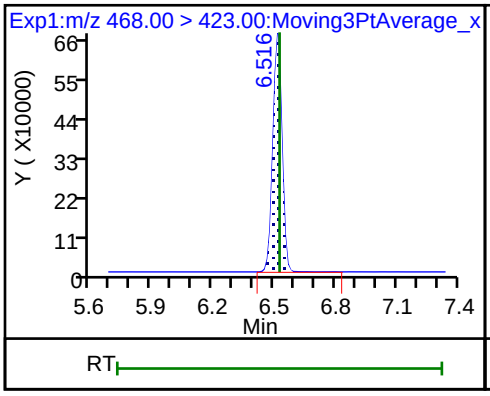
43 PFNA (ND)



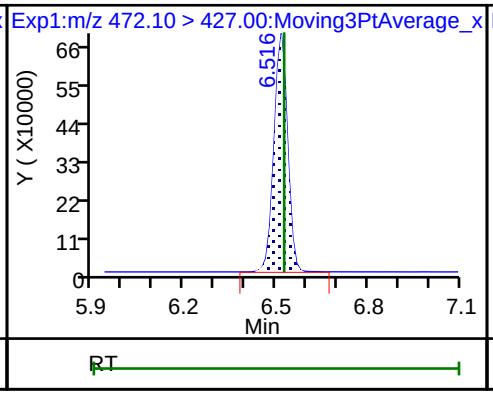
43 PFNA (ND)



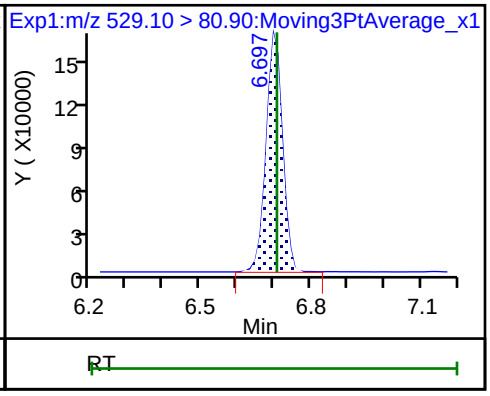
* 42 13C5 PFNA



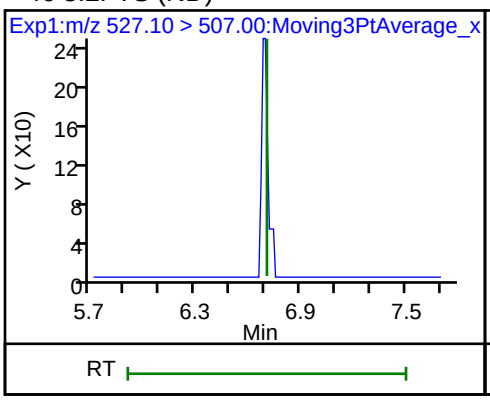
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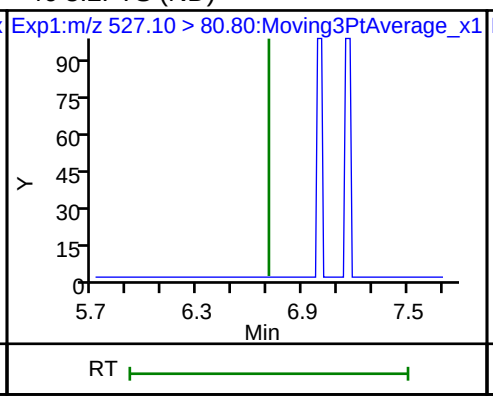
D 45 13C2-8:2FTS



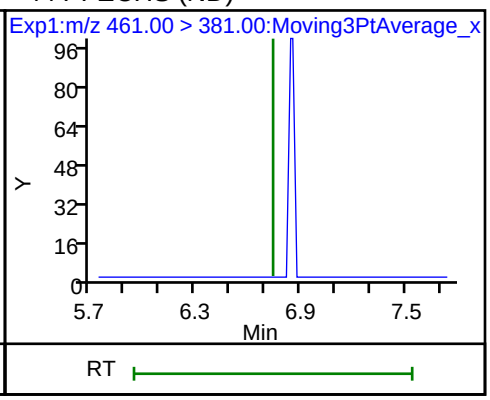
46 8:2FTS (ND)



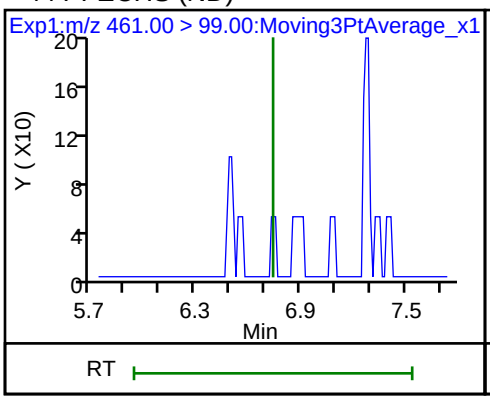
46 8:2FTS (ND)



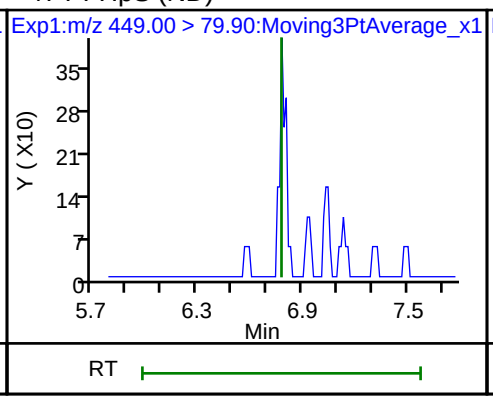
44 PFECHS (ND)



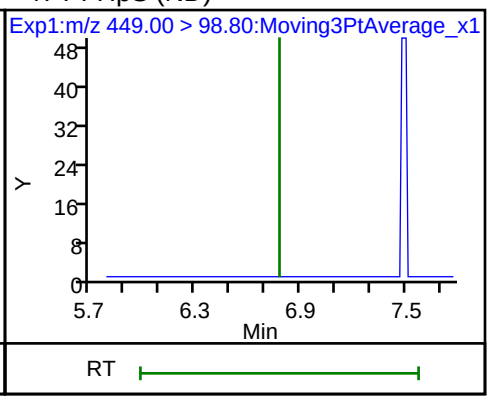
44 PFECHS (ND)



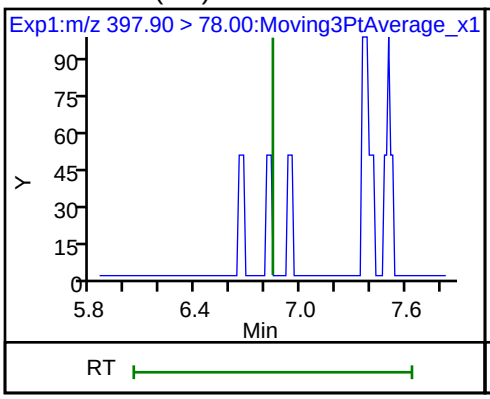
47 PFHpS (ND)



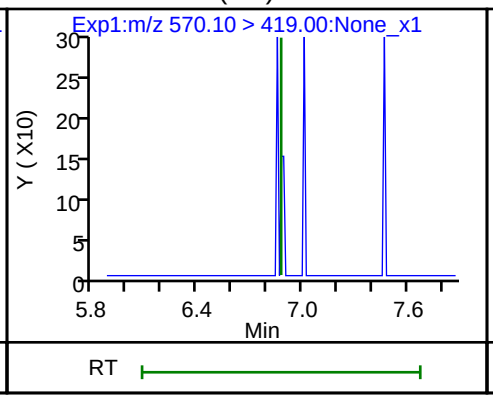
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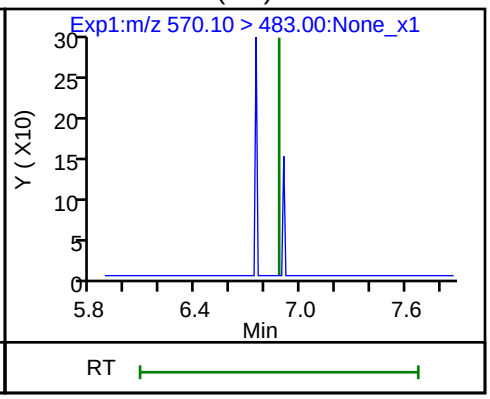
48 FHxSA (ND)



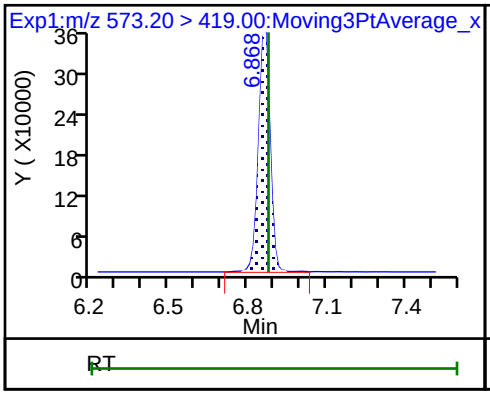
50 NMeFOSAA (ND)



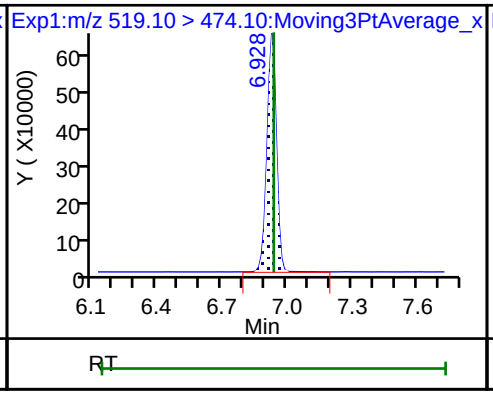
50 NMeFOSAA (ND)



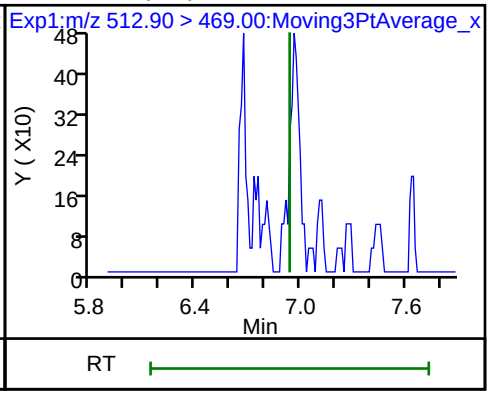
D 49 d3-NMeFOSAA



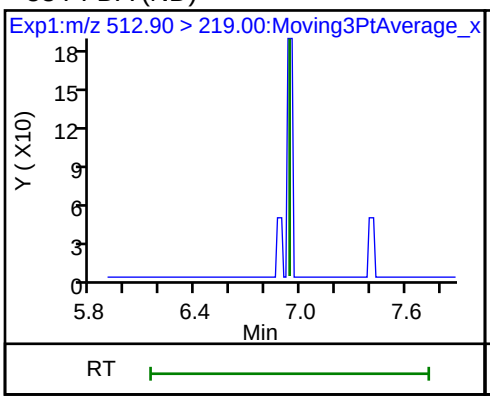
D 51 13C6 PFDA



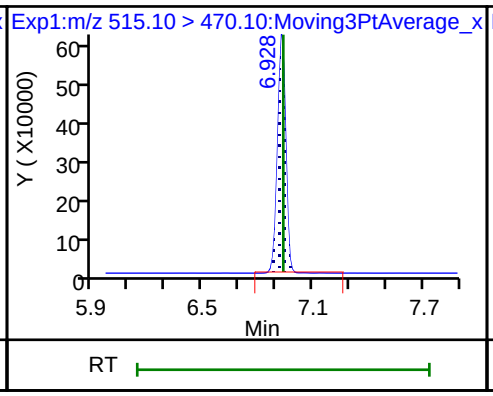
53 PFDA (ND)



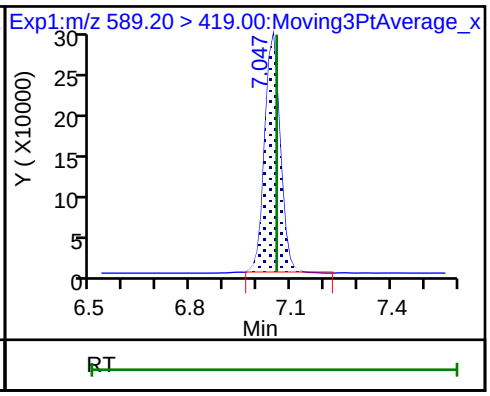
53 PFDA (ND)



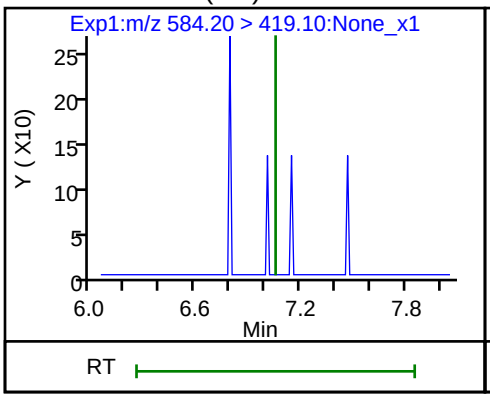
* 52 13C2 PFDA



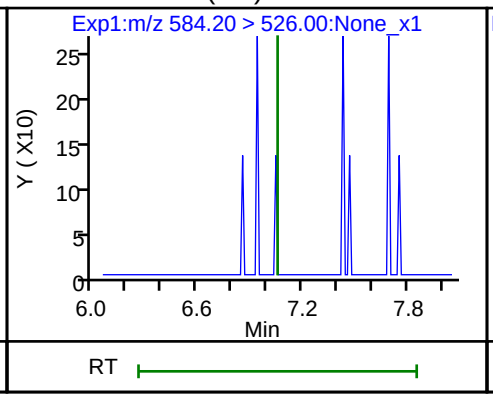
D 54 d5-NEtFOSAA



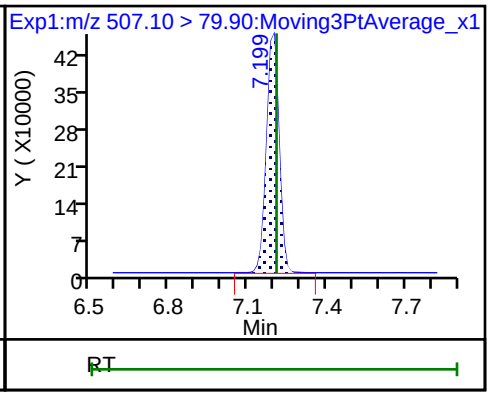
55 NEtFOSAA (ND)



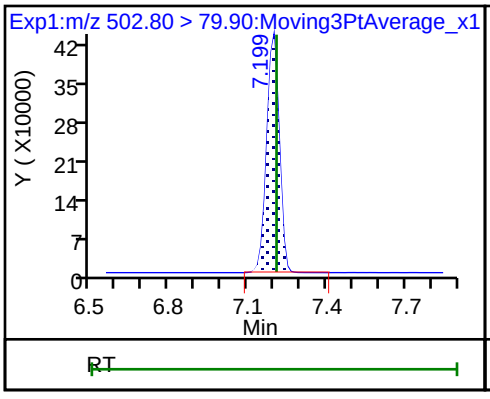
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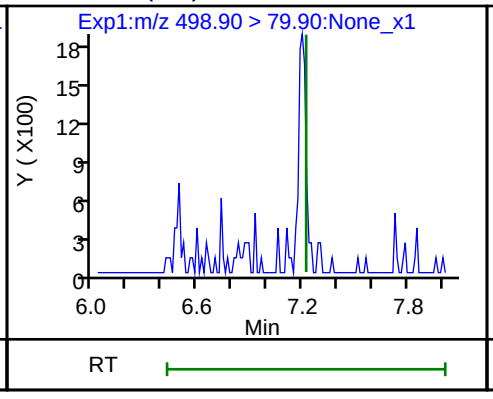
D 56 13C8 PFOS



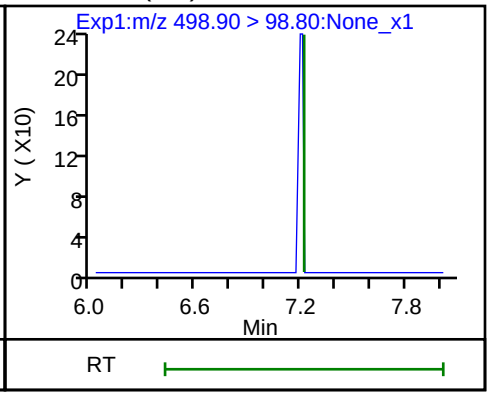
* 57 13C4 PFOS



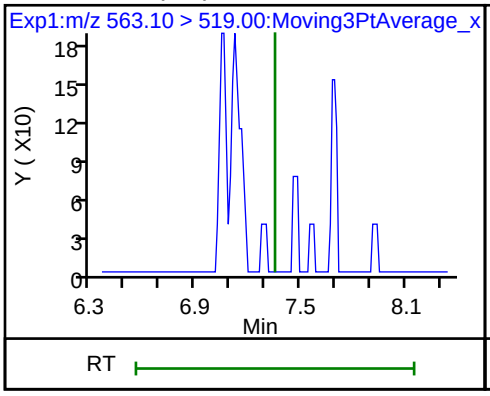
58 PFOS (ND)



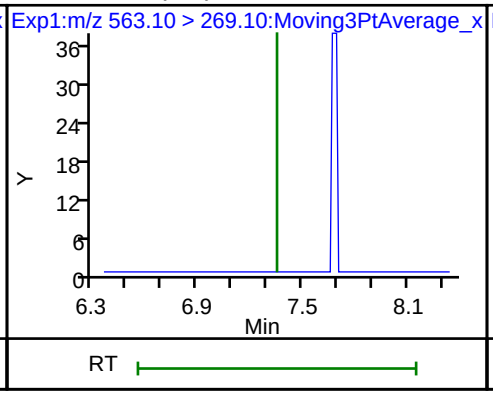
58 PFOS (ND)



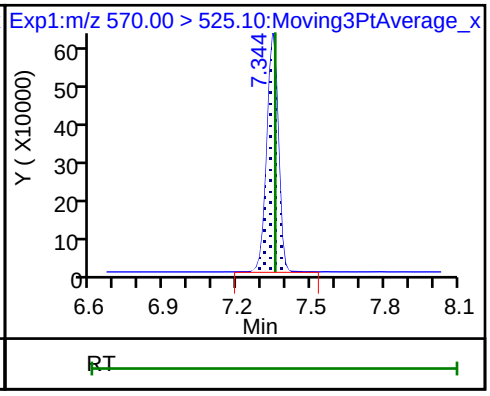
60 PFUnA (ND)



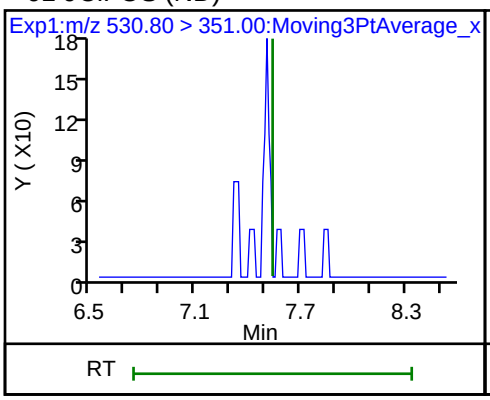
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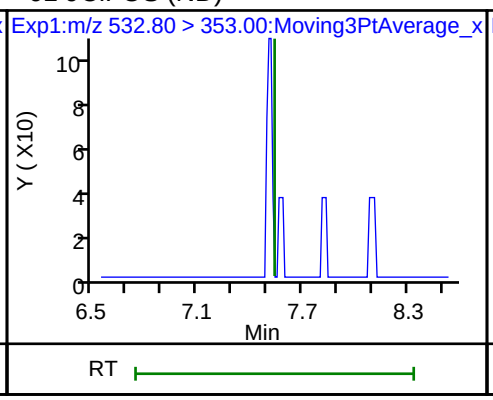
D 59 13C7 PFUnA



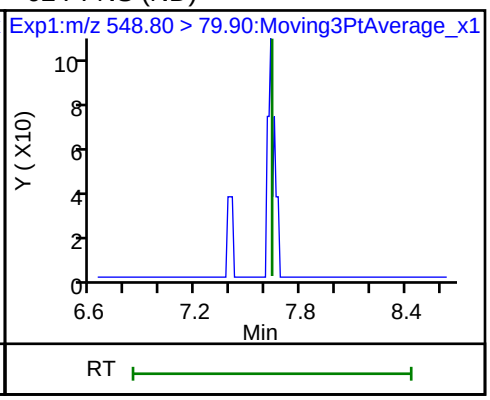
61 9ClFOS (ND)



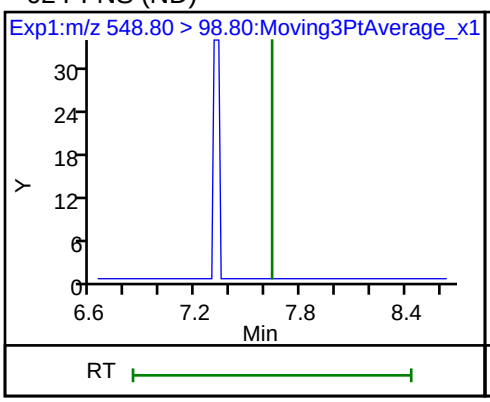
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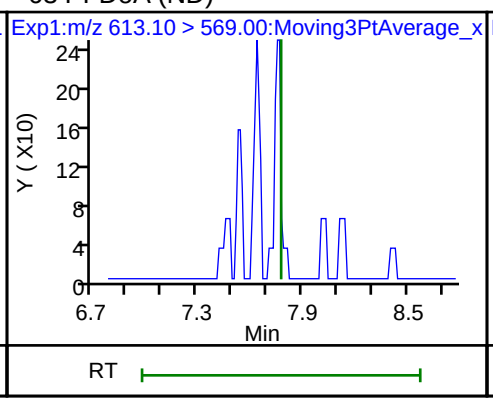
62 PFNS (ND)



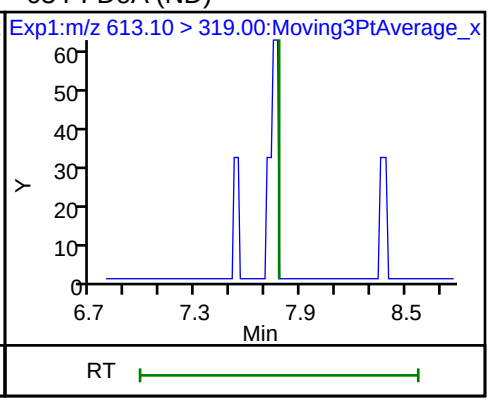
62 PFNS (ND)



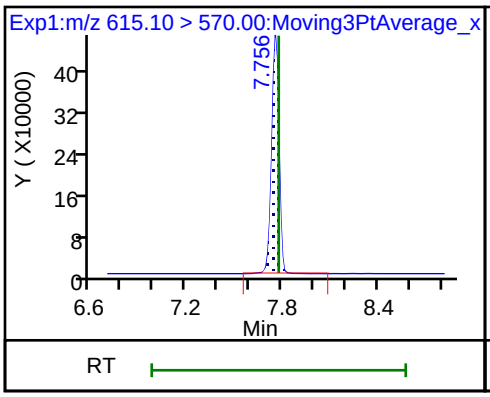
63 PFDoA (ND)



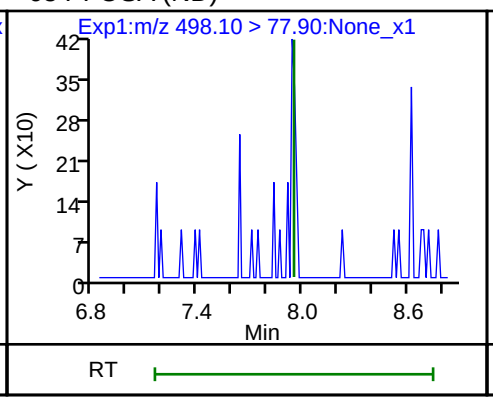
63 PFDoA (ND)



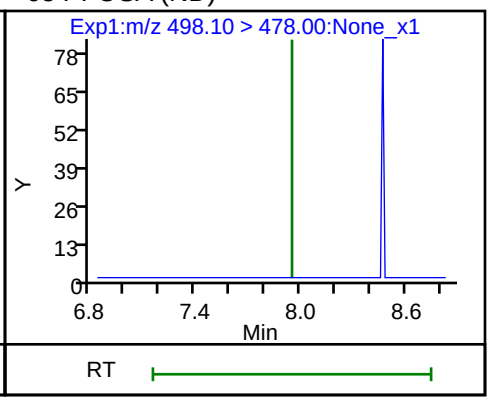
D 82 PFDoA



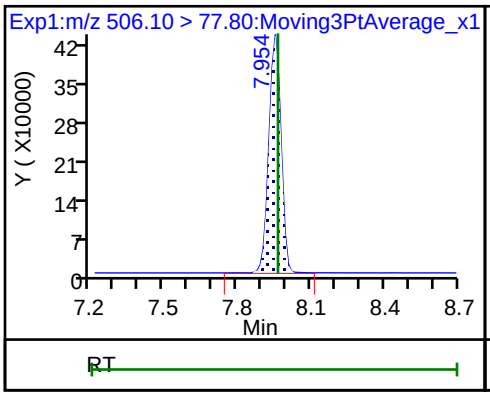
65 PFOSA (ND)



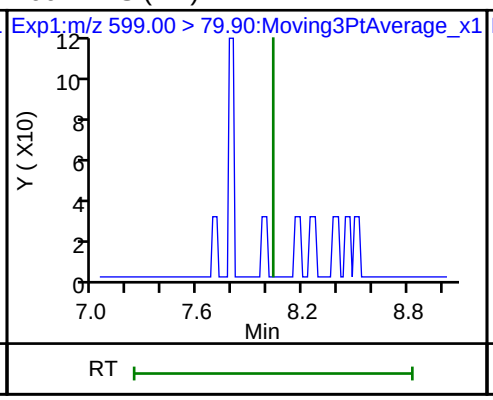
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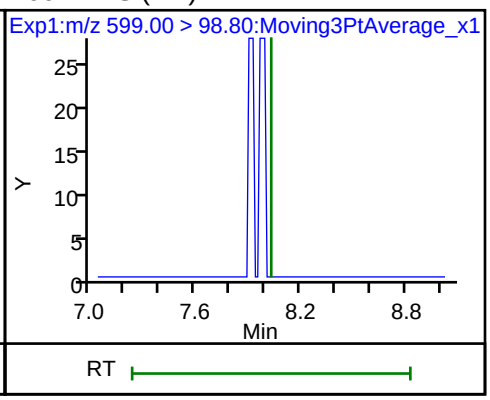
D 64 13C8 FOSA



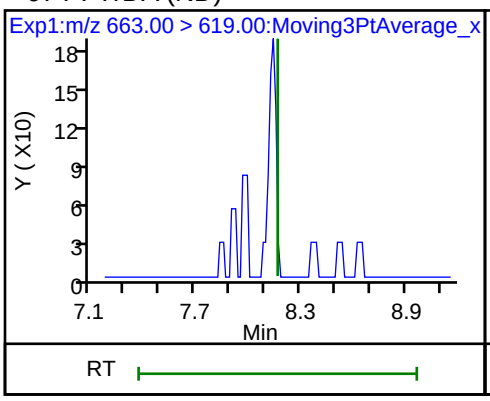
66 PFDS (ND)



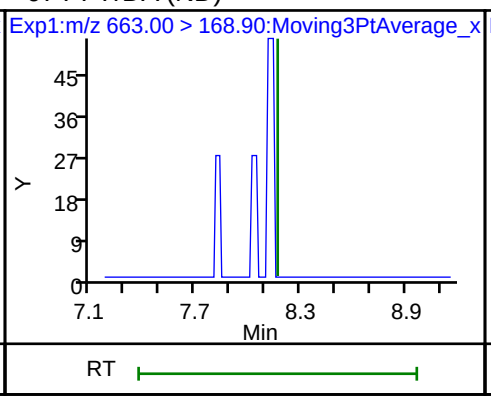
66 PFDS (ND)



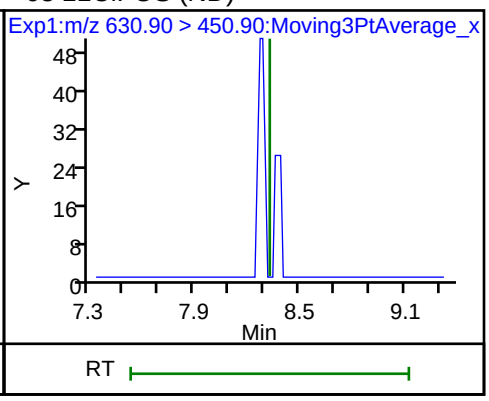
67 PFTrDA (ND)



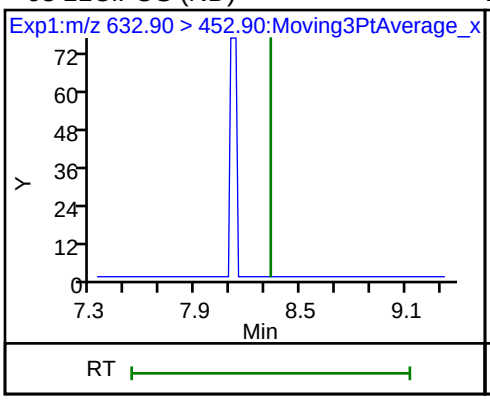
67 PFTrDA (ND)



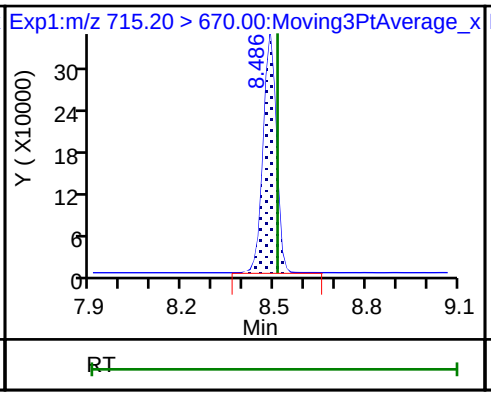
68 11ClFOS (ND)



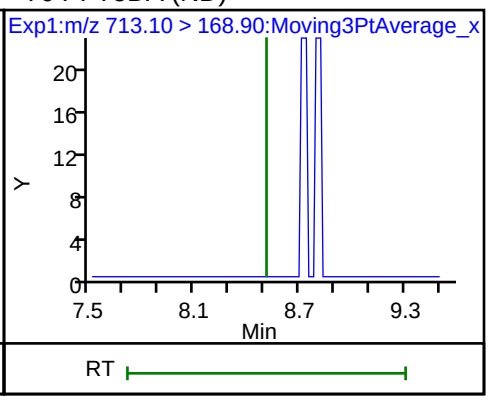
68 11ClFOS (ND)



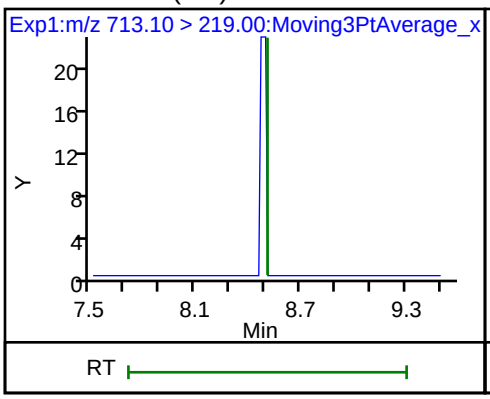
D 69 13C2 PFTeDA



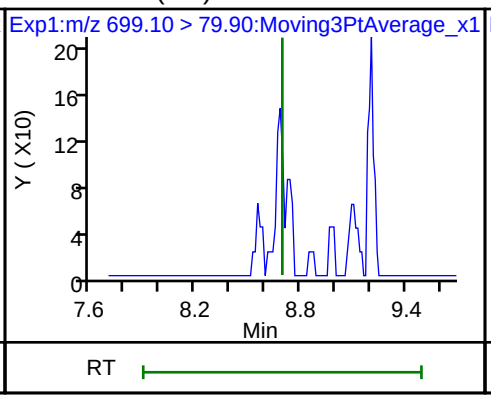
70 PFTeDA (ND)



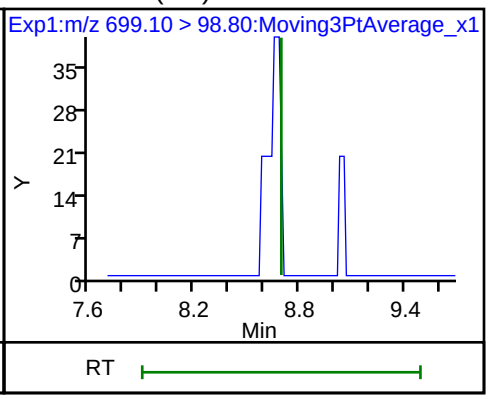
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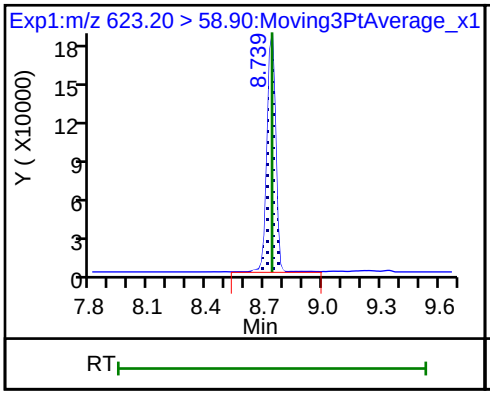
73 PFDoS (ND)



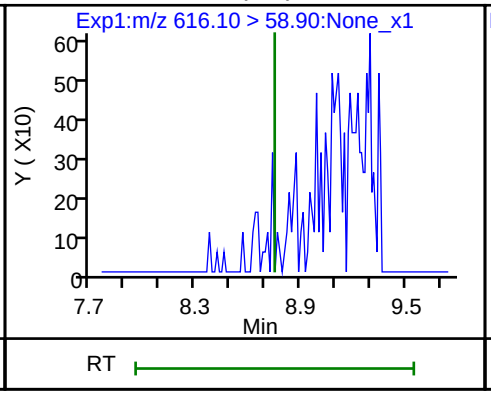
73 PFDoS (ND)



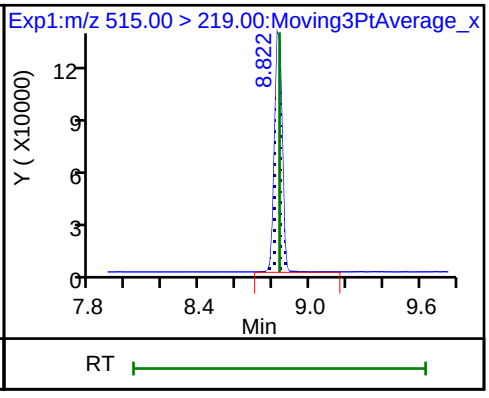
D 71 d7-N-Me-FOSE



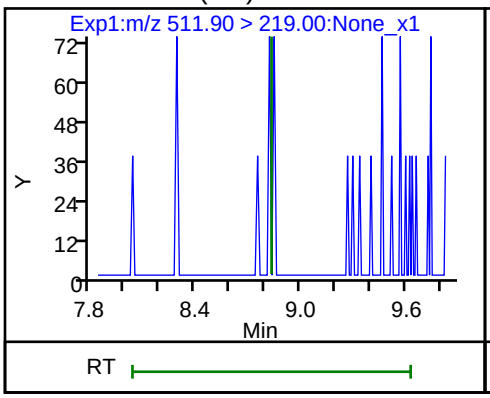
72 N-MeFOSE-M (ND)



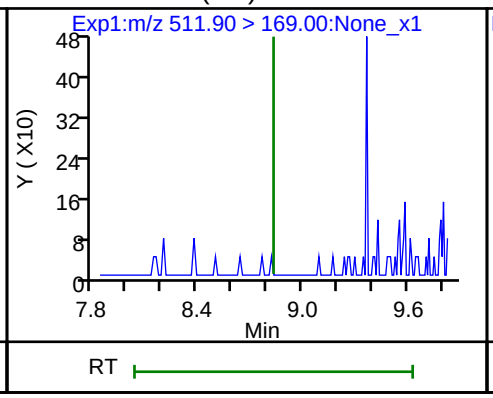
D 74 d3-NMePFOSA



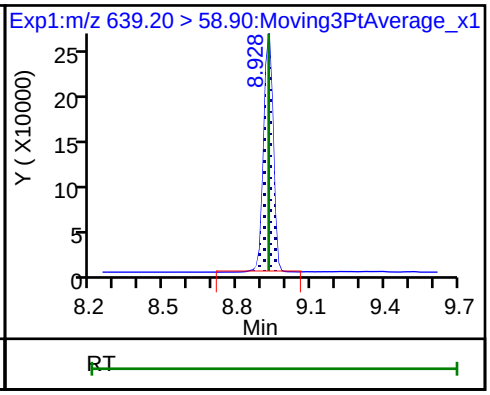
75 NMeFOSA (ND)



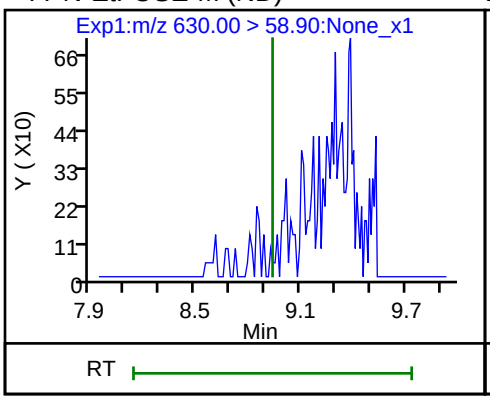
75 NMeFOSA (ND)



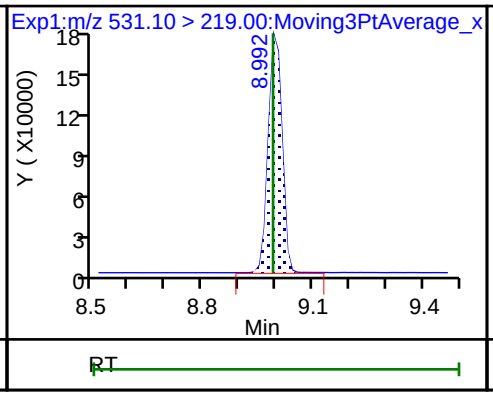
D 76 d9-N-EtFOSE



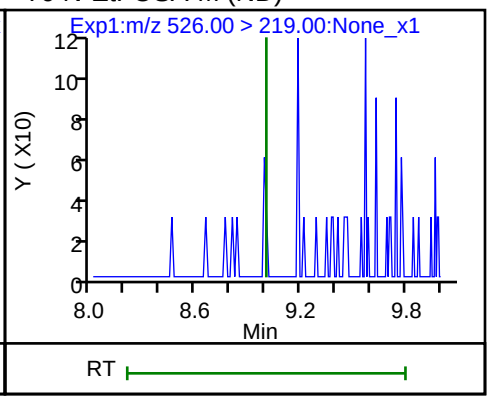
77 N-EtFOSE-M (ND)



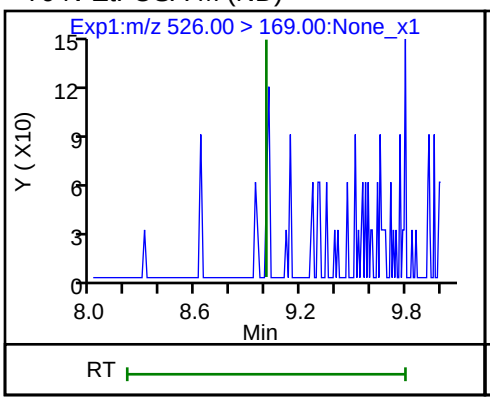
D 78 d5-NEtPFOSA



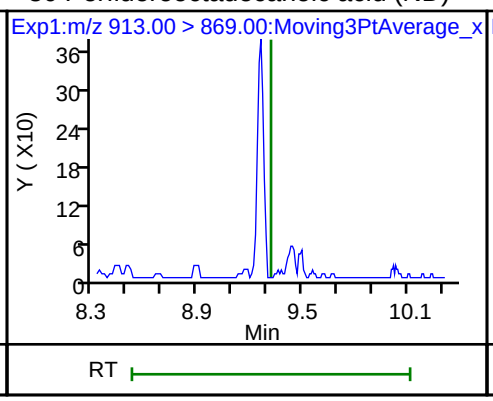
79 N-EtFOSA-M (ND)



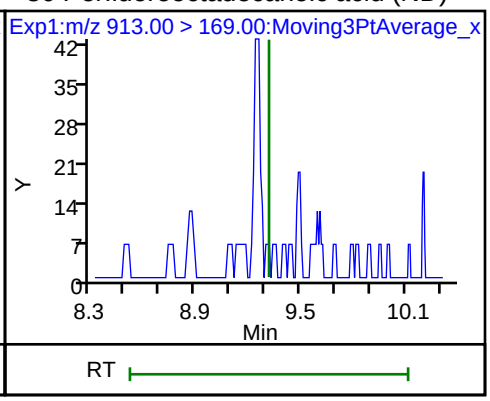
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-764500/135

Matrix: Solid
Lab File ID: 26Feb04-52.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 18:10

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.010	U	0.010	0.0040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.010	U	0.010	0.0040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.010	U	0.010	0.0040
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.010	U	0.010	0.0040
335-67-1	Perfluorooctanoic acid (PFOA)	0.010	U	0.010	0.0040
375-95-1	Perfluorononanoic acid (PFNA)	0.010	U	0.010	0.0040
335-76-2	Perfluorodecanoic acid (PFDA)	0.010	U	0.010	0.0040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.010	U	0.010	0.0040
307-55-1	Perfluorododecanoic acid (PFDoA)	0.010	U	0.010	0.0040
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.010	U	0.010	0.0040
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.010	U	0.010	0.0040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.010	U	0.010	0.0040
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.010	U	0.010	0.0040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.010	U	0.010	0.0040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.010	U	0.010	0.0040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.010	U	0.010	0.0040
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.010	U	0.010	0.0040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.010	U	0.010	0.0040
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.010	U	0.010	0.0040
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.010	U	0.010	0.0040
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.010	U	0.010	0.0040
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.010	U	0.010	0.0040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.010	U	0.010	0.0040
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.010	U	0.010	0.0040
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-764500/135

Matrix: Solid
Lab File ID: 26Feb04-52.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 18:10

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.010	U	0.010	0.0040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.010	U	0.010	0.0040
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.010	U	0.010	0.0040
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.010	U	0.010	0.0040
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.010	U	0.010	0.0040
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.010	U	0.010	0.0040
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.010	U	0.010	0.0040
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.010	U	0.010	0.0040
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.010	U	0.010	0.0040
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.010	U	0.010	0.0040
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.010	U	0.010	0.0040
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.010	U	0.010	0.0040
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.010	U	0.010	0.0040
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.010	U	0.010	0.0040
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-764500/135

Matrix: Solid
Lab File ID: 26Feb04-52.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 18:10

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	95.6		8-130
2283397-79-3	13C5 PFPeA	103		35-130
2328024-54-8	13C5 PFHxA	104		40-130
2328024-55-9	13C4 PFHpA	107		40-130
1350614-84-4	13C8 PFOA	100		40-130
2283397-80-6	13C9 PFNA	99.9		40-130
2328024-56-0	13C6 PFDA	97.0		40-130
STL02580	13C7 PFUnA	97.7		40-130
STL02116	13C2 PFTeDA	103		20-130
2708218-83-9	13C3 PFBS	97.2		40-135
2708218-85-1	13C3 PFHxS	104		40-130
2265893-05-6	13C8 PFOS	99.6		40-130
STL01056	13C8 FOSA	97.8		40-130
1400690-70-1	d3-NMeFOSAA	113		40-135
1265205-97-7	d5-NEtFOSAA	105		40-150
STL02395	13C2 4:2 FTS	93.2		40-165
STL02279	13C2 6:2 FTS	105		40-215
STL02280	13C2 8:2 FTS	103		40-275
STL02255	13C3 HFPO-DA	97.8		40-130
STL02277	d7-N-MeFOSE-M	102		20-130
STL02278	d9-N-EtFOSE-M	109		15-130
STL02704	d5-NEtPFOSA	97.9		10-130
STL02705	d3-NMePFOSA	100		10-130
960315-52-0	13C2 PFDoA	93.8		40-130

Report Date: 04-Feb-2026 18:49:59 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-52.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 04-Feb-2026 18:10:44 ALS Bottle#: 1 Worklist Smp#: 135
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: Plate: 1 Rack: 1 410-0174617-135
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 18:49:52 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 18:33:47
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C3PFPrA 166.00 > 121.00	2.106	2.114	-0.008	0.482	1390144	1.84		92.2	928	
D 6 13C4-PFBA 216.80 > 171.90	4.362	4.338	0.024	0.998	2402658	1.91		95.6	8706	
* 7 13C3PFBA 216.00 > 172.00	4.371	4.338	0.033		2080955	2.00			6583	
D 11 13C5 PFPeA 268.30 > 223.00	4.979	4.955	0.024	0.915	1794520	2.05		103	7184	
D 14 13C2-4:2FTS 329.10 > 80.90	5.260	5.240	0.020	0.815	999219	4.37		93.2	5870	
D 17 13C5 PFHxA 318.00 > 273.00	5.443	5.418	0.025	1.000	2565385	2.08		104	3330	
* 18 13C2 PFHxA 315.10 > 270.00	5.443	5.432	0.011		5329497	5.00			11175	
D 20 13C3 PFBS 302.10 > 79.90	5.579	5.568	0.011	0.864	2085662	1.81		97.2	7736	
D 23 13C3 HFPO-DA 286.90 > 168.90	5.622	5.611	0.011	1.033	1649641	1.96		97.8	5657	
4 TCDCA 498.10 > 80.00	6.443	5.701	0.742	0.889	4848	NR			8.0	
8 TDCA 498.00 > 80.00	6.480	5.811	0.669	0.894	5654	NR			11.2	
D 26 13C4 PFHpA 367.10 > 322.00	5.854	5.845	0.009	1.076	2591795	2.15		107	6736	
D 30 13C2-6:2FTS 429.10 > 80.90	6.042	6.033	0.009	0.936	676207	4.98		105	3743	
D 35 13C8 PFOA 421.10 > 376.00	6.230	6.233	-0.003	0.998	3111309	2.01		100	6269	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA 417.10 > 372.00	6.241	6.233	0.008		7749314	5.00			7675	
* 38 18O2 PFHxS 403.00 > 83.90	6.456	6.460	-0.004		1714181	1.90			9336	
D 37 13C3 PFHxS 402.10 > 79.90	6.456	6.460	-0.004	1.000	1780537	1.97		104	7647	
* 41 13C5 PFNA 468.00 > 423.00	6.615	6.620	-0.005		2907343	2.00			7353	
D 42 13C9 PFNA 472.10 > 427.00	6.615	6.620	-0.005	1.000	2918013	2.00		99.9	8876	
D 44 13C2-8:2FTS 529.10 > 80.90	6.785	6.790	-0.005	1.051	650180	4.92		103	2000	
D 48 d3-NMeFOSAA 573.20 > 419.00	6.935	6.940	-0.005	0.957	1735513	5.65		113	1090	
D 50 13C6 PFDA 519.10 > 474.10	6.996	7.015	-0.019	1.000	3081000	1.94		97.0	8493	
* 52 13C2 PFDA 515.10 > 470.10	6.996	7.015	-0.019		3112730	2.00			8859	
D 54 d5-NEtFOSAA 589.20 > 419.00	7.103	7.124	-0.021	0.980	1419171	5.23		105	3739	
D 56 13C8 PFOS 507.10 > 79.90	7.248	7.267	-0.019	1.000	1458447	1.91		99.6	2468	
* 57 13C4 PFOS 502.80 > 79.90	7.248	7.267	-0.019		1582127	1.92			11498	
D 59 13C7 PFUnA 570.00 > 525.10	7.393	7.409	-0.016	1.057	3728146	1.95		97.7	8994	
D 81 PFDoA 615.10 > 570.00	7.767	7.801	-0.034	1.110	3174014	1.88		93.8	10528	
D 65 13C8 FOSA 506.10 > 77.80	7.962	7.957	0.005	1.098	1846775	1.96		97.8	5147	
D 69 13C2 PFTeDA 715.20 > 670.00	8.456	8.494	-0.038	1.209	1922765	2.06		103	8702	
D 71 d7-N-Me-FOSE 623.20 > 58.90	8.728	8.723	0.005	1.204	703695	5.09		102	661	
D 74 d3-NMePFOSA 515.00 > 219.00	8.815	8.809	0.006	1.216	429974	2.00		100	3578	
D 76 d9-N-EtFOSE 639.20 > 58.90	8.916	8.897	0.019	1.230	769827	5.47		109	1959	
D 78 d5-NEtPFOSA 531.10 > 219.00	8.986	8.967	0.019	1.240	512640	1.96		97.9	2742	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00565	Amount Added:	50.00	Units: uL
1633_125_SS_00201	Amount Added:	5.00	Units: uL

Report Date: 04-Feb-2026 18:49:59 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04-52.d

Injection Date: 04-Feb-2026 18:10:44 Instrument ID: 30575

Lims ID: CCB

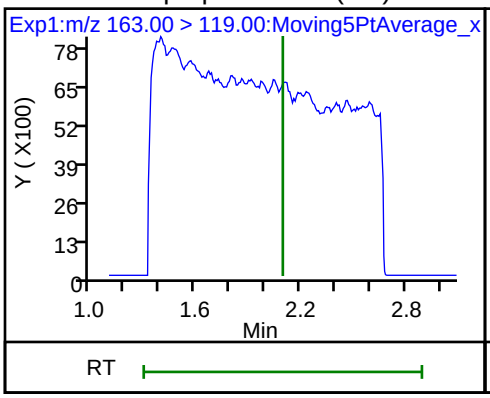
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 1 Worklist Smp#: 135

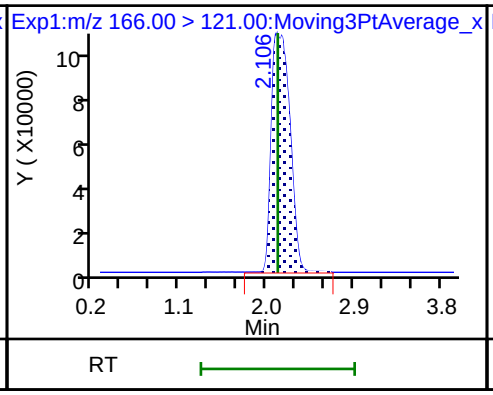
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

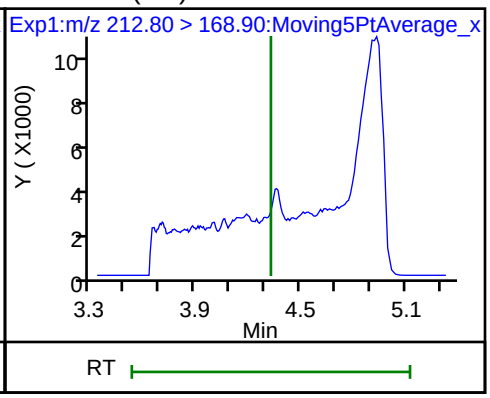
1 Perfluoropropionic acid (ND)



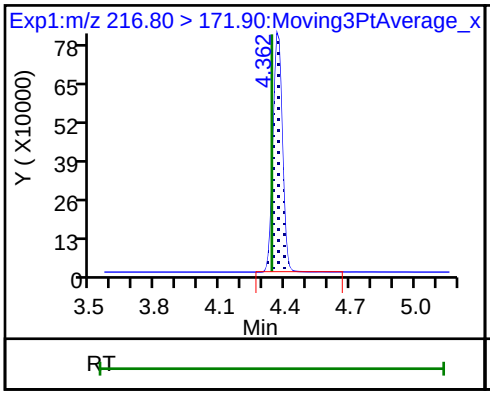
D 2 13C3PFPrA



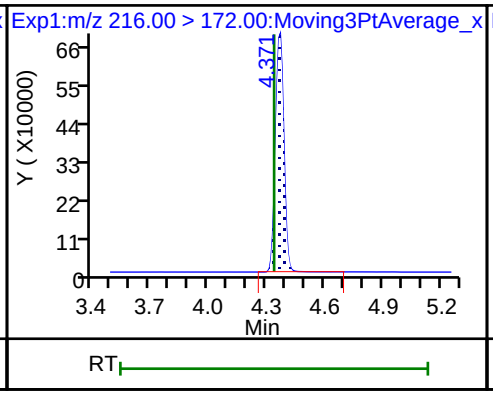
5 PFBA (ND)



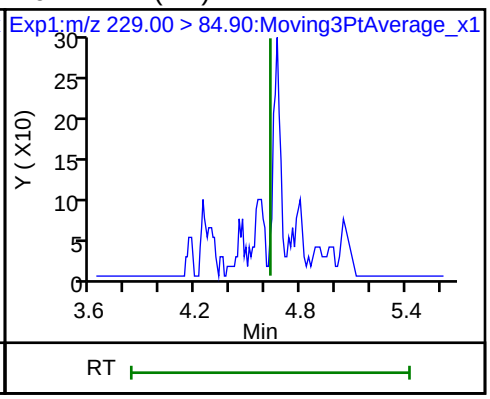
D 6 13C4-PFBA



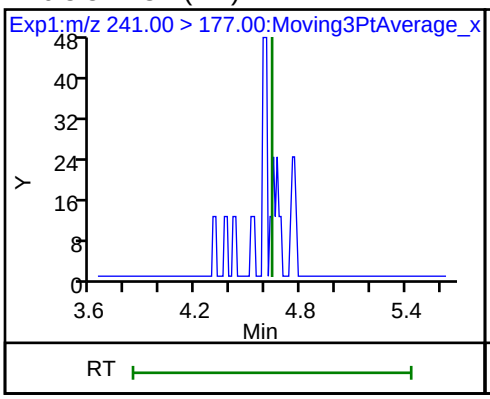
* 7 13C3PFBA



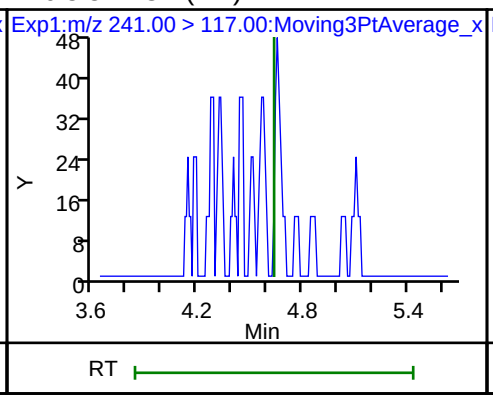
9 PFMPA (ND)



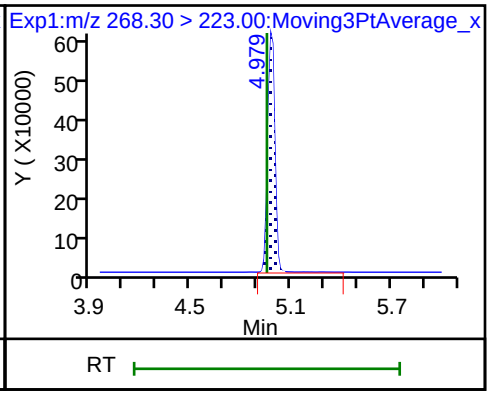
10 3:3 FTCA (ND)



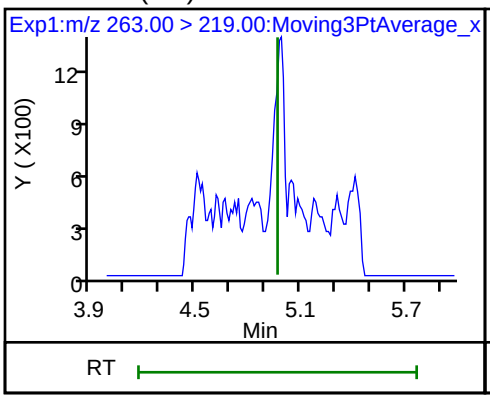
10 3:3 FTCA (ND)



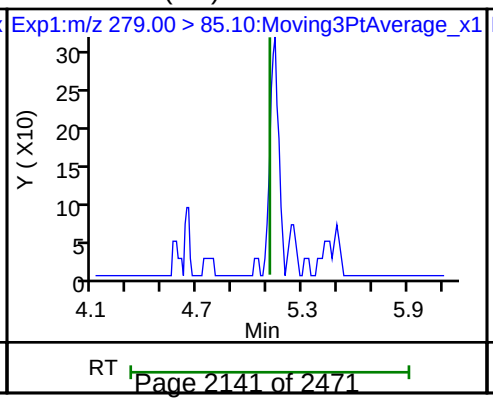
D 11 13C5 PFPeA



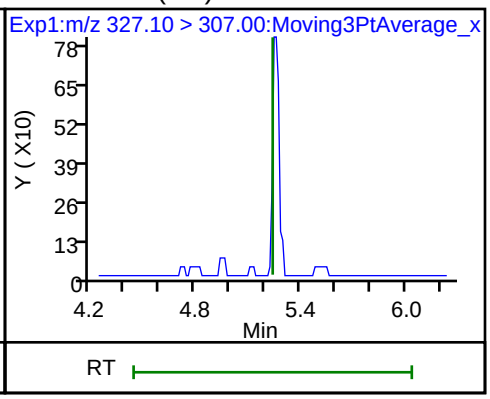
12 PFPA (ND)



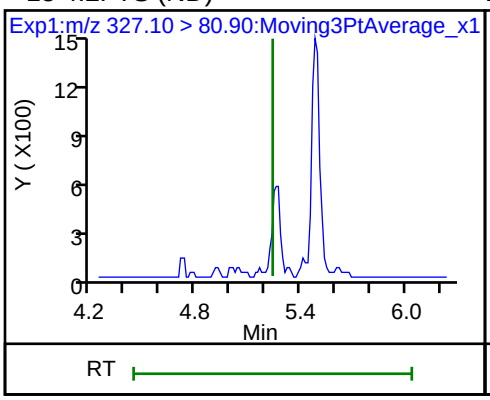
13 PFMBA (ND)



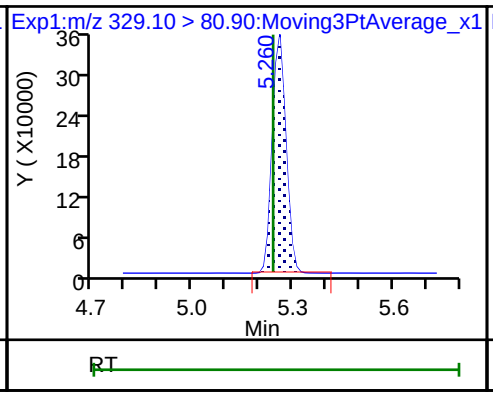
15 4:2FTS (ND)



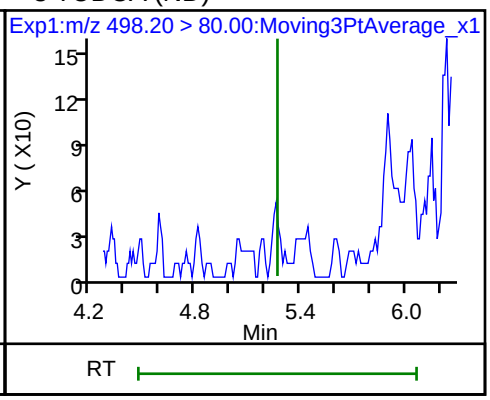
15 4:2FTS (ND)



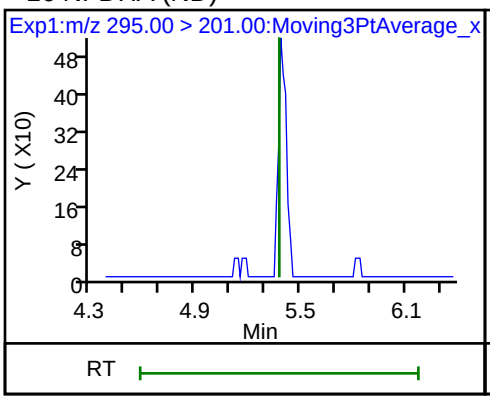
D 14 13C2-4:2FTS



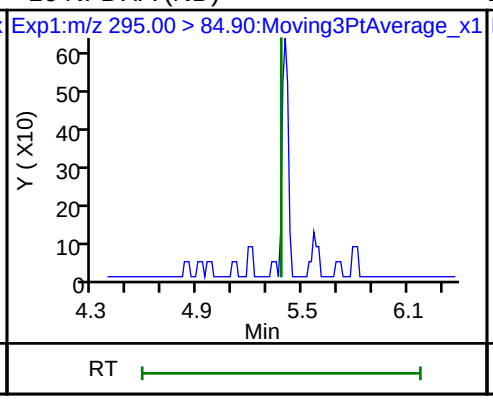
3 TUDCA (ND)



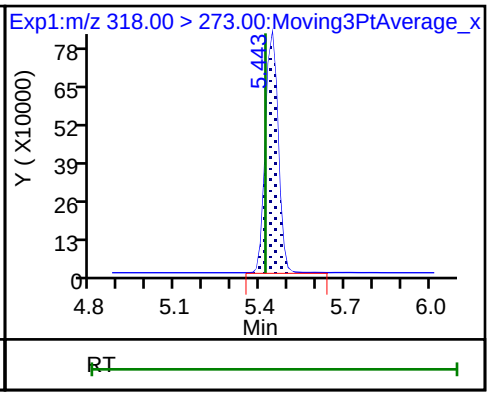
16 NFDHA (ND)



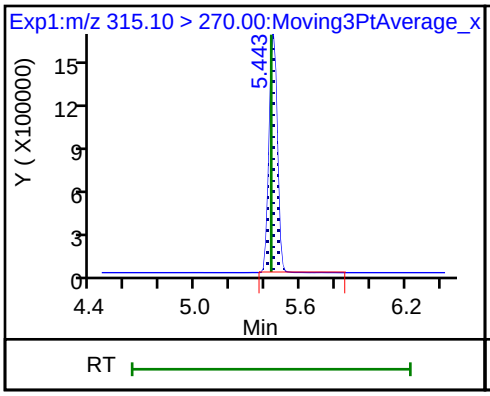
16 NFDHA (ND)



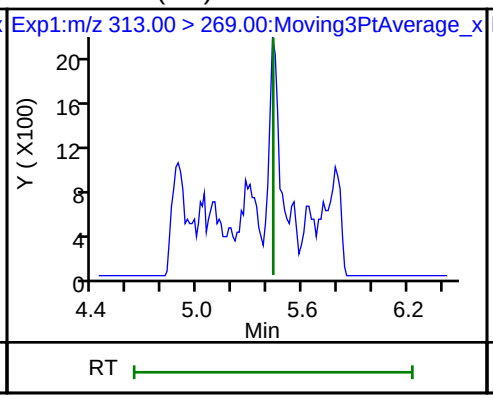
D 17 13C5 PFHxA



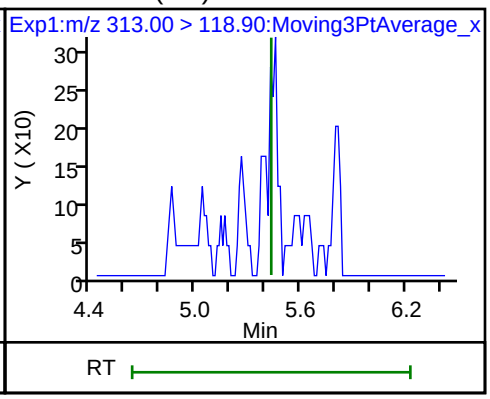
* 18 13C2 PFHxA



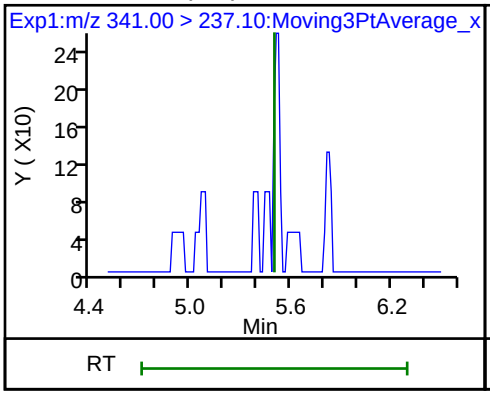
19 PFHxA (ND)



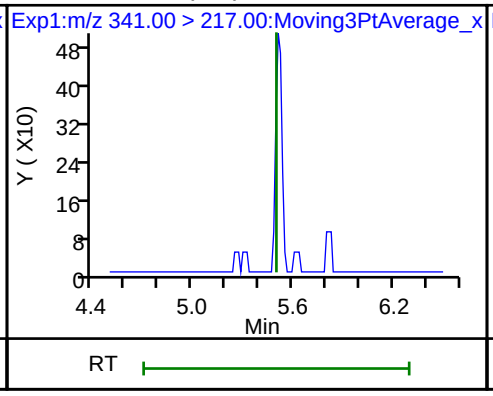
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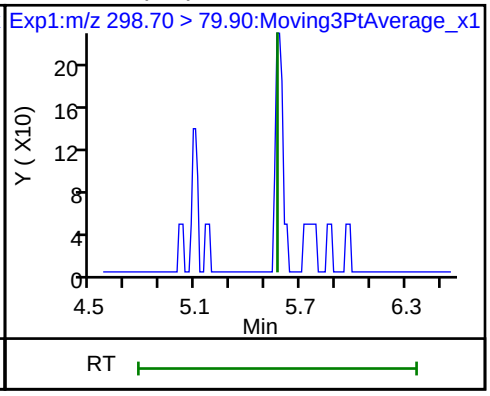
22 5:3 FTCA (ND)



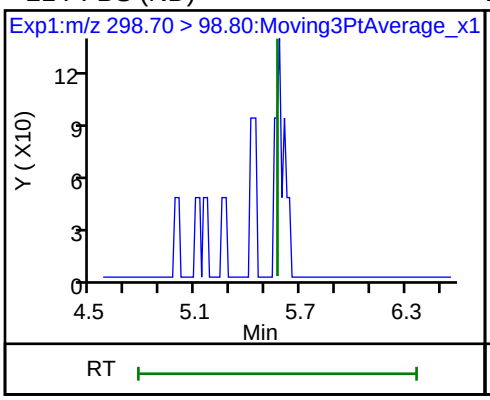
22 5:3 FTCA (ND)



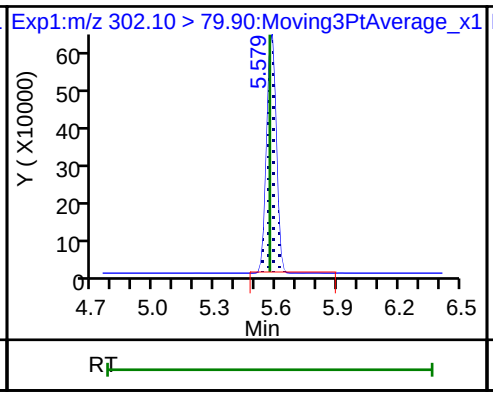
21 PFBS (ND)



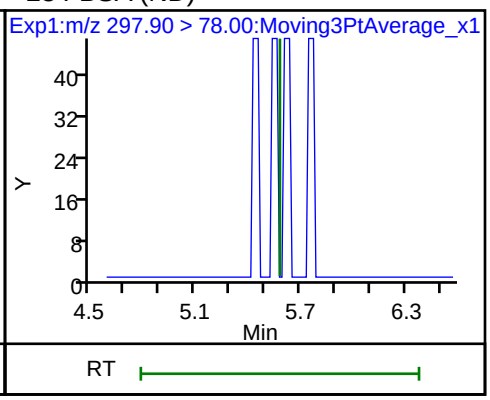
21 PFBS (ND)



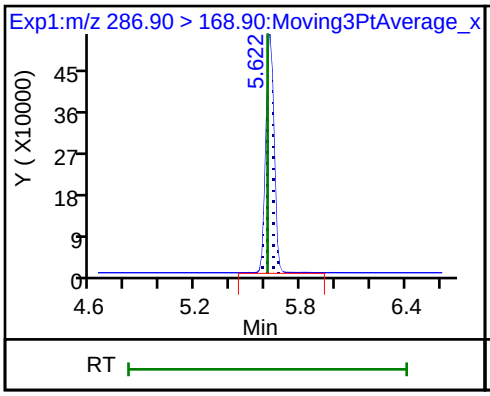
D 20 13C3 PFBS



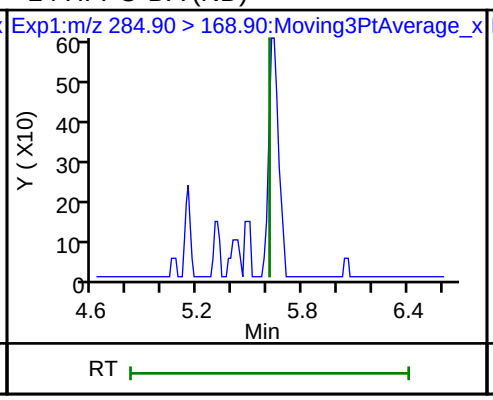
28 FBSA (ND)



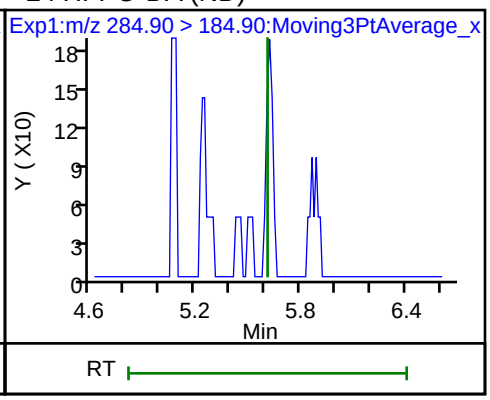
D 23 13C3 HFPO-DA



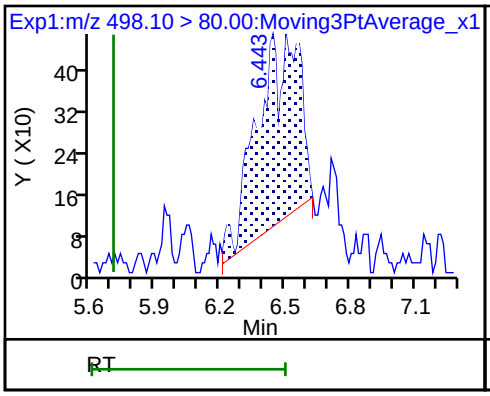
24 HFPO-DA (ND)



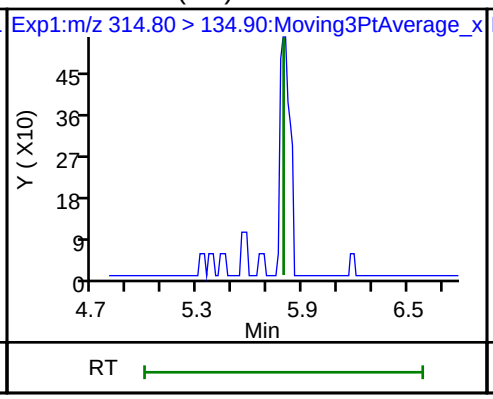
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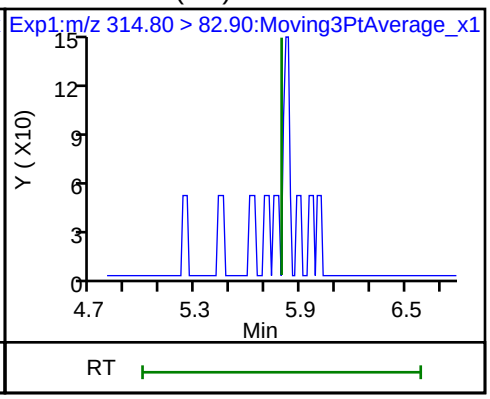
4 TCDCA



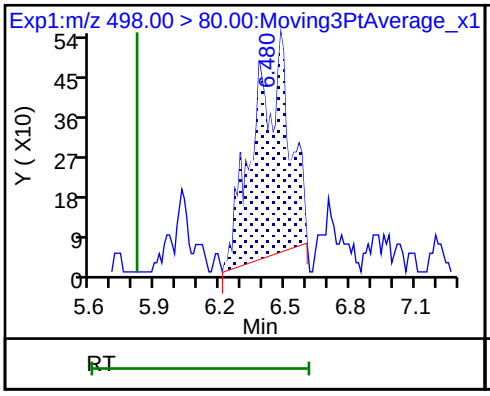
25 PFEESA (ND)



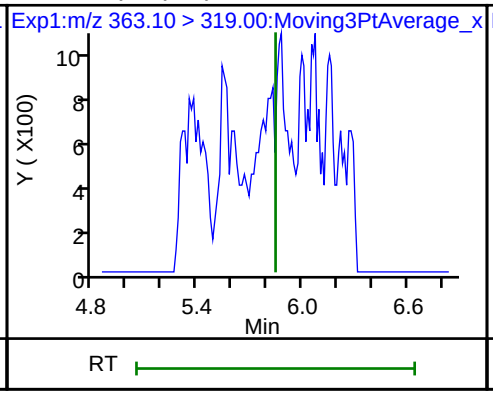
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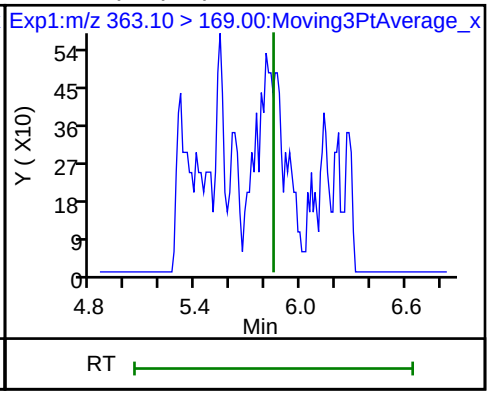
8 TDCA



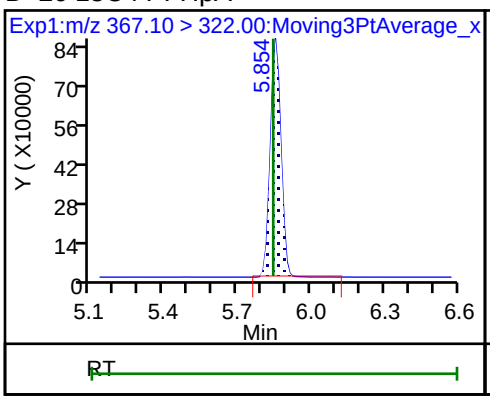
27 PFHpA (ND)



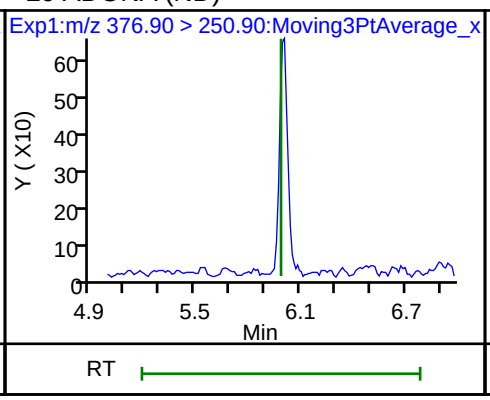
27 PFHpA (ND)



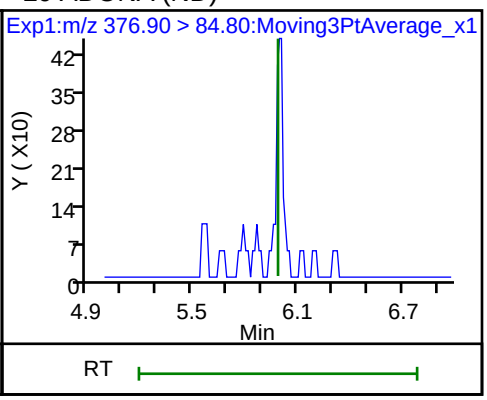
D 26 13C4 PFHpA



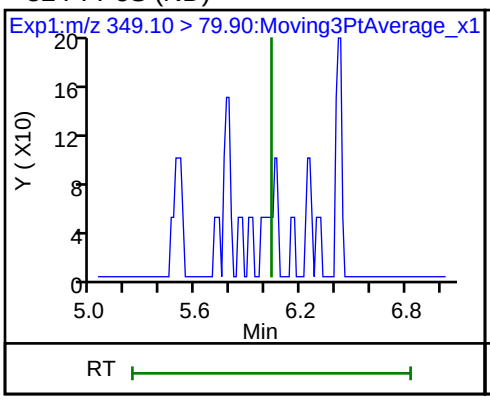
29 ADONA (ND)



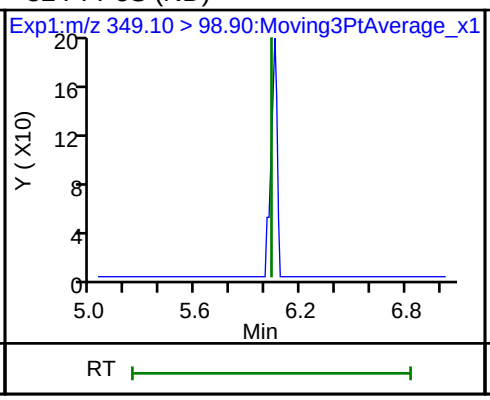
29 ADONA (ND)



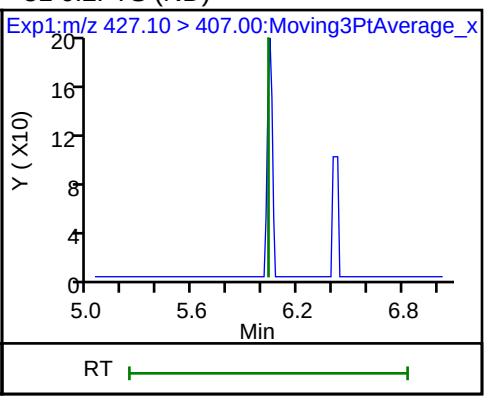
32 PFPeS (ND)



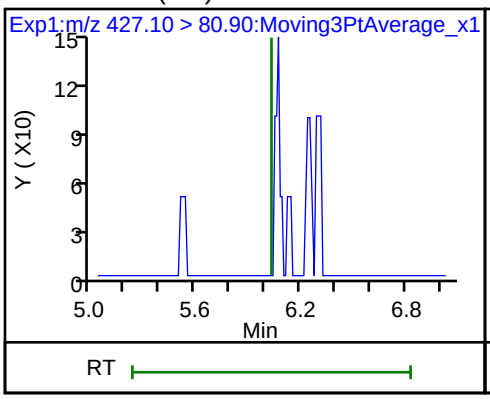
32 PFPeS (ND)



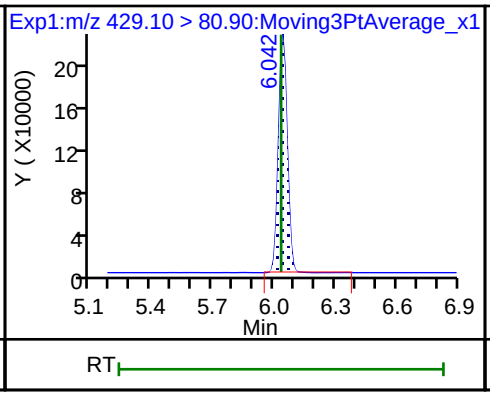
31 6:2FTS (ND)



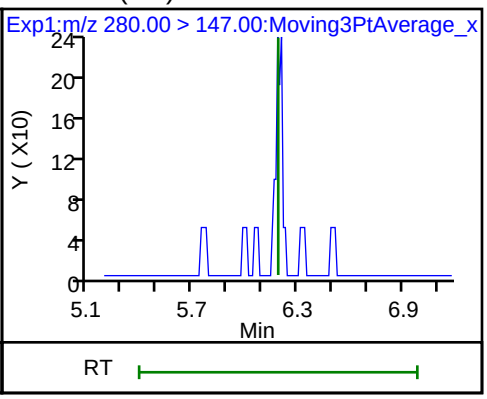
31 6:2FTS (ND)



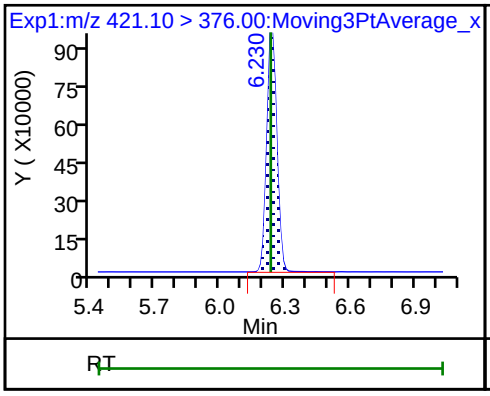
D 30 13C2-6:2FTS



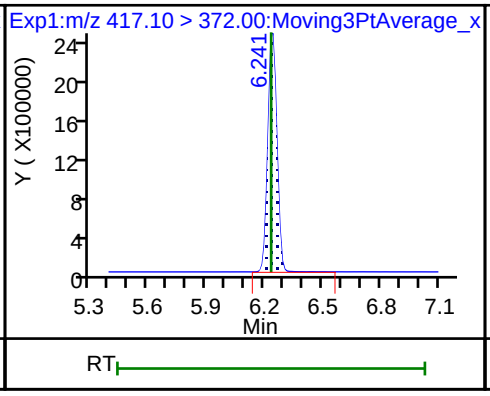
33 BTS (ND)



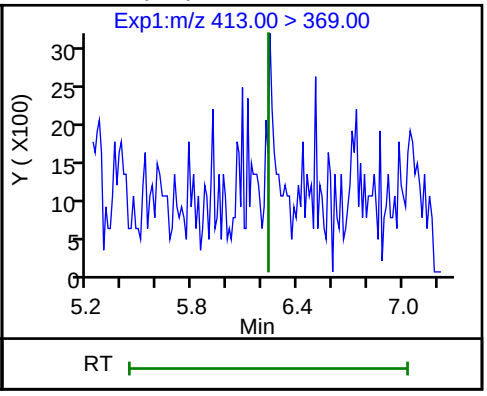
D 35 13C8 PFOA



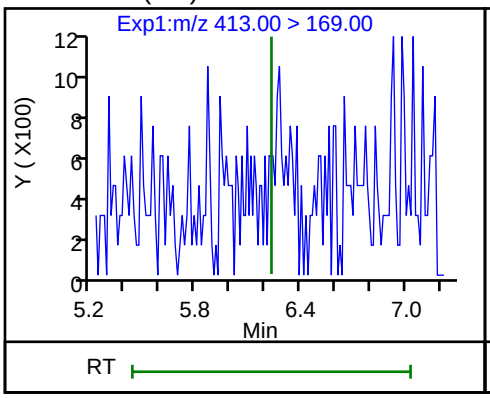
* 34 13C4 PFOA



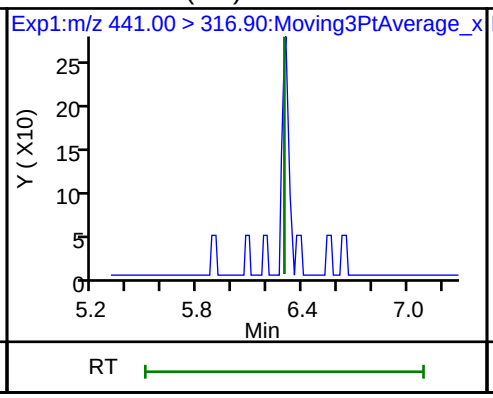
36 PFOA (ND)



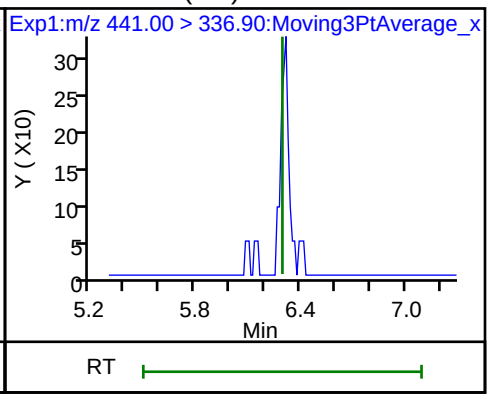
36 PFOA (ND)



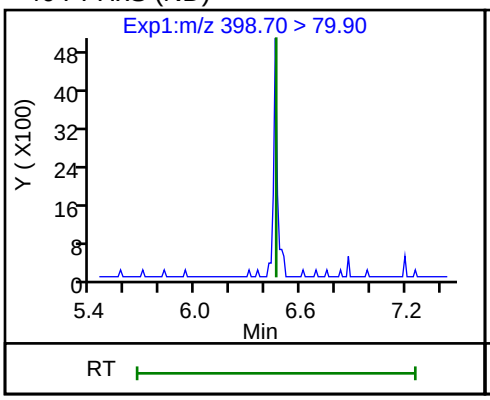
39 7:3 FTCA (ND)



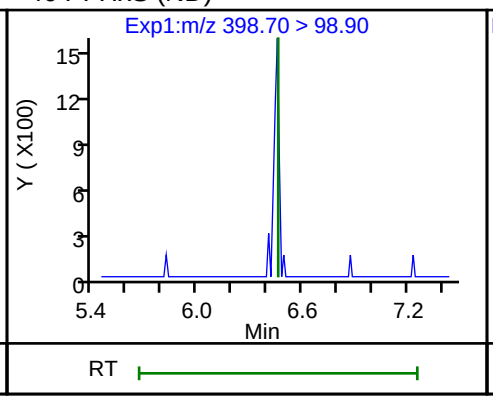
39 7:3 FTCA (ND)



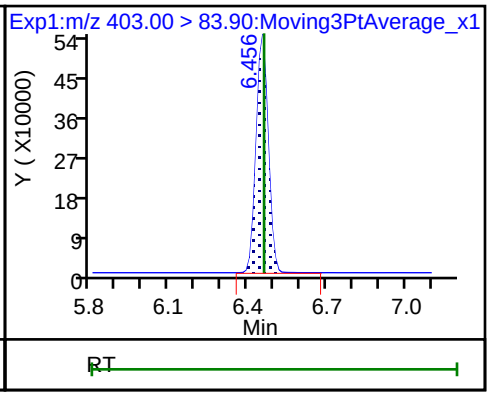
40 PFHxS (ND)



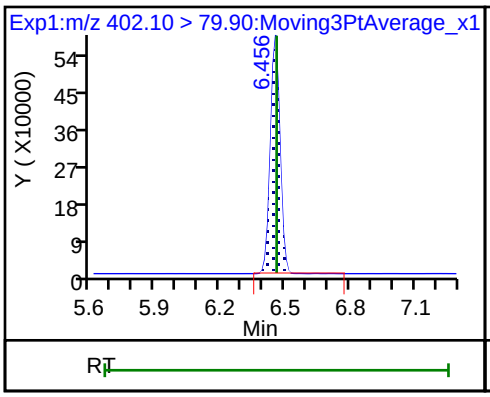
40 PFHxS (ND)



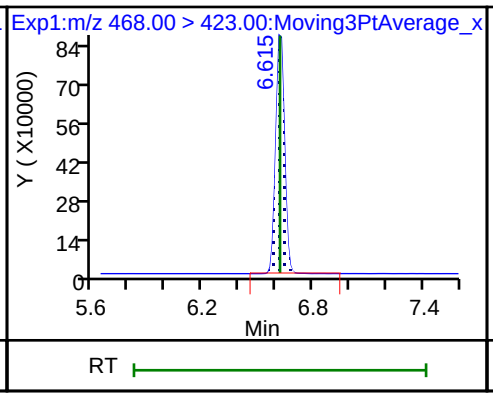
* 38 18O2 PFHxS



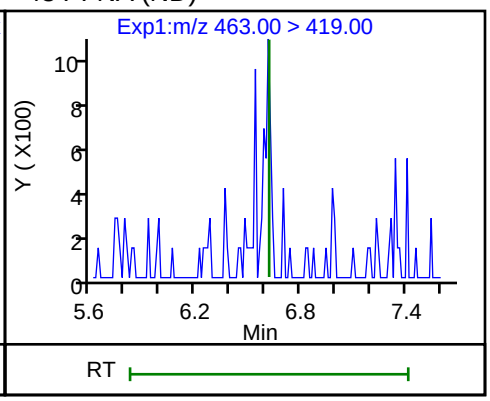
D 37 13C3 PFHxS



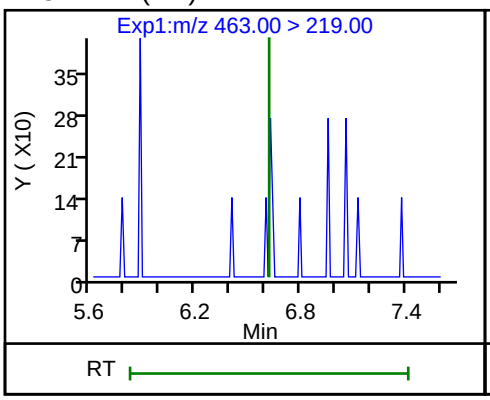
* 41 13C5 PFNA



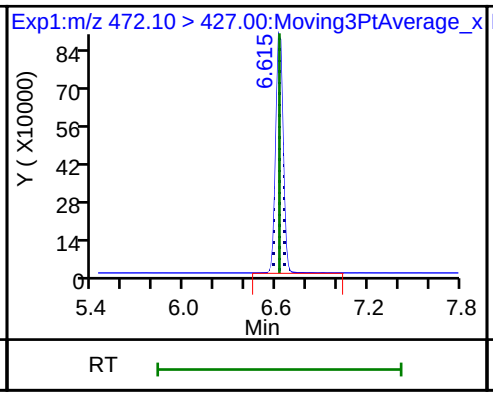
43 PFNA (ND)



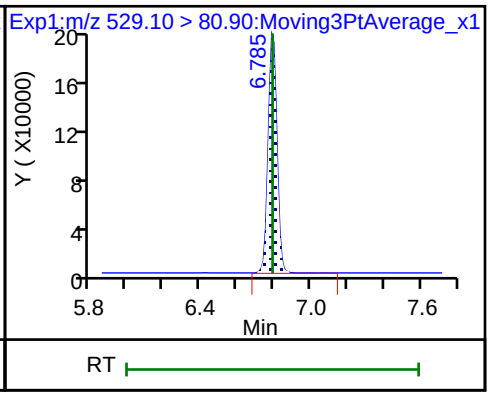
43 PFNA (ND)



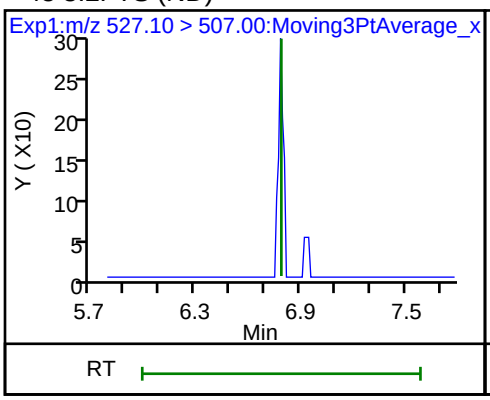
D 42 13C9 PFNA



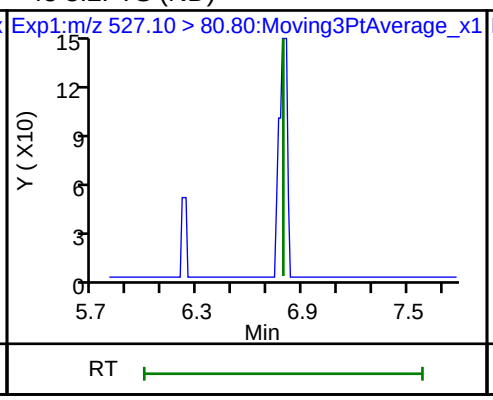
D 44 13C2-8:2FTS



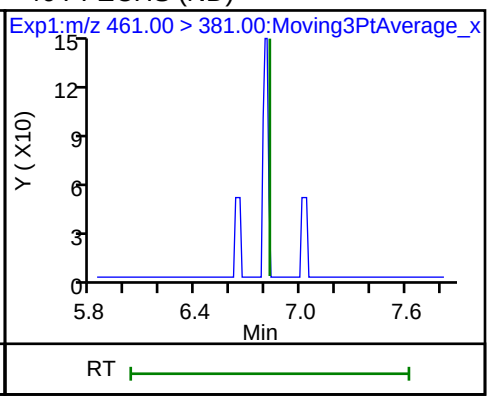
45 8:2FTS (ND)



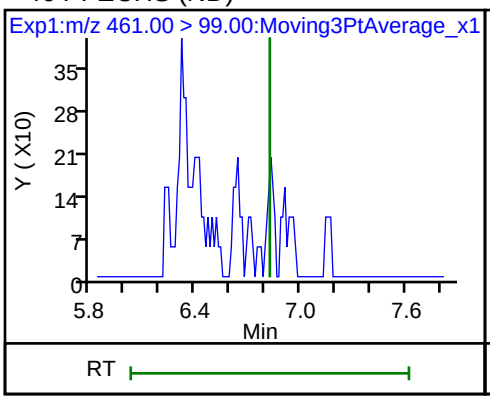
45 8:2FTS (ND)



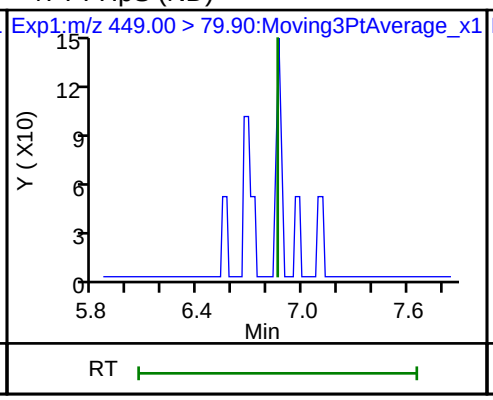
46 PFECHS (ND)



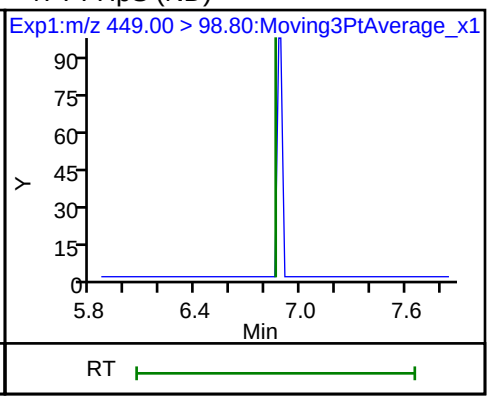
46 PFECHS (ND)



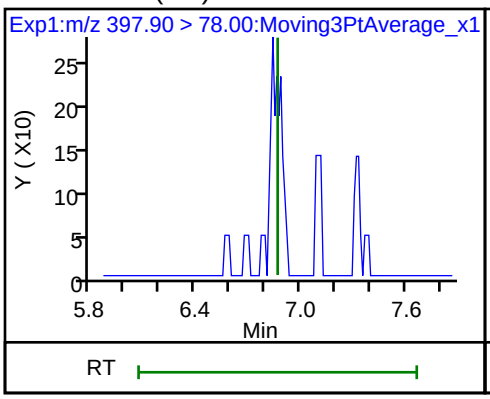
47 PFHpS (ND)



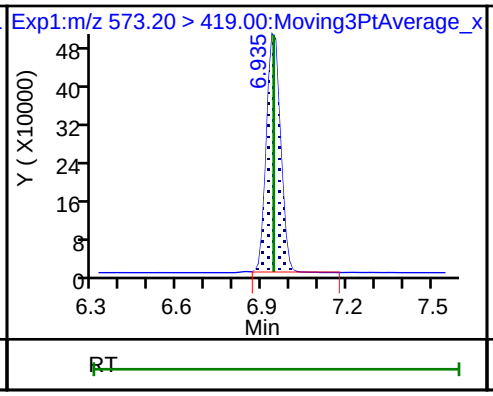
47 PFHpS (ND)



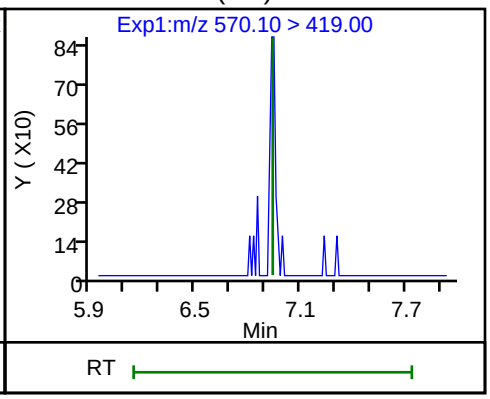
53 FHxSA (ND)



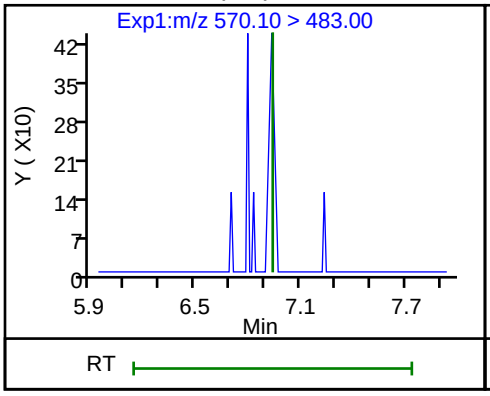
D 48 d3-NMeFOSAA



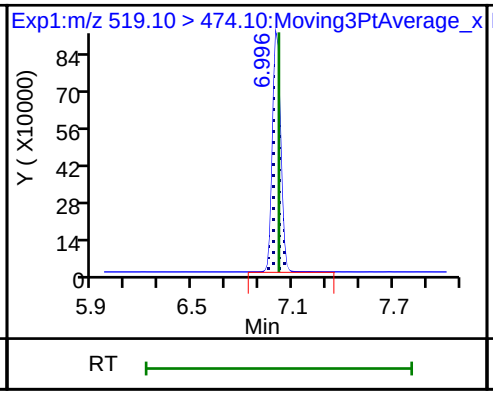
49 NMeFOSAA (ND)



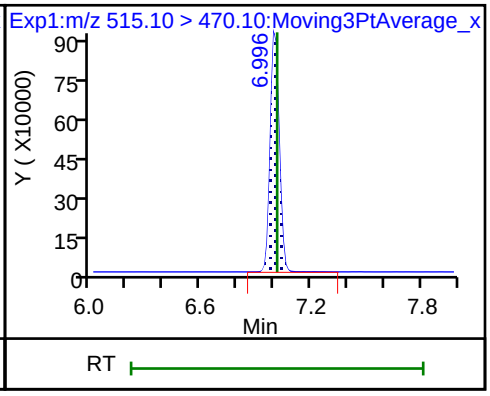
49 NMeFOSAA (ND)



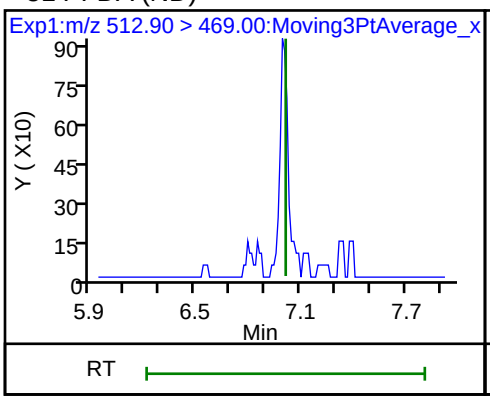
D 50 13C6 PFDA



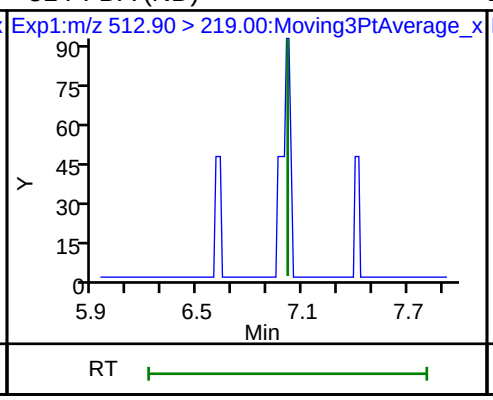
* 52 13C2 PFDA



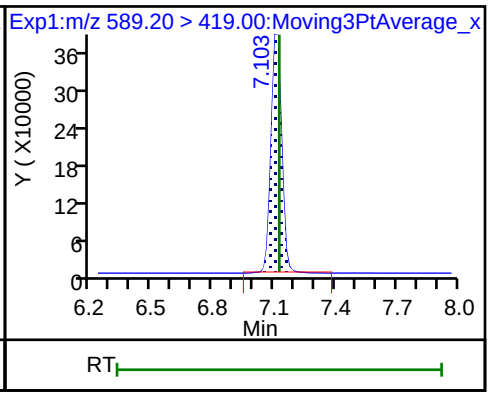
51 PFDA (ND)



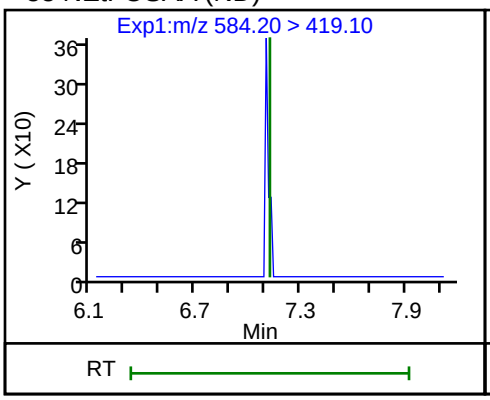
51 PFDA (ND)



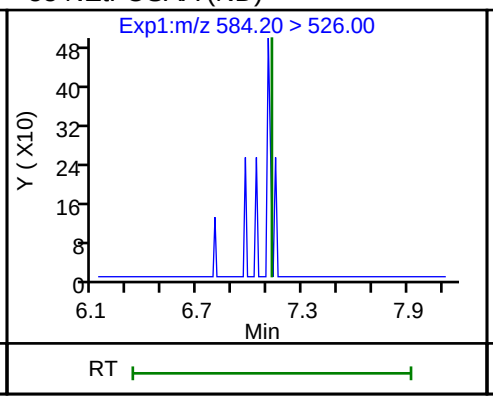
D 54 d5-NEtFOSAA



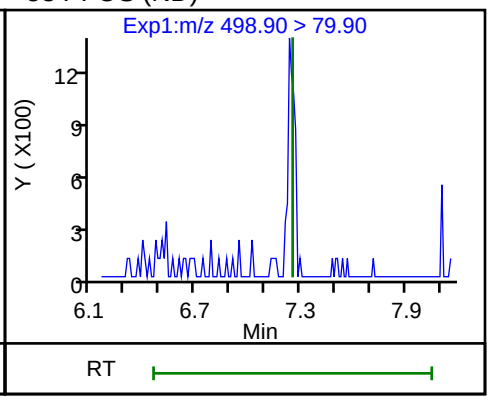
55 NEtFOSAA (ND)



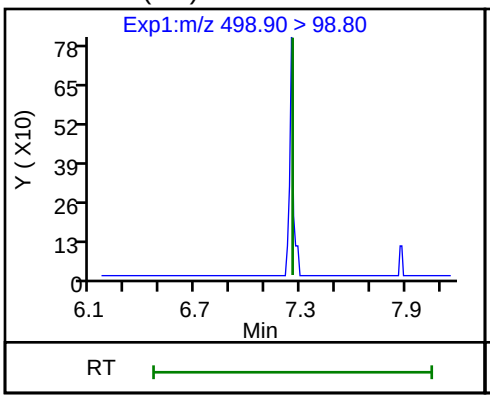
55 NEtFOSAA (ND)



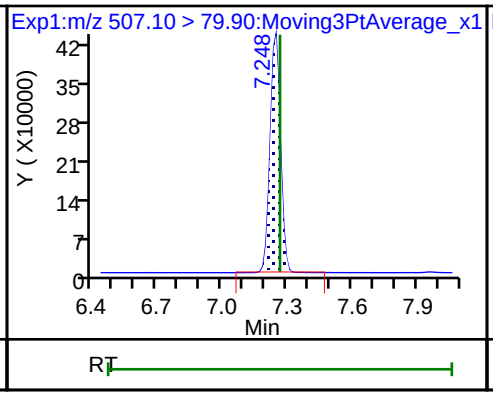
58 PFOS (ND)



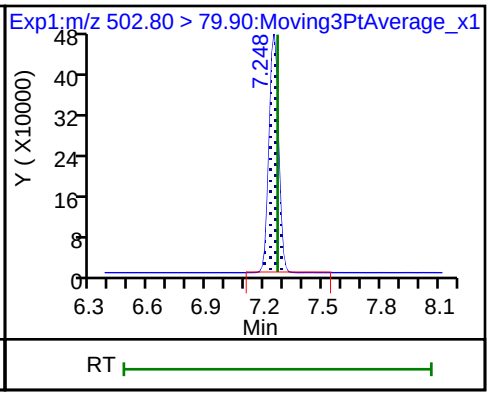
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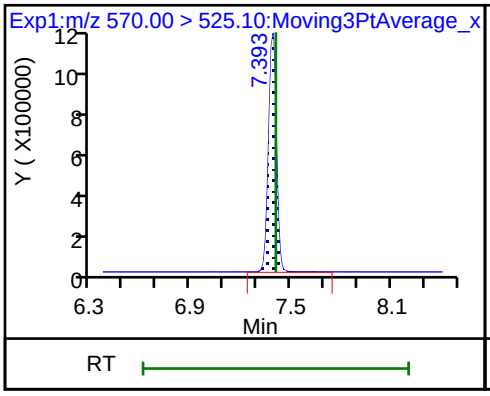
D 56 13C8 PFOS



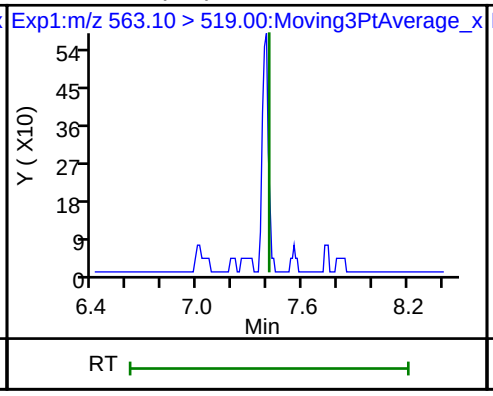
* 57 13C4 PFOS



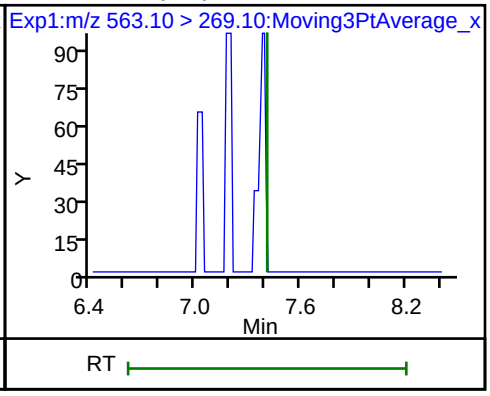
D 59 13C7 PFUnA



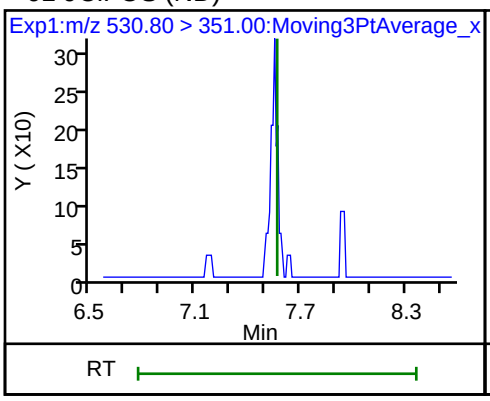
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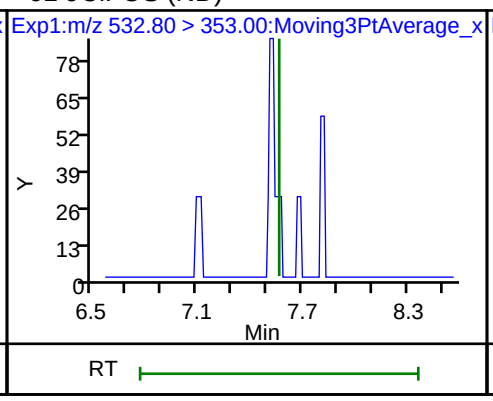
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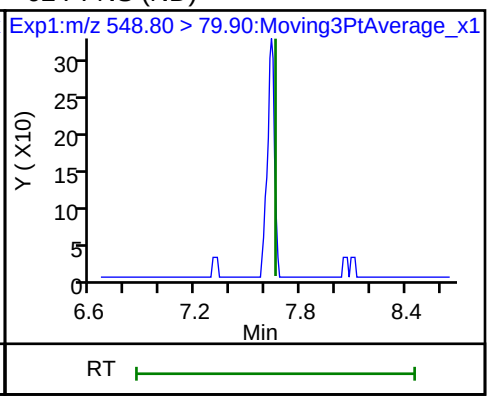
61 9ClFOS (ND)



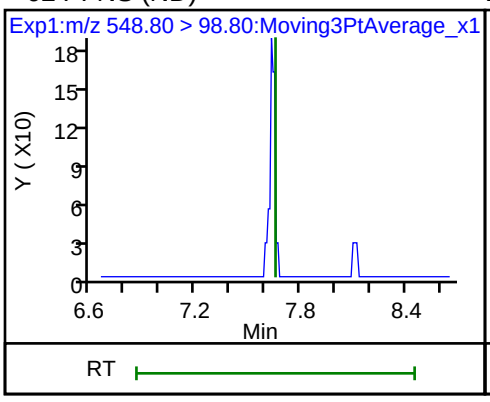
61 9ClFOS (ND)



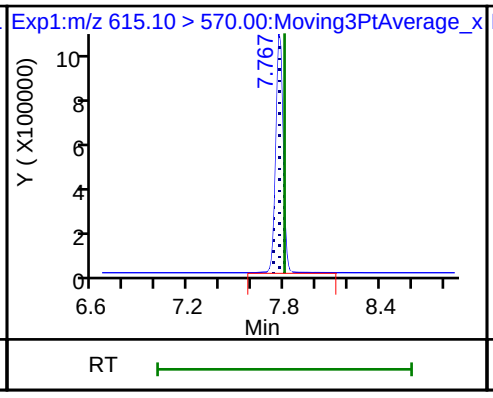
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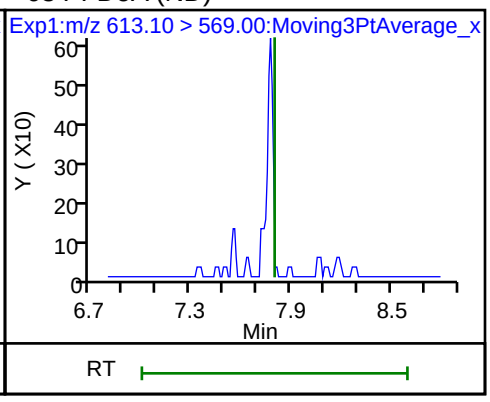
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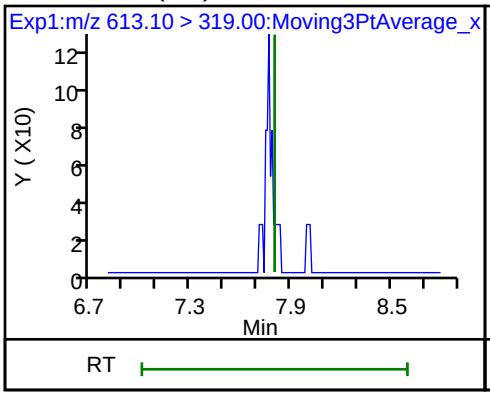
D 81 PFDoA



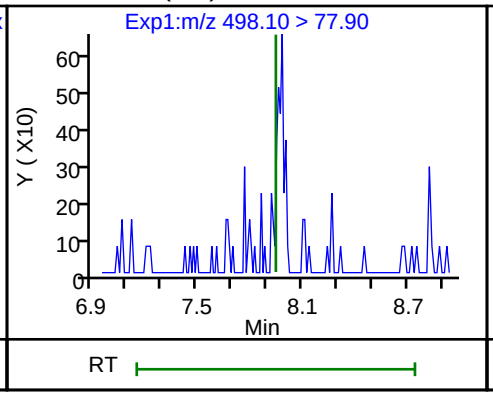
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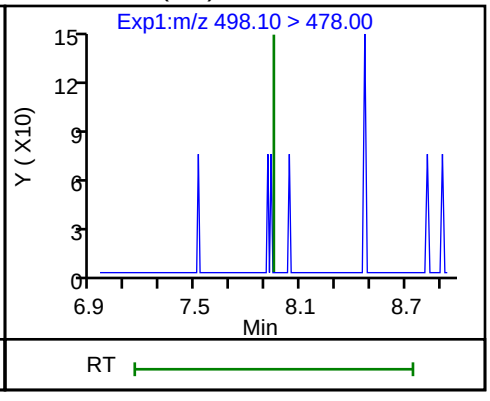
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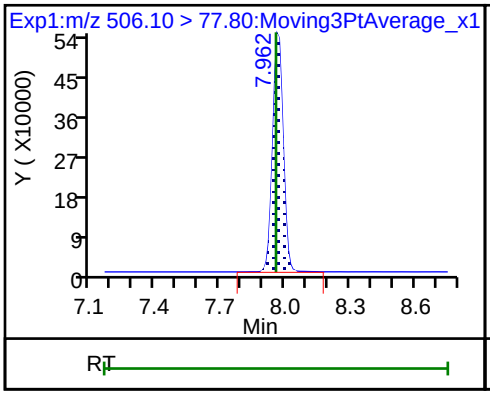
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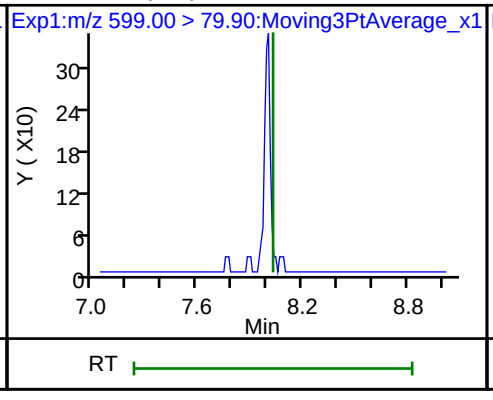
64 PFOSA (ND)



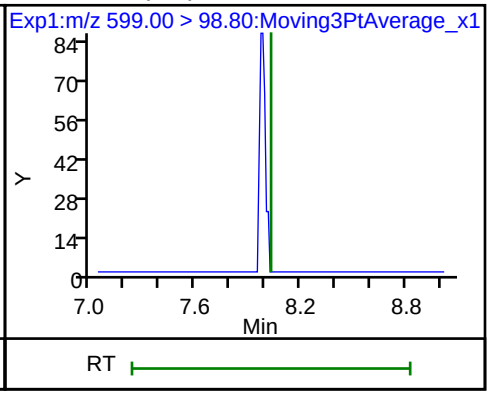
D 65 13C8 FOSA



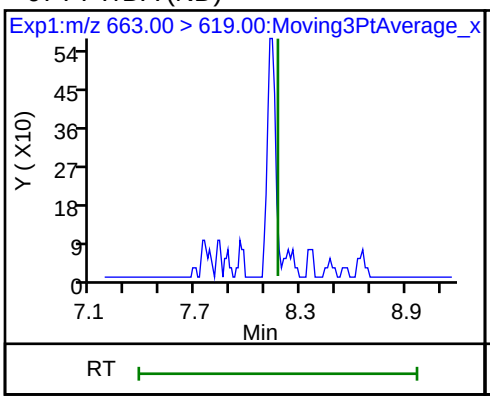
66 PFDS (ND)



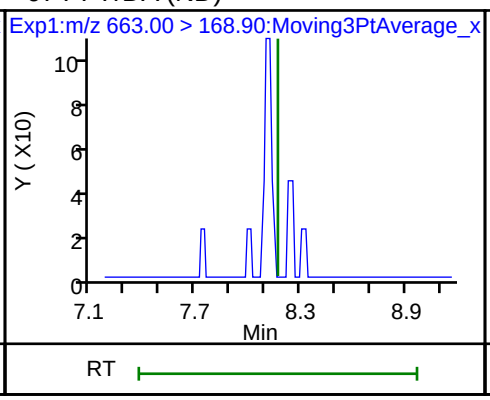
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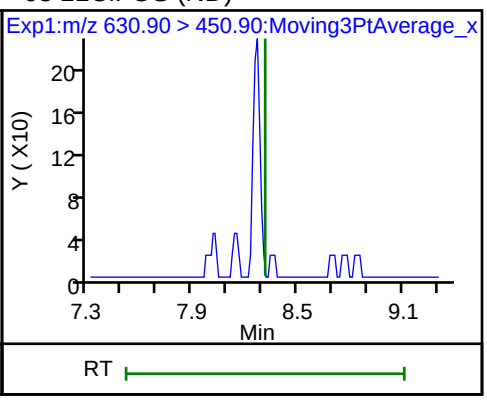
67 PFTrDA (ND)



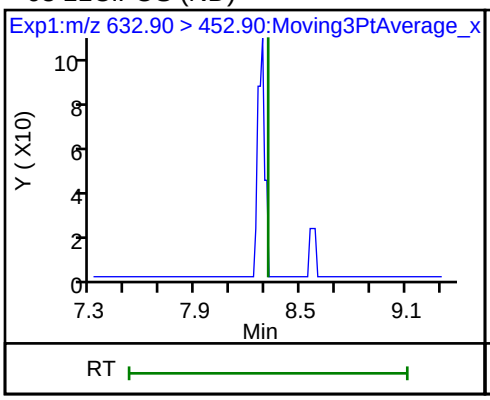
67 PFTrDA (ND)



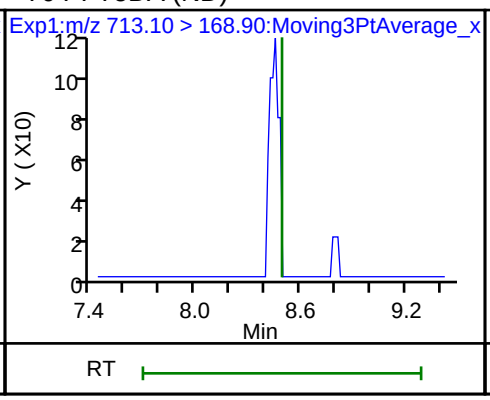
68 11ClFOS (ND)



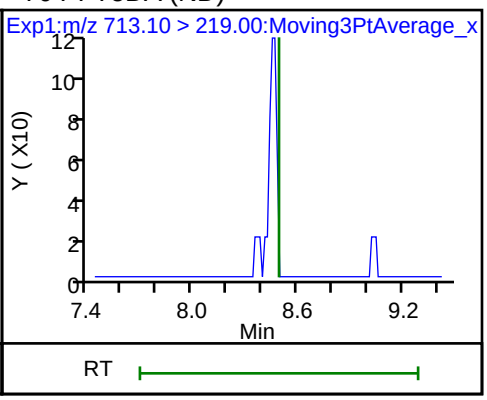
68 11ClFOS (ND)



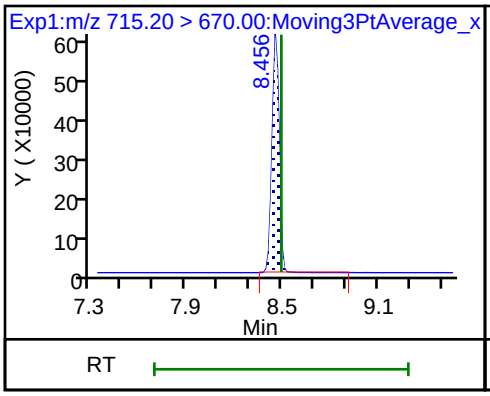
70 PFTeDA (ND)



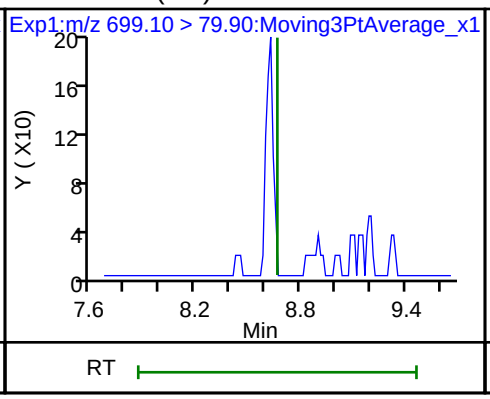
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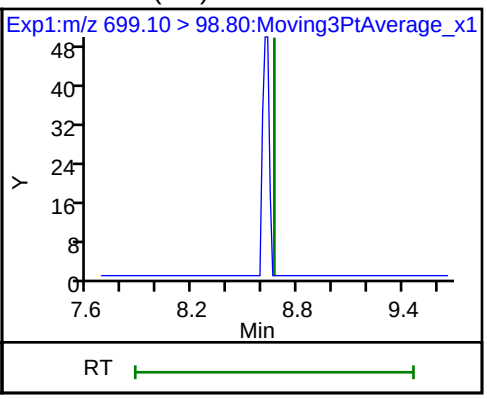
D 69 13C2 PFTeDA



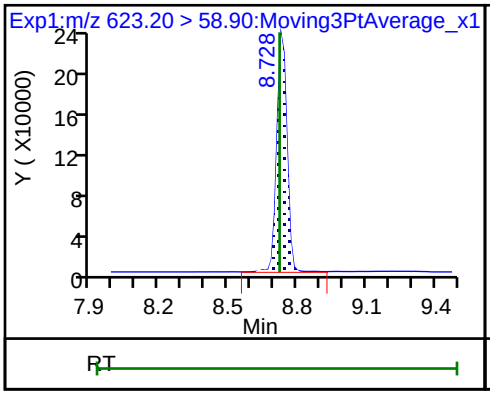
73 PFDoS (ND)



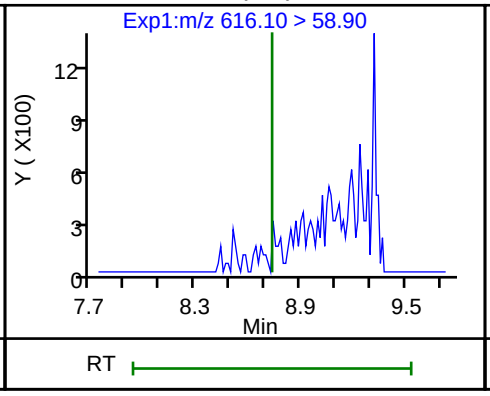
73 PFDoS (ND)



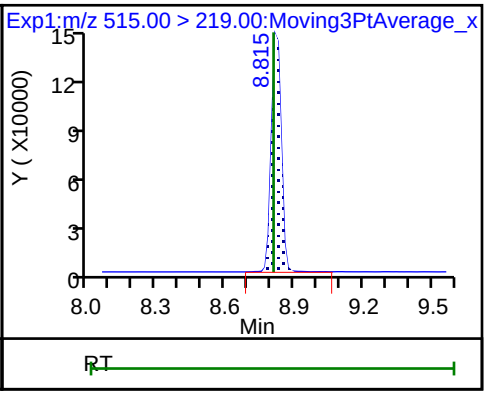
D 71 d7-N-Me-FOSE



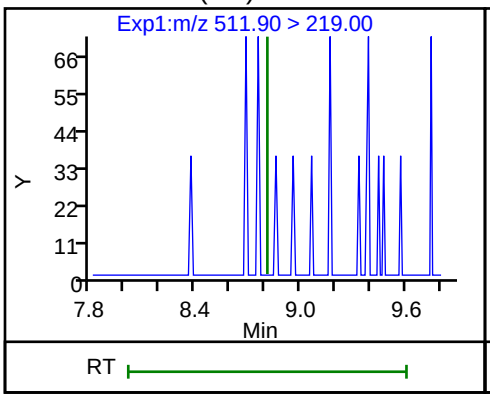
72 N-MeFOSE-M (ND)



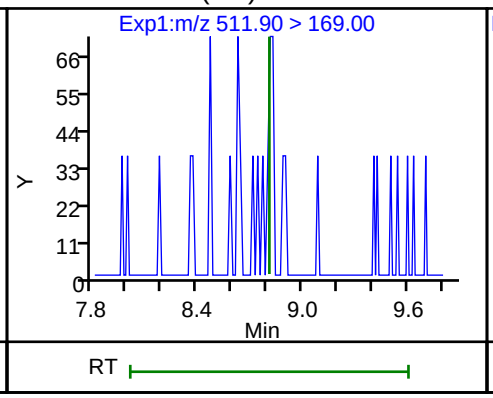
D 74 d3-NMePFOSA



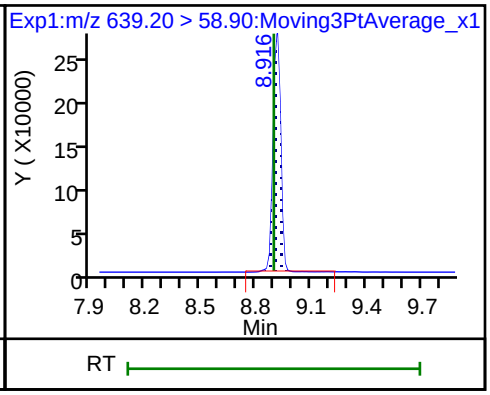
75 NMeFOSA (ND)



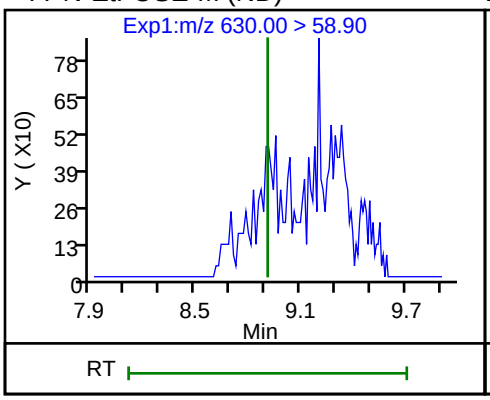
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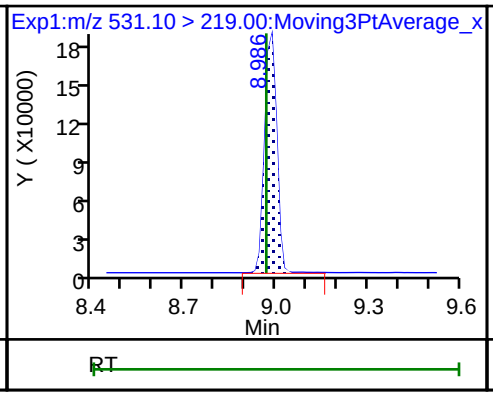
D 76 d9-N-EtFOSE



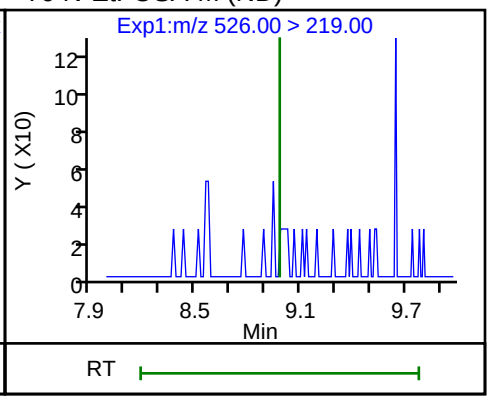
77 N-EtFOSE-M (ND)



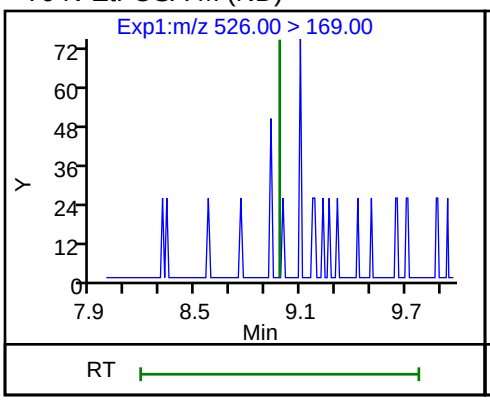
D 78 d5-NEtPFOSA



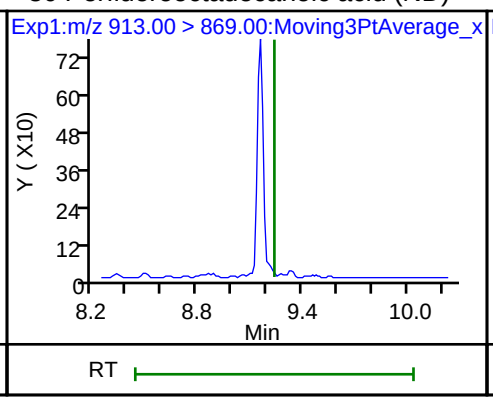
79 N-EtFOSA-M (ND)



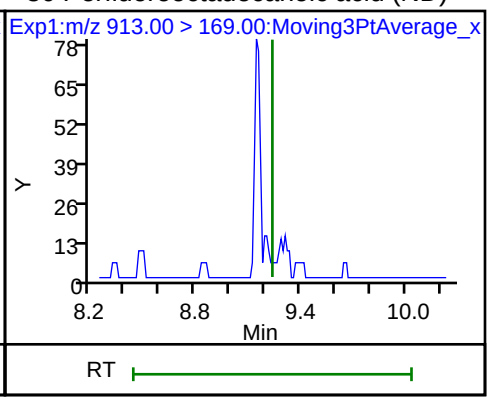
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-764500/153

Matrix: Solid
Lab File ID: 26Feb04SD-69.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 22:01

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.010	U	0.010	0.0040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.010	U	0.010	0.0040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.010	U	0.010	0.0040
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.010	U	0.010	0.0040
335-67-1	Perfluorooctanoic acid (PFOA)	0.010	U	0.010	0.0040
375-95-1	Perfluorononanoic acid (PFNA)	0.010	U	0.010	0.0040
335-76-2	Perfluorodecanoic acid (PFDA)	0.010	U	0.010	0.0040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.010	U	0.010	0.0040
307-55-1	Perfluorododecanoic acid (PFDoA)	0.010	U	0.010	0.0040
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.010	U	0.010	0.0040
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.010	U	0.010	0.0040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.010	U	0.010	0.0040
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.010	U	0.010	0.0040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.010	U	0.010	0.0040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.010	U	0.010	0.0040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.010	U	0.010	0.0040
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.010	U	0.010	0.0040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.010	U	0.010	0.0040
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.010	U	0.010	0.0040
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.010	U	0.010	0.0040
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.010	U	0.010	0.0040
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.010	U	0.010	0.0040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.010	U	0.010	0.0040
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.010	U	0.010	0.0040
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-764500/153

Matrix: Solid
Lab File ID: 26Feb04SD-69.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 22:01

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.010	U	0.010	0.0040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.010	U	0.010	0.0040
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.010	U	0.010	0.0040
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.010	U	0.010	0.0040
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.010	U	0.010	0.0040
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.010	U	0.010	0.0040
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.010	U	0.010	0.0040
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.010	U	0.010	0.0040
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.010	U	0.010	0.0040
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.010	U	0.010	0.0040
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.010	U	0.010	0.0040
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.010	U	0.010	0.0040
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.010	U	0.010	0.0040
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.010	U	0.010	0.0040
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-764500/153

Matrix: Solid
Lab File ID: 26Feb04SD-69.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 22:01

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	94.1		8-130
2283397-79-3	13C5 PFPeA	105		35-130
2328024-54-8	13C5 PFHxA	98.5		40-130
2328024-55-9	13C4 PFHpA	109		40-130
1350614-84-4	13C8 PFOA	97.0		40-130
2283397-80-6	13C9 PFNA	101		40-130
2328024-56-0	13C6 PFDA	101		40-130
STL02580	13C7 PFUnA	99.3		40-130
STL02116	13C2 PFTeDA	103		20-130
2708218-83-9	13C3 PFBS	98.4		40-135
2708218-85-1	13C3 PFHxS	102		40-130
2265893-05-6	13C8 PFOS	95.0		40-130
STL01056	13C8 FOSA	94.8		40-130
1400690-70-1	d3-NMeFOSAA	101		40-135
1265205-97-7	d5-NEtFOSAA	101		40-150
STL02395	13C2 4:2 FTS	87.0		40-165
STL02279	13C2 6:2 FTS	99.8		40-215
STL02280	13C2 8:2 FTS	102		40-275
STL02255	13C3 HFPO-DA	104		40-130
STL02277	d7-N-MeFOSE-M	99.6		20-130
STL02278	d9-N-EtFOSE-M	105		15-130
STL02704	d5-NEtPFOSA	93.9		10-130
STL02705	d3-NMePFOSA	96.2		10-130
960315-52-0	13C2 PFDoA	96.4		40-130

Report Date: 04-Feb-2026 23:46:07 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-69.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 04-Feb-2026 22:01:48 ALS Bottle#: 1 Worklist Smp#: 153
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: Plate: 1 Rack: 1 410-0174617-153
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 23:46:02 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 23:42:03
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C3PFPrA										
166.00 > 121.00	2.099	2.114	-0.015	0.480	1418601	1.86		93.2	884	
D 6 13C4-PFBA										
216.80 > 171.90	4.361	4.338	0.023	0.998	2385931	1.88		94.1	8438	
* 7 13C3PFBA										
216.00 > 172.00	4.370	4.338	0.032		2098898	2.00			9007	
D 11 13C5 PFPeA										
268.30 > 223.00	4.978	4.955	0.023	0.915	1827642	2.10		105	6241	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.259	5.240	0.019	0.816	865600	4.08		87.0	4584	
D 17 13C5 PFHxA										
318.00 > 273.00	5.442	5.418	0.024	1.000	2415987	1.97		98.5	10152	
* 18 13C2 PFHxA										
315.10 > 270.00	5.442	5.432	0.010		5306413	5.00			20325	
D 20 13C3 PFBS										
302.10 > 79.90	5.564	5.568	-0.004	0.864	1959520	1.83		98.4	7861	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.621	5.611	0.010	1.033	1737851	2.07		104	8613	
4 TCDCA										
498.10 > 80.00	6.431	5.701	0.730	0.889	3711	NR			7.0	
8 TDCA										
498.00 > 80.00	6.379	5.811	0.568	0.882	5236	NR			10.1	
D 26 13C4 PFHpA										
367.10 > 322.00	5.853	5.845	0.008	1.076	2613822	2.17		109	9753	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.041	6.033	0.008	0.938	597976	4.75		99.8	2881	
D 35 13C8 PFOA										
421.10 > 376.00	6.230	6.233	-0.003	1.000	3179226	1.94		97.0	9651	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA 417.10 > 372.00	6.230	6.233	-0.003		8198648	5.00			12172	
* 38 18O2 PFHxS 403.00 > 83.90	6.443	6.460	-0.017		1590307	1.90			8020	
D 37 13C3 PFHxS 402.10 > 79.90	6.443	6.460	-0.017	1.000	1620439	1.93		102	6326	
D 42 13C9 PFNA 472.10 > 427.00	6.614	6.620	-0.006	1.000	2758472	2.02		101	6024	
* 41 13C5 PFNA 468.00 > 423.00	6.614	6.620	-0.006		2718966	2.00			7156	
D 44 13C2-8:2FTS 529.10 > 80.90	6.785	6.790	-0.005	1.053	599190	4.89		102	1842	
D 48 d3-NMeFOSAA 573.20 > 419.00	6.934	6.940	-0.006	0.958	1596219	5.07		101	3199	
D 50 13C6 PFDA 519.10 > 474.10	6.996	7.015	-0.019	1.000	3073888	2.02		101	9205	
* 52 13C2 PFDA 515.10 > 470.10	6.996	7.015	-0.019		2986385	2.00			9775	
D 54 d5-NEtFOSAA 589.20 > 419.00	7.103	7.124	-0.021	0.982	1411947	5.07		101	7074	
D 56 13C8 PFOS 507.10 > 79.90	7.236	7.267	-0.031	1.000	1427519	1.82		95.0	2810	
* 57 13C4 PFOS 502.80 > 79.90	7.236	7.267	-0.031		1622664	1.92			8912	
D 59 13C7 PFUnA 570.00 > 525.10	7.381	7.409	-0.028	1.055	3635455	1.99		99.3	7199	
D 81 PFDoA 615.10 > 570.00	7.757	7.801	-0.044	1.109	3130794	1.93		96.4	2388	
D 65 13C8 FOSA 506.10 > 77.80	7.962	7.957	0.005	1.100	1835671	1.90		94.8	9143	
D 69 13C2 PFTeDA 715.20 > 670.00	8.441	8.494	-0.053	1.207	1847576	2.06		103	3736	
D 71 d7-N-Me-FOSE 623.20 > 58.90	8.728	8.723	0.005	1.206	706521	4.98		99.6	652	
D 74 d3-NMePFOSA 515.00 > 219.00	8.815	8.809	0.006	1.218	423435	1.92		96.2	3006	
D 76 d9-N-EtFOSE 639.20 > 58.90	8.903	8.897	0.005	1.230	760987	5.27		105	1244	
D 78 d5-NEtPFOSA 531.10 > 219.00	8.972	8.967	0.005	1.240	504334	1.88		93.9	2571	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00565	Amount Added:	50.00	Units: uL
1633_125_SS_00201	Amount Added:	5.00	Units: uL

Report Date: 04-Feb-2026 23:46:07 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-69.d

Injection Date: 04-Feb-2026 22:01:48 Instrument ID: 30575

Lims ID: CCB

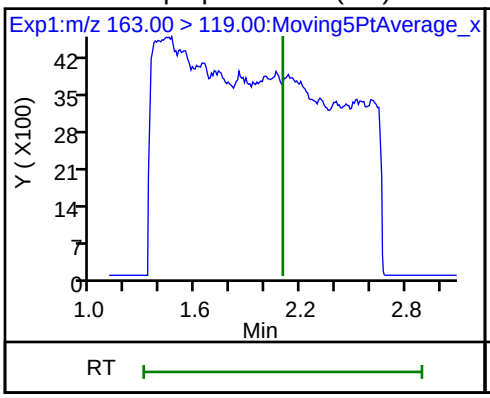
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 1 Worklist Smp#: 153

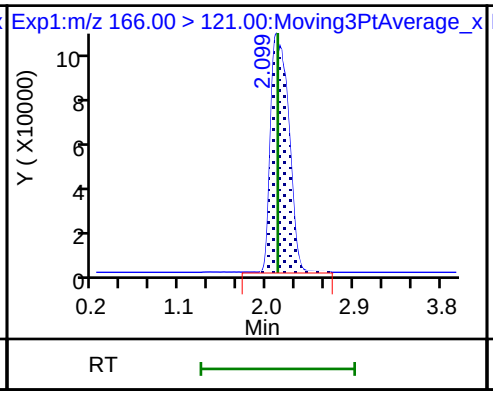
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

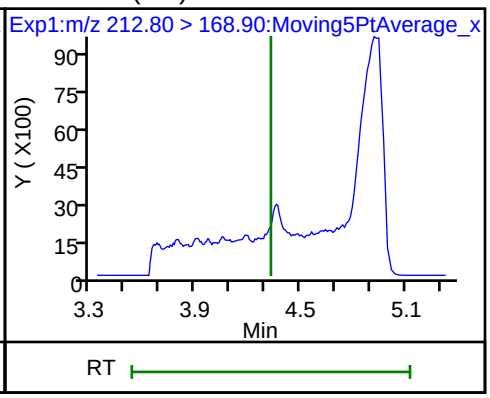
1 Perfluoropropionic acid (ND)



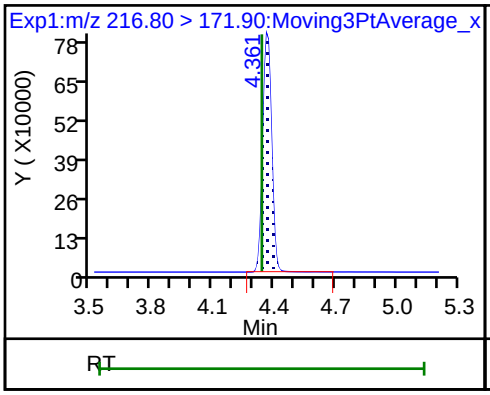
D 2 13C3PFPrA



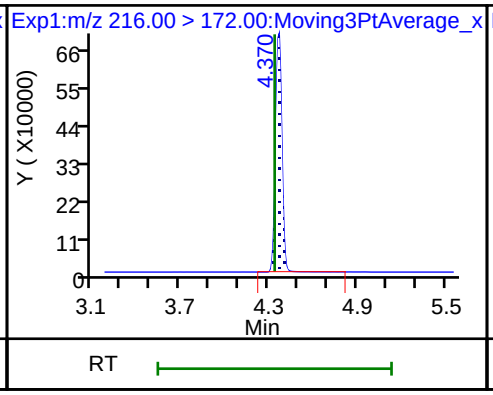
5 PFBA (ND)



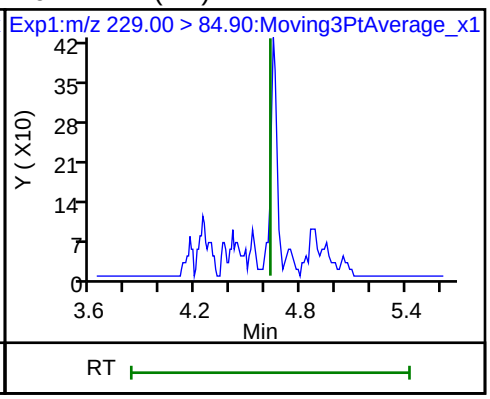
D 6 13C4-PFBA



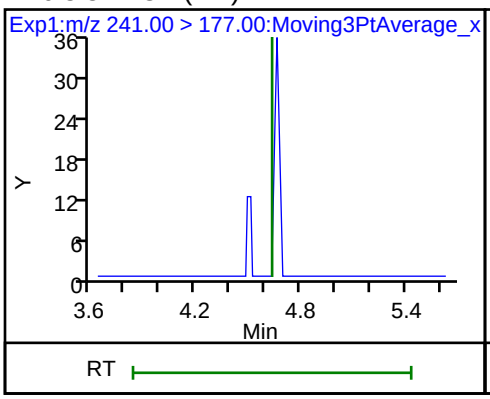
* 7 13C3PFBA



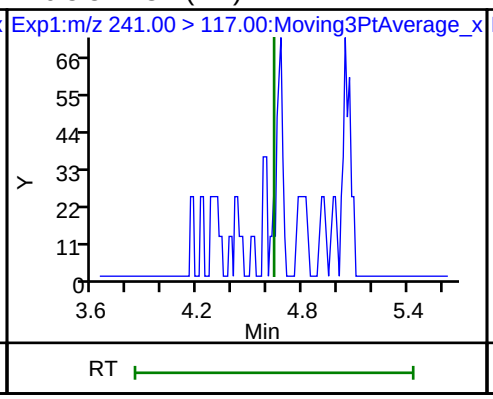
9 PFMPA (ND)



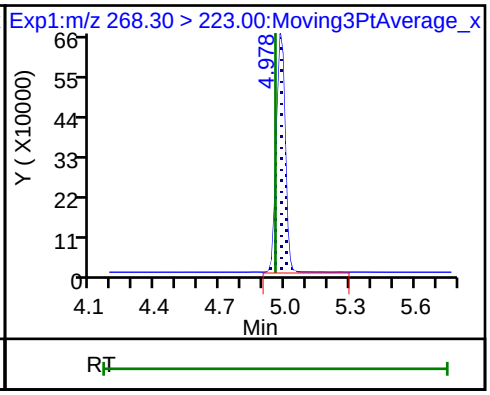
10 3:3 FTCA (ND)



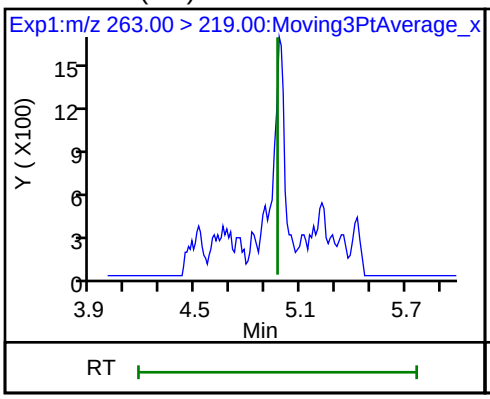
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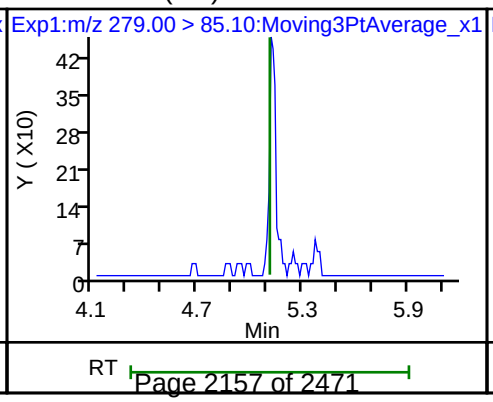
D 11 13C5 PFPeA



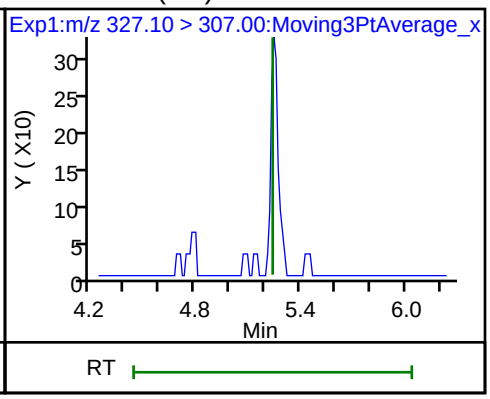
12 PFPA (ND)



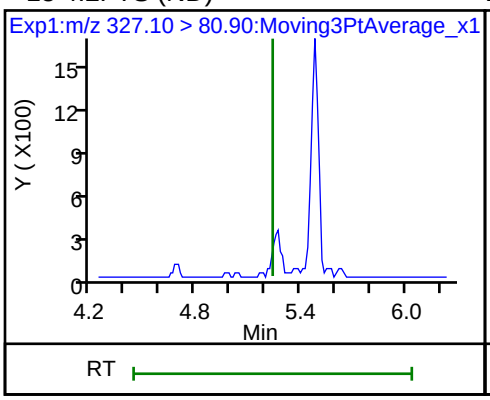
13 PFMBA (ND)



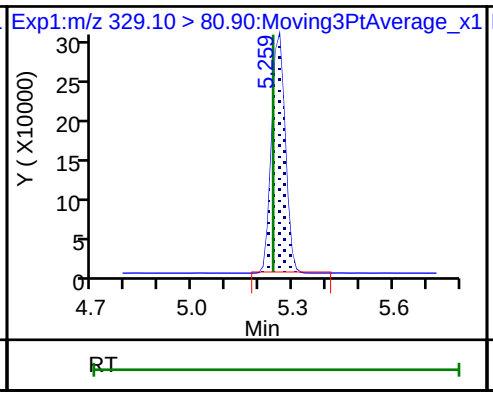
15 4:2FTS (ND)



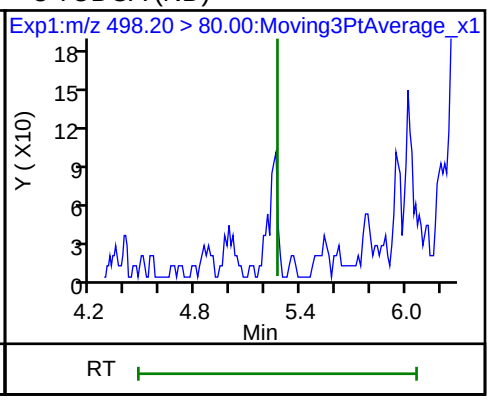
15 4:2FTS (ND)



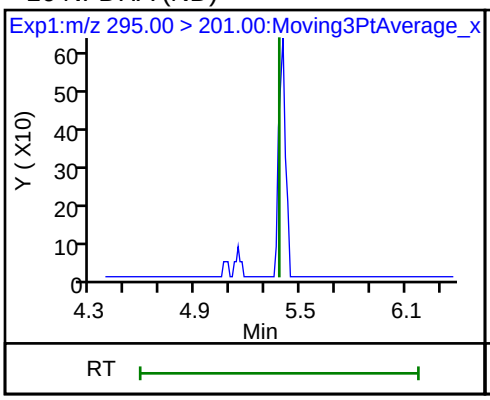
D 14 13C2-4:2FTS



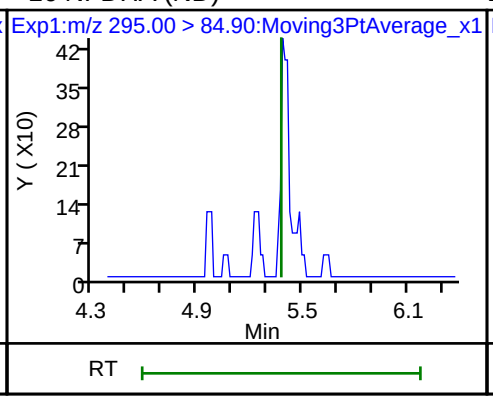
3 TUDCA (ND)



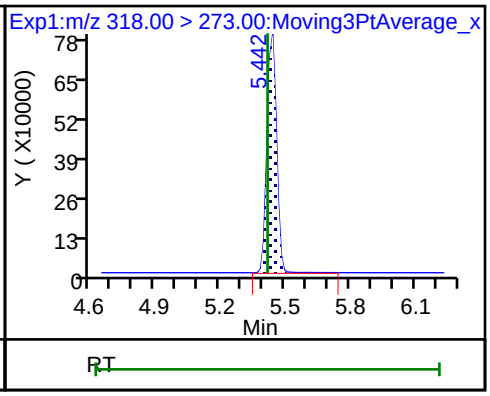
16 NFDHA (ND)



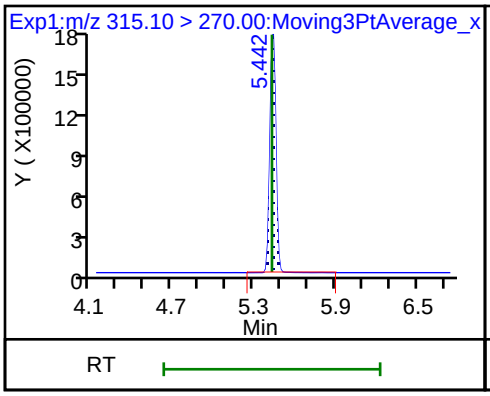
16 NFDHA (ND)



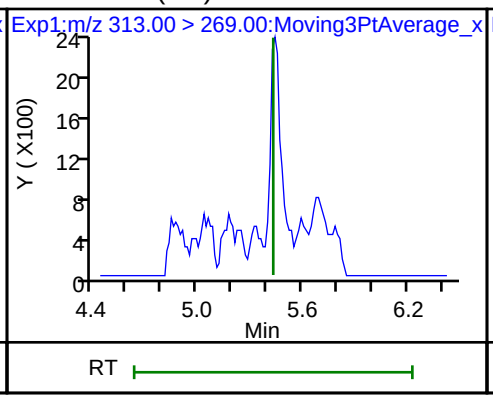
D 17 13C5 PFHxA



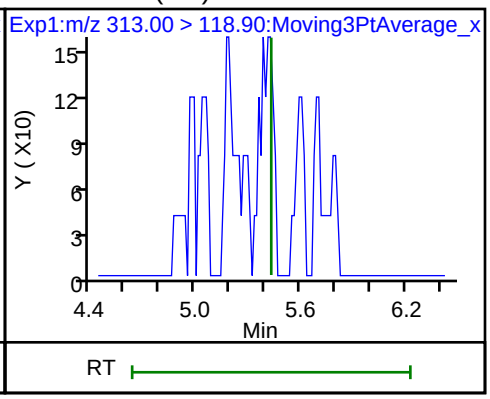
* 18 13C2 PFHxA



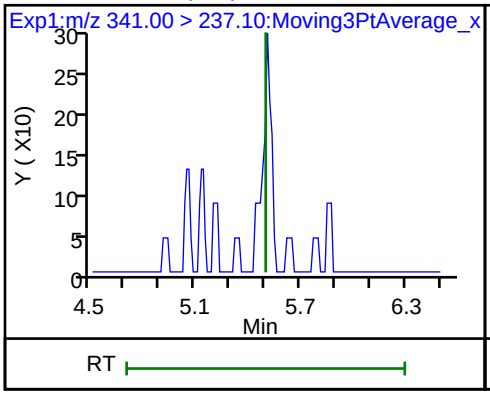
19 PFHxA (ND)



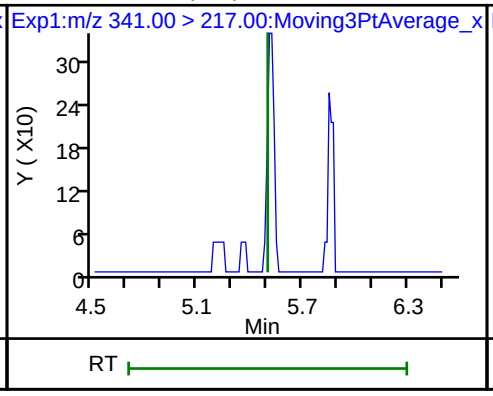
19 PFHxA (ND)



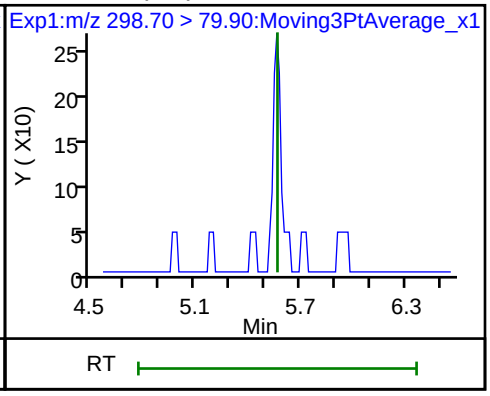
22 5:3 FTCA (ND)



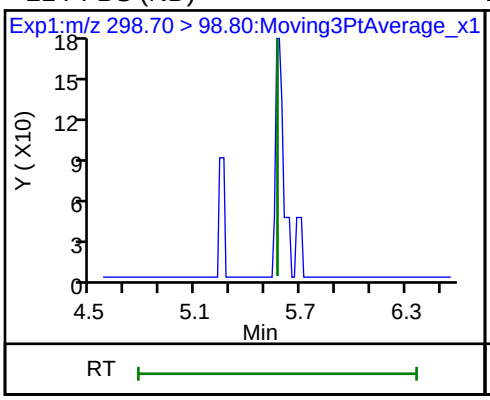
22 5:3 FTCA (ND)



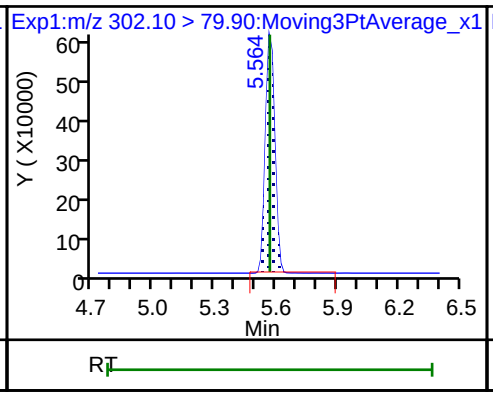
21 PFBS (ND)



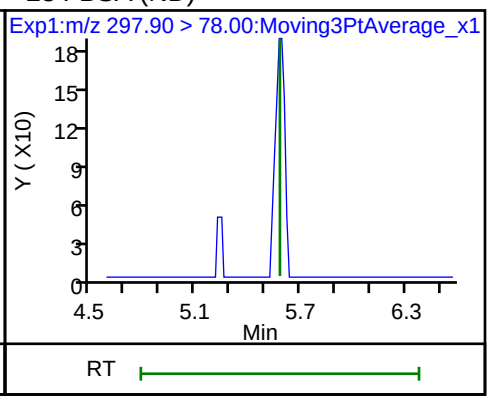
21 PFBS (ND)



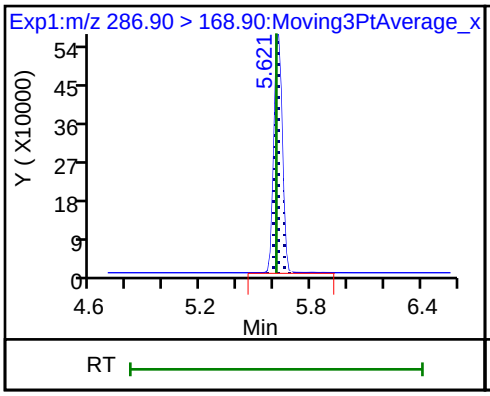
D 20 13C3 PFBS



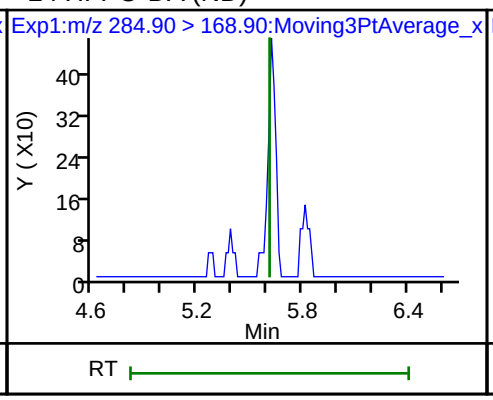
28 FBSA (ND)



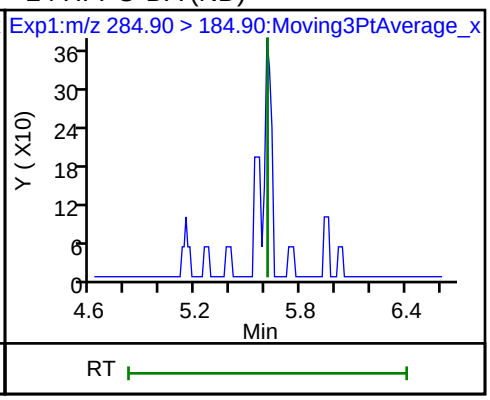
D 23 13C3 HFPO-DA



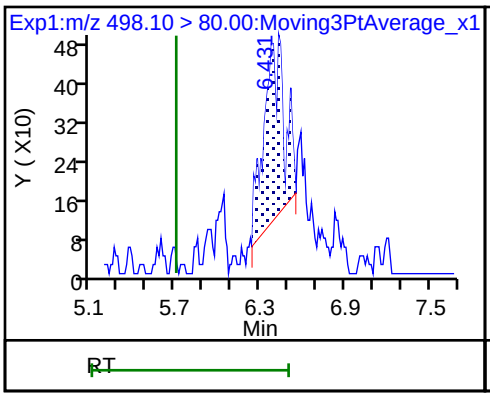
24 HFPO-DA (ND)



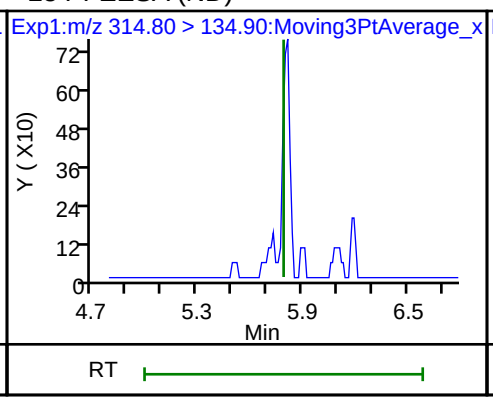
24 HFPO-DA (ND)



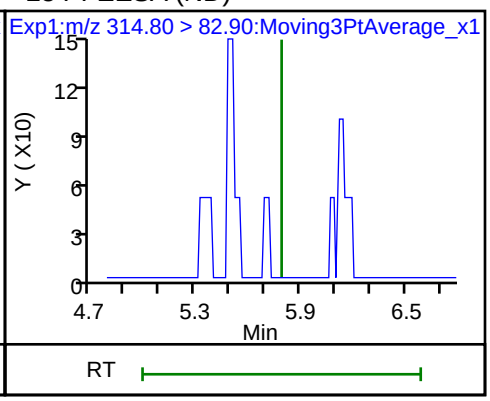
4 TCDCA



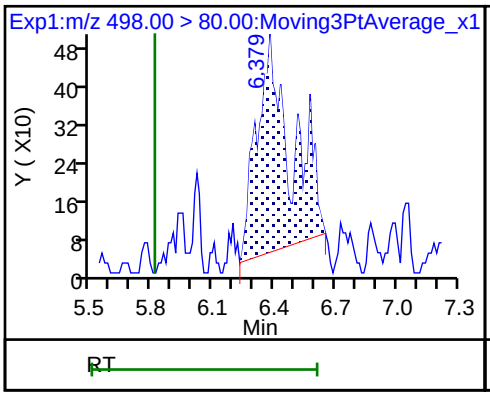
25 PFEESA (ND)



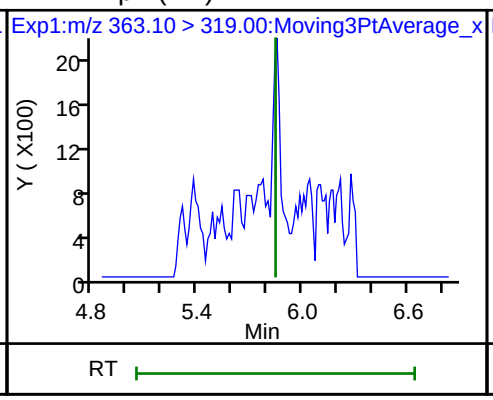
25 PFEESA (ND)



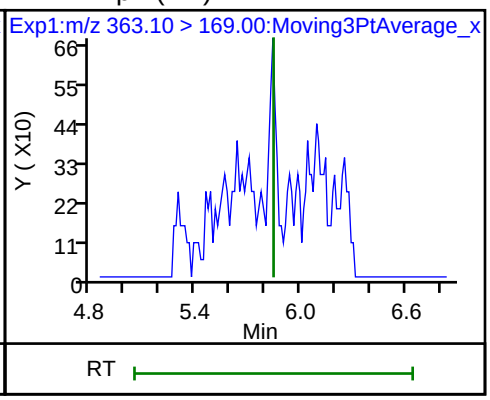
8 TDCA



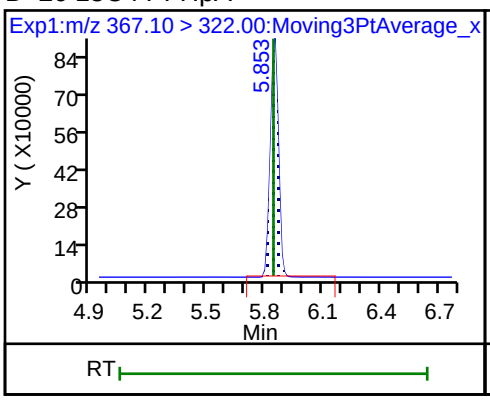
27 PFHpA (ND)



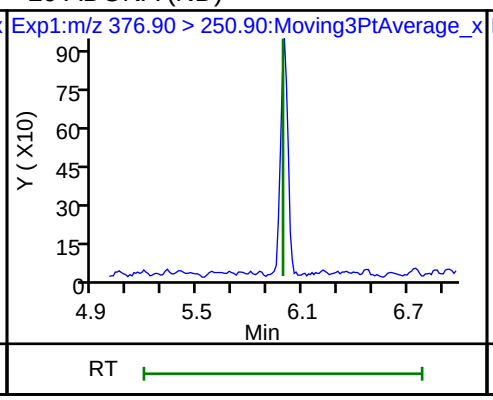
27 PFHpA (ND)



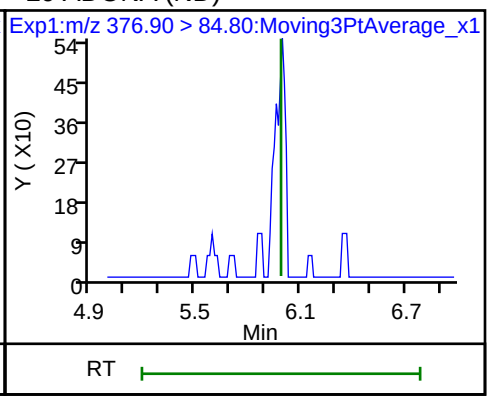
D 26 13C4 PFHpA



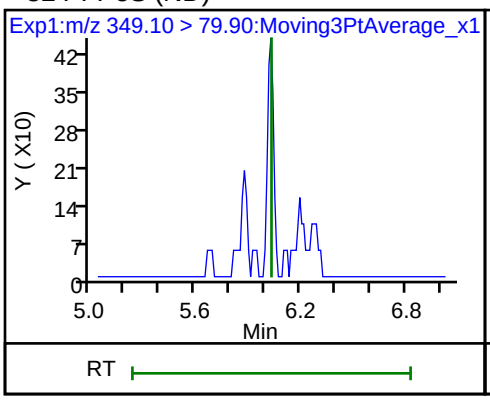
29 ADONA (ND)



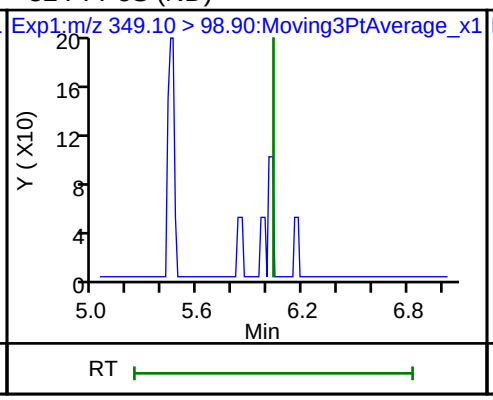
29 ADONA (ND)



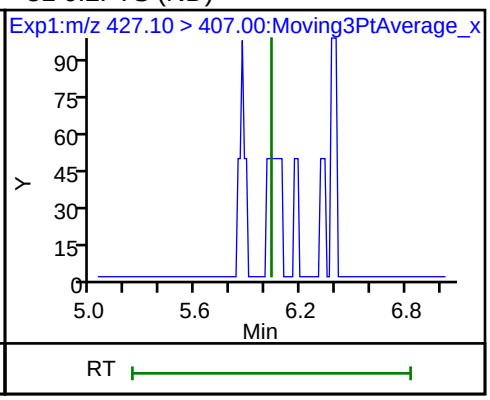
32 PFPeS (ND)



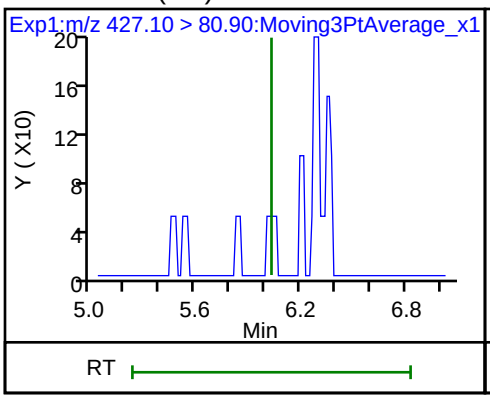
32 PFPeS (ND)



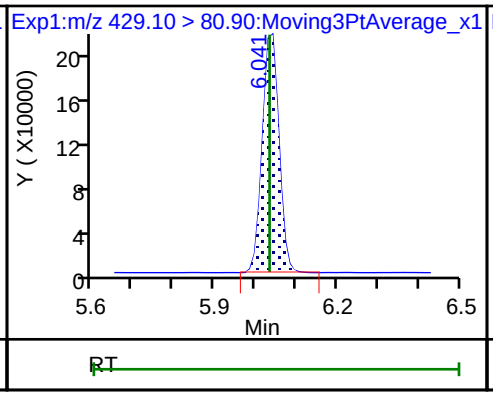
31 6:2FTS (ND)



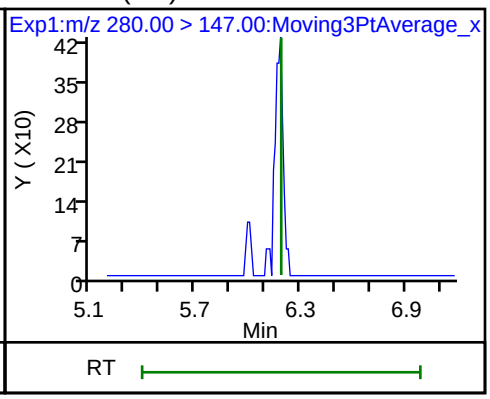
31 6:2FTS (ND)



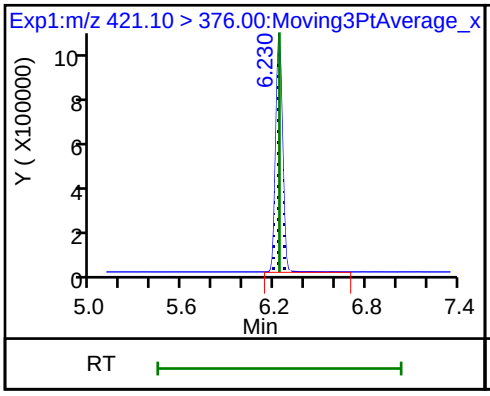
D 30 13C2-6:2FTS



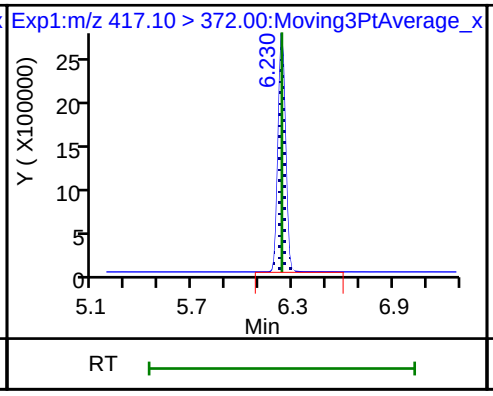
33 BTS (ND)



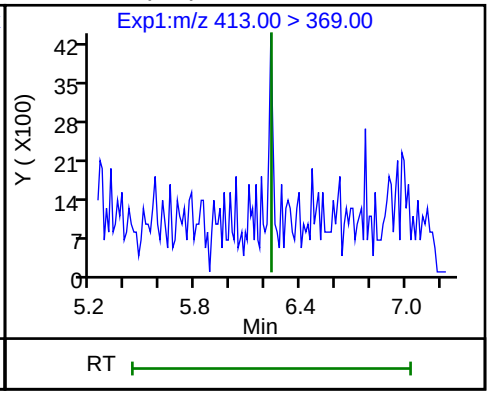
D 35 13C8 PFOA



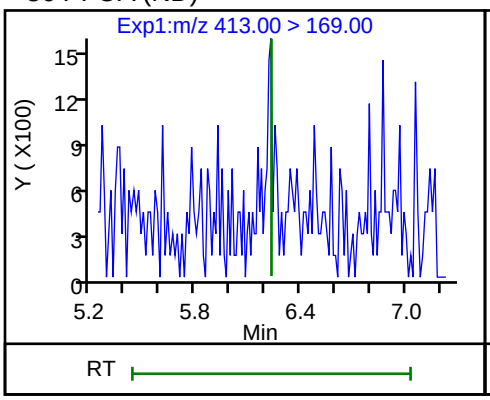
* 34 13C4 PFOA



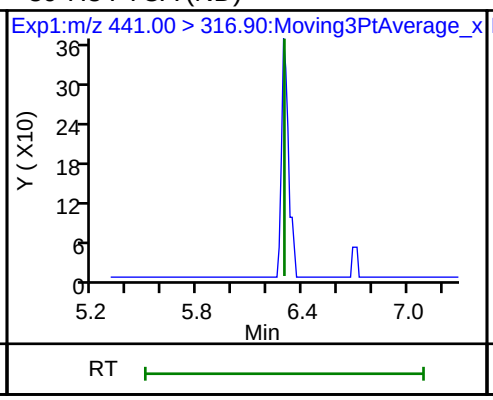
36 PFOA (ND)



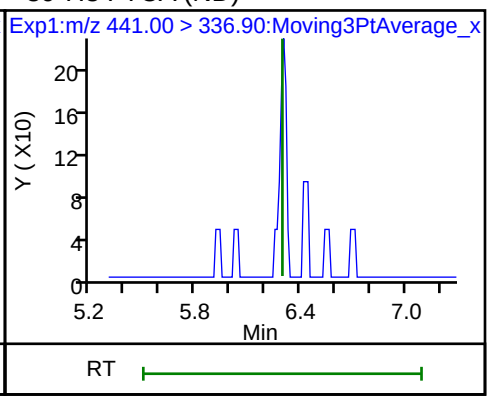
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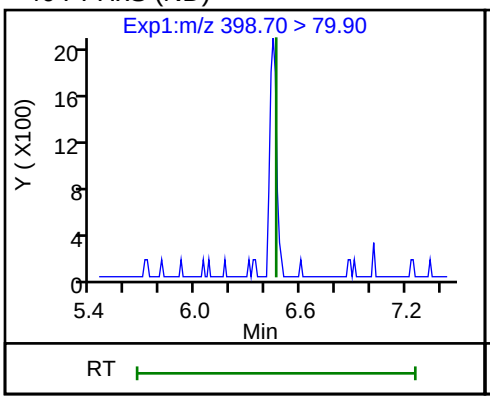
39 7:3 FTCA (ND)



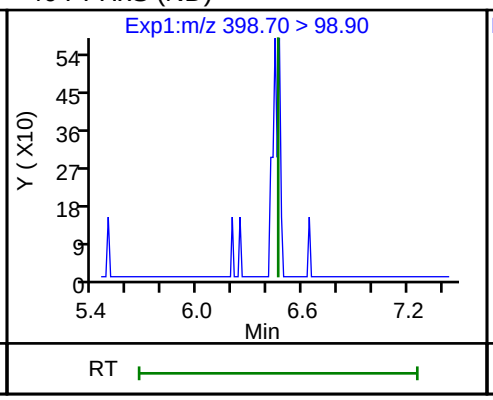
39 7:3 FTCA (ND)



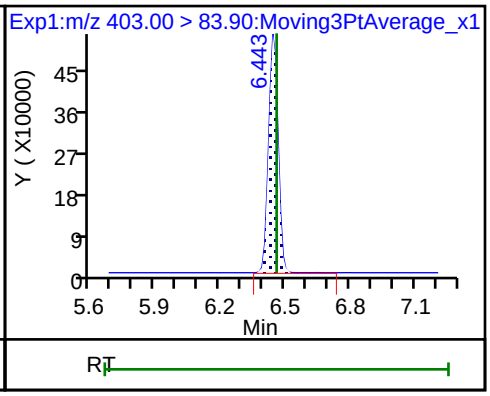
40 PFHxS (ND)



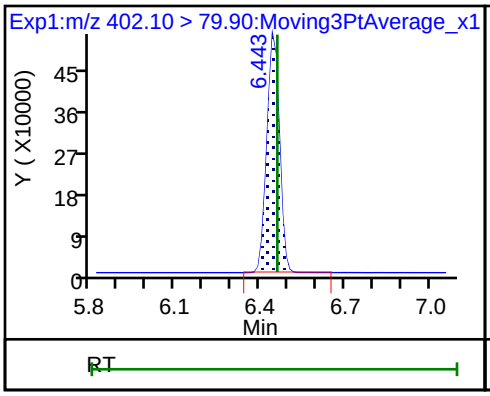
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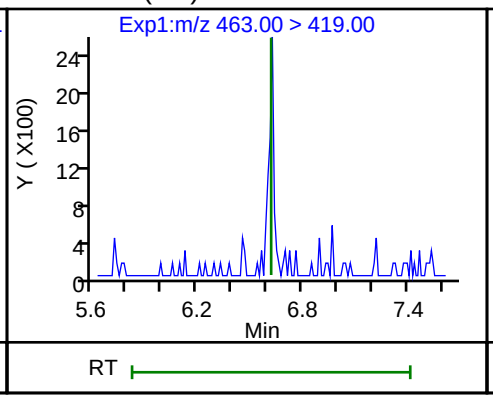
* 38 18O2 PFHxS



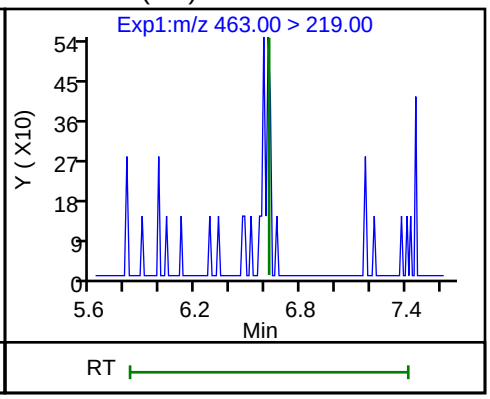
D 37 13C3 PFHxS



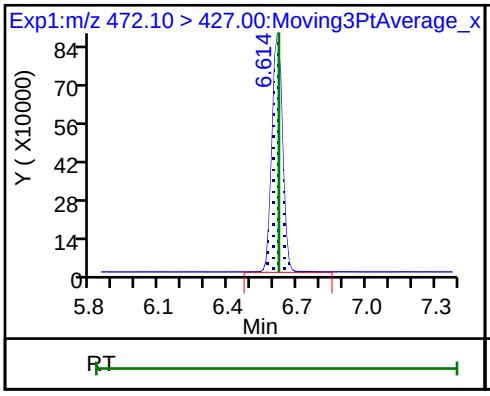
43 PFNA (ND)



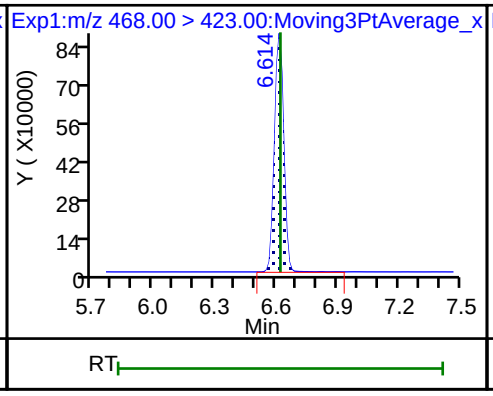
43 PFNA (ND)



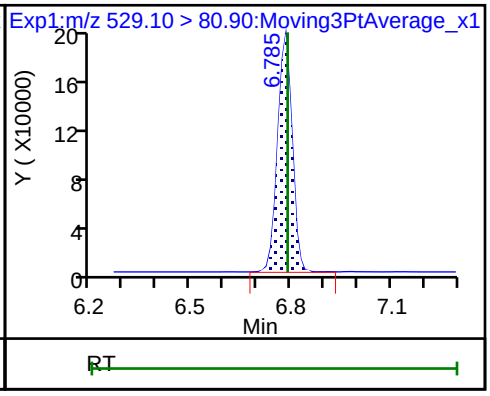
D 42 13C9 PFNA



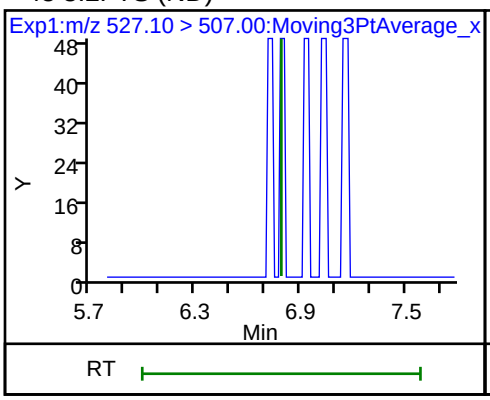
* 41 13C5 PFNA



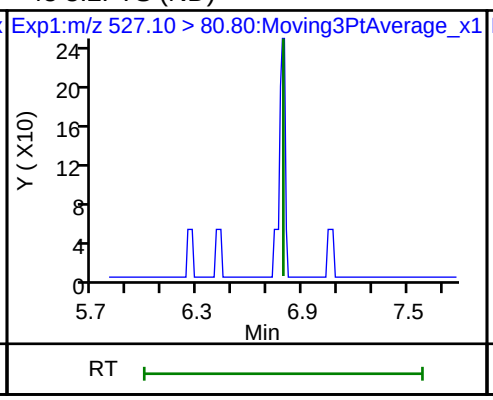
D 44 13C2-8:2FTS



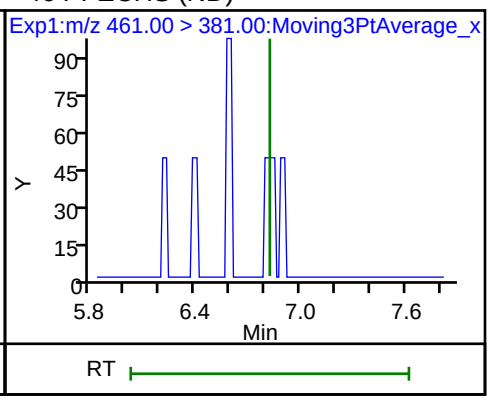
45 8:2FTS (ND)



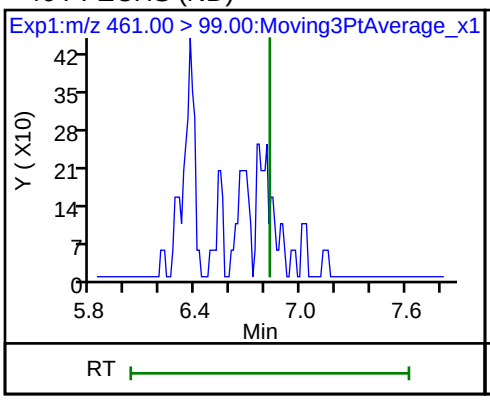
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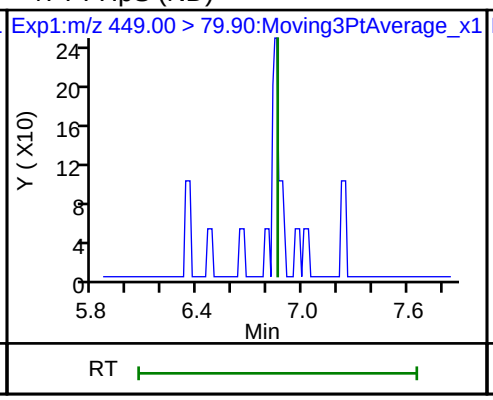
46 PFECHS (ND)



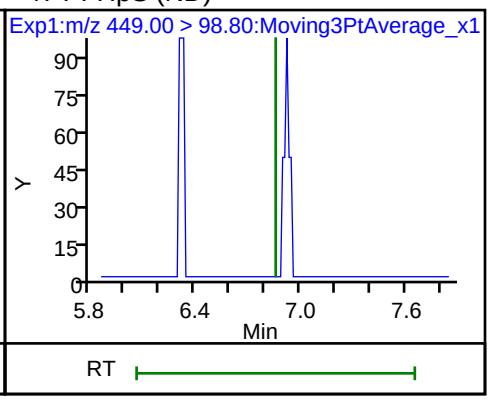
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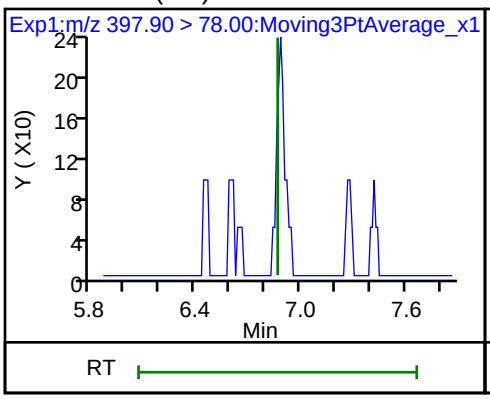
47 PFHpS (ND)



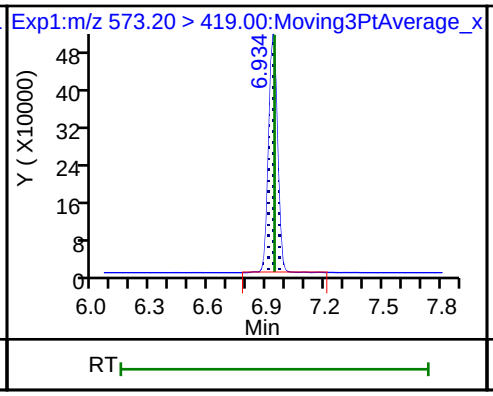
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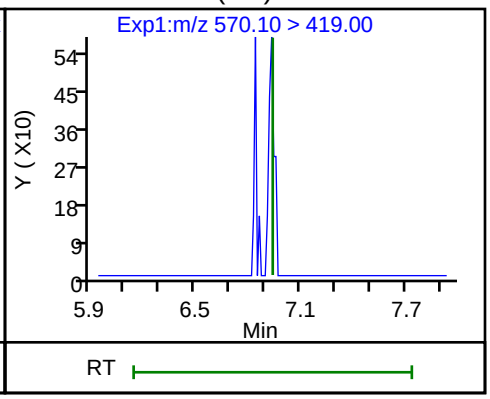
53 FHxSA (ND)



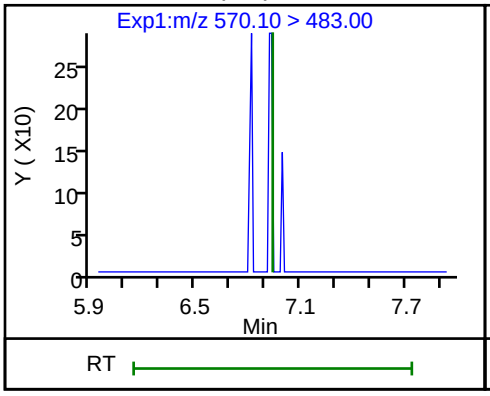
D 48 d3-NMeFOSAA



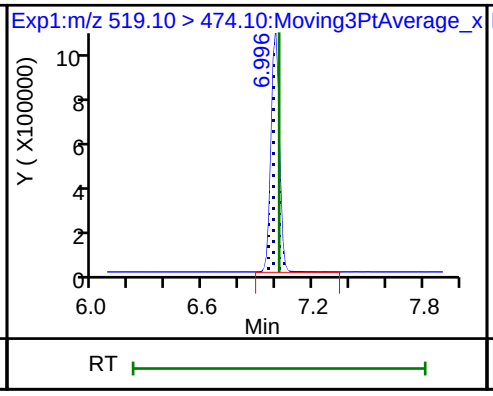
49 NMeFOSAA (ND)



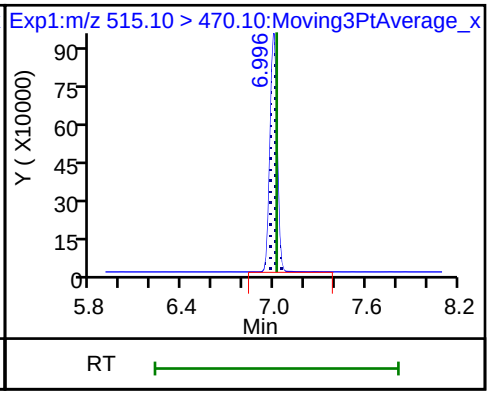
49 NMeFOSAA (ND)



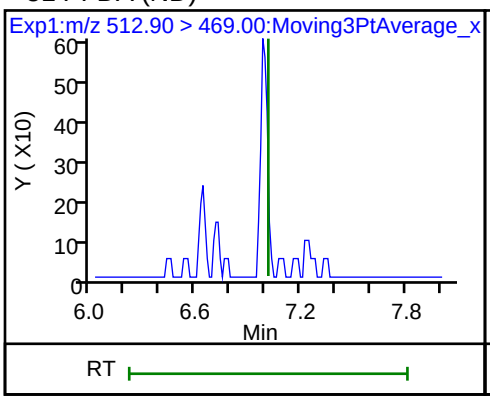
D 50 13C6 PFDA



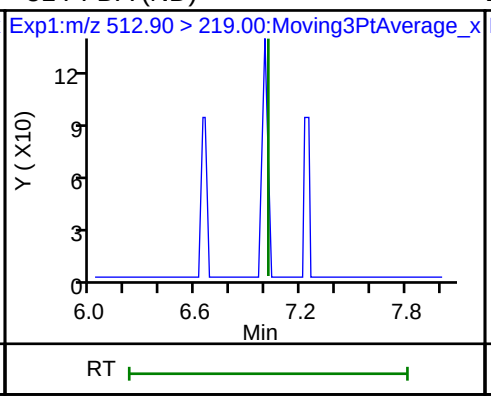
* 52 13C2 PFDA



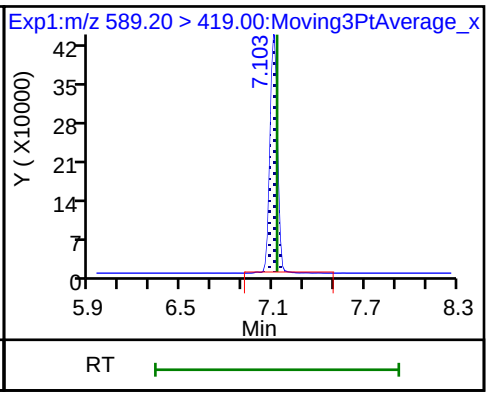
51 PFDA (ND)



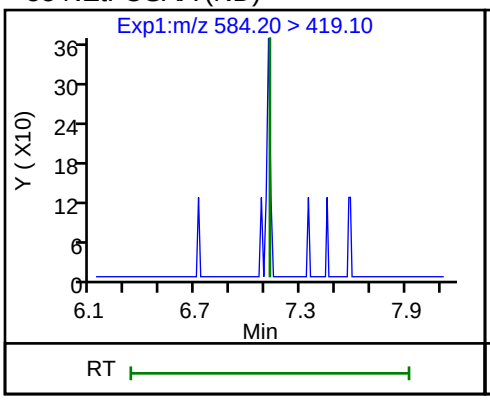
51 PFDA (ND)



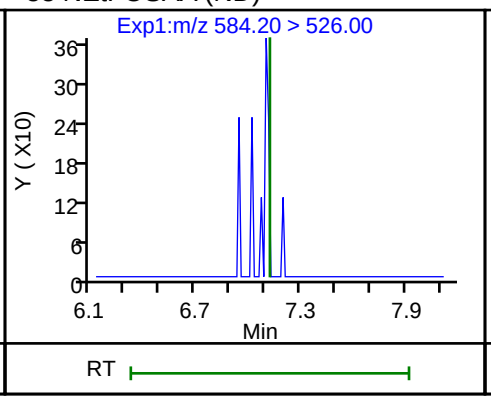
D 54 d5-NEtFOSAA



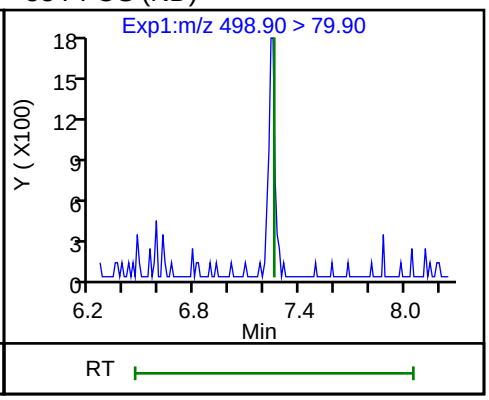
55 NEtFOSAA (ND)



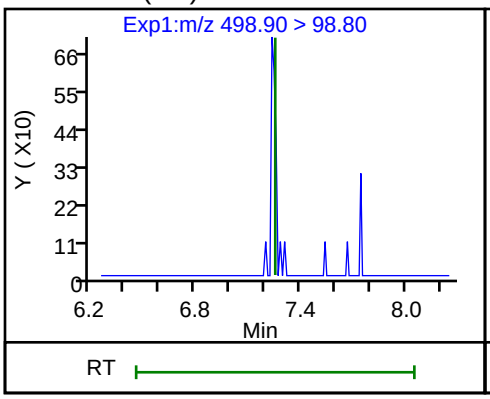
55 NEtFOSAA (ND)



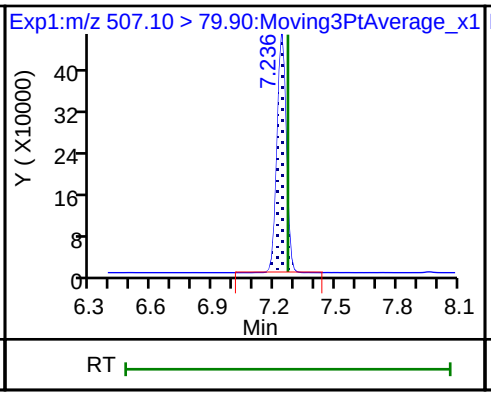
58 PFOS (ND)



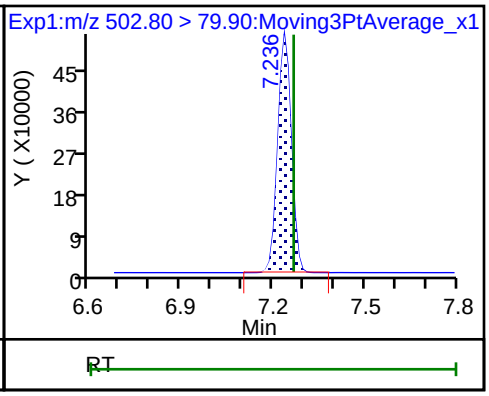
58 PFOS (ND)



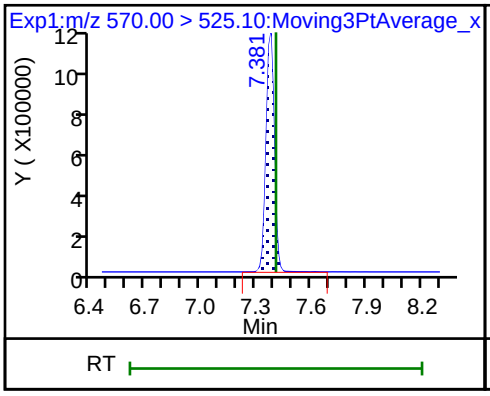
D 56 13C8 PFOS



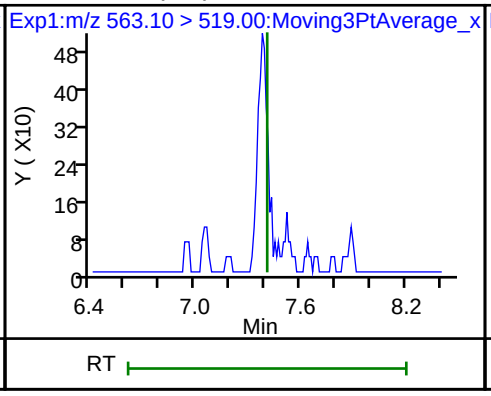
* 57 13C4 PFOS



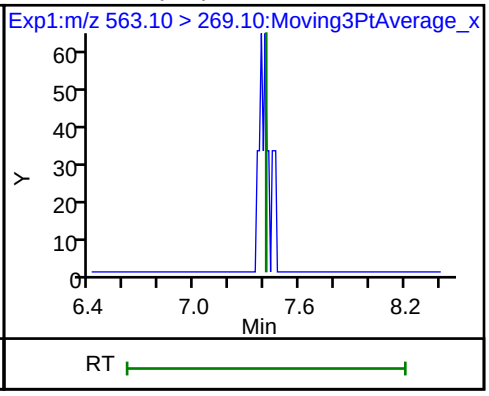
D 59 13C7 PFUnA



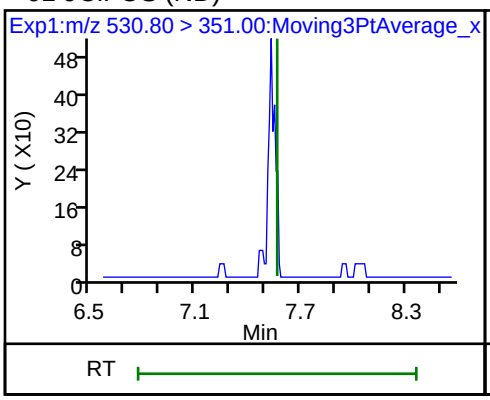
60 PFUnA (ND)



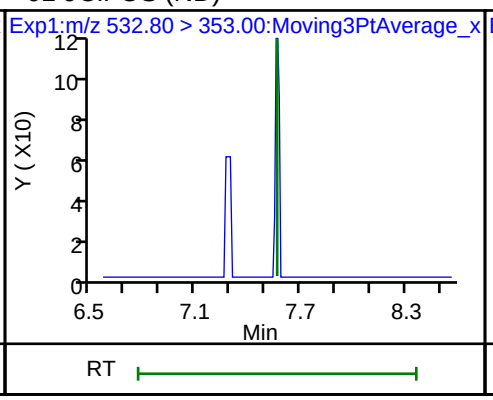
60 PFUnA (ND)



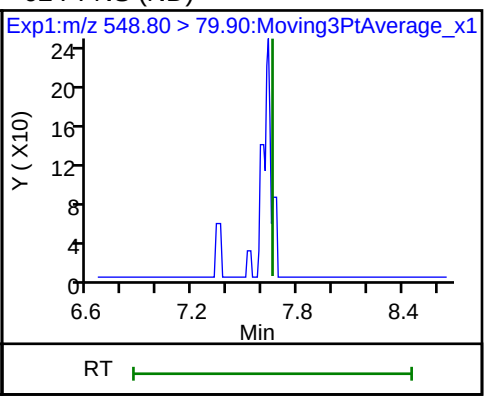
61 9ClFOS (ND)



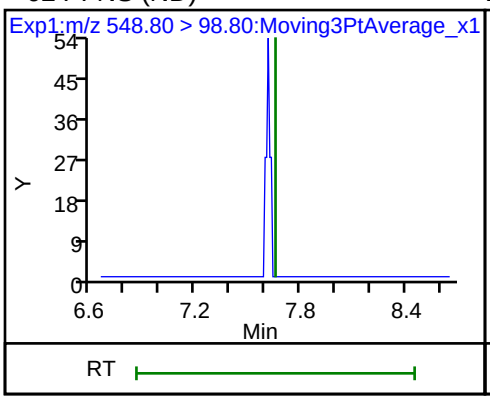
61 9ClFOS (ND)



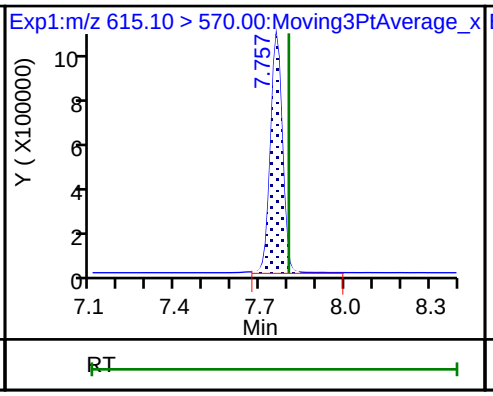
62 PFNS (ND)



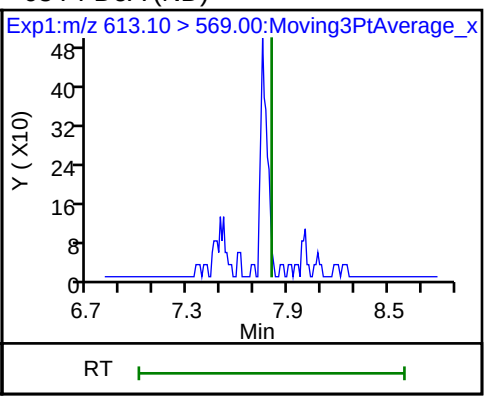
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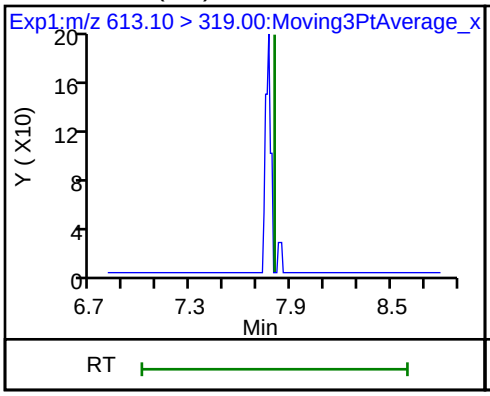
D 81 PFDoA



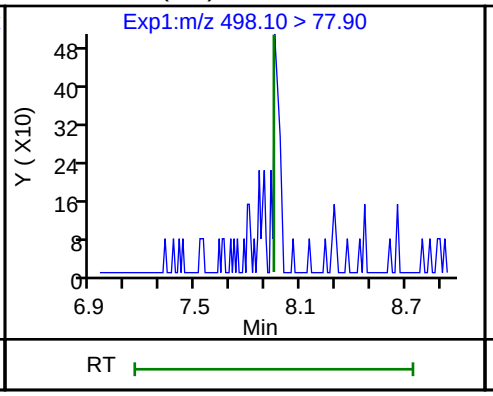
63 PFDoA (ND)



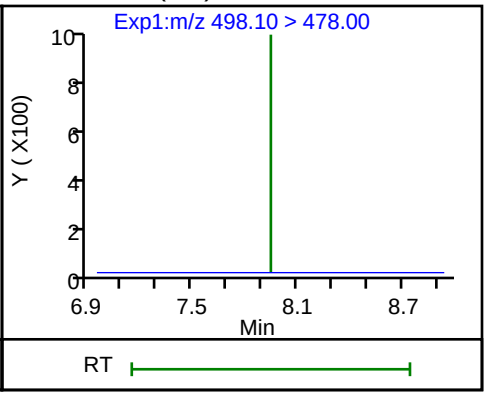
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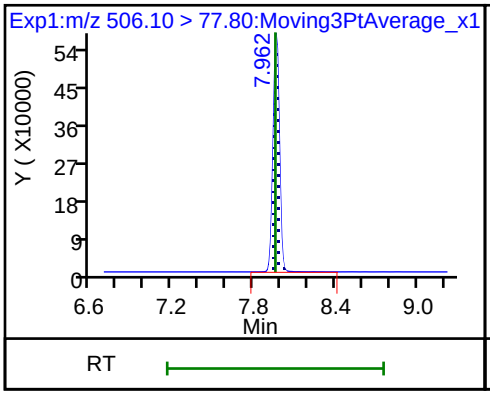
64 PFOSA (ND)



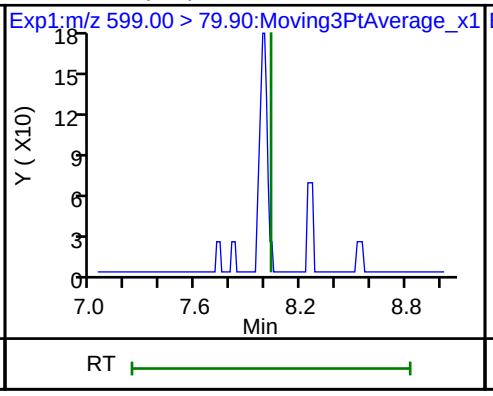
64 PFOSA (ND)



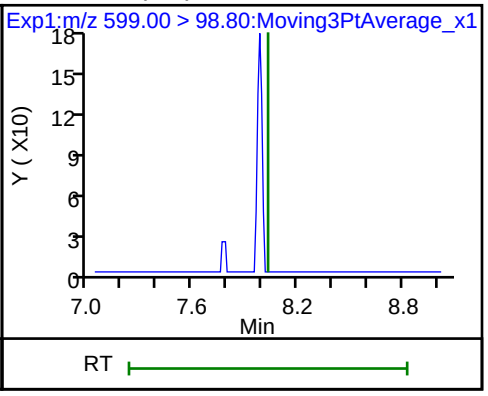
D 65 13C8 FOSA



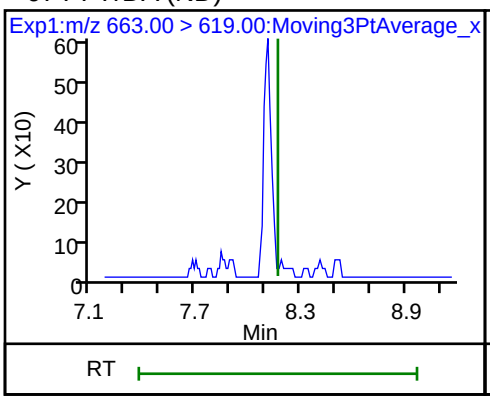
66 PFDS (ND)



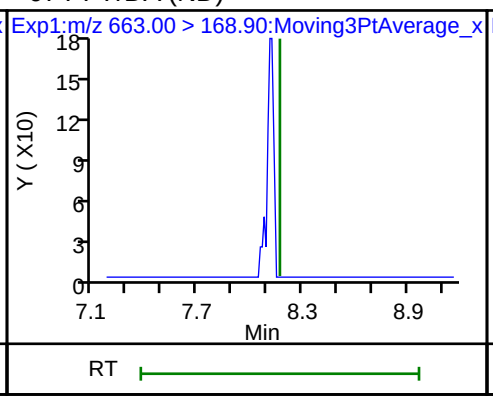
66 PFDS (ND)



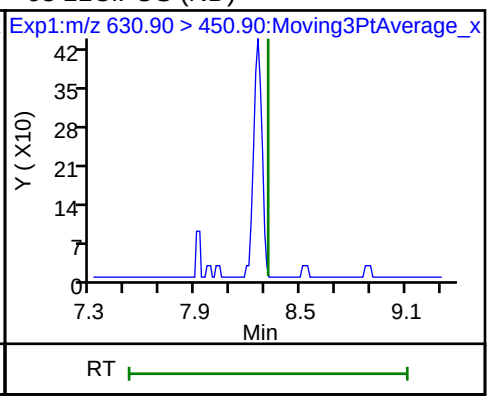
67 PFTrDA (ND)



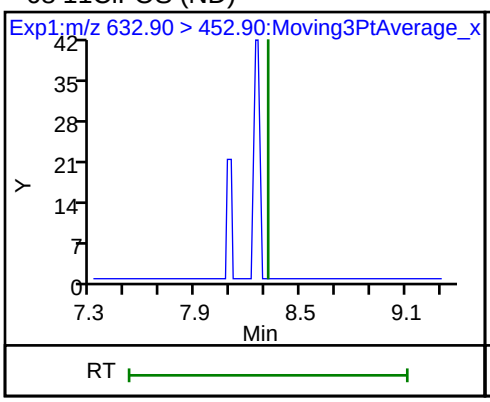
67 PFTrDA (ND)



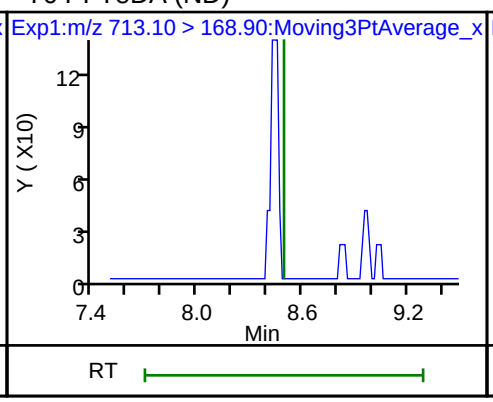
68 11ClFOS (ND)



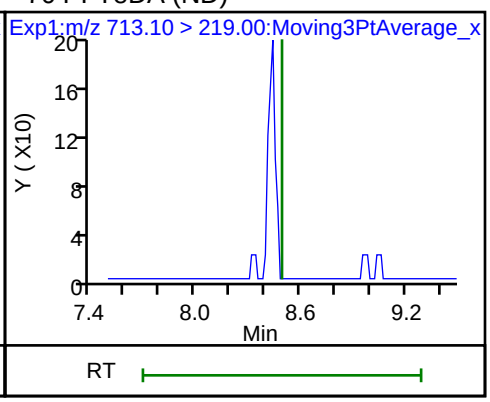
68 11ClFOS (ND)



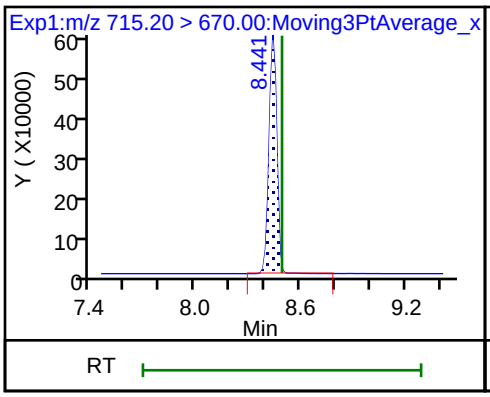
70 PFTeDA (ND)



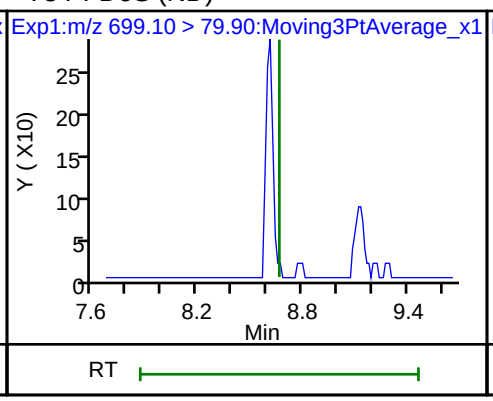
70 PFTeDA (ND)



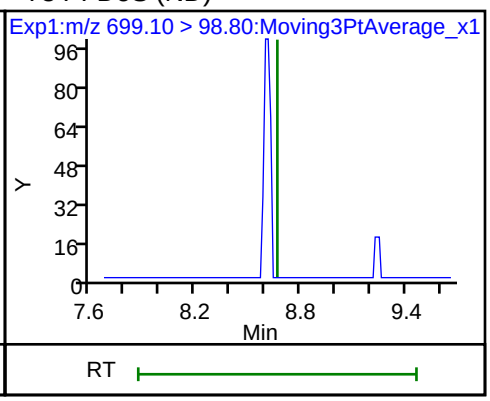
D 69 13C2 PFTeDA



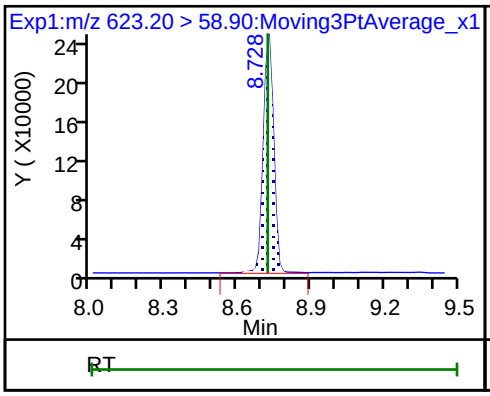
73 PFDoS (ND)



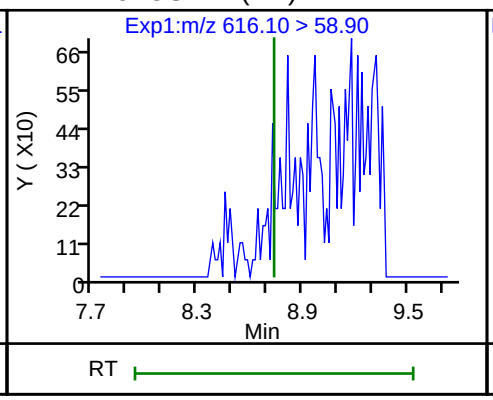
73 PFDoS (ND)



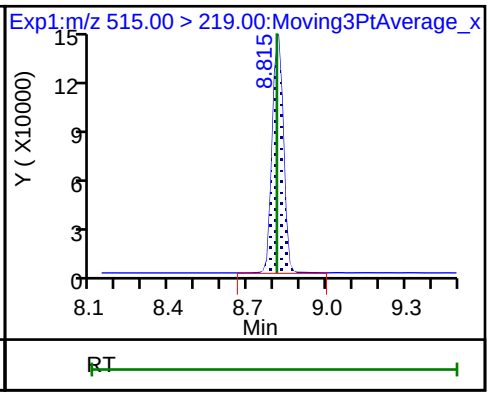
D 71 d7-N-Me-FOSE



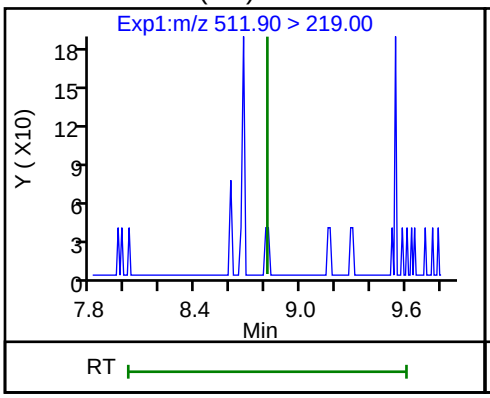
72 N-MeFOSE-M (ND)



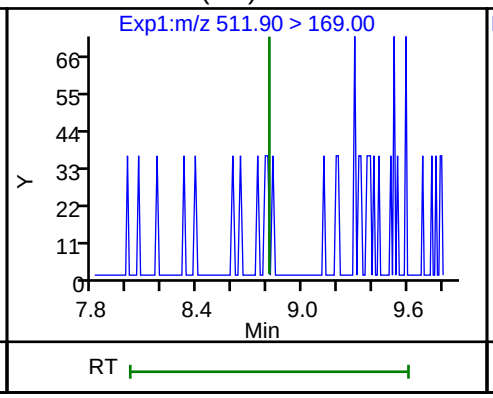
D 74 d3-NMePFOSA



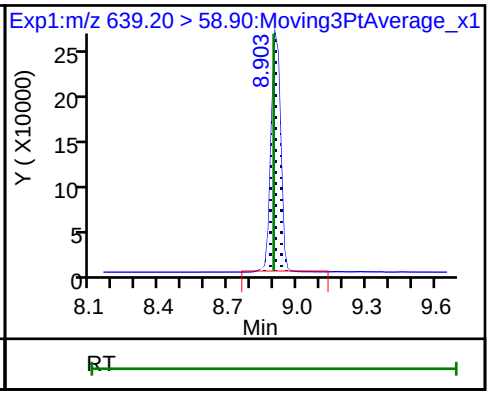
75 NMeFOSA (ND)



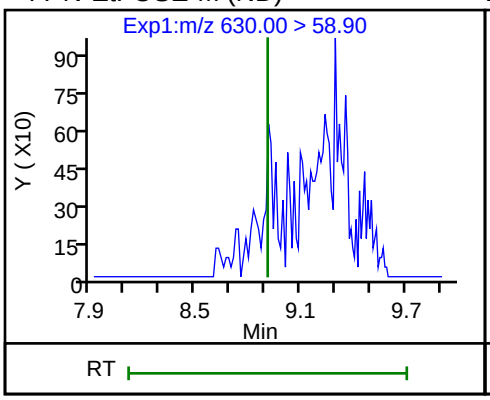
75 NMeFOSA (ND)



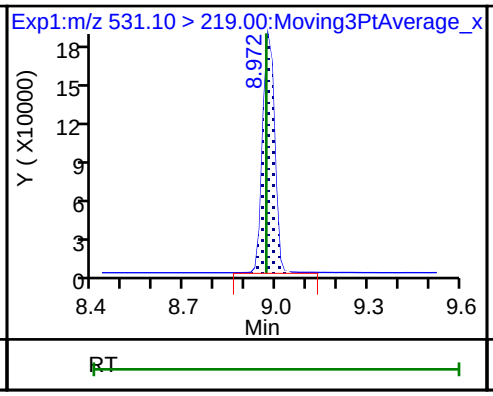
D 76 d9-N-EtFOSE



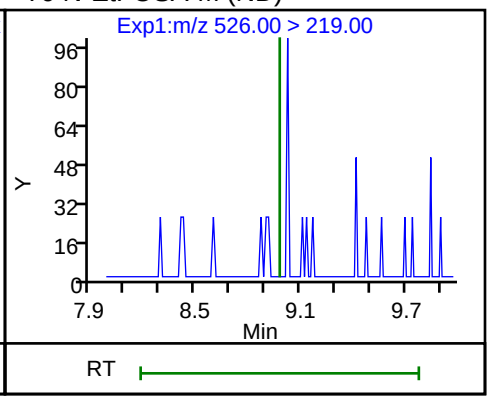
77 N-EtFOSE-M (ND)



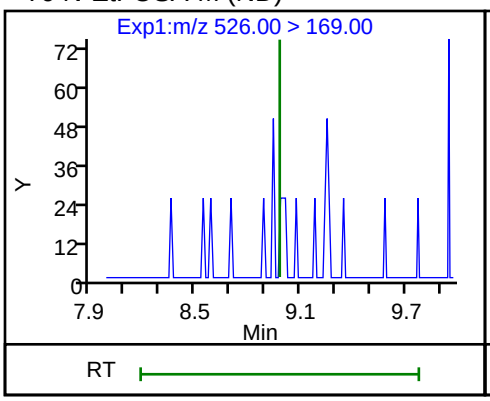
D 78 d5-NEtPFOSA



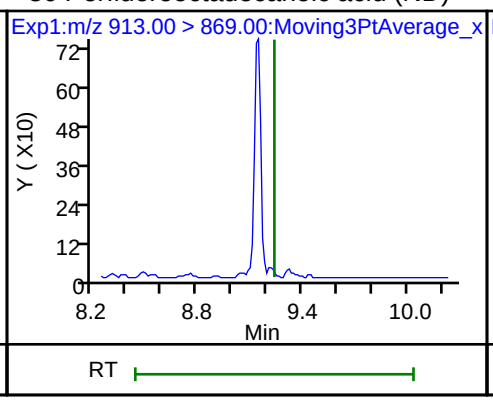
79 N-EtFOSA-M (ND)



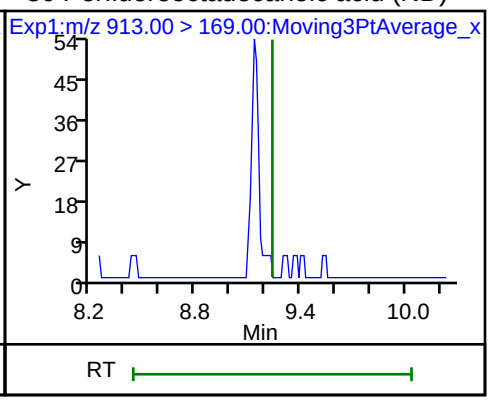
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-764500/155

Matrix: Solid
Lab File ID: 26Feb04SD-72.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 22:42

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.010	U	0.010	0.0040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.010	U	0.010	0.0040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.010	U	0.010	0.0040
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.010	U	0.010	0.0040
335-67-1	Perfluorooctanoic acid (PFOA)	0.010	U	0.010	0.0040
375-95-1	Perfluorononanoic acid (PFNA)	0.010	U	0.010	0.0040
335-76-2	Perfluorodecanoic acid (PFDA)	0.010	U	0.010	0.0040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.010	U	0.010	0.0040
307-55-1	Perfluorododecanoic acid (PFDoA)	0.010	U	0.010	0.0040
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.010	U	0.010	0.0040
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.010	U	0.010	0.0040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.010	U	0.010	0.0040
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.010	U	0.010	0.0040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.010	U	0.010	0.0040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.010	U	0.010	0.0040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.010	U	0.010	0.0040
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.010	U	0.010	0.0040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.010	U	0.010	0.0040
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.010	U	0.010	0.0040
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.010	U	0.010	0.0040
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.010	U	0.010	0.0040
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.010	U	0.010	0.0040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.010	U	0.010	0.0040
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.010	U	0.010	0.0040
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-764500/155

Matrix: Solid
Lab File ID: 26Feb04SD-72.d

Analysis Method: 1633A
Date Collected:

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Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 22:42

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.010	U	0.010	0.0040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.010	U	0.010	0.0040
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.010	U	0.010	0.0040
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.010	U	0.010	0.0040
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.010	U	0.010	0.0040
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.010	U	0.010	0.0040
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.010	U	0.010	0.0040
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.010	U	0.010	0.0040
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.010	U	0.010	0.0040
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.010	U	0.010	0.0040
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.010	U	0.010	0.0040
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.010	U	0.010	0.0040
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.010	U	0.010	0.0040
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.010	U	0.010	0.0040
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-764500/155

Matrix: Solid
Lab File ID: 26Feb04SD-72.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 22:42

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	95.3		8-130
2283397-79-3	13C5 PFPeA	96.8		35-130
2328024-54-8	13C5 PFHxA	91.1		40-130
2328024-55-9	13C4 PFHpA	96.6		40-130
1350614-84-4	13C8 PFOA	99.2		40-130
2283397-80-6	13C9 PFNA	104		40-130
2328024-56-0	13C6 PFDA	91.8		40-130
STL02580	13C7 PFUnA	97.8		40-130
STL02116	13C2 PFTeDA	101		20-130
2708218-83-9	13C3 PFBS	99.4		40-135
2708218-85-1	13C3 PFHxS	103		40-130
2265893-05-6	13C8 PFOS	101		40-130
STL01056	13C8 FOSA	96.5		40-130
1400690-70-1	d3-NMeFOSAA	107		40-135
1265205-97-7	d5-NEtFOSAA	106		40-150
STL02395	13C2 4:2 FTS	90.1		40-165
STL02279	13C2 6:2 FTS	110		40-215
STL02280	13C2 8:2 FTS	106		40-275
STL02255	13C3 HFPO-DA	98.9		40-130
STL02277	d7-N-MeFOSE-M	101		20-130
STL02278	d9-N-EtFOSE-M	109		15-130
STL02704	d5-NEtPFOSA	98.5		10-130
STL02705	d3-NMePFOSA	95.0		10-130
960315-52-0	13C2 PFDoA	93.0		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-72.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 04-Feb-2026 22:42:35 ALS Bottle#: 1 Worklist Smp#: 155
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: Plate: 1 Rack: 1 410-0174617-155
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 23:46:16 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 23:44:26
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C3PFPrA										
166.00 > 121.00	2.099	2.114	-0.015	0.480	1411938	1.85		92.6	887	
D 6 13C4-PFBA										
216.80 > 171.90	4.371	4.338	0.033	1.000	2421859	1.91		95.3	12082	
* 7 13C3PFBA										
216.00 > 172.00	4.371	4.338	0.033		2102740	2.00			5738	
D 11 13C5 PFPeA										
268.30 > 223.00	4.982	4.955	0.027	0.915	1844281	1.94		96.8	6436	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.265	5.240	0.025	0.815	892110	4.22		90.1	4490	
D 17 13C5 PFHxA										
318.00 > 273.00	5.446	5.418	0.028	1.000	2445539	1.82		91.1	5973	
* 18 13C2 PFHxA										
315.10 > 270.00	5.446	5.432	0.014		5807866	5.00			14929	
D 20 13C3 PFBS										
302.10 > 79.90	5.583	5.568	0.015	0.864	1969603	1.85		99.4	4497	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.626	5.611	0.015	1.033	1816703	1.98		98.9	3803	
8 TDCA										
498.00 > 80.00	6.421	5.811	0.610	0.887	4702	NR			10.8	
D 26 13C4 PFHpA										
367.10 > 322.00	5.857	5.845	0.011	1.075	2541408	1.93		96.6	4690	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.044	6.033	0.011	0.936	654751	5.22		110	4282	
D 35 13C8 PFOA										
421.10 > 376.00	6.245	6.233	0.012	1.000	3252276	1.98		99.2	8317	
* 34 13C4 PFOA										
417.10 > 372.00	6.245	6.233	0.012		3200004	5.00			10795	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 38 18O2 PFHxS 403.00 > 83.90	6.459	6.460	-0.001		1583155	1.90			6954	
D 37 13C3 PFHxS 402.10 > 79.90	6.459	6.460	-0.001	1.000	1633816	1.95		103	9981	
* 41 13C5 PFNA 468.00 > 423.00	6.619	6.620	-0.001		2920556	2.00			8711	
D 42 13C9 PFNA 472.10 > 427.00	6.619	6.620	-0.001	1.000	3063293	2.09		104	8180	
D 44 13C2-8:2FTS 529.10 > 80.90	6.789	6.790	-0.001	1.051	619451	5.08		106	3732	
D 48 d3-NMeFOSAA 573.20 > 419.00	6.939	6.940	-0.001	0.957	1653870	5.33		107	2876	
D 50 13C6 PFDA 519.10 > 474.10	7.001	7.015	-0.014	1.000	3003445	1.84		91.8	6133	
* 52 13C2 PFDA 515.10 > 470.10	7.001	7.015	-0.014		3208491	2.00			7769	
D 54 d5-NEtFOSAA 589.20 > 419.00	7.109	7.124	-0.015	0.980	1448512	5.29		106	2748	
D 56 13C8 PFOS 507.10 > 79.90	7.242	7.267	-0.025	0.998	1497800	1.94		101	2513	
* 57 13C4 PFOS 502.80 > 79.90	7.254	7.267	-0.013		1597253	1.92			11642	
D 59 13C7 PFUnA 570.00 > 525.10	7.397	7.409	-0.012	1.057	3849153	1.96		97.8	8387	
D 81 PFDoA 615.10 > 570.00	7.772	7.801	-0.029	1.110	3242922	1.86		93.0	5087	
D 65 13C8 FOSA 506.10 > 77.80	7.978	7.957	0.021	1.100	1838536	1.93		96.5	6992	
D 69 13C2 PFTeDA 715.20 > 670.00	8.464	8.494	-0.030	1.209	1942953	2.02		101	4812	
D 71 d7-N-Me-FOSE 623.20 > 58.90	8.736	8.723	0.013	1.204	703374	5.04		101	599	
D 74 d3-NMePFOSA 515.00 > 219.00	8.823	8.809	0.014	1.216	411742	1.90		95.0	2873	
D 76 d9-N-EtFOSE 639.20 > 58.90	8.924	8.897	0.027	1.230	772826	5.44		109	1188	
D 78 d5-NEtPFOSA 531.10 > 219.00	8.980	8.967	0.013	1.238	520703	1.97		98.5	3462	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00565	Amount Added:	50.00	Units: uL
1633_125_SS_00201	Amount Added:	5.00	Units: uL

Report Date: 04-Feb-2026 23:46:21 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-72.d

Injection Date: 04-Feb-2026 22:42:35 Instrument ID: 30575

Lims ID: CCB

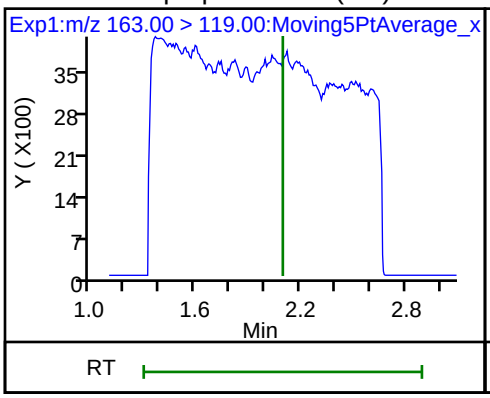
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 1 Worklist Smp#: 155

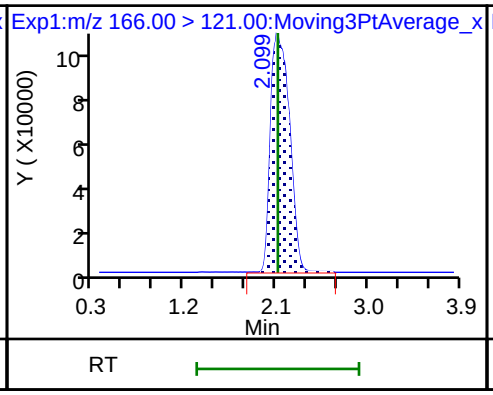
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

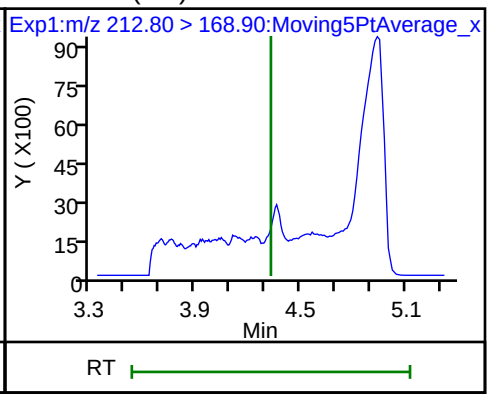
1 Perfluoropropionic acid (ND)



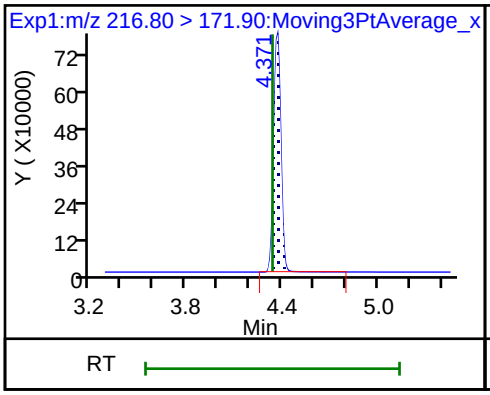
D 2 13C3PFPrA



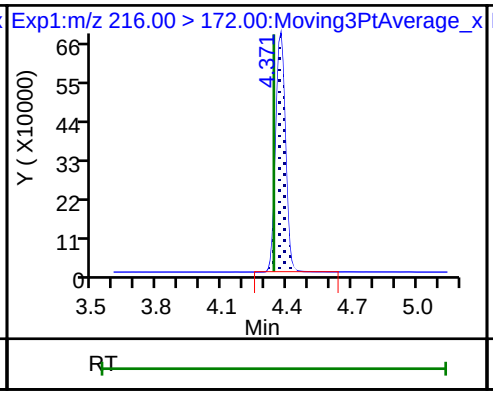
5 PFBA (ND)



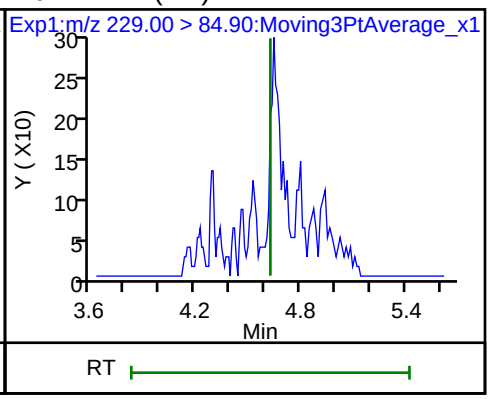
D 6 13C4-PFBA



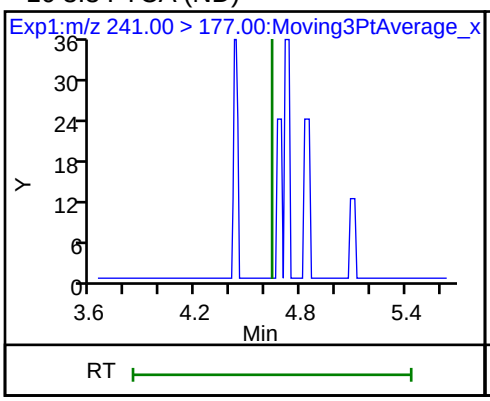
* 7 13C3PFBA



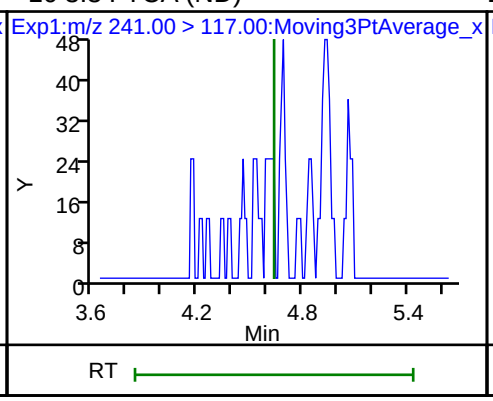
9 PFMPA (ND)



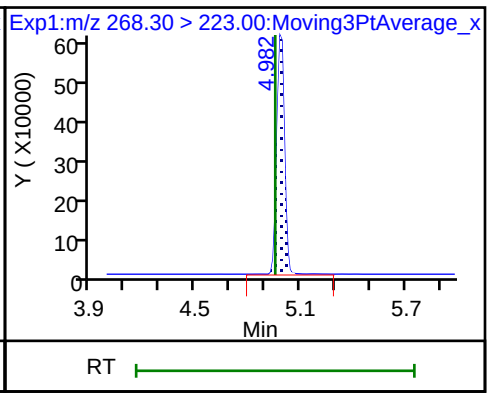
10 3:3 FTCA (ND)



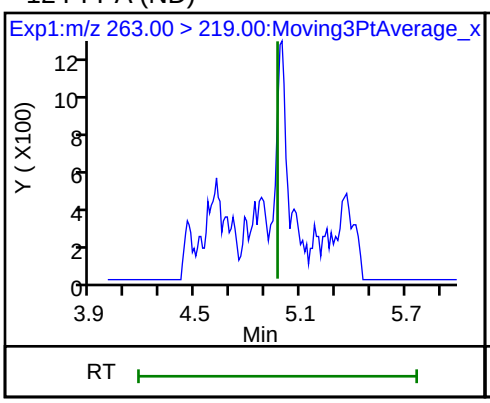
10 3:3 FTCA (ND)



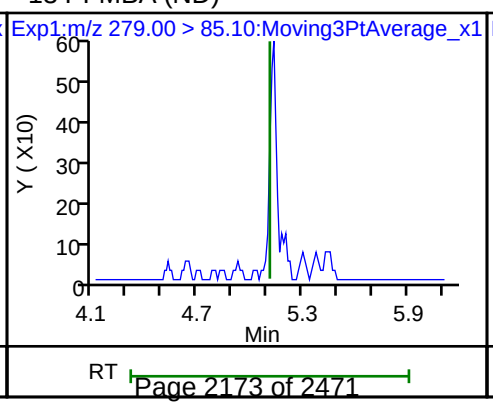
D 11 13C5 PFPeA



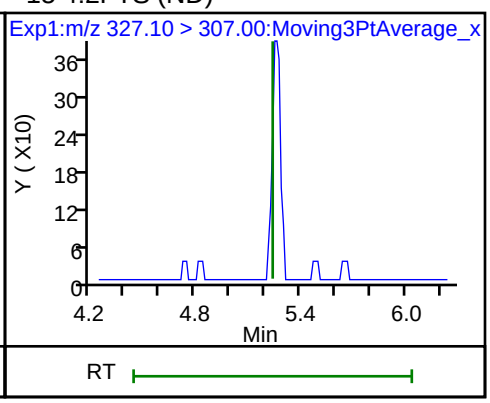
12 PFPA (ND)



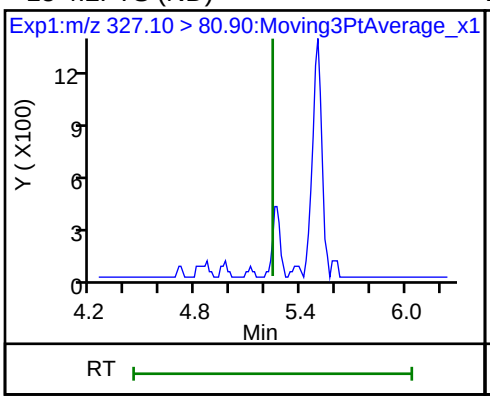
13 PFMBA (ND)



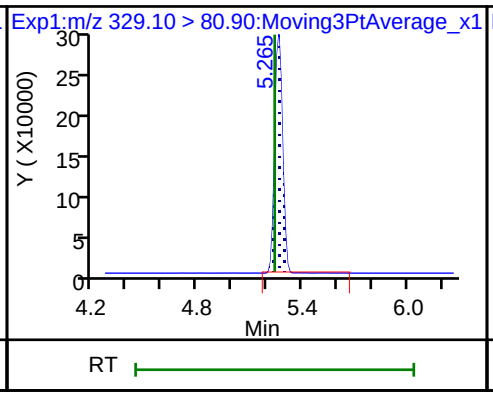
15 4:2FTS (ND)



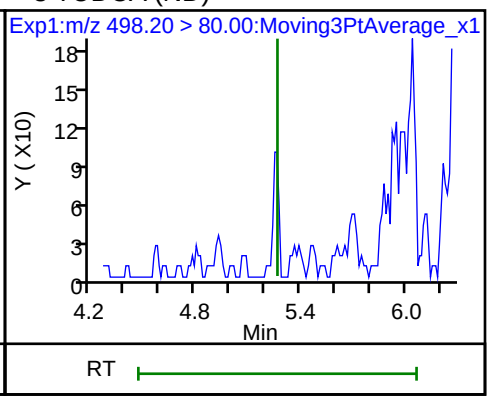
15 4:2FTS (ND)



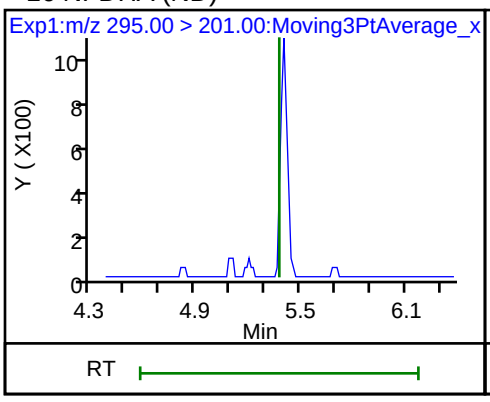
D 14 13C2-4:2FTS



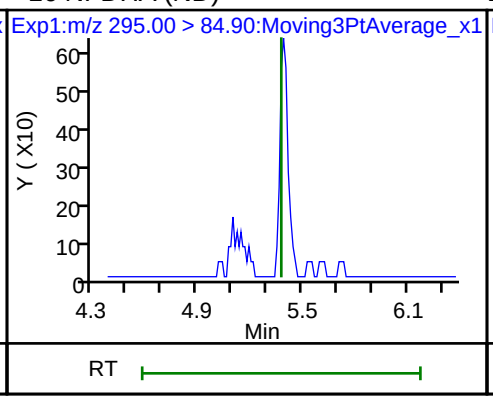
3 TUDCA (ND)



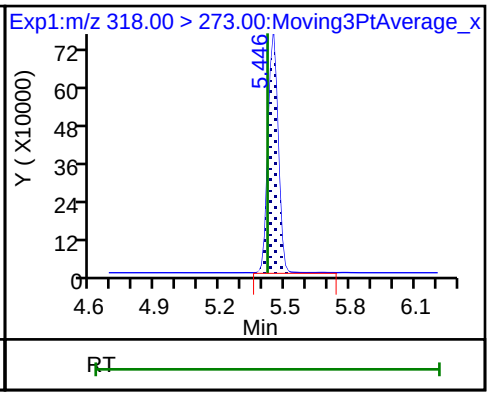
16 NFDHA (ND)



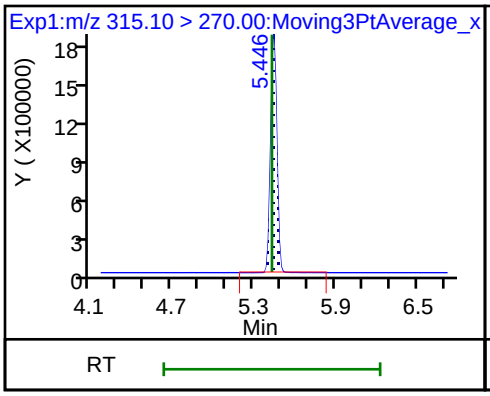
16 NFDHA (ND)



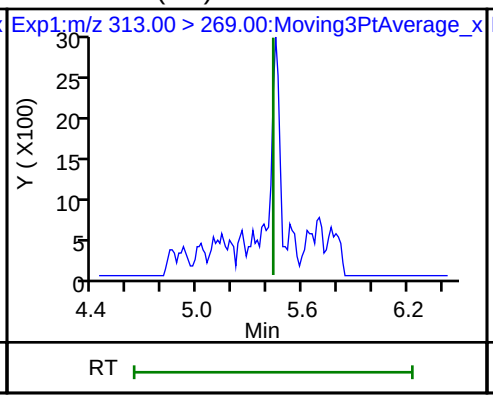
D 17 13C5 PFHxA



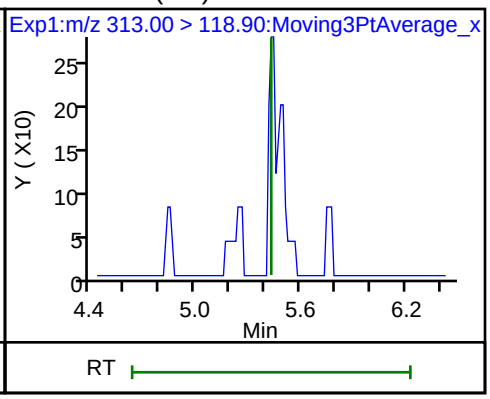
* 18 13C2 PFHxA



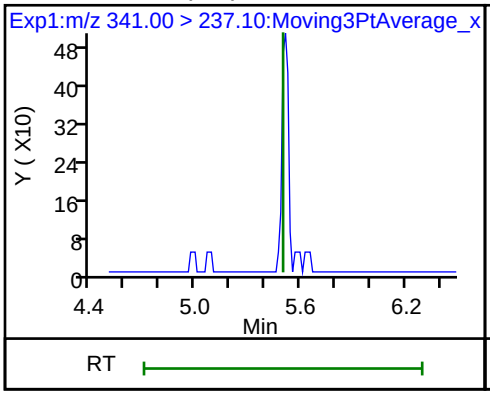
19 PFHxA (ND)



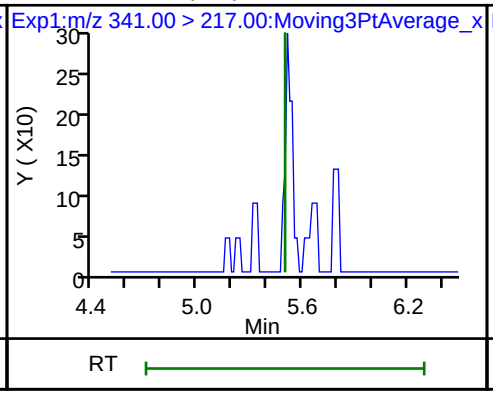
19 PFHxA (ND)



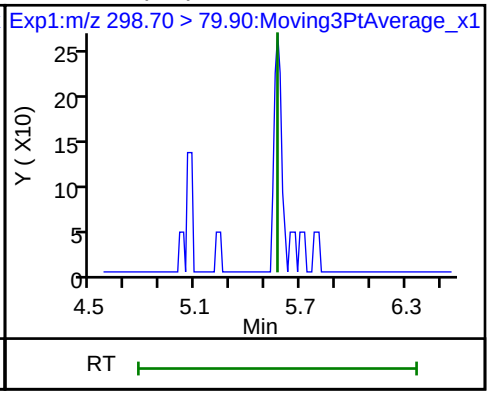
22 5:3 FTCA (ND)



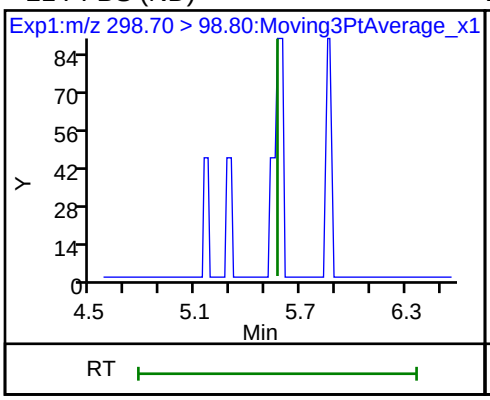
22 5:3 FTCA (ND)



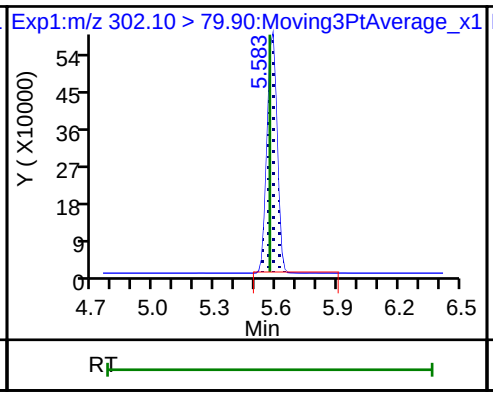
21 PFBS (ND)



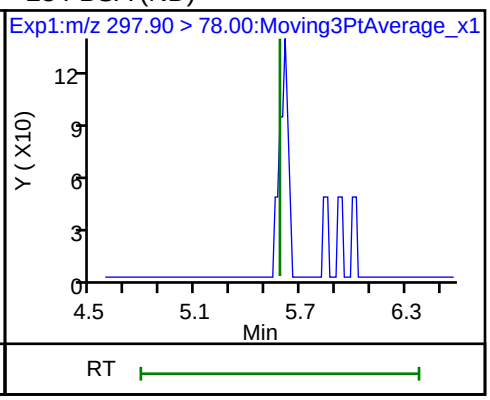
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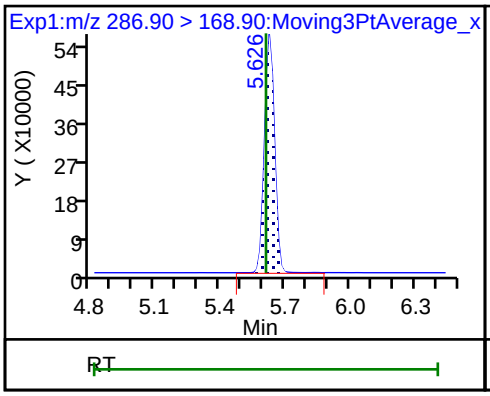
D 20 13C3 PFBS



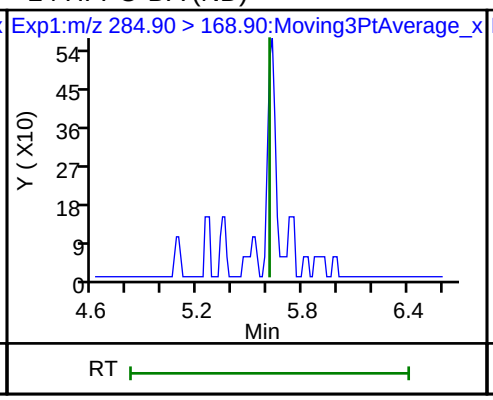
28 FBSA (ND)



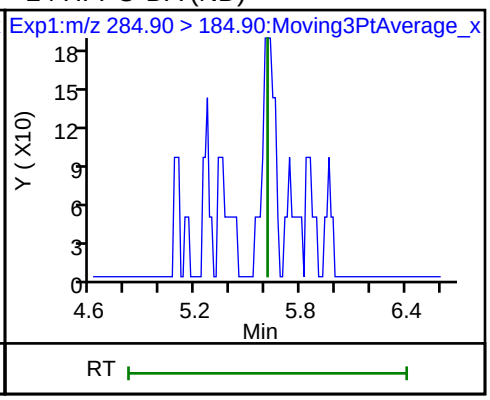
D 23 13C3 HFPO-DA



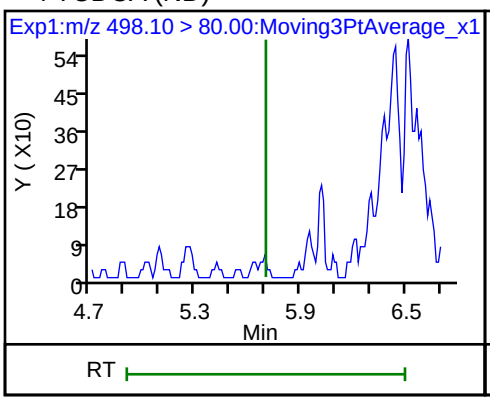
24 HFPO-DA (ND)



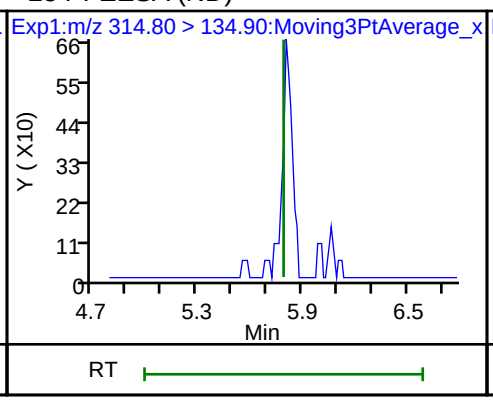
24 HFPO-DA (ND)



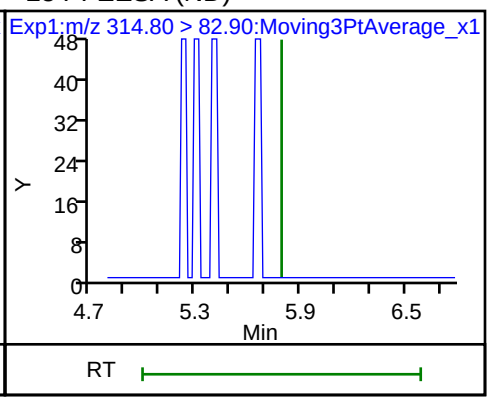
4 TCDCA (ND)



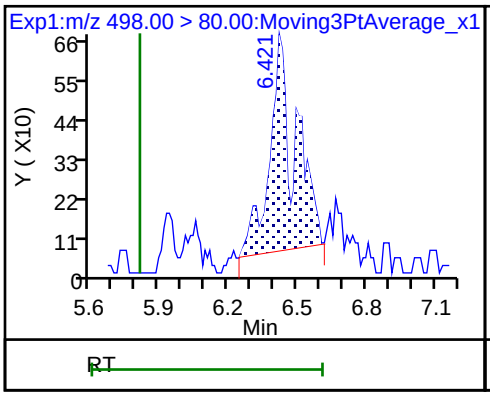
25 PFEESA (ND)



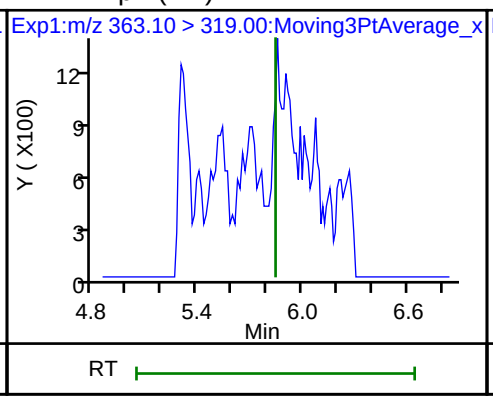
25 PFEESA (ND)



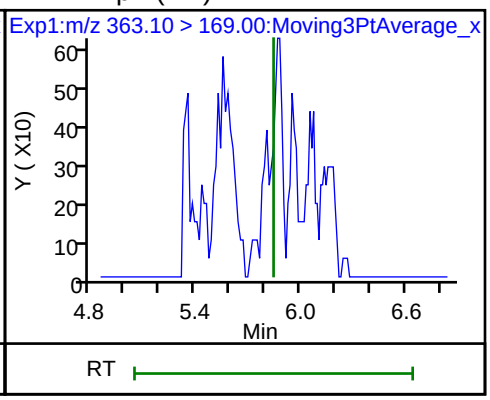
8 TDCA



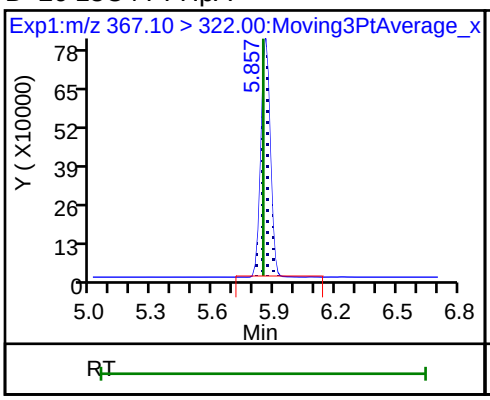
27 PFHpA (ND)



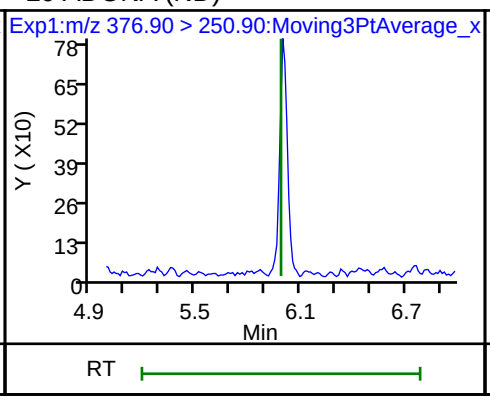
27 PFHpA (ND)



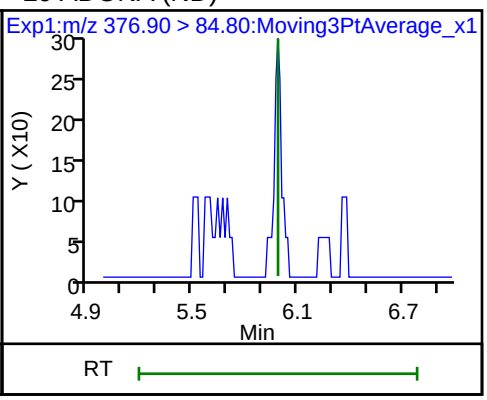
D 26 13C4 PFHpA



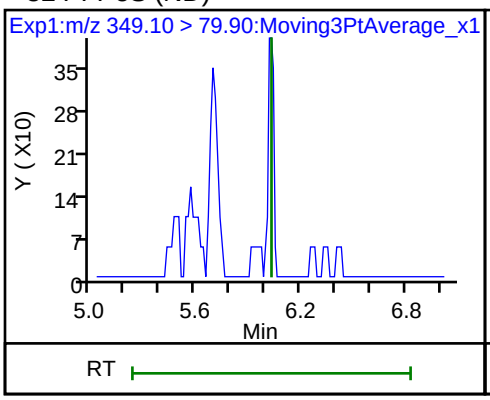
29 ADONA (ND)



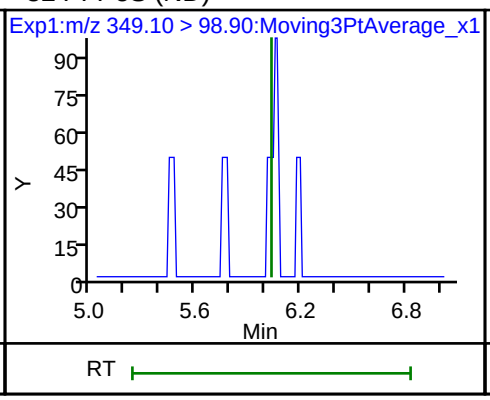
29 ADONA (ND)



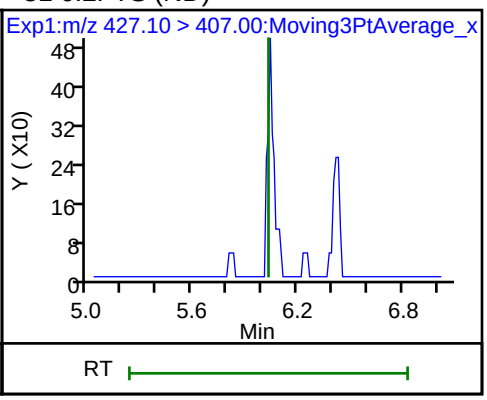
32 PFPeS (ND)



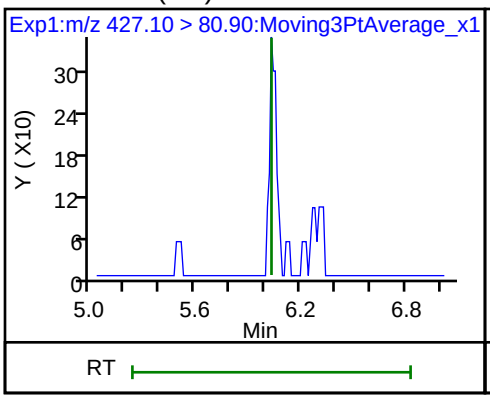
32 PFPeS (ND)



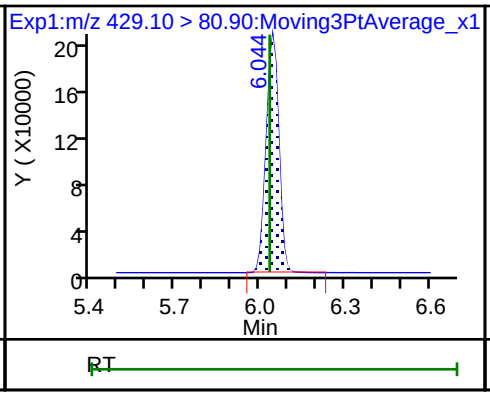
31 6:2FTS (ND)



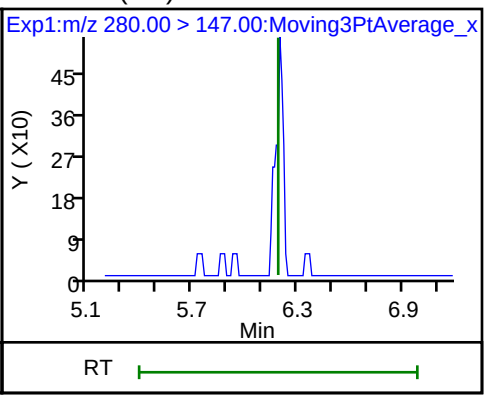
31 6:2FTS (ND)



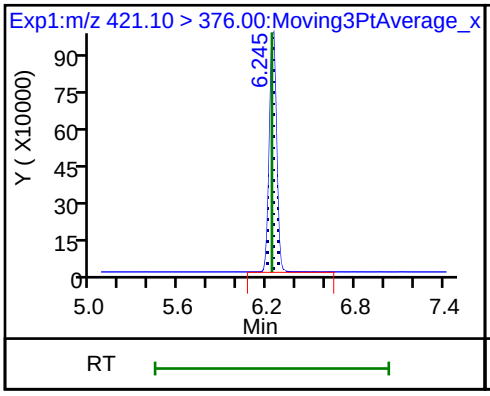
D 30 13C2-6:2FTS



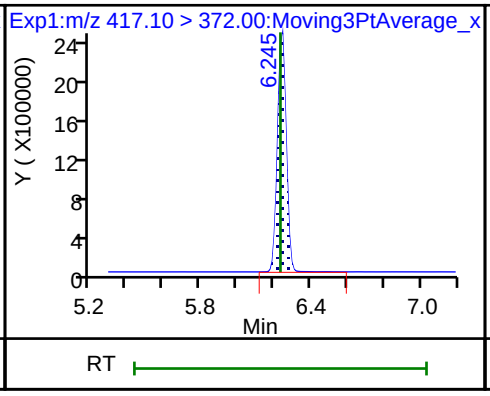
33 BTS (ND)



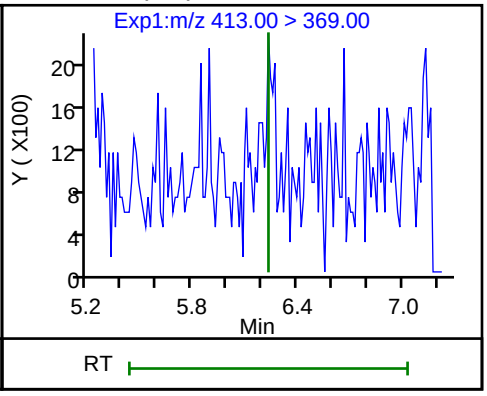
D 35 13C8 PFOA



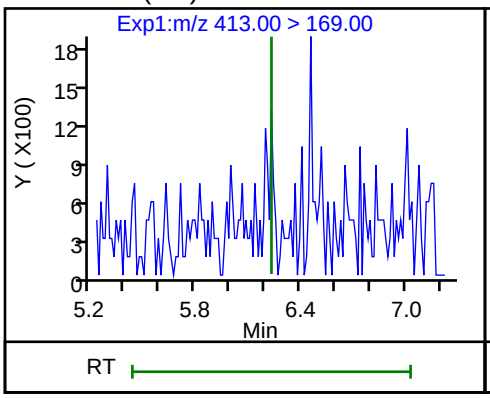
* 34 13C4 PFOA



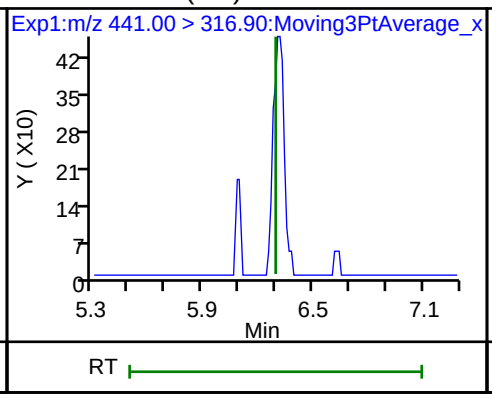
36 PFOA (ND)



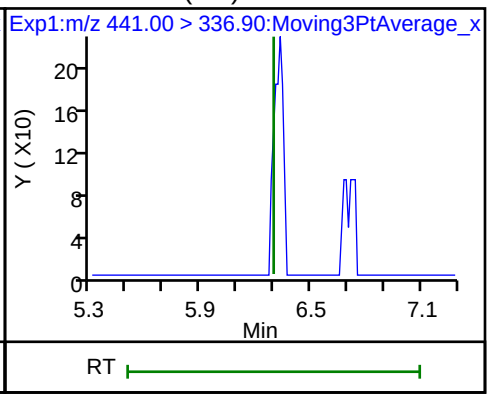
36 PFOA (ND)



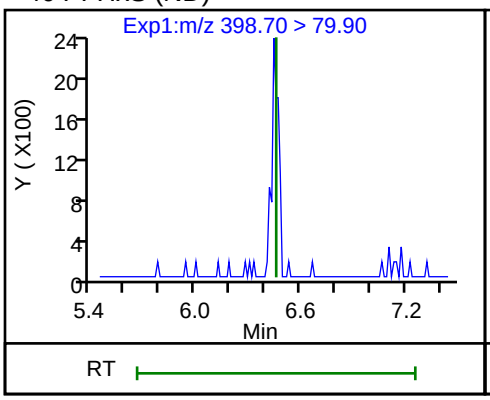
39 7:3 FTCA (ND)



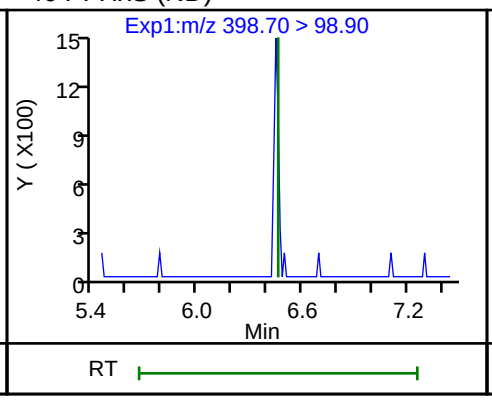
39 7:3 FTCA (ND)



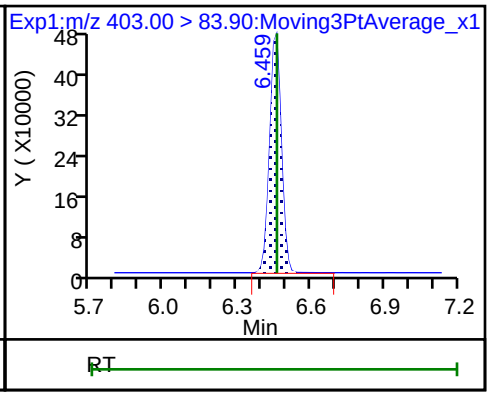
40 PFHxS (ND)



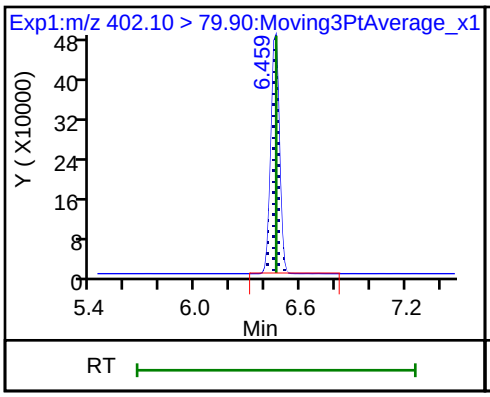
40 PFHxS (ND)



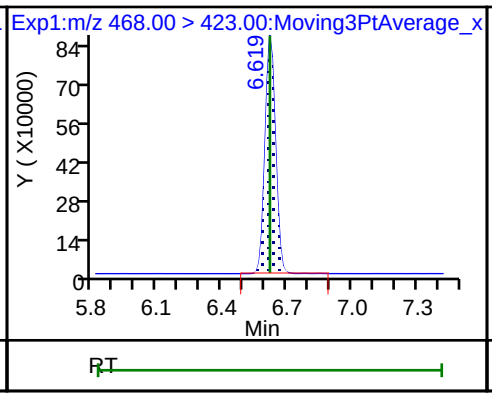
* 38 18O2 PFHxS



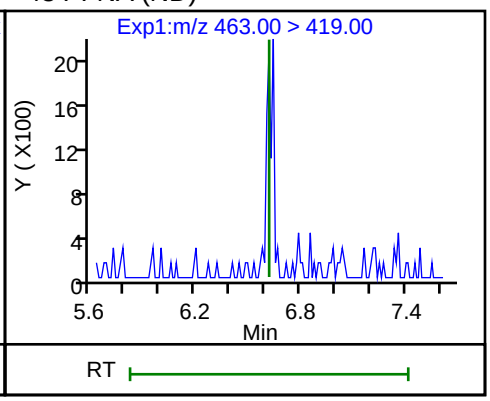
D 37 13C3 PFHxS



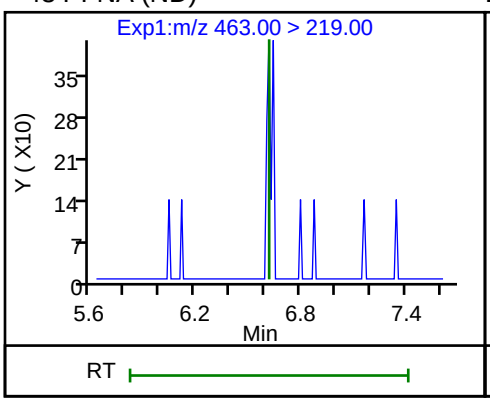
* 41 13C5 PFNA



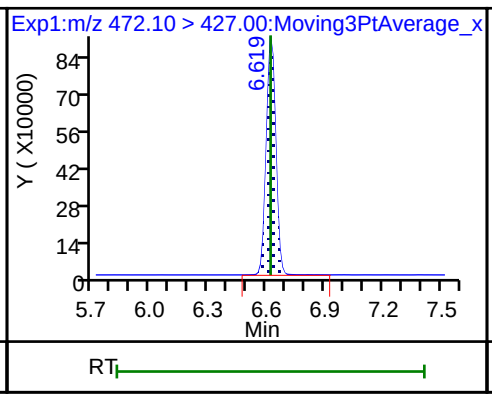
43 PFNA (ND)



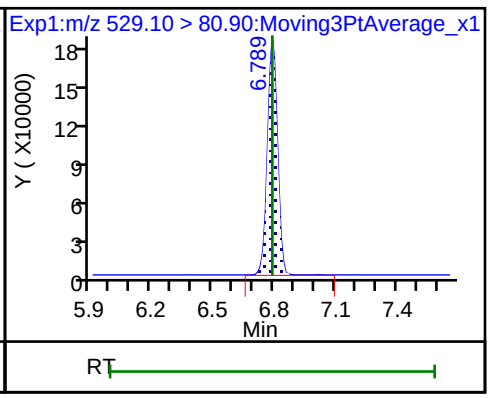
43 PFNA (ND)



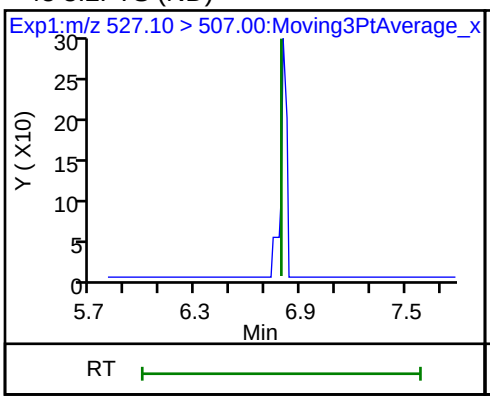
D 42 13C9 PFNA



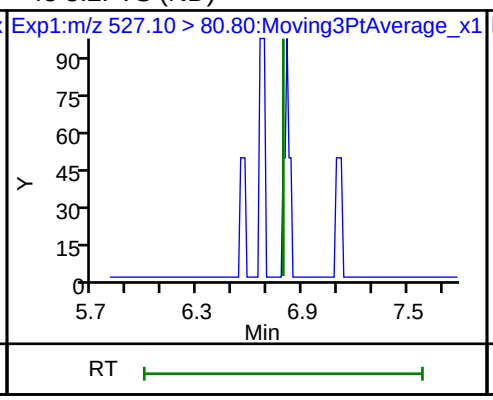
D 44 13C2-8:2FTS



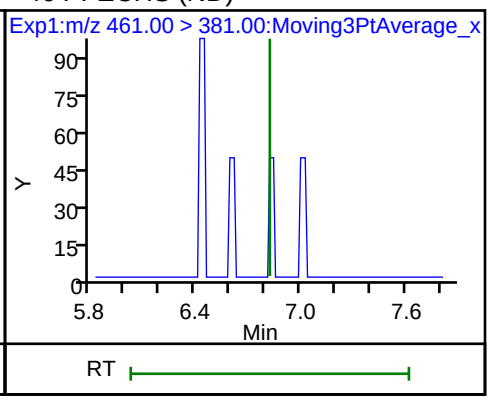
45 8:2FTS (ND)



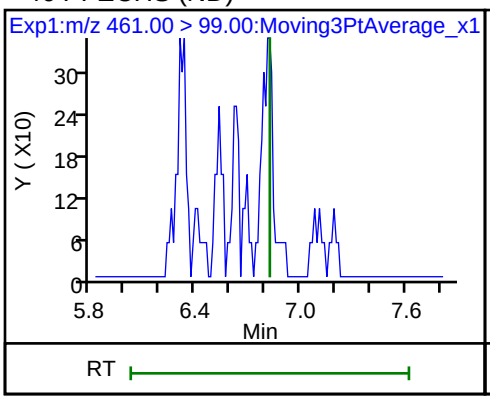
45 8:2FTS (ND)



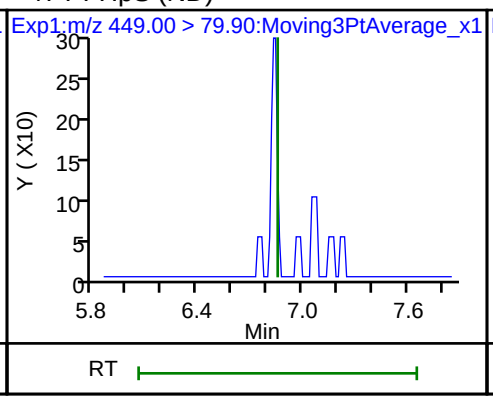
46 PFECHS (ND)



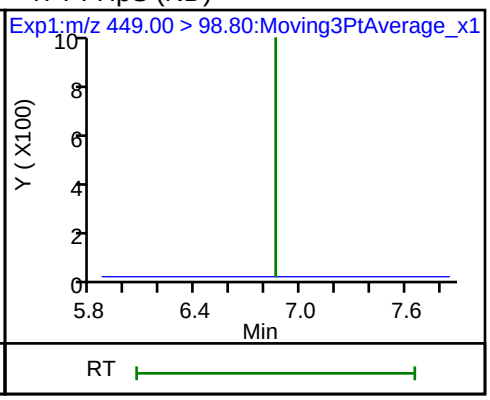
46 PFECHS (ND)



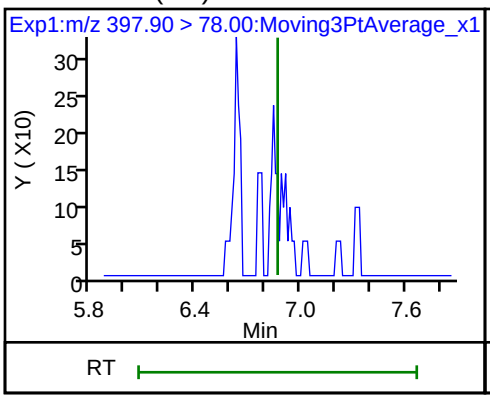
47 PFHpS (ND)



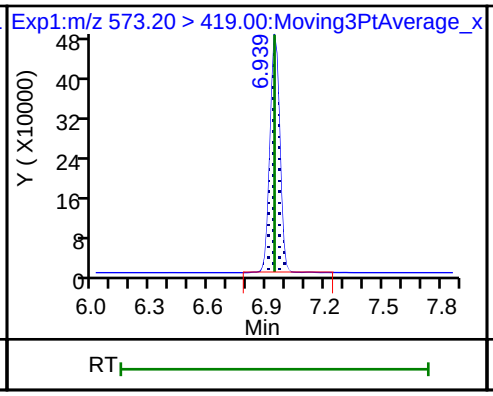
47 PFHpS (ND)



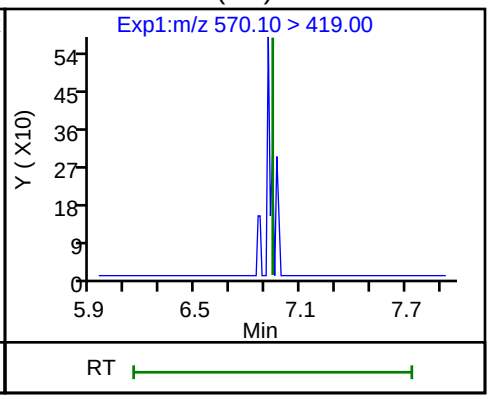
53 FHxSA (ND)



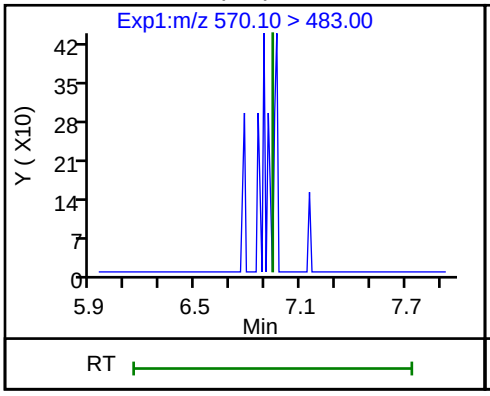
D 48 d3-NMeFOSAA



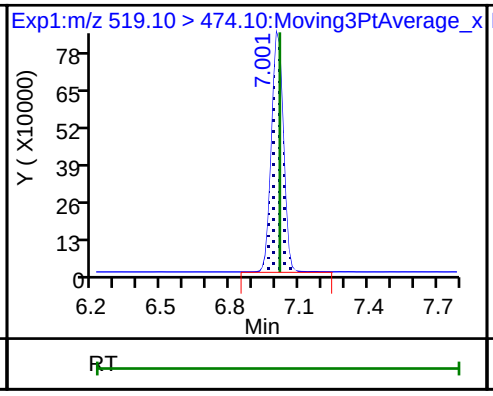
49 NMeFOSAA (ND)



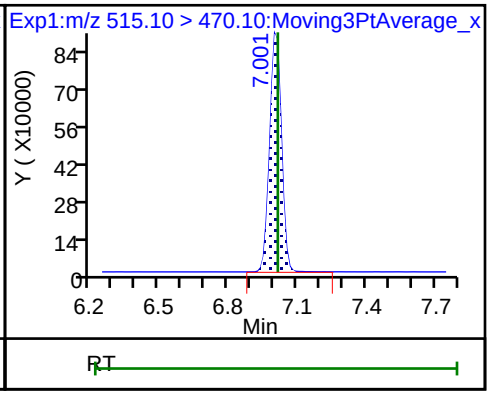
49 NMeFOSAA (ND)



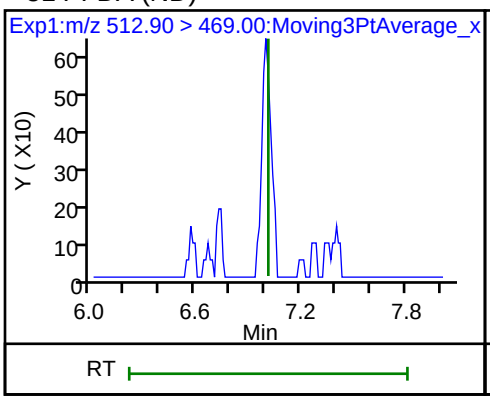
D 50 13C6 PFDA



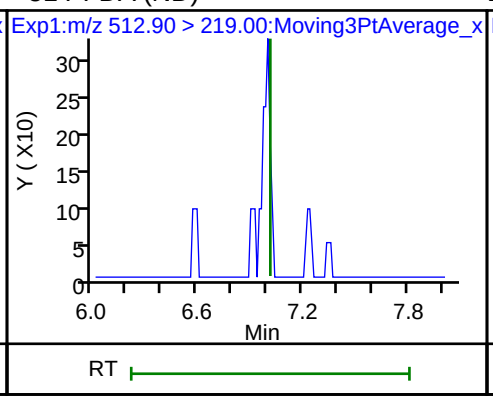
* 52 13C2 PFDA



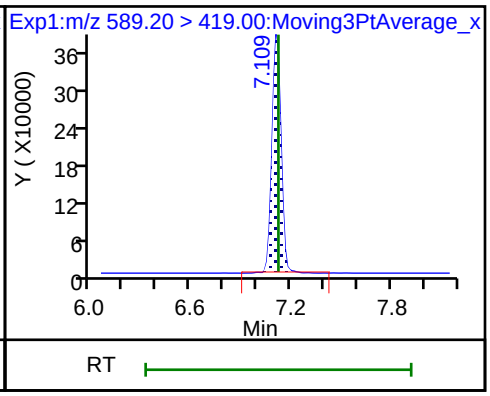
51 PFDA (ND)



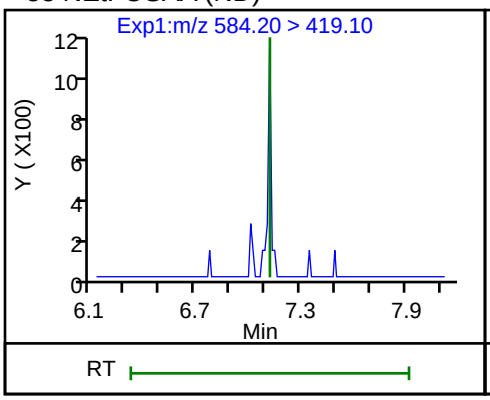
51 PFDA (ND)



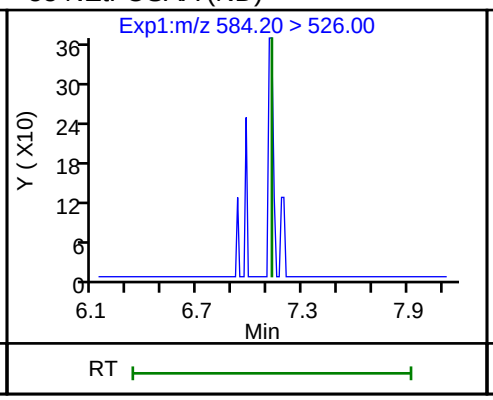
D 54 d5-NEtFOSAA



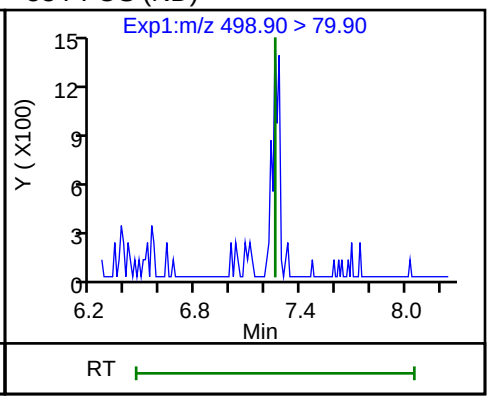
55 NEtFOSAA (ND)



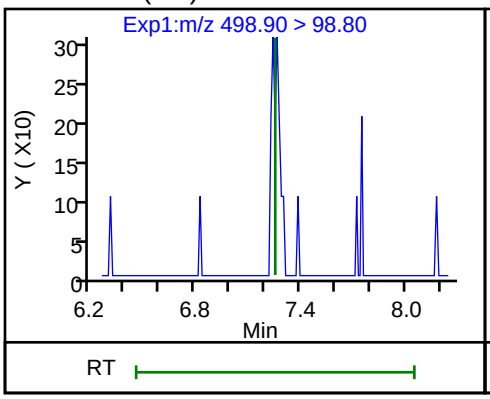
55 NEtFOSAA (ND)



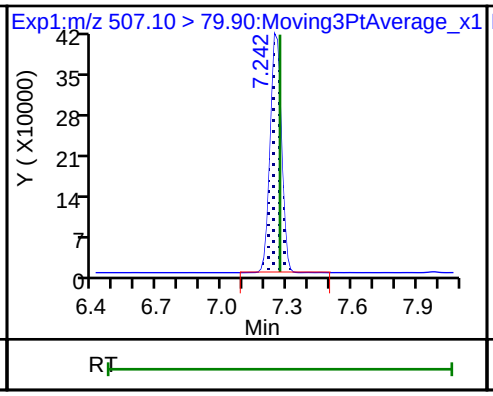
58 PFOS (ND)



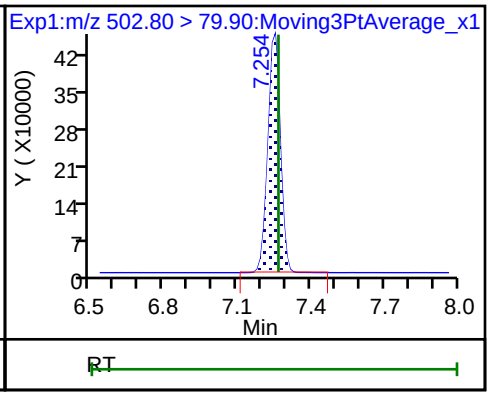
58 PFOS (ND)



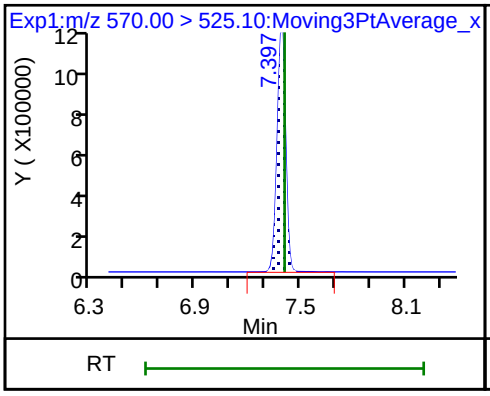
D 56 13C8 PFOS



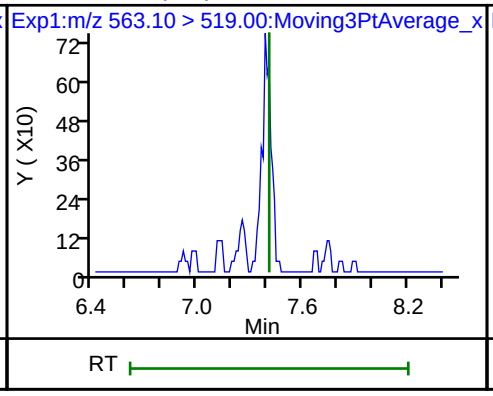
* 57 13C4 PFOS



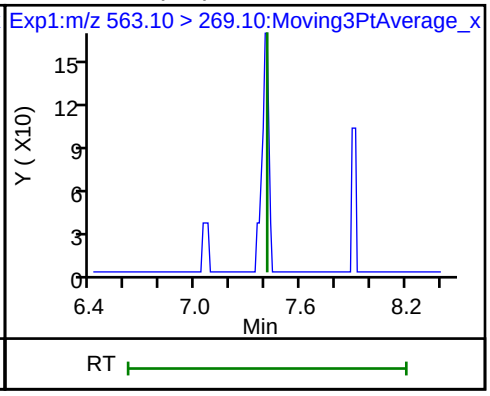
D 59 13C7 PFUnA



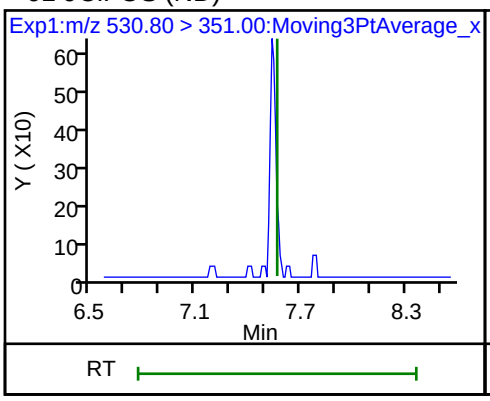
60 PFUnA (ND)



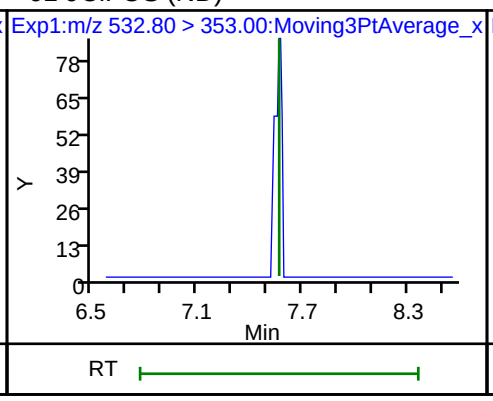
60 PFUnA (ND)



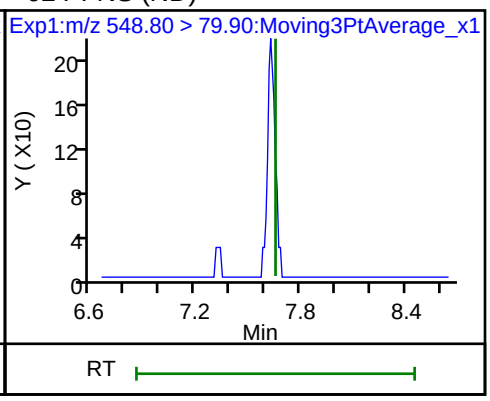
61 9ClFOS (ND)



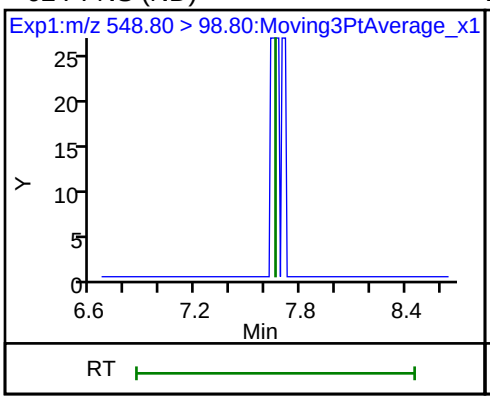
61 9ClFOS (ND)



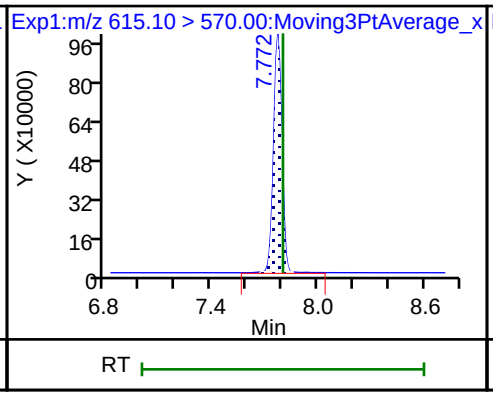
62 PFNS (ND)



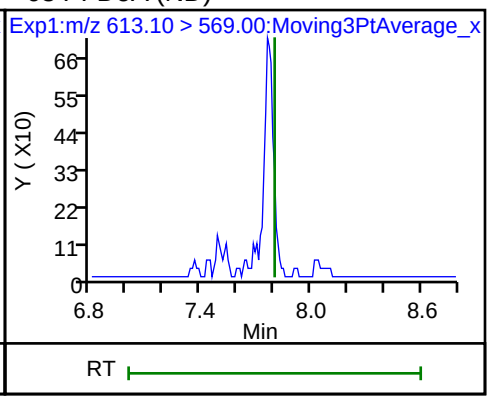
62 PFNS (ND)



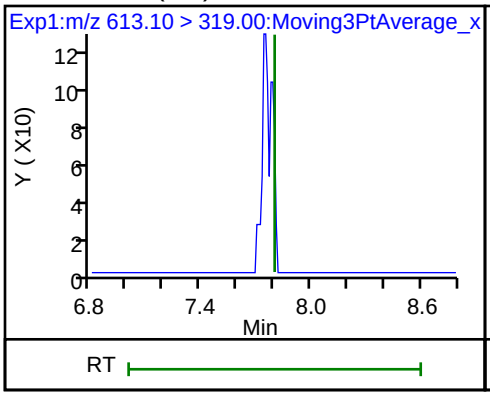
D 81 PFDoA



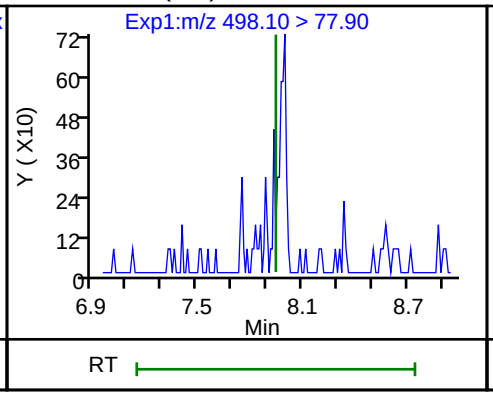
63 PFDoA (ND)



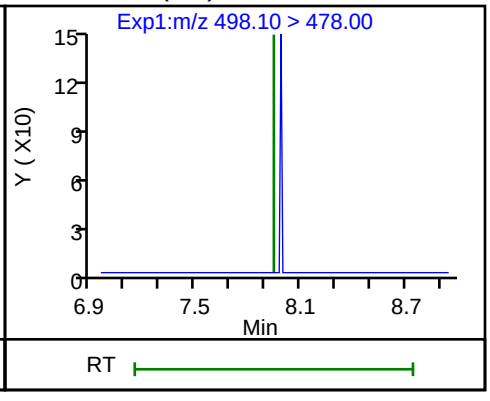
63 PFDoA (ND)



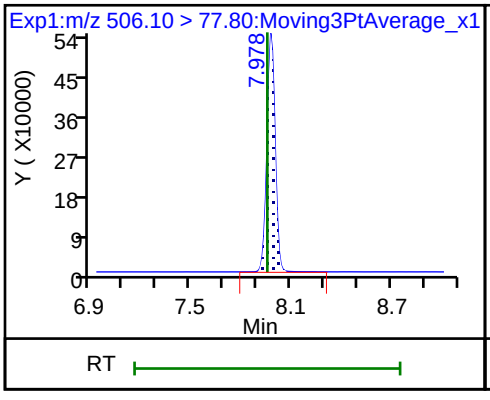
64 PFOSA (ND)



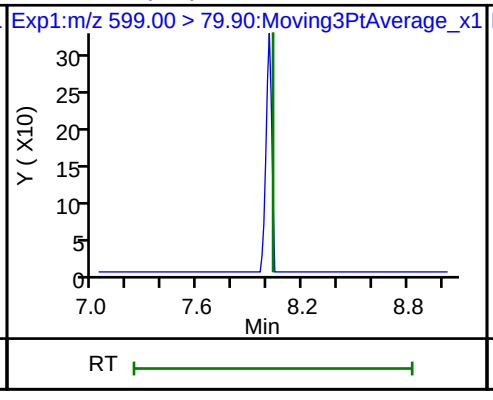
64 PFOSA (ND)



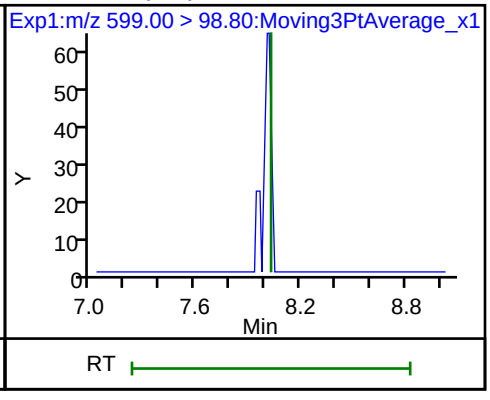
D 65 13C8 FOSA



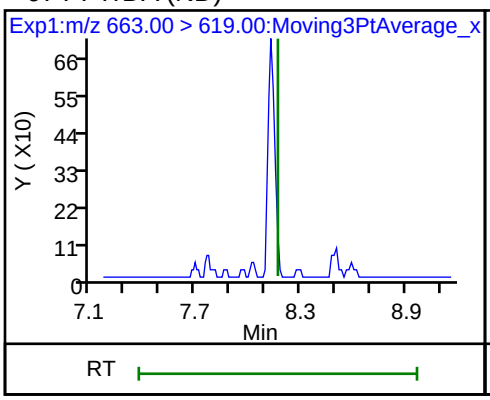
66 PFDS (ND)



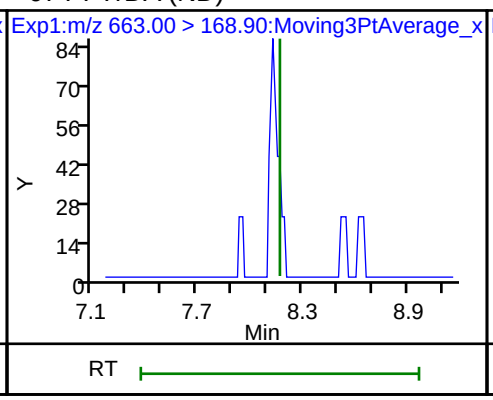
66 PFDS (ND)



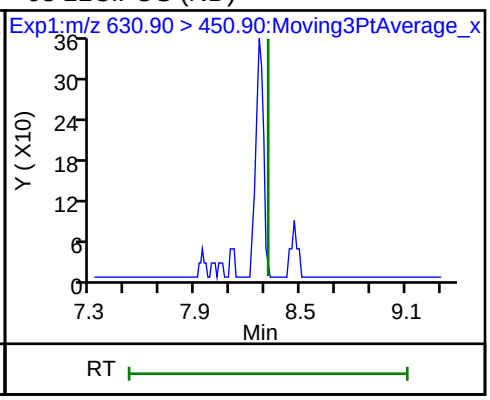
67 PFTrDA (ND)



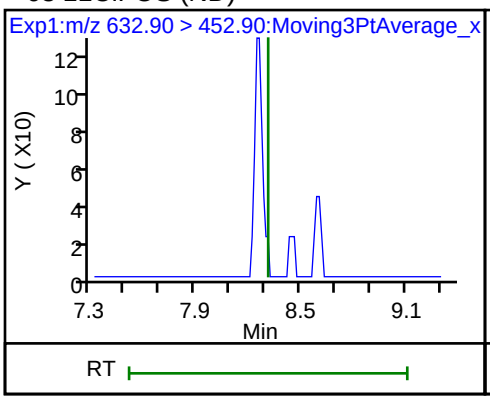
67 PFTrDA (ND)



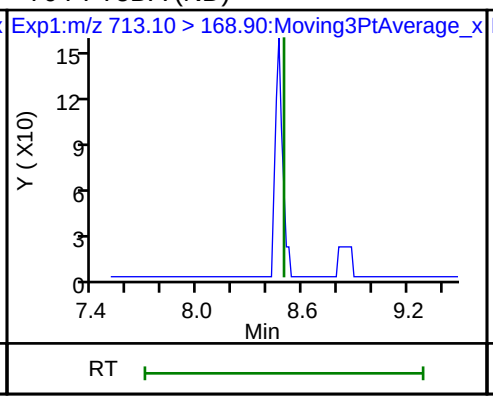
68 11ClFOS (ND)



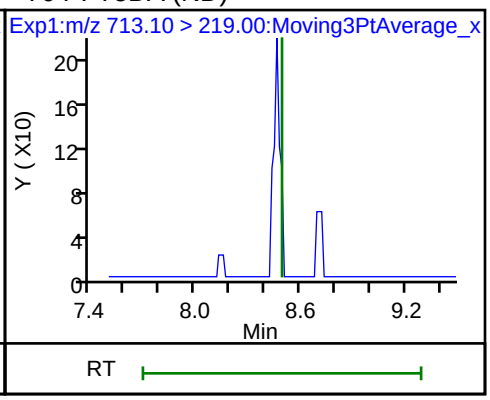
68 11ClFOS (ND)



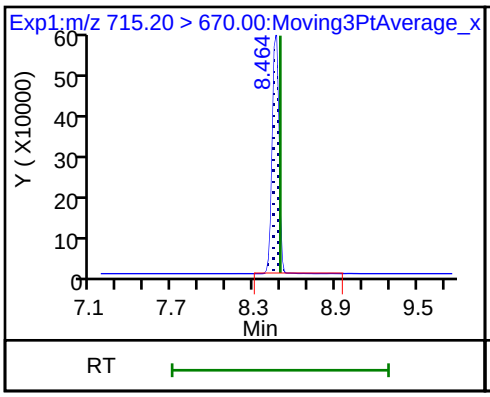
70 PFTeDA (ND)



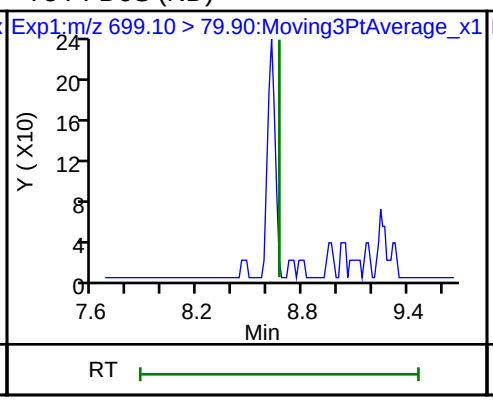
70 PFTeDA (ND)



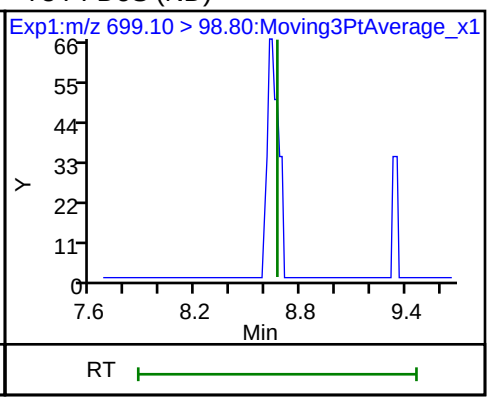
D 69 13C2 PFTeDA



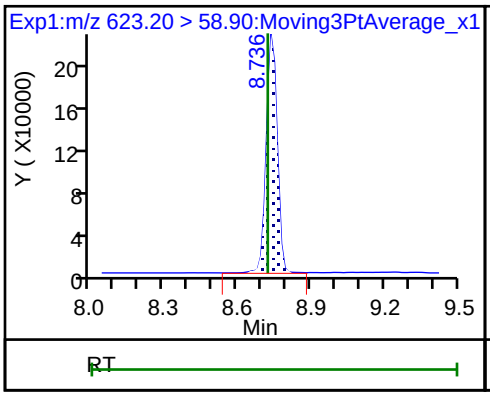
73 PFDoS (ND)



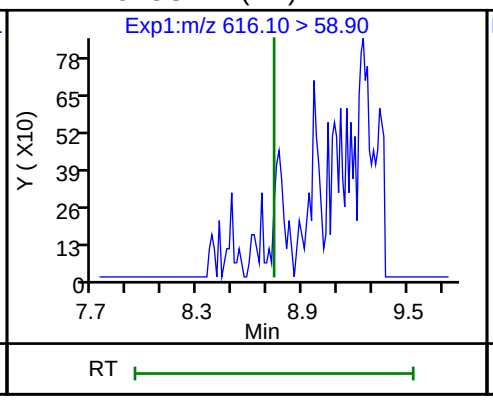
73 PFDoS (ND)



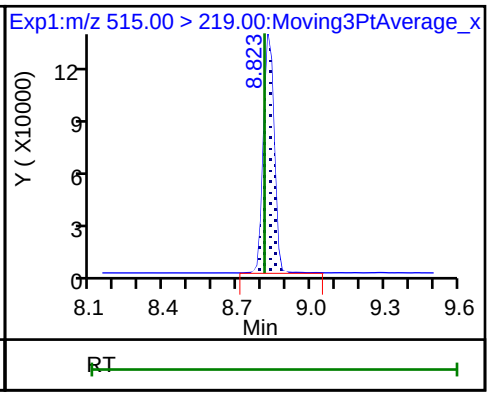
D 71 d7-N-Me-FOSE



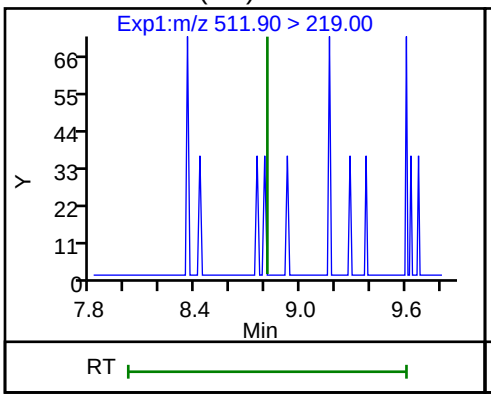
72 N-MeFOSE-M (ND)



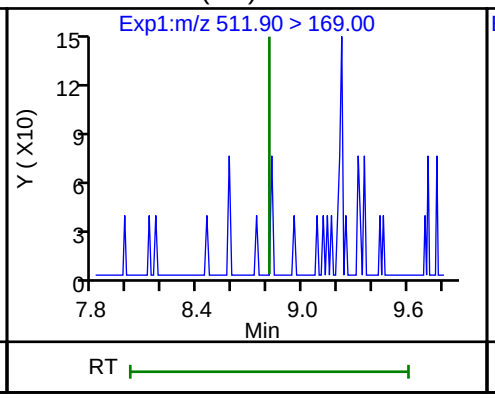
D 74 d3-NMePFOSA



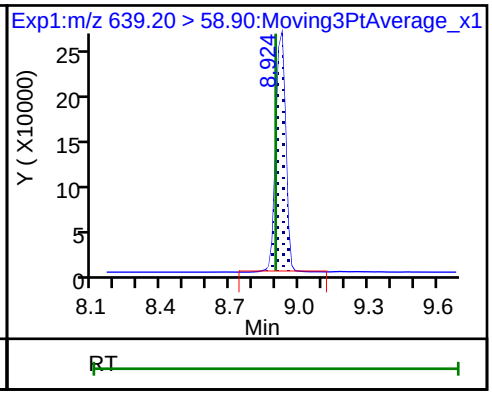
75 NMeFOSA (ND)



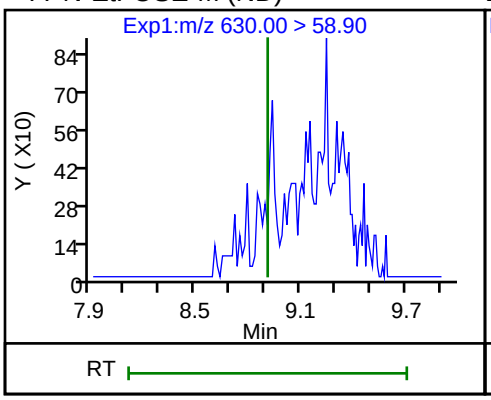
75 NMeFOSA (ND)



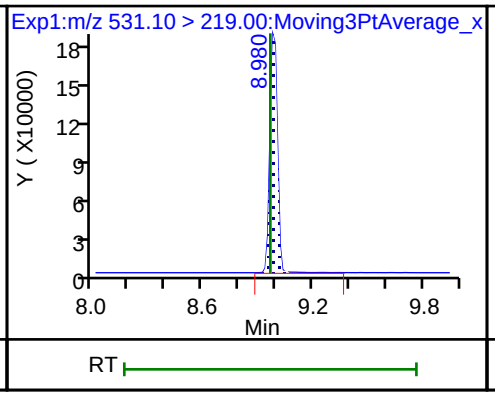
D 76 d9-N-EtFOSE



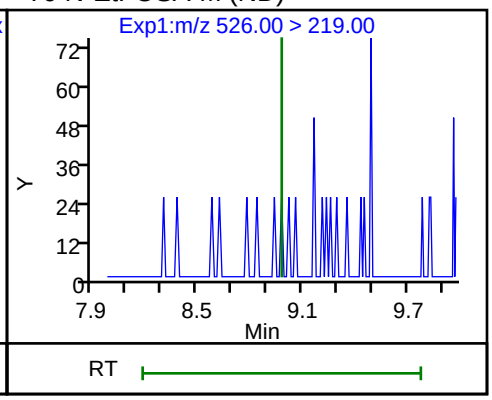
77 N-EtFOSE-M (ND)



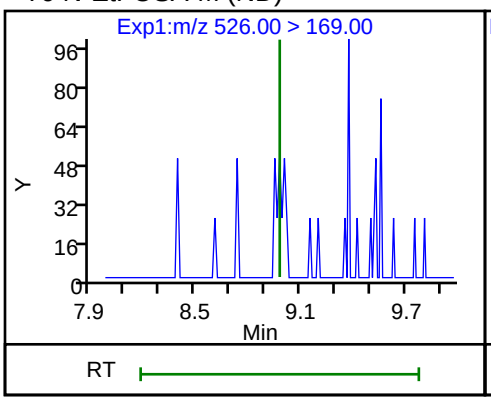
D 78 d5-NEtPFOSA



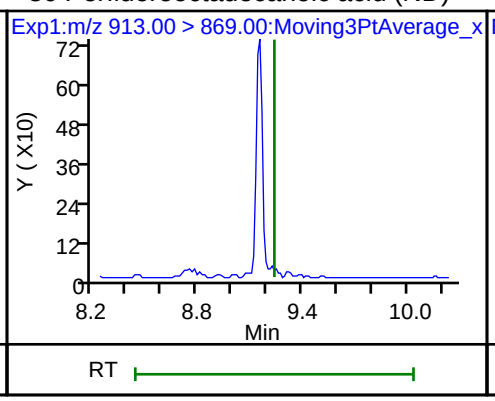
79 N-EtFOSA-M (ND)



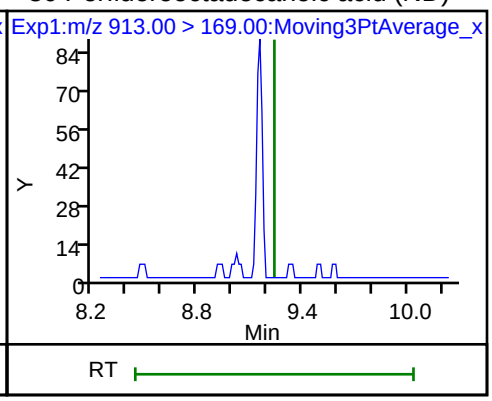
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-765196/131

Matrix: Solid
Lab File ID: 26FEB05PC-27.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/05/2026 19:51

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.010	U	0.010	0.0040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.010	U	0.010	0.0040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.010	U	0.010	0.0040
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.010	U	0.010	0.0040
335-67-1	Perfluorooctanoic acid (PFOA)	0.010	U	0.010	0.0040
375-95-1	Perfluorononanoic acid (PFNA)	0.010	U	0.010	0.0040
335-76-2	Perfluorodecanoic acid (PFDA)	0.010	U	0.010	0.0040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.010	U	0.010	0.0040
307-55-1	Perfluorododecanoic acid (PFDoA)	0.010	U	0.010	0.0040
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.010	U	0.010	0.0040
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.010	U	0.010	0.0040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.010	U	0.010	0.0040
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.010	U	0.010	0.0040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.010	U	0.010	0.0040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.010	U	0.010	0.0040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.010	U	0.010	0.0040
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.010	U	0.010	0.0040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.010	U	0.010	0.0040
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.010	U	0.010	0.0040
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.010	U	0.010	0.0040
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.010	U	0.010	0.0040
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.010	U	0.010	0.0040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.010	U	0.010	0.0040
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.010	U	0.010	0.0040
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-765196/131

Matrix: Solid
Lab File ID: 26FEB05PC-27.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/05/2026 19:51

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.010	U	0.010	0.0040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.010	U	0.010	0.0040
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.010	U	0.010	0.0040
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.010	U	0.010	0.0040
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.010	U	0.010	0.0040
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.010	U	0.010	0.0040
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.010	U	0.010	0.0040
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.010	U	0.010	0.0040
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.010	U	0.010	0.0040
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.010	U	0.010	0.0040
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.010	U	0.010	0.0040
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.010	U	0.010	0.0040
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.010	U	0.010	0.0040
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.010	U	0.010	0.0040
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-765196/131

Matrix: Solid
Lab File ID: 26FEB05PC-27.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/05/2026 19:51

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	103		8-130
2283397-79-3	13C5 PFPeA	109		35-130
2328024-54-8	13C5 PFHxA	107		40-130
2328024-55-9	13C4 PFHpA	119		40-130
1350614-84-4	13C8 PFOA	108		40-130
2283397-80-6	13C9 PFNA	104		40-130
2328024-56-0	13C6 PFDA	107		40-130
STL02580	13C7 PFUnA	110		40-130
STL02116	13C2 PFTeDA	111		20-130
2708218-83-9	13C3 PFBS	116		40-135
2708218-85-1	13C3 PFHxS	113		40-130
2265893-05-6	13C8 PFOS	104		40-130
STL01056	13C8 FOSA	98.8		40-130
1400690-70-1	d3-NMeFOSAA	95.8		40-135
1265205-97-7	d5-NEtFOSAA	113		40-150
STL02395	13C2 4:2 FTS	108		40-165
STL02279	13C2 6:2 FTS	130		40-215
STL02280	13C2 8:2 FTS	108		40-275
STL02255	13C3 HFPO-DA	96.1		40-130
STL02277	d7-N-MeFOSE-M	95.6		20-130
STL02278	d9-N-EtFOSE-M	98.9		15-130
STL02704	d5-NEtPFOSA	97.7		10-130
STL02705	d3-NMePFOSA	97.6		10-130
960315-52-0	13C2 PFDoA	113		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05PC-27.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 05-Feb-2026 19:51:19 ALS Bottle#: 1 Worklist Smp#: 131
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: Plate: 1 Rack: 1 410-0174796-131
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.052	2.018	0.034	0.488	1334802	2.05		102	2942	
D 4 13C4-PFBA										
216.80 > 171.90	4.208	4.187	0.021	1.000	1815892	2.06		103	6269	
* 5 13C3PFBA										
216.00 > 172.00	4.208	4.187	0.021		1719392	2.00			4128	
D 8 13C5 PFPeA										
268.30 > 223.00	4.862	4.844	0.018	0.913	1857489	2.19		109	5154	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.141	5.121	0.020	0.805	996205	5.07		108	4358	
D 15 13C5 PFHxA										
318.00 > 273.00	5.324	5.303	0.021	1.000	2200924	2.13		107	3358	
* 16 13C2 PFHxA										
315.10 > 270.00	5.324	5.303	0.021		4868539	5.00			7795	
D 19 13C3 PFBS										
302.10 > 79.90	5.466	5.437	0.029	0.855	2276321	2.16		116	4837	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.507	5.486	0.021	1.034	1350098	1.92		96.1	3173	
24 TCDCA										
498.10 > 80.00	5.951	5.553	0.398	0.821	2427	NR			22.0	
25 TDCA										
498.00 > 80.00	5.941	5.679	0.261	0.819	1828	NR			15.4	
D 28 13C4 PFHpA										
367.10 > 322.00	5.743	5.732	0.011	1.079	2404214	2.39		119	4945	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.951	5.930	0.021	0.931	1028536	6.19		130	3132	
* 34 13C4 PFOA										
417.10 > 372.00	6.153	6.143	0.010		6918616	5.00			4343	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.153	6.143	0.010	1.000	3033337	2.15		108	5738	
* 39 18O2 PFHxS										
403.00 > 83.90	6.390	6.379	0.011		1570360	1.90			5122	
D 38 13C3 PFHxS										
402.10 > 79.90	6.390	6.379	0.011	1.000	1911778	2.14		113	7062	
D 41 13C9 PFNA										
472.10 > 427.00	6.570	6.549	0.021	1.000	2190799	2.07		104	5335	
* 42 13C5 PFNA										
468.00 > 423.00	6.570	6.560	0.010		2044606	2.00			5787	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.747	6.737	0.010	1.056	893311	5.21		108	2227	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.909	6.899	0.010	0.953	1844325	4.79		95.8	1557	
* 51 13C2 PFDA										
515.10 > 470.10	6.980	6.970	0.010		2025326	2.00			6136	
D 52 13C6 PFDA										
519.10 > 474.10	6.980	6.970	0.010	1.000	2140137	2.14		107	5702	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.100	7.090	0.010	0.979	1870643	5.63		113	3732	
* 57 13C4 PFOS										
502.80 > 79.90	7.251	7.241	0.010		1430220	1.92			7852	
D 56 13C8 PFOS										
507.10 > 79.90	7.251	7.241	0.010	1.000	1648436	1.98		104	7985	
D 59 13C7 PFUnA										
570.00 > 525.10	7.387	7.387	0.0	1.058	2187895	2.20		110	3640	
D 81 PFDoA										
615.10 > 570.00	7.806	7.806	0.0	1.118	2158989	2.26		113	3280	
D 65 13C8 FOSA										
506.10 > 77.80	8.044	8.035	0.009	1.109	1693390	1.98		98.8	3713	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.612	8.611	0.001	1.234	1908870	2.22		111	6998	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.904	8.889	0.015	1.228	328892	4.78		95.6	986	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.017	9.002	0.015	1.244	530646	1.95		97.6	4502	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.139	9.125	0.014	1.260	366781	4.94		98.9	741	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.228	9.215	0.013	1.273	682723	1.95		97.7	3046	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00511	Amount Added:	50.00	Units: uL
1633_125_SS_00162	Amount Added:	5.00	Units: uL

Report Date: 05-Feb-2026 22:55:57 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05PC-27.d

Injection Date: 05-Feb-2026 19:51:19 Instrument ID: 30577

Lims ID: CCB

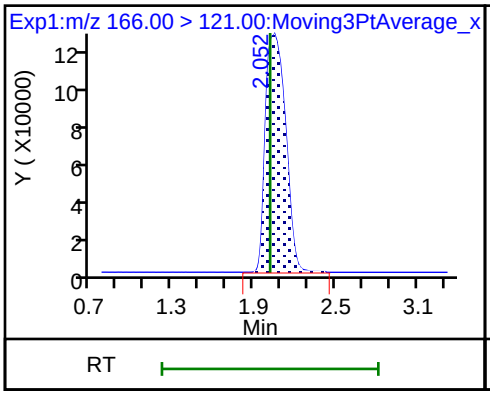
Client ID:

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 1 Worklist Smp#: 131

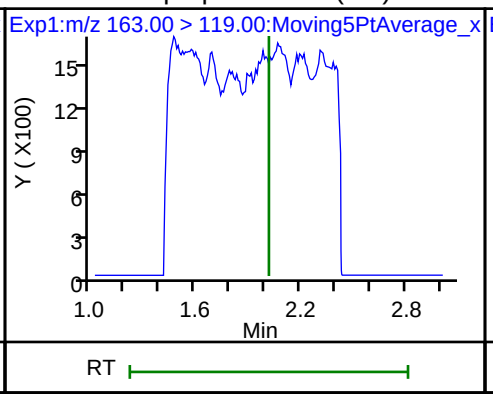
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

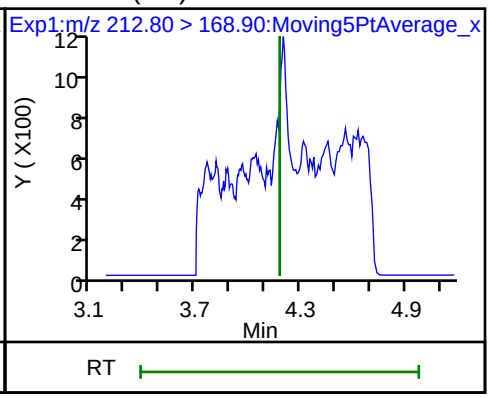
D 1 13C3PFPrA



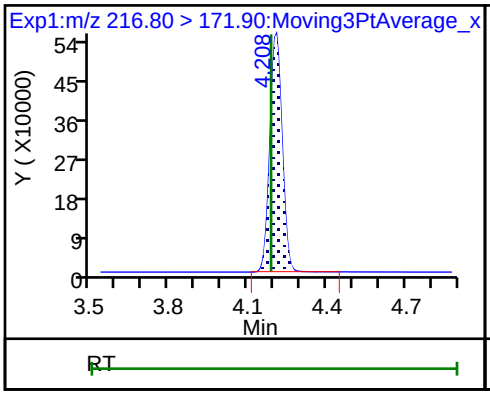
2 Perfluoropropionic acid (ND)



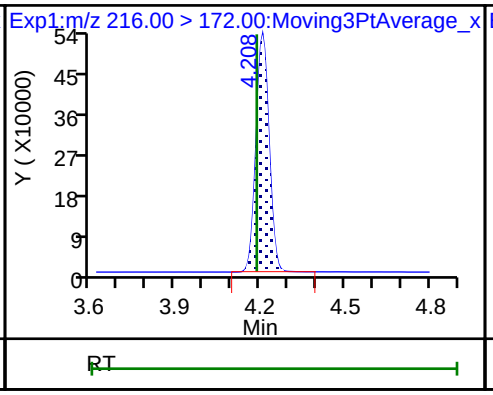
3 PFBA (ND)



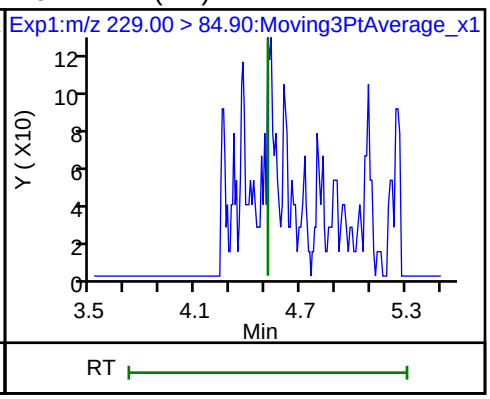
D 4 13C4-PFBA



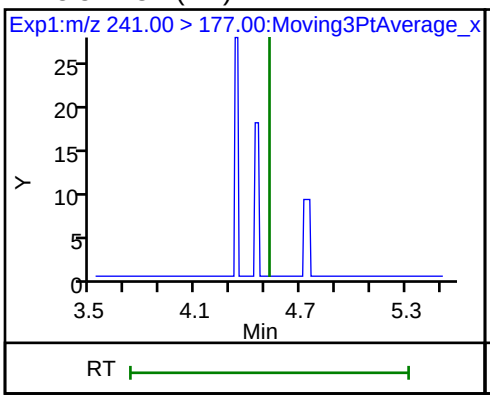
* 5 13C3PFBA



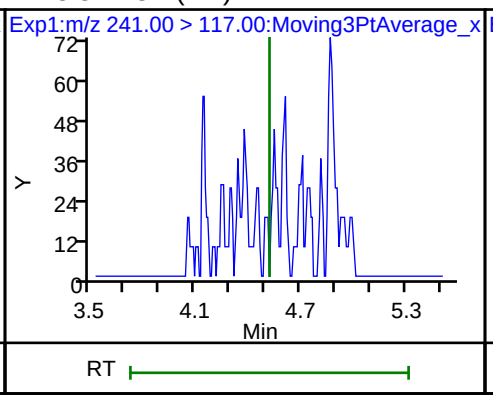
6 PFMPA (ND)



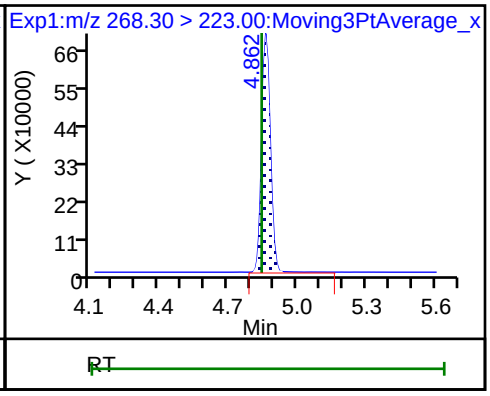
7 3:3 FTCA (ND)



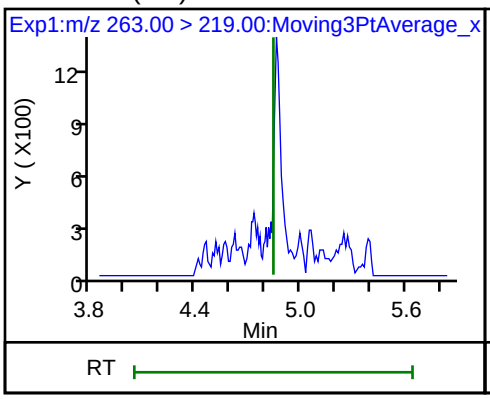
7 3:3 FTCA (ND)



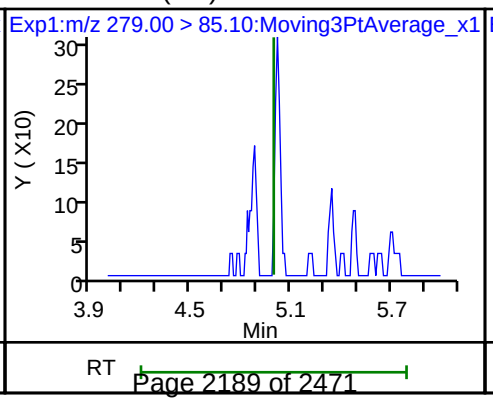
D 8 13C5 PFPeA



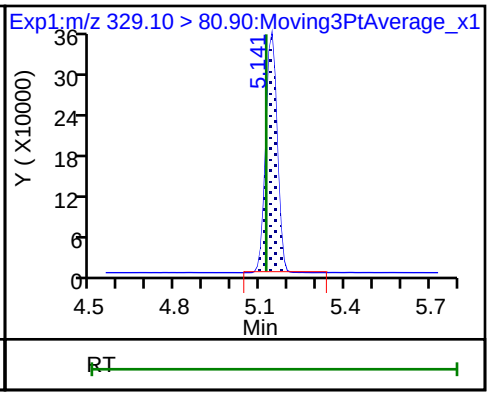
9 PFPA (ND)



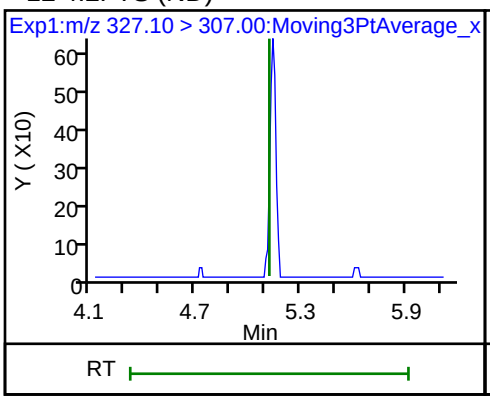
10 PFMBA (ND)



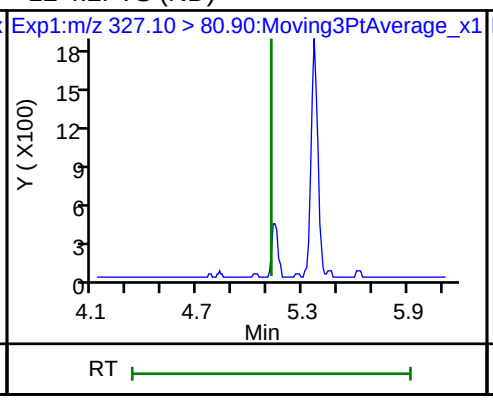
D 11 13C2-4:2FTS



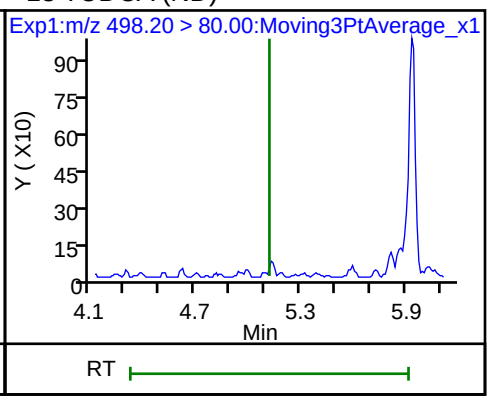
12 4:2FTS (ND)



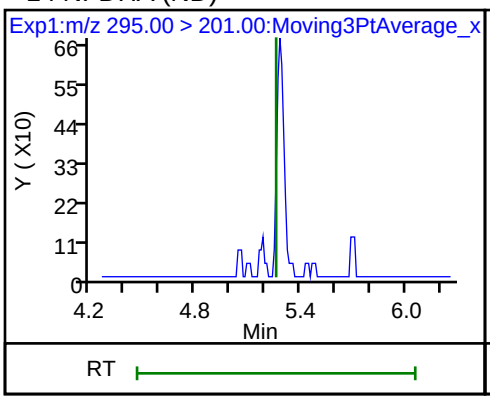
12 4:2FTS (ND)



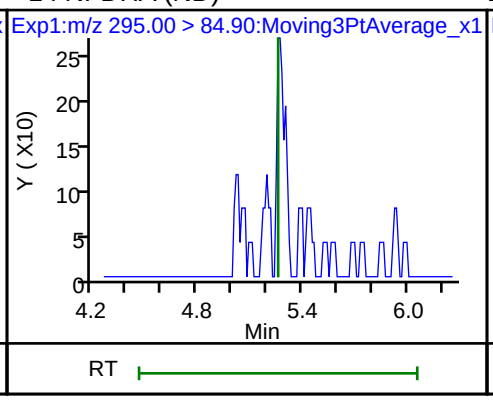
13 TUDCA (ND)



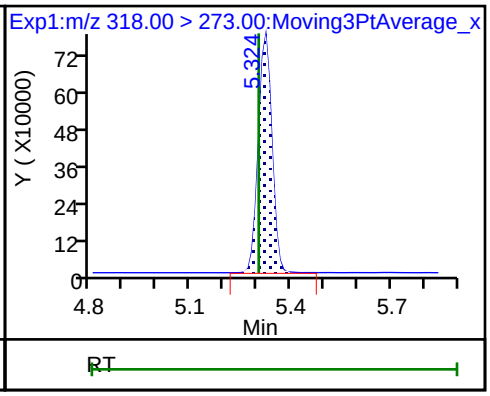
14 NFDHA (ND)



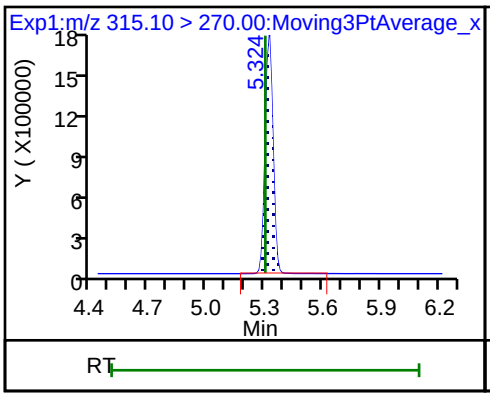
14 NFDHA (ND)



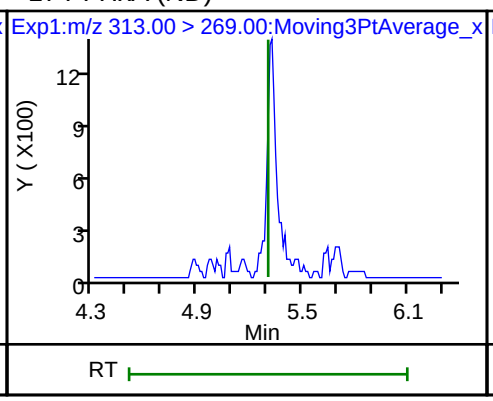
D 15 13C5 PFHxA



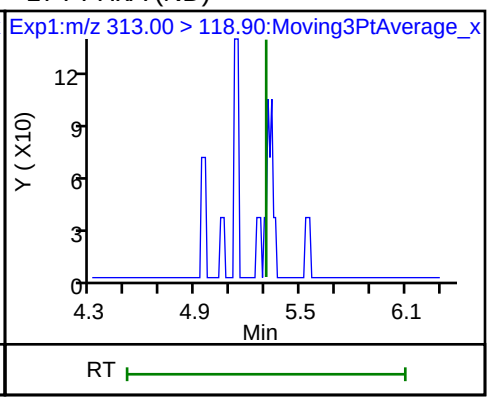
* 16 13C2 PFHxA



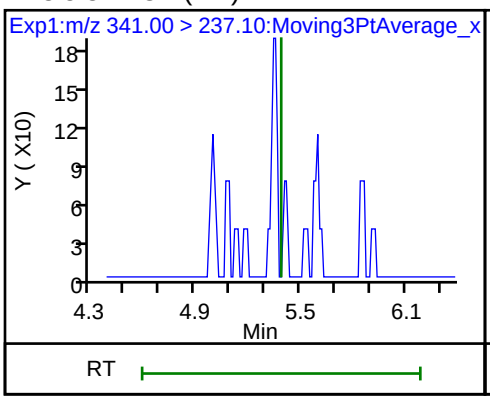
17 PFHxA (ND)



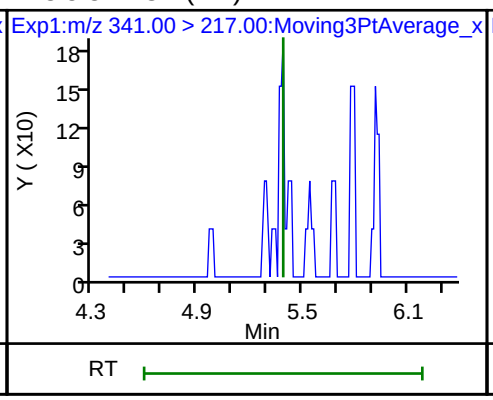
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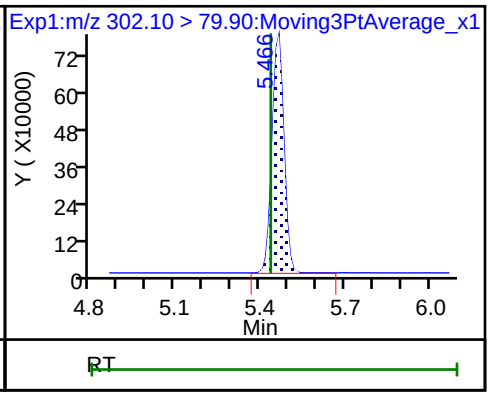
18 5:3 FTCA (ND)



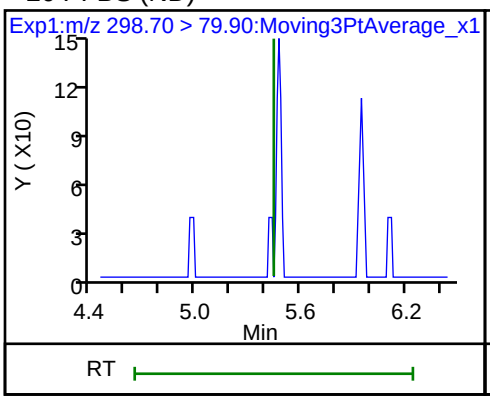
18 5:3 FTCA (ND)



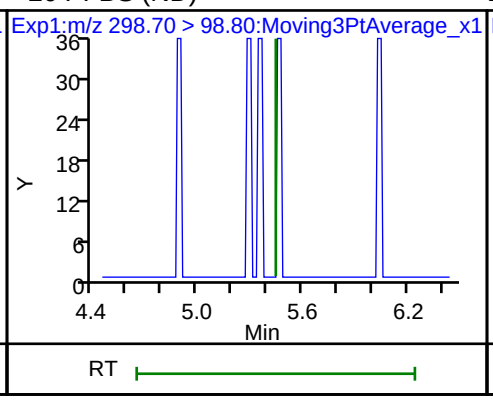
D 19 13C3 PFBS



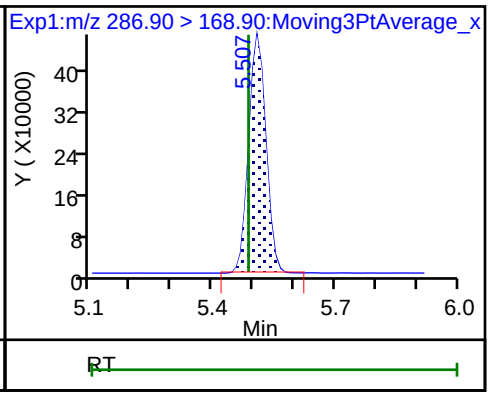
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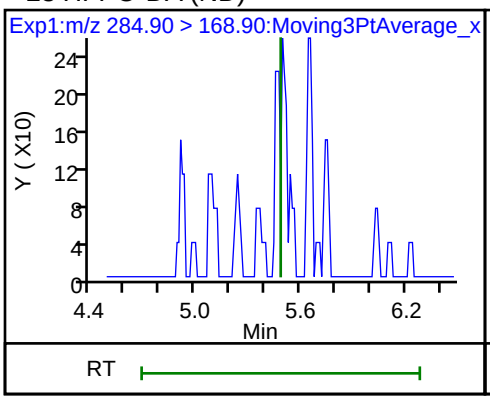
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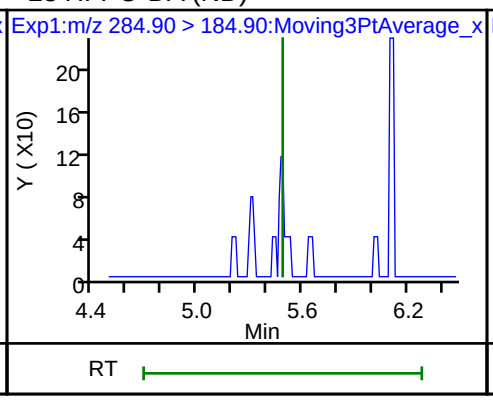
D 22 13C3 HFPO-DA



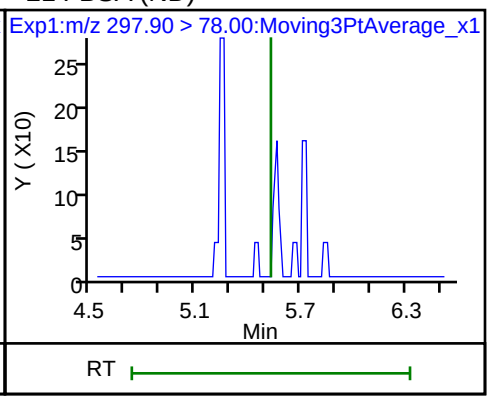
23 HFPO-DA (ND)



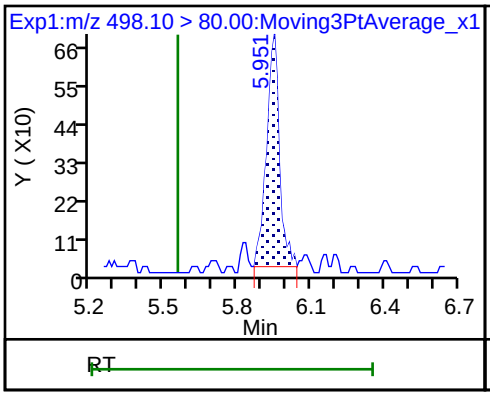
23 HFPO-DA (ND)



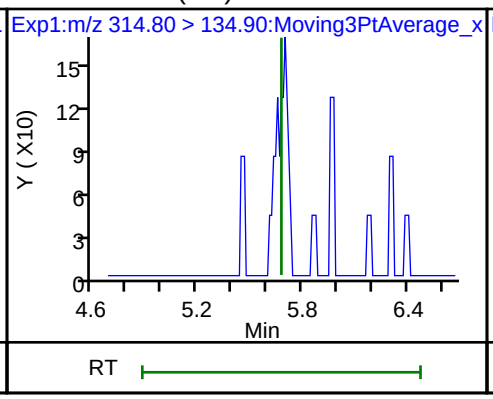
21 FBSA (ND)



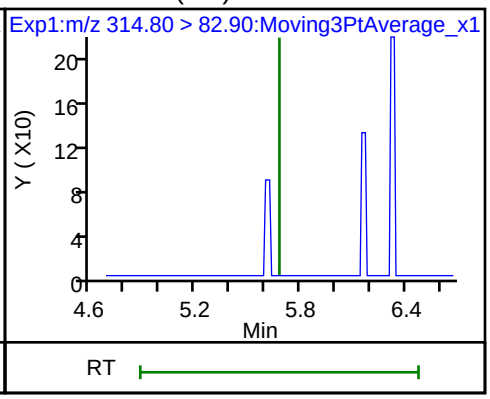
24 TCDCA



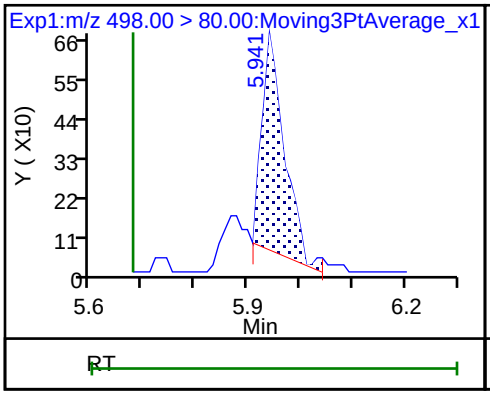
26 PFEESA (ND)



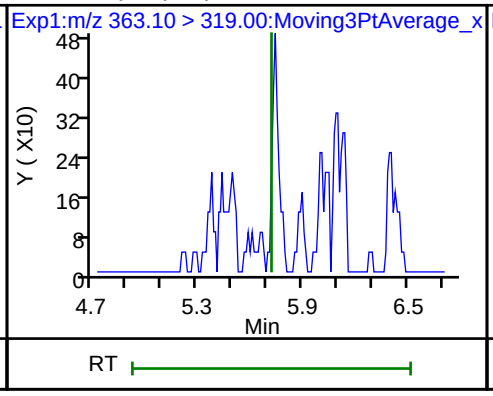
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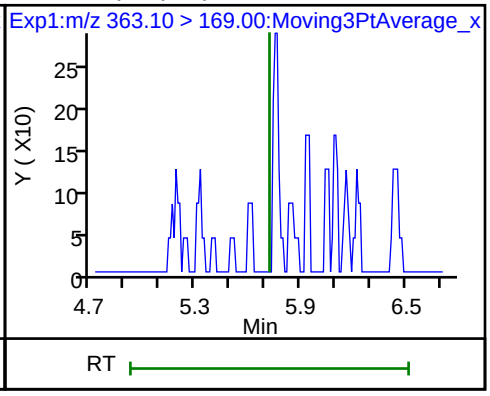
25 TDCA



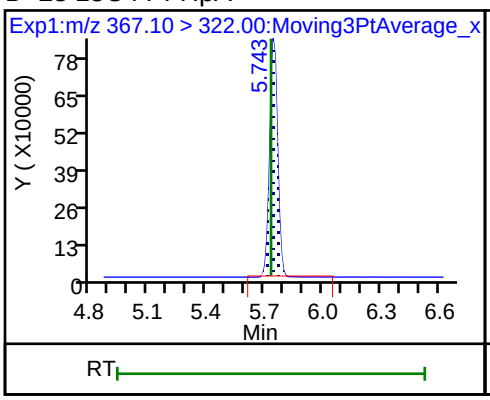
27 PFHpA (ND)



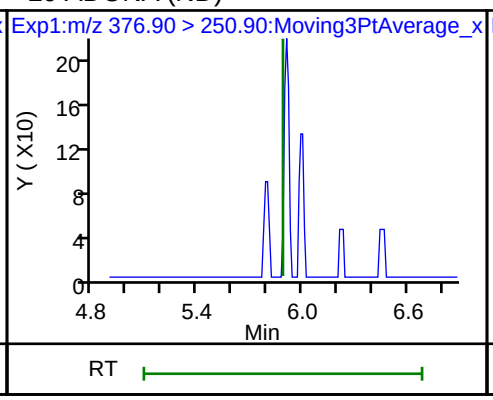
27 PFHpA (ND)



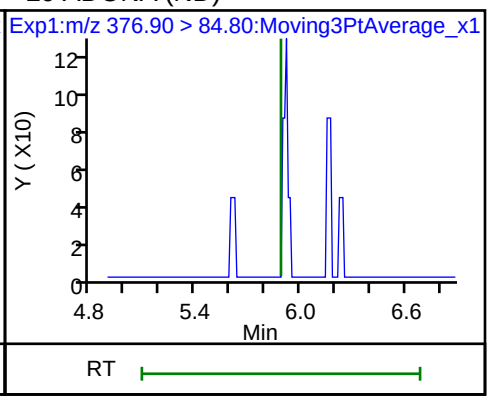
D 28 13C4 PFHpA



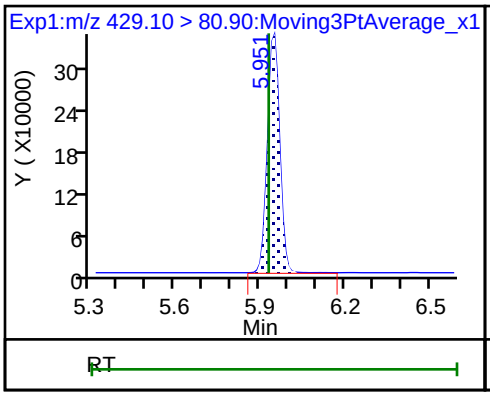
29 ADONA (ND)



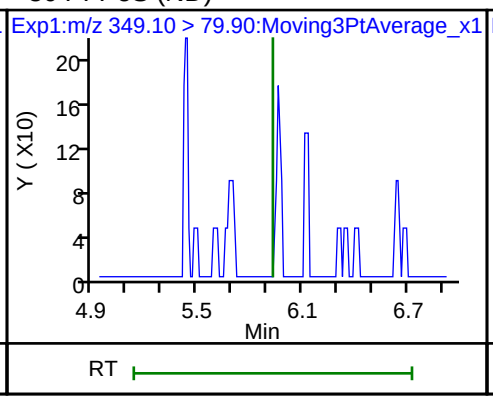
29 ADONA (ND)



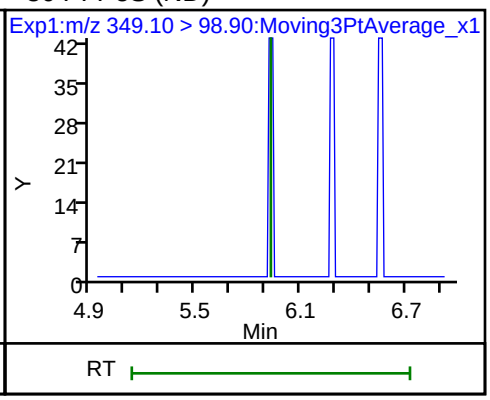
D 32 13C2-6:2FTS



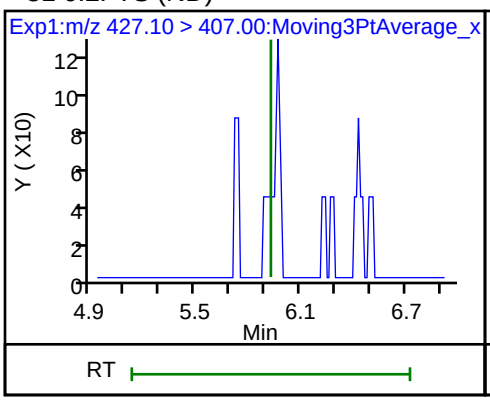
30 PFPeS (ND)



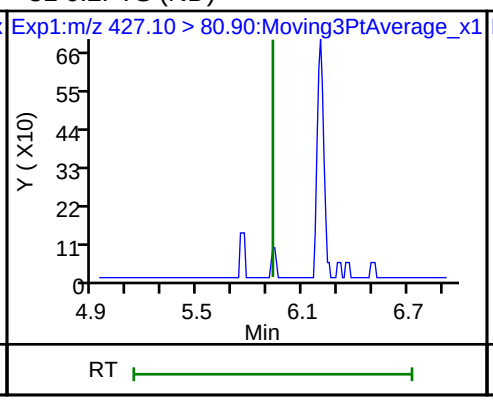
30 PFPeS (ND)



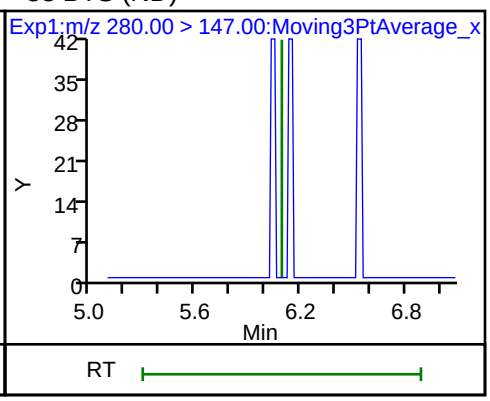
31 6:2FTS (ND)



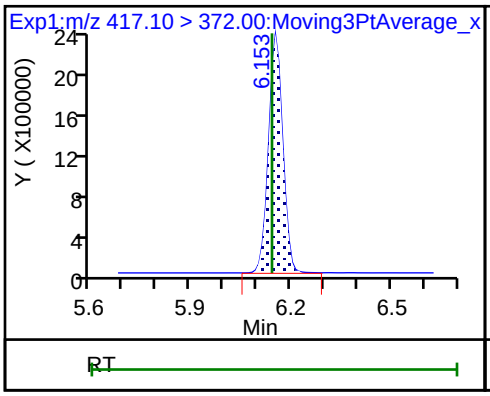
31 6:2FTS (ND)



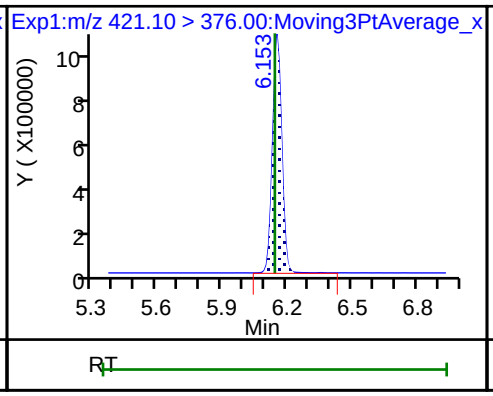
33 BTS (ND)



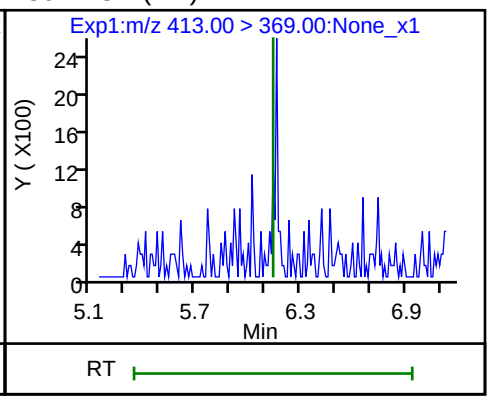
* 34 13C4 PFOA



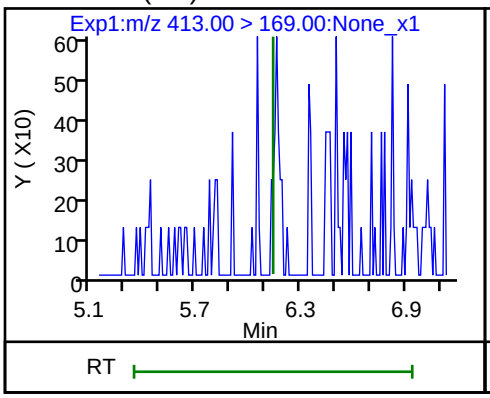
D 35 13C8 PFOA



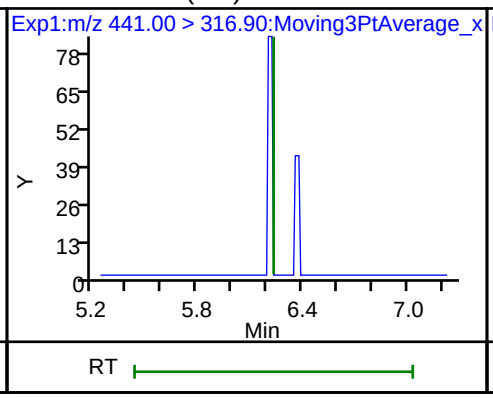
36 PFOA (ND)



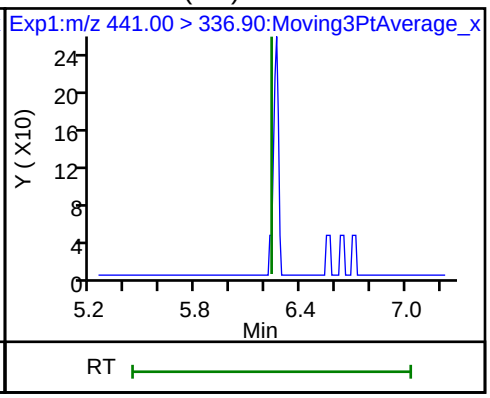
36 PFOA (ND)



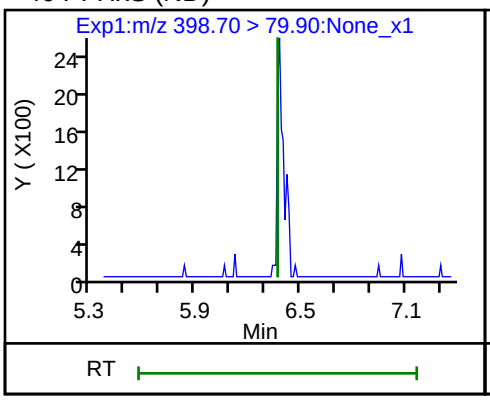
37 7:3 FTCA (ND)



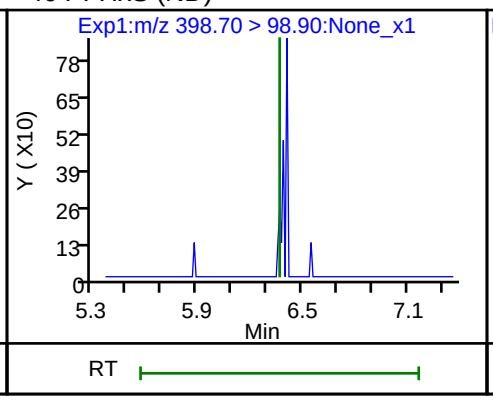
37 7:3 FTCA (ND)



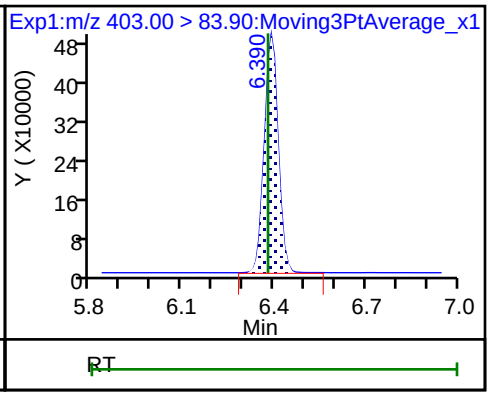
40 PFHxS (ND)



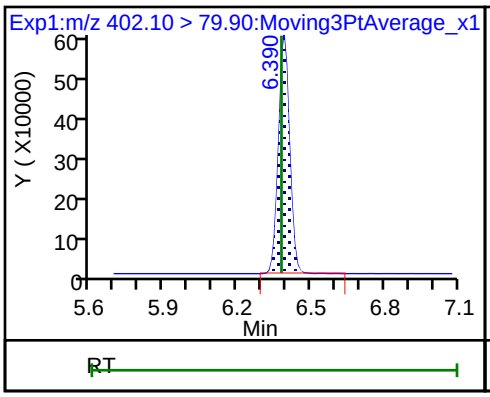
40 PFHxS (ND)



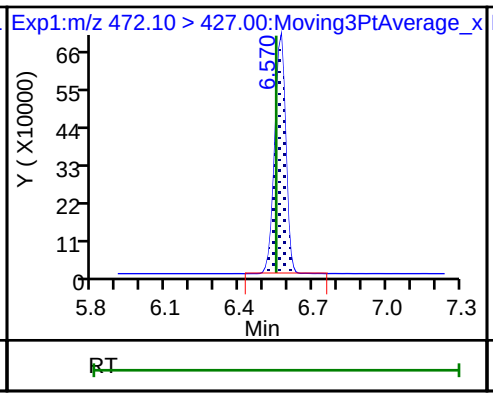
* 39 18O2 PFHxS



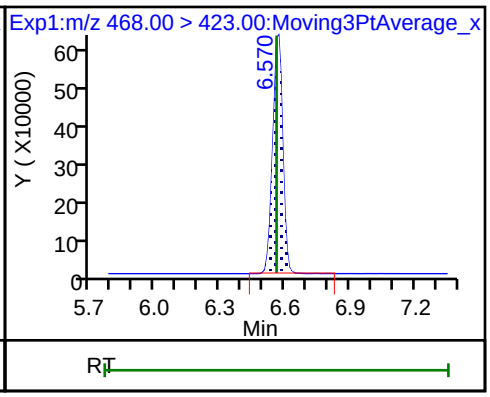
D 38 13C3 PFHxS



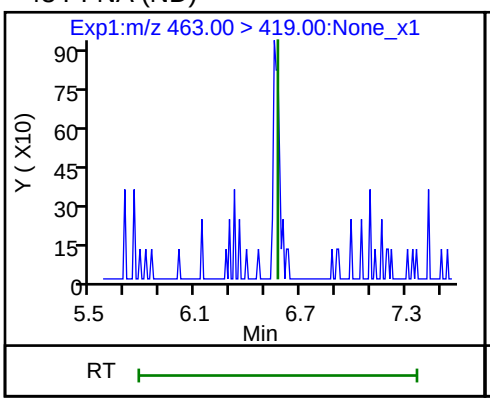
D 41 13C9 PFNA



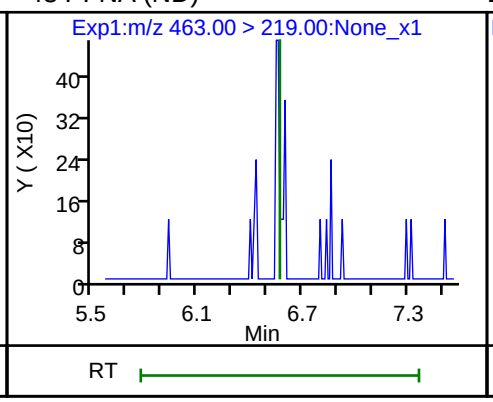
* 42 13C5 PFNA



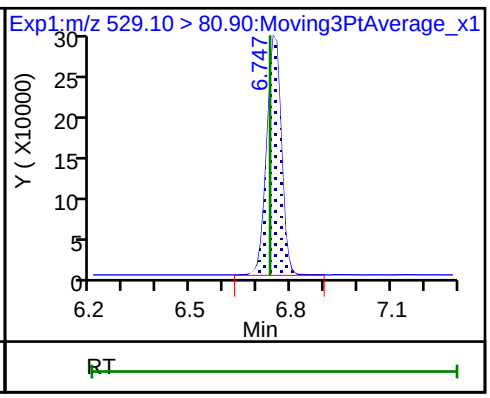
43 PFNA (ND)



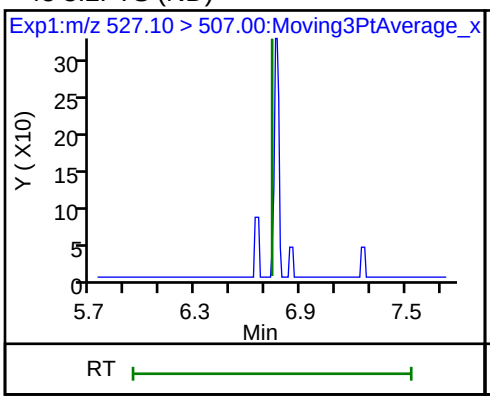
43 PFNA (ND)



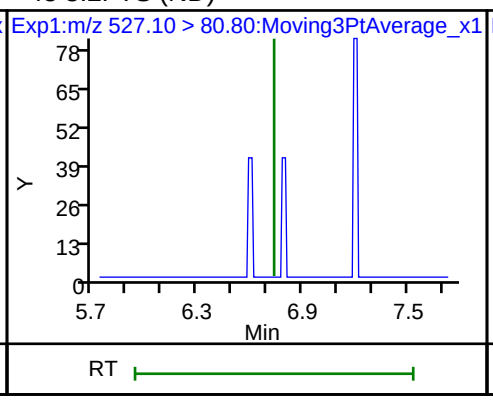
D 44 13C2-8:2FTS



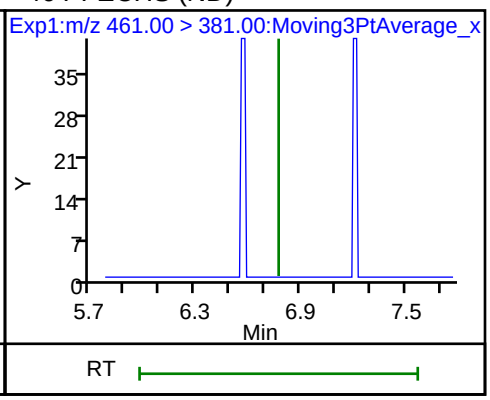
45 8:2FTS (ND)



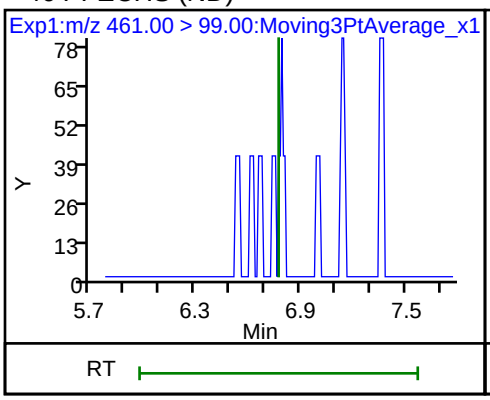
45 8:2FTS (ND)



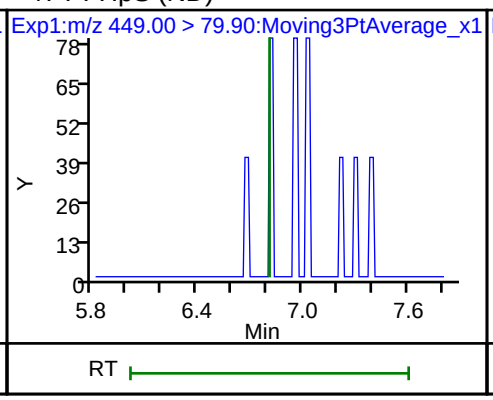
46 PFECHS (ND)



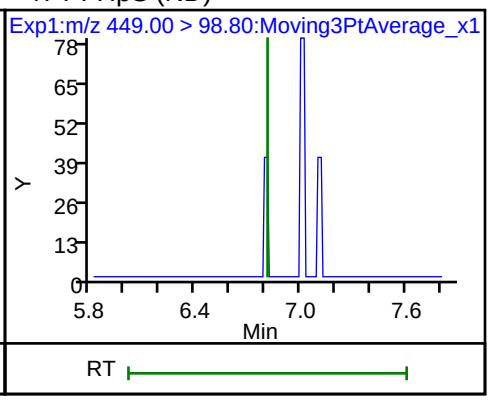
46 PFECHS (ND)



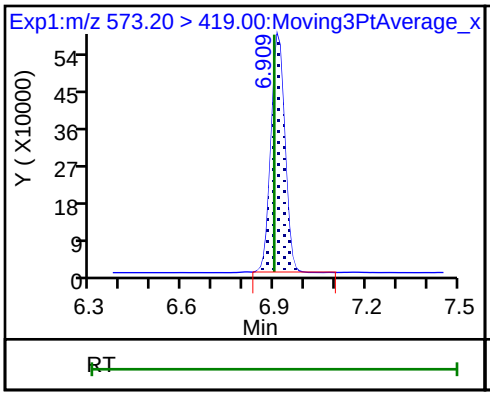
47 PFHpS (ND)



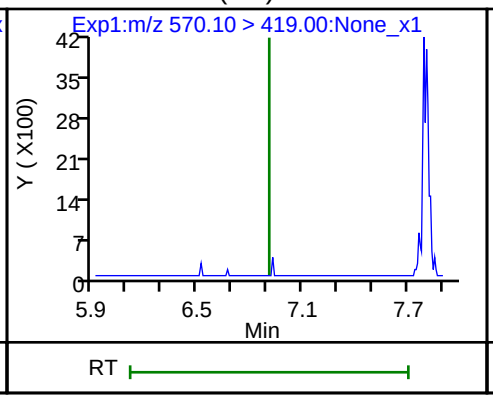
47 PFHpS (ND)



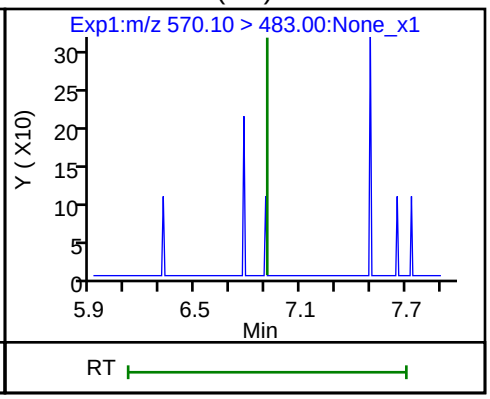
D 49 d3-NMeFOSAA



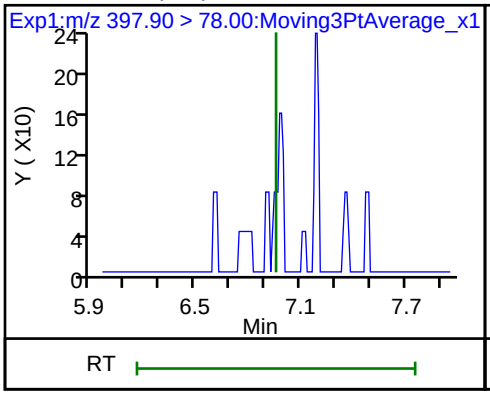
50 NMeFOSAA (ND)



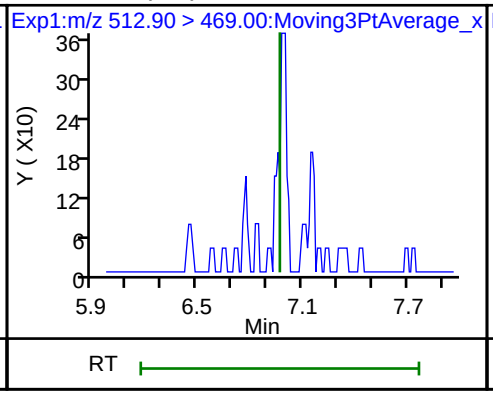
50 NMeFOSAA (ND)



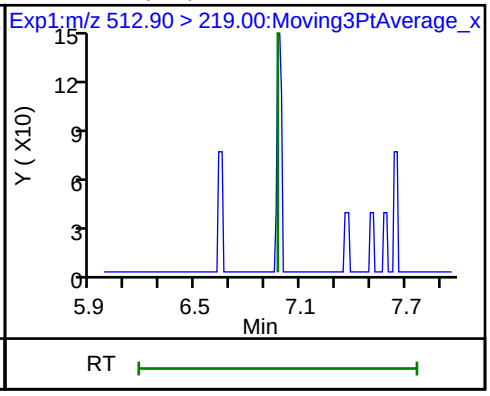
48 FHxSA (ND)



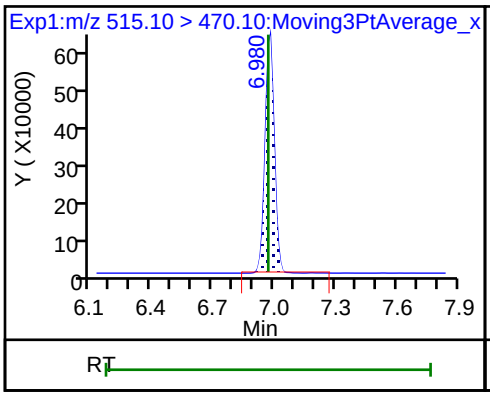
53 PFDA (ND)



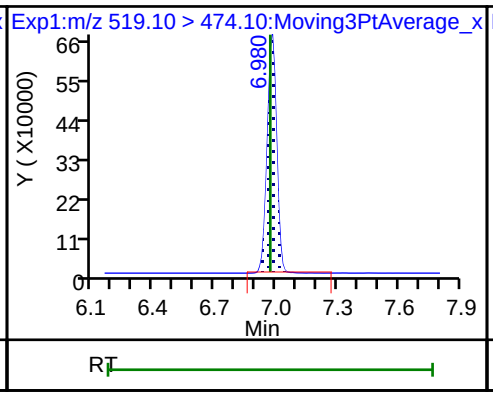
53 PFDA (ND)



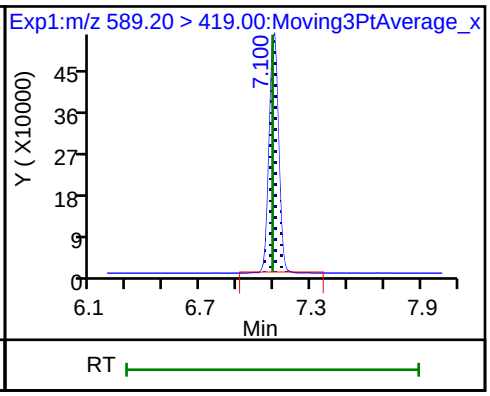
* 51 13C2 PFDA



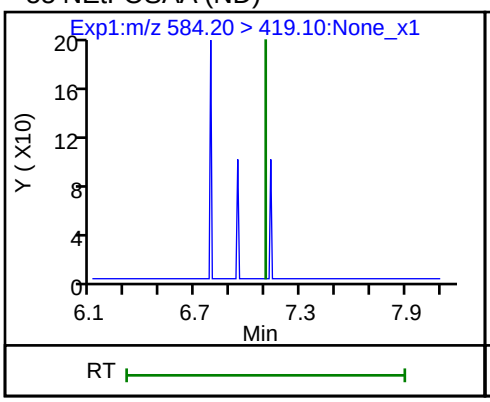
D 52 13C6 PFDA



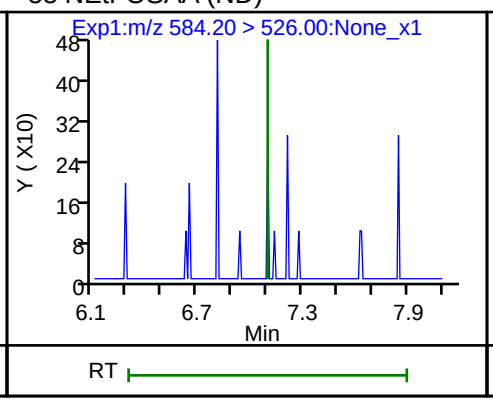
D 54 d5-NEtFOSAA



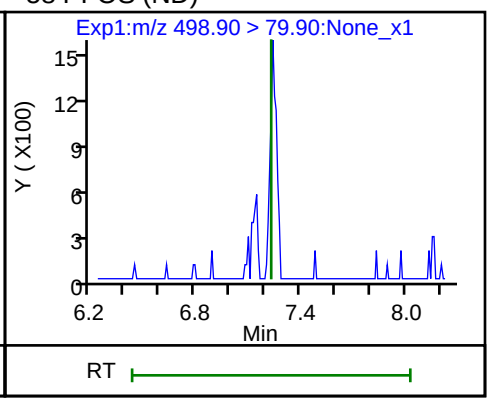
55 NEtFOSAA (ND)



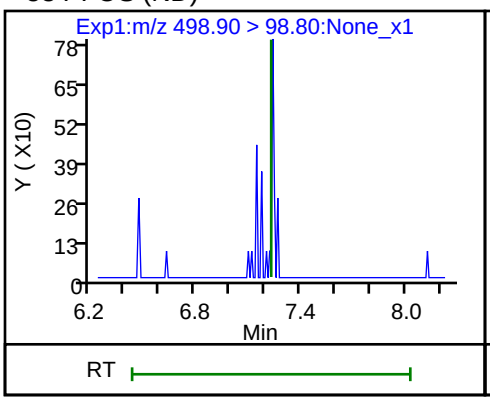
55 NEtFOSAA (ND)



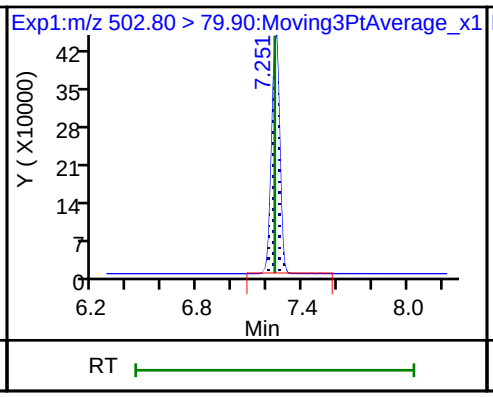
58 PFOS (ND)



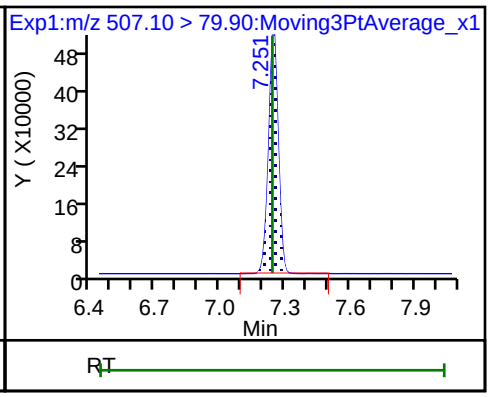
58 PFOS (ND)



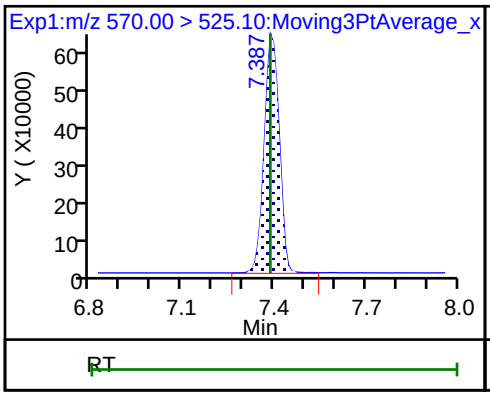
* 57 13C4 PFOS



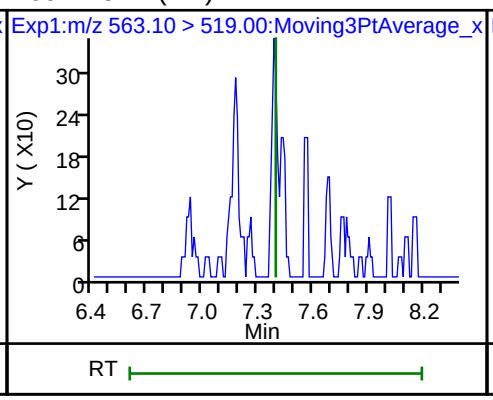
D 56 13C8 PFOS



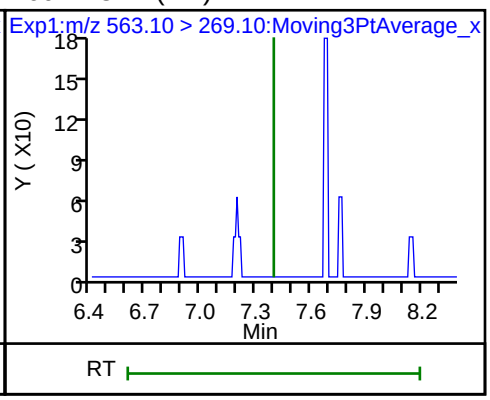
D 59 13C7 PFUnA



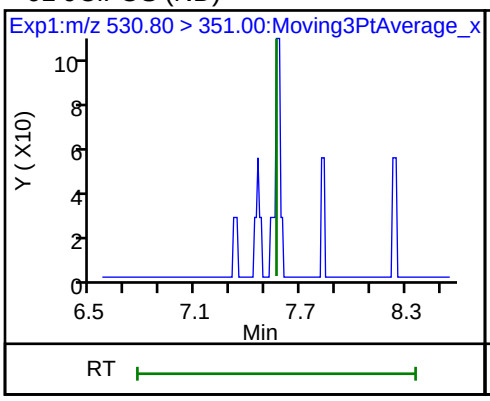
60 PFUnA (ND)



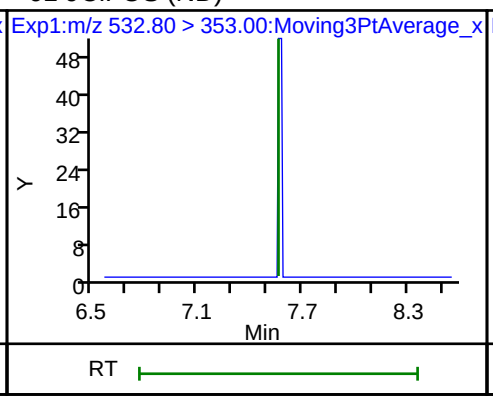
60 PFUnA (ND)



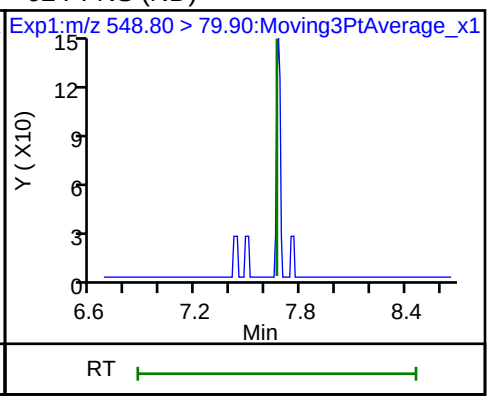
61 9ClFOS (ND)



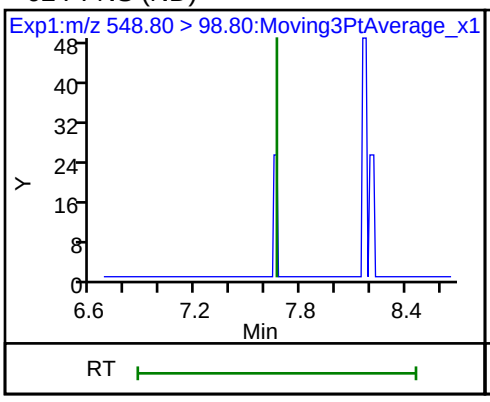
61 9ClFOS (ND)



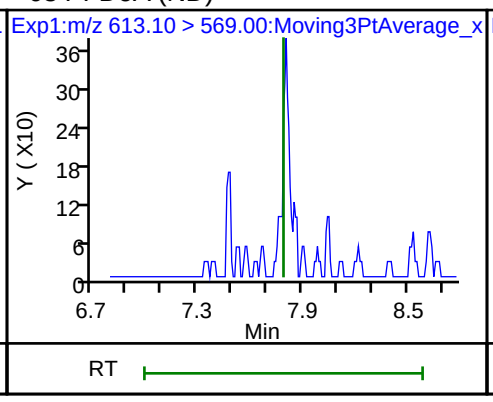
62 PFNS (ND)



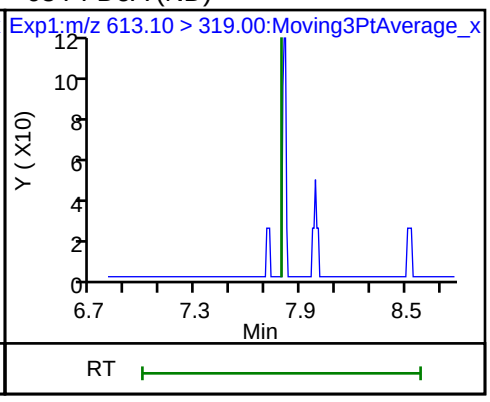
62 PFNS (ND)



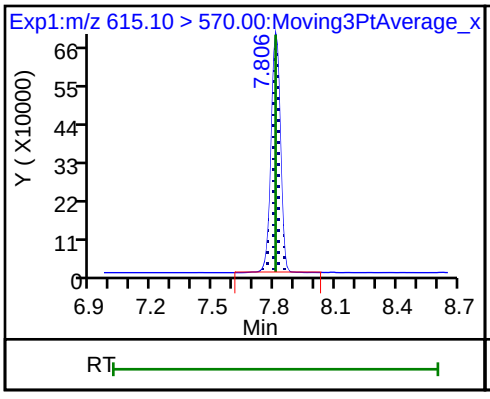
63 PFDoA (ND)



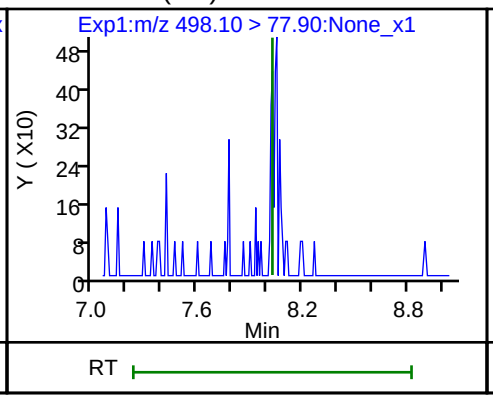
63 PFDoA (ND)



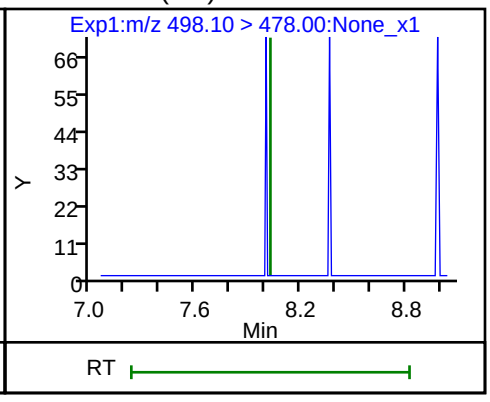
D 81 PFDoA



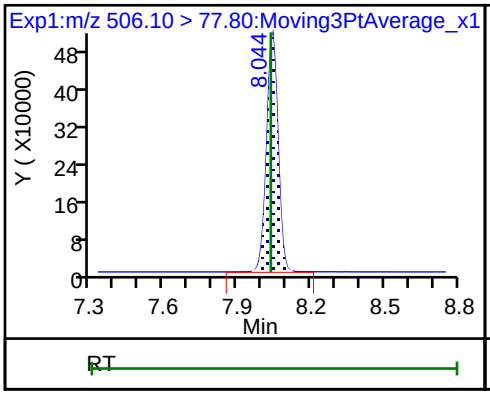
64 PFOSA (ND)



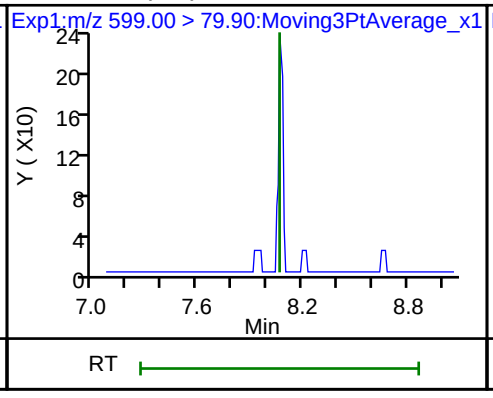
64 PFOSA (ND)



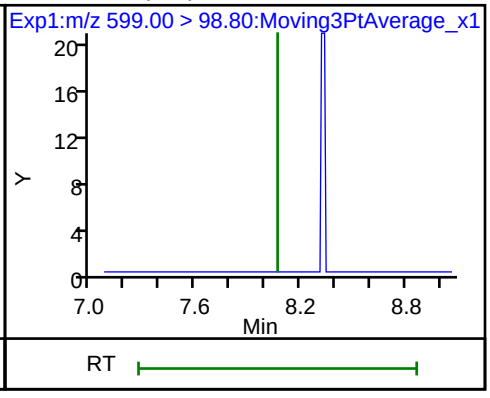
D 65 13C8 FOSA



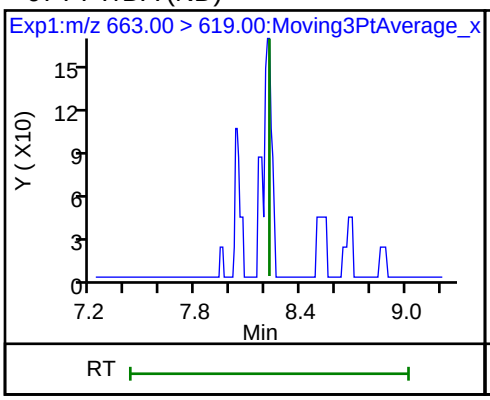
66 PFDS (ND)



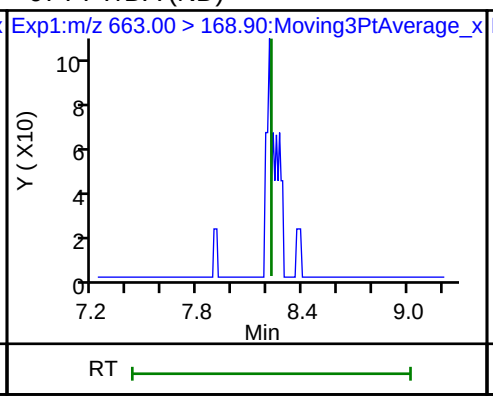
66 PFDS (ND)



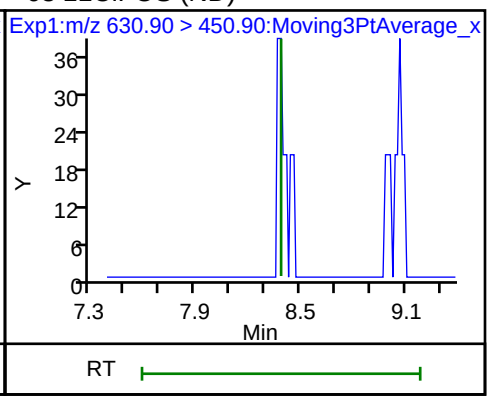
67 PFTrDA (ND)



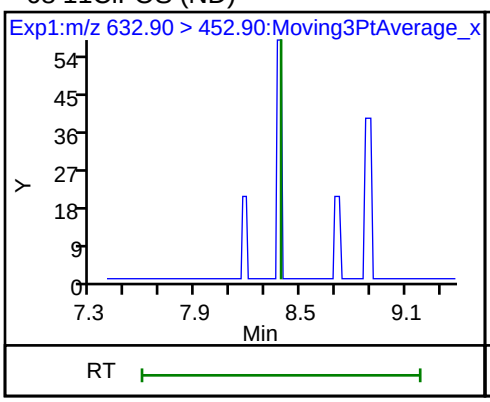
67 PFTrDA (ND)



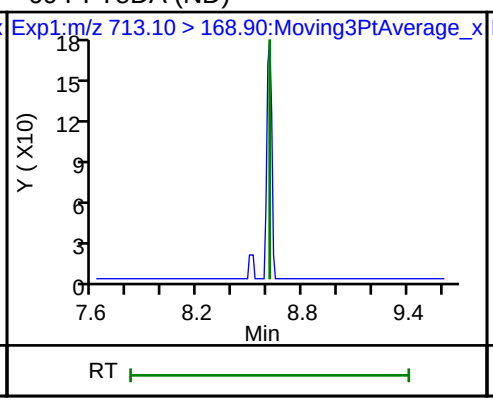
68 11ClFOS (ND)



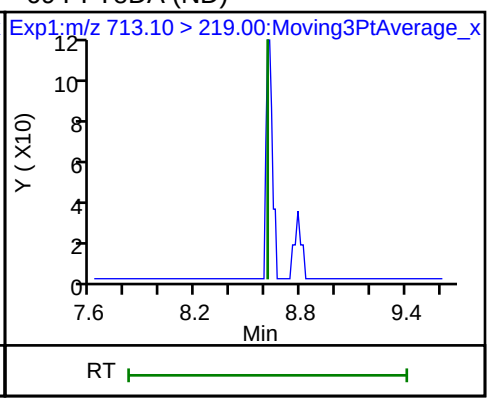
68 11ClFOS (ND)



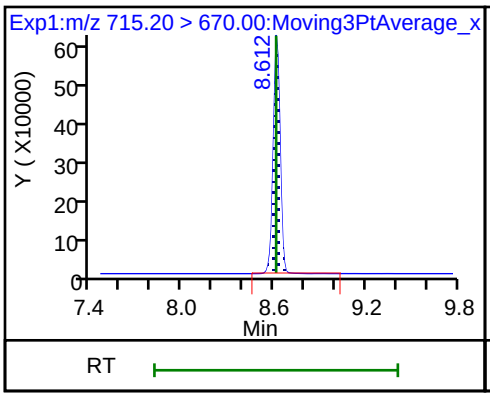
69 PFTeDA (ND)



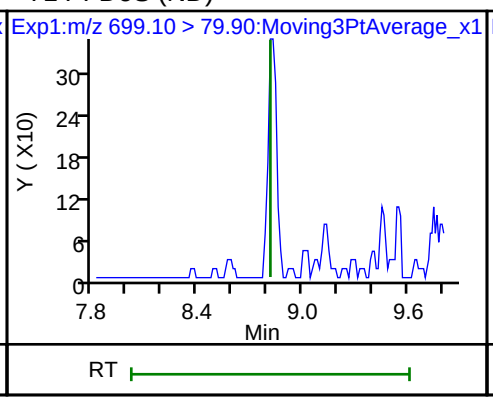
69 PFTeDA (ND)



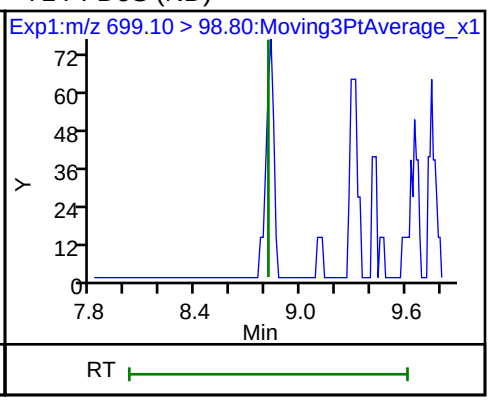
D 70 13C2 PFTeDA



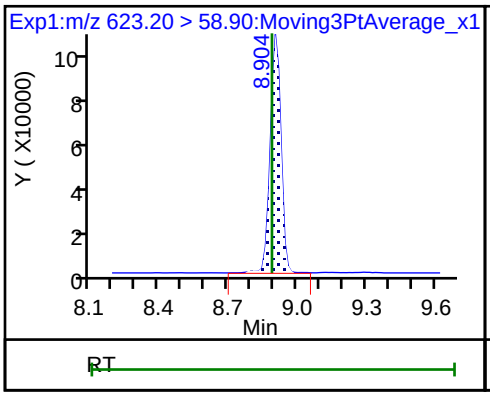
71 PFDoS (ND)



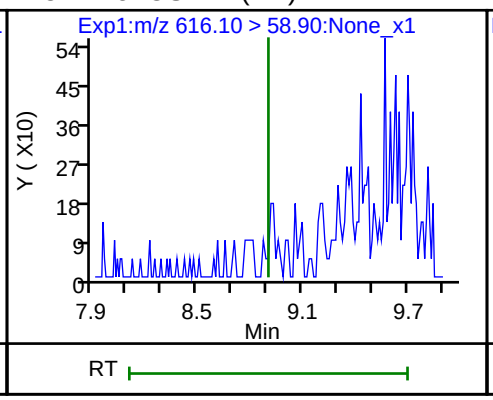
71 PFDoS (ND)



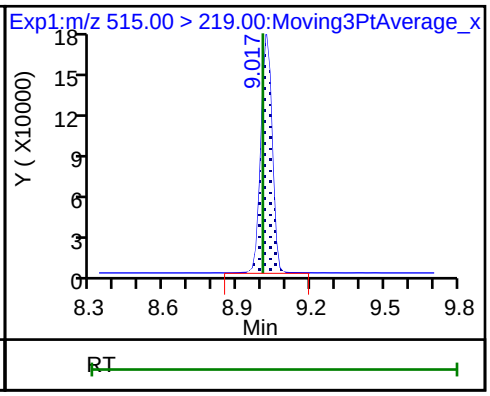
D 72 d7-N-Me-FOSE



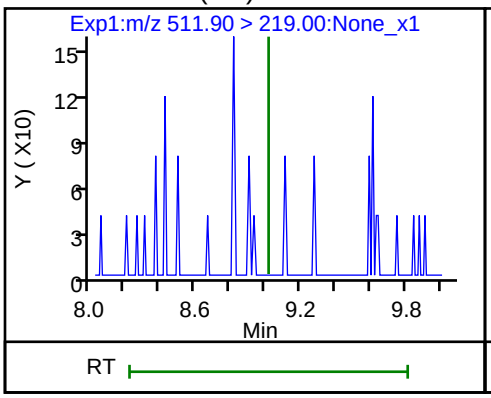
73 N-MeFOSE-M (ND)



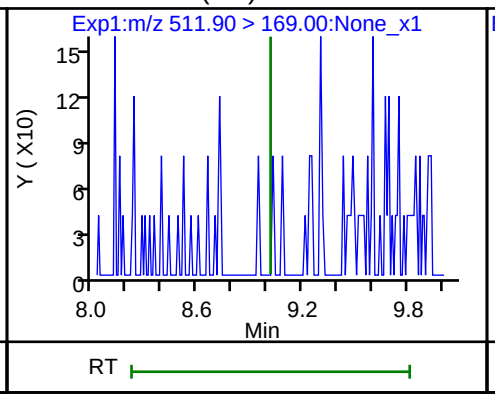
D 75 d3-NMePFOSA



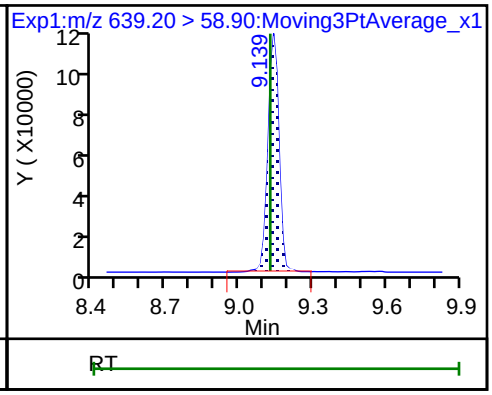
74 NMeFOSA (ND)



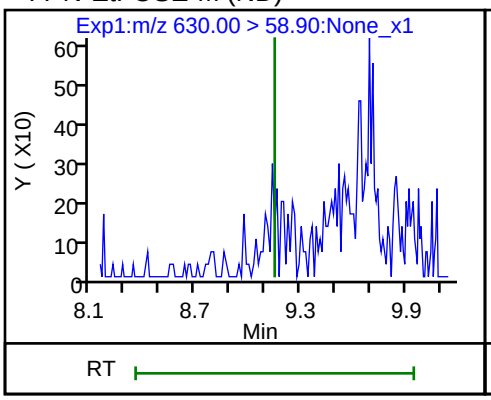
74 NMeFOSA (ND)



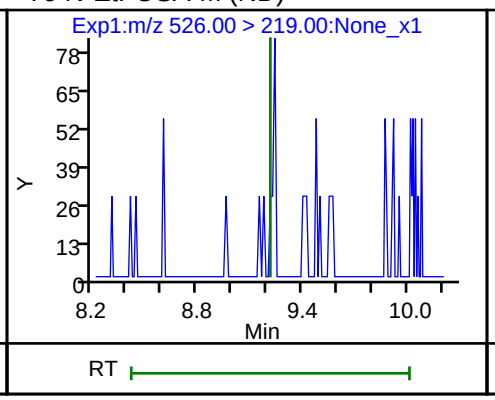
D 76 d9-N-EtFOSE



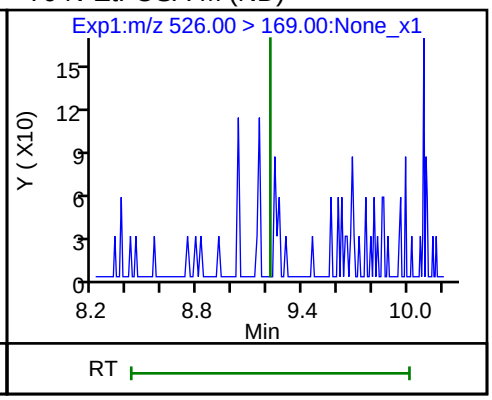
77 N-EtFOSE-M (ND)



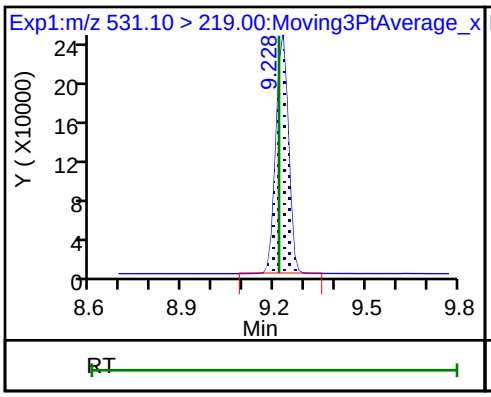
79 N-EtFOSA-M (ND)



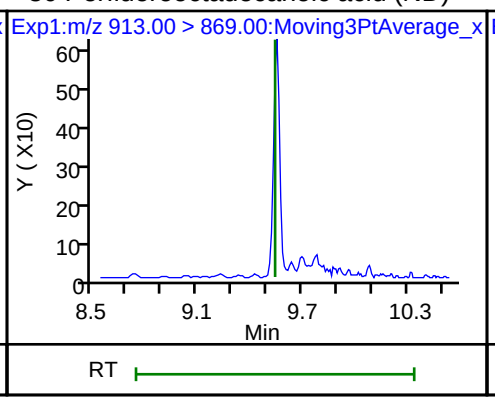
79 N-EtFOSA-M (ND)



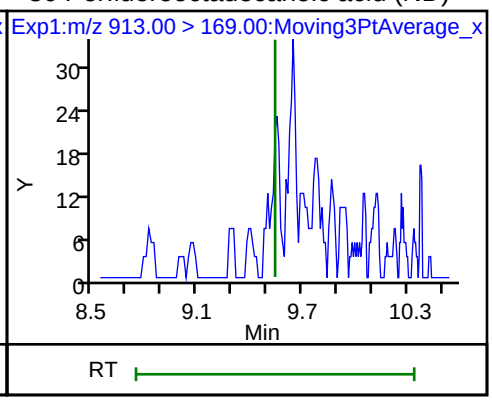
D 78 d5-NEtPFOSA



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-765196/152

Matrix: Solid
Lab File ID: 26FEB05JO-42.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/05/2026 22:34

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.010	U	0.010	0.0040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.010	U	0.010	0.0040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.010	U	0.010	0.0040
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.010	U	0.010	0.0040
335-67-1	Perfluorooctanoic acid (PFOA)	0.010	U	0.010	0.0040
375-95-1	Perfluorononanoic acid (PFNA)	0.010	U	0.010	0.0040
335-76-2	Perfluorodecanoic acid (PFDA)	0.010	U	0.010	0.0040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.010	U	0.010	0.0040
307-55-1	Perfluorododecanoic acid (PFDoA)	0.010	U	0.010	0.0040
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.010	U	0.010	0.0040
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.010	U	0.010	0.0040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.010	U	0.010	0.0040
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.010	U	0.010	0.0040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.010	U	0.010	0.0040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.010	U	0.010	0.0040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.010	U	0.010	0.0040
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.010	U	0.010	0.0040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.010	U	0.010	0.0040
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.010	U	0.010	0.0040
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.010	U	0.010	0.0040
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.010	U	0.010	0.0040
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.010	U	0.010	0.0040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.010	U	0.010	0.0040
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.010	U	0.010	0.0040
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-765196/152

Matrix: Solid
Lab File ID: 26FEB05JO-42.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/05/2026 22:34

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.010	U	0.010	0.0040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.010	U	0.010	0.0040
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.010	U	0.010	0.0040
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.010	U	0.010	0.0040
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.010	U	0.010	0.0040
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.010	U	0.010	0.0040
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.010	U	0.010	0.0040
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.010	U	0.010	0.0040
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.010	U	0.010	0.0040
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.010	U	0.010	0.0040
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.010	U	0.010	0.0040
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.010	U	0.010	0.0040
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.010	U	0.010	0.0040
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.010	U	0.010	0.0040
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-765196/152

Matrix: Solid
Lab File ID: 26FEB05JO-42.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/05/2026 22:34

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	105		8-130
2283397-79-3	13C5 PFPeA	111		35-130
2328024-54-8	13C5 PFHxA	104		40-130
2328024-55-9	13C4 PFHpA	101		40-130
1350614-84-4	13C8 PFOA	113		40-130
2283397-80-6	13C9 PFNA	103		40-130
2328024-56-0	13C6 PFDA	114		40-130
STL02580	13C7 PFUnA	125		40-130
STL02116	13C2 PFTeDA	105		20-130
2708218-83-9	13C3 PFBS	104		40-135
2708218-85-1	13C3 PFHxS	102		40-130
2265893-05-6	13C8 PFOS	104		40-130
STL01056	13C8 FOSA	102		40-130
1400690-70-1	d3-NMeFOSAA	96.2		40-135
1265205-97-7	d5-NEtFOSAA	107		40-150
STL02395	13C2 4:2 FTS	98.5		40-165
STL02279	13C2 6:2 FTS	115		40-215
STL02280	13C2 8:2 FTS	91.1		40-275
STL02255	13C3 HFPO-DA	95.1		40-130
STL02277	d7-N-MeFOSE-M	105		20-130
STL02278	d9-N-EtFOSE-M	106		15-130
STL02704	d5-NEtPFOSA	98.7		10-130
STL02705	d3-NMePFOSA	99.0		10-130
960315-52-0	13C2 PFDoA	110		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-42.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 05-Feb-2026 22:34:22 ALS Bottle#: 1 Worklist Smp#: 152
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: Plate: 1 Rack: 1 410-0174796-152
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:57:01 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:54:55
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.026	2.018	0.008	0.482	1308116	2.04		102	2545	
D 4 13C4-PFBA										
216.80 > 171.90	4.208	4.187	0.021	1.000	1813564	2.09		105	4110	
* 5 13C3PFBA										
216.00 > 172.00	4.208	4.187	0.021		1687933	2.00			3983	
D 8 13C5 PFPeA										
268.30 > 223.00	4.850	4.844	0.006	0.913	1898075	2.23		111	3865	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.129	5.121	0.008	0.804	989413	4.62		98.5	5151	
D 15 13C5 PFHxA										
318.00 > 273.00	5.312	5.303	0.009	1.000	2158227	2.09		104	5687	
* 16 13C2 PFHxA										
315.10 > 270.00	5.312	5.303	0.009		4883233	5.00			7197	
D 19 13C3 PFBS										
302.10 > 79.90	5.445	5.437	0.008	0.854	2227534	1.94		104	3910	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.495	5.486	0.009	1.034	1339793	1.90		95.1	4364	
24 TCDCA										
498.10 > 80.00	5.939	5.553	0.386	0.821	3479	NR			30.6	
25 TDCA										
498.00 > 80.00	5.928	5.679	0.249	0.820	2515	NR			28.4	
D 28 13C4 PFHpA										
367.10 > 322.00	5.731	5.732	-0.001	1.079	2050006	2.03		101	3136	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.939	5.930	0.009	0.931	987835	5.46		115	2516	
* 34 13C4 PFOA										
417.10 > 372.00	6.141	6.143	-0.002		6591745	5.00			4369	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.141	6.143	-0.002	1.000	3038181	2.26		113	5258	
* 39 18O2 PFHxS										
403.00 > 83.90	6.378	6.379	-0.001		1711086	1.90			5699	
D 38 13C3 PFHxS										
402.10 > 79.90	6.378	6.379	-0.001	1.000	1874568	1.93		102	4561	
D 41 13C9 PFNA										
472.10 > 427.00	6.557	6.549	0.008	1.000	2268651	2.06		103	3585	
* 42 13C5 PFNA										
468.00 > 423.00	6.557	6.560	-0.003		2123491	2.00			4169	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.734	6.737	-0.003	1.056	817426	4.37		91.1	2251	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.897	6.899	-0.002	0.954	1817599	4.81		96.2	2898	
D 52 13C6 PFDA										
519.10 > 474.10	6.967	6.970	-0.003	1.000	2280180	2.27		114	4497	
* 51 13C2 PFDA										
515.10 > 470.10	6.967	6.970	-0.003		2035717	2.00			5964	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.088	7.090	-0.002	0.980	1741043	5.34		107	2163	
* 57 13C4 PFOS										
502.80 > 79.90	7.230	7.241	-0.011		1403635	1.92			4017	
D 56 13C8 PFOS										
507.10 > 79.90	7.230	7.241	-0.011	1.000	1617225	1.98		104	6160	
D 59 13C7 PFUnA										
570.00 > 525.10	7.384	7.387	-0.003	1.060	2501386	2.50		125	5708	
D 81 PFDoA										
615.10 > 570.00	7.796	7.806	-0.010	1.119	2121131	2.21		110	4395	
D 65 13C8 FOSA										
506.10 > 77.80	8.033	8.035	-0.002	1.111	1720734	2.05		102	3829	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.599	8.611	-0.012	1.234	1815547	2.10		105	4604	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.903	8.889	0.014	1.231	354916	5.26		105	822	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.002	9.002	0.0	1.245	528128	1.98		99.0	4003	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.124	9.125	-0.001	1.262	385111	5.29		106	898	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.214	9.215	-0.001	1.274	676362	1.97		98.7	3439	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00511	Amount Added: 50.00	Units: uL
1633_125_SS_00162	Amount Added: 5.00	Units: uL

Report Date: 05-Feb-2026 22:57:10 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-42.d

Injection Date: 05-Feb-2026 22:34:22 Instrument ID: 30577

Lims ID: CCB

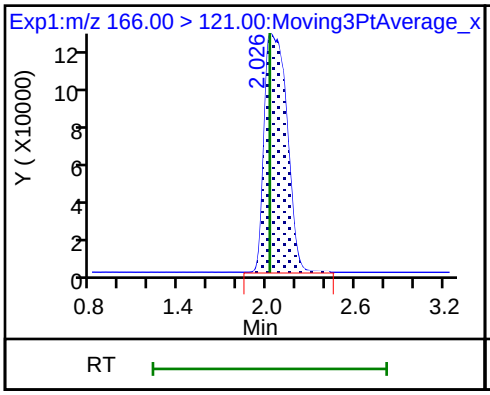
Client ID:

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 1 Worklist Smp#: 152

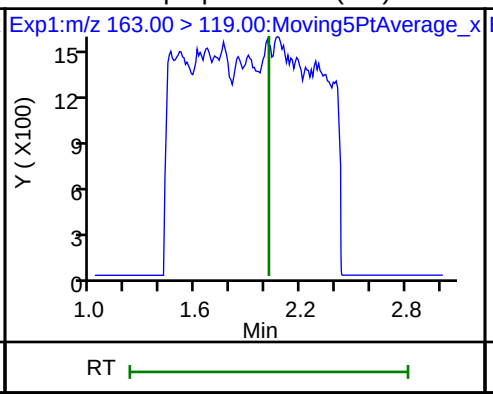
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

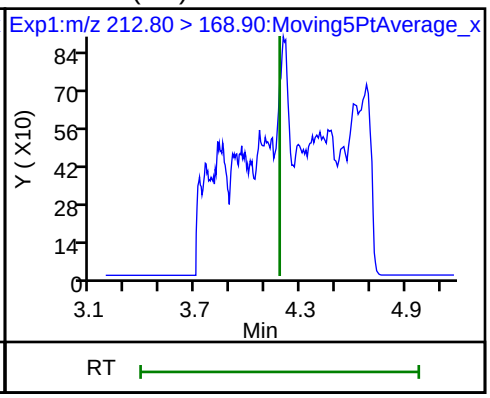
D 1 13C3PFPrA



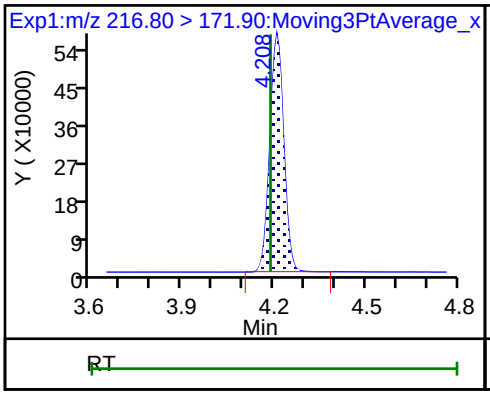
2 Perfluoropropionic acid (ND)



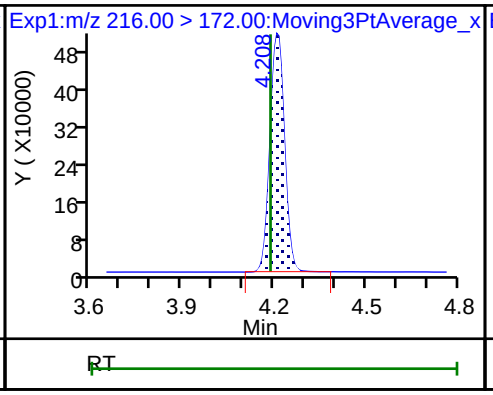
3 PFBA (ND)



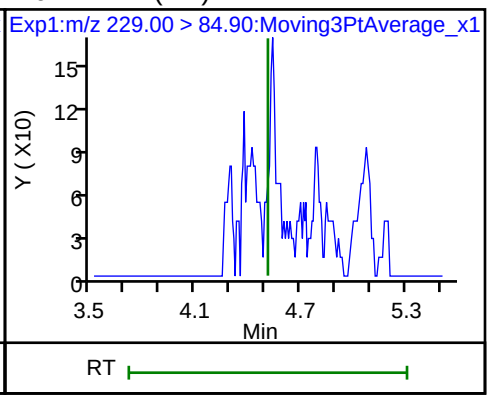
D 4 13C4-PFBA



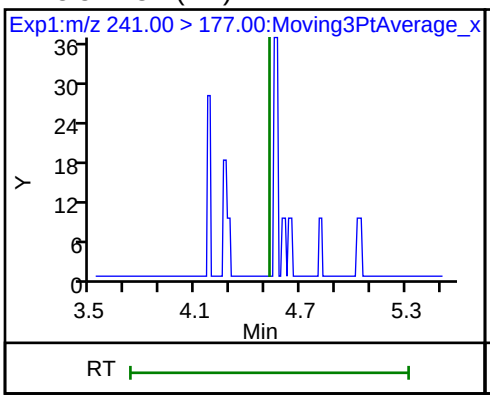
* 5 13C3PFBA



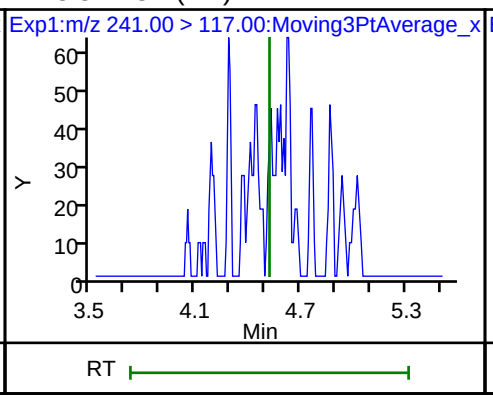
6 PFMPA (ND)



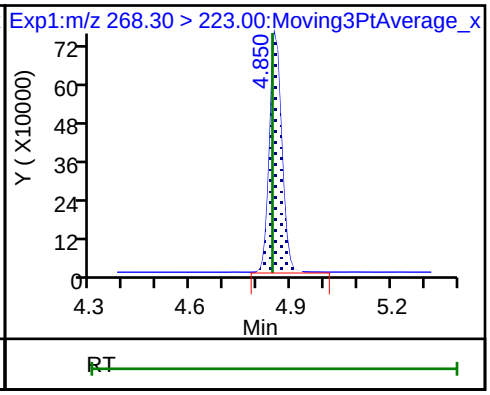
7 3:3 FTCA (ND)



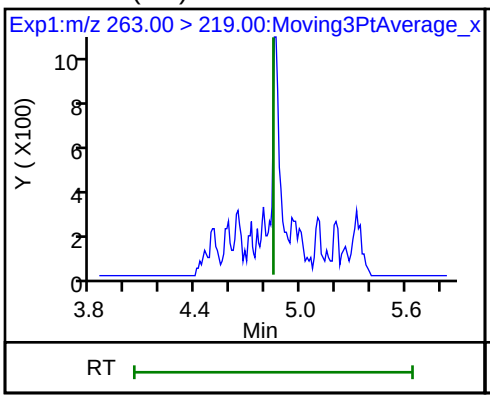
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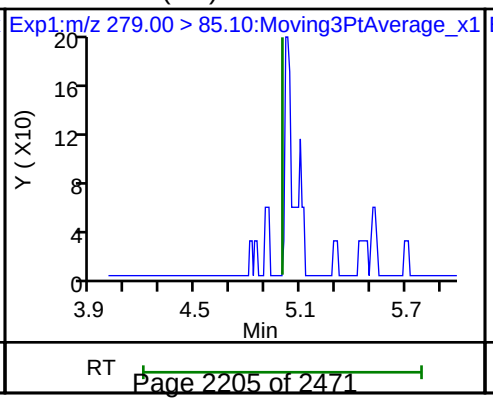
D 8 13C5 PFPeA



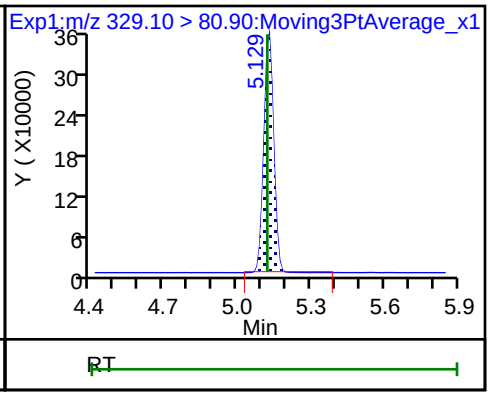
9 PFPA (ND)



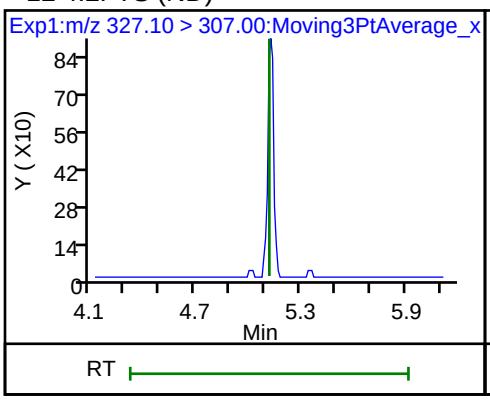
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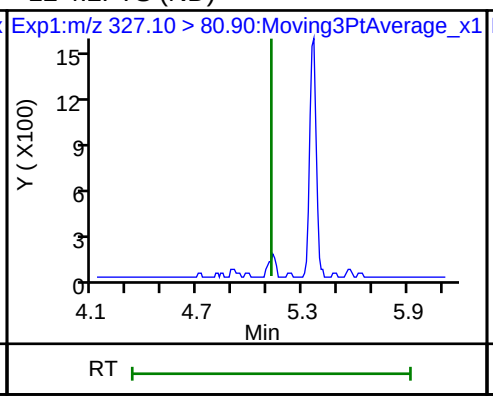
D 11 13C2-4:2FTS



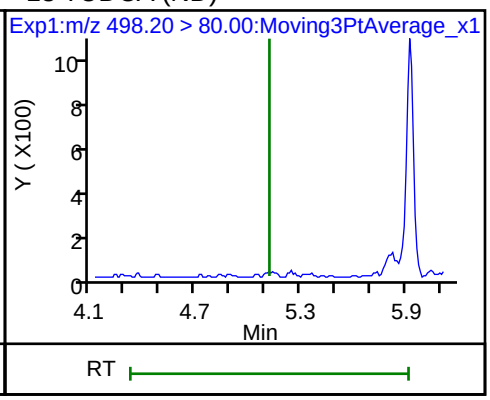
12 4:2FTS (ND)



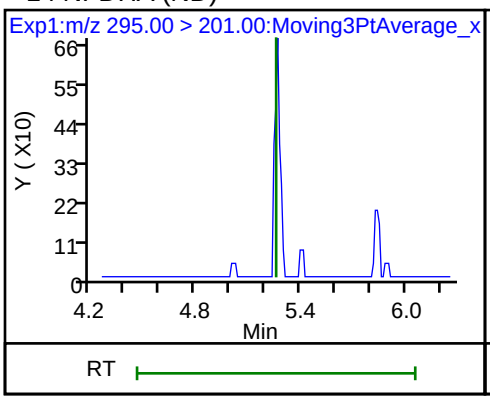
12 4:2FTS (ND)



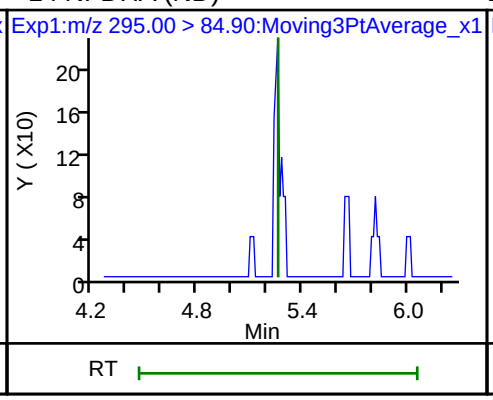
13 TUDCA (ND)



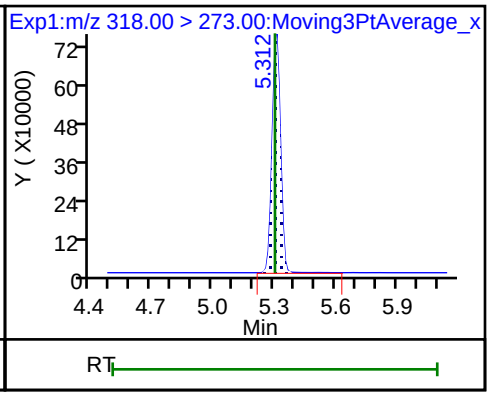
14 NFDHA (ND)



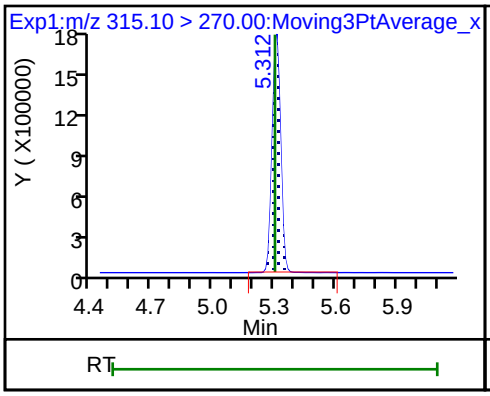
14 NFDHA (ND)



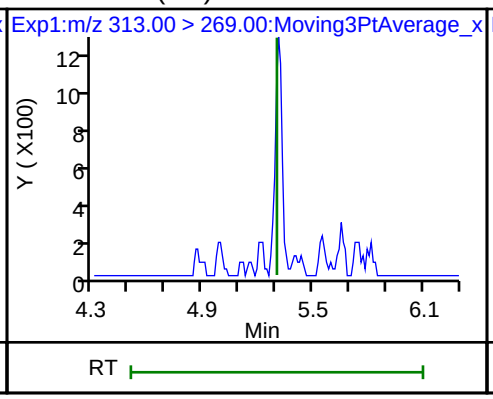
D 15 13C5 PFHxA



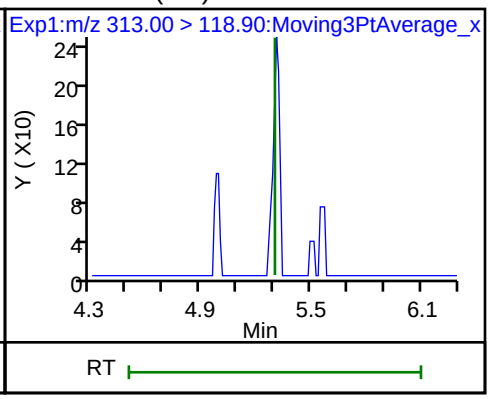
* 16 13C2 PFHxA



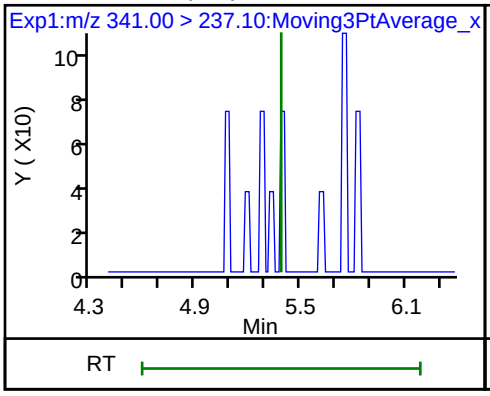
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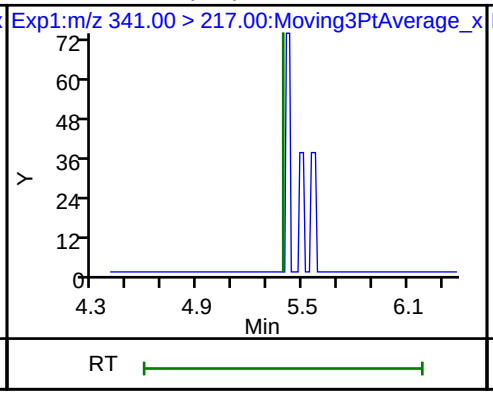
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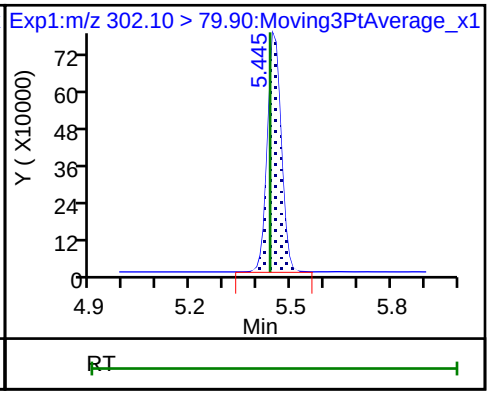
18 5:3 FTCA (ND)



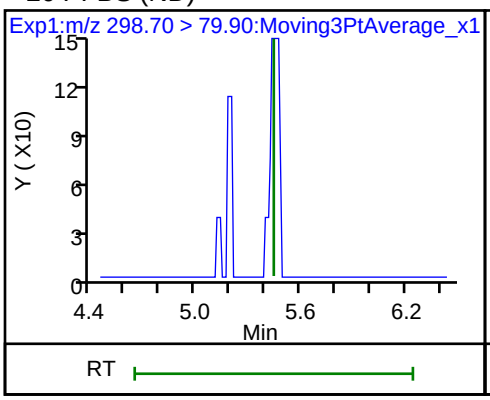
18 5:3 FTCA (ND)



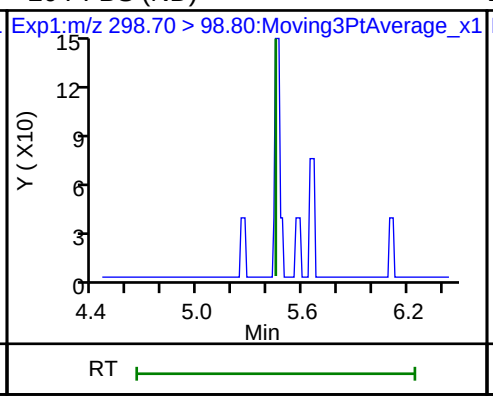
D 19 13C3 PFBS



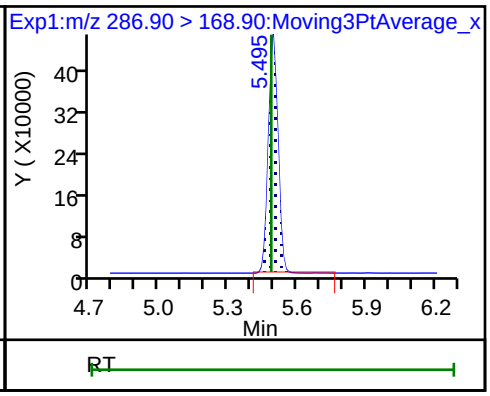
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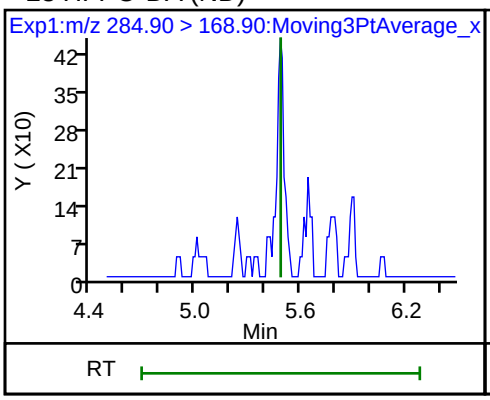
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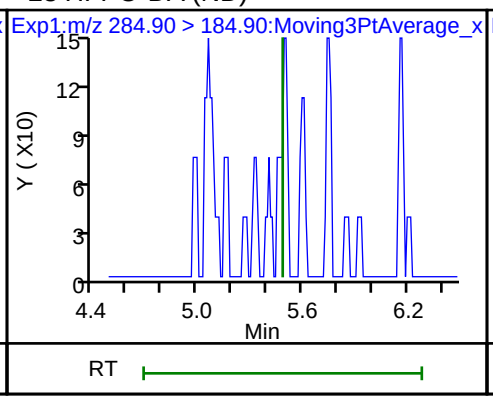
D 22 13C3 HFPO-DA



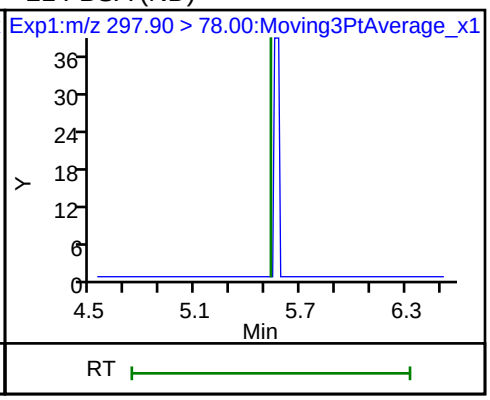
23 HFPO-DA (ND)



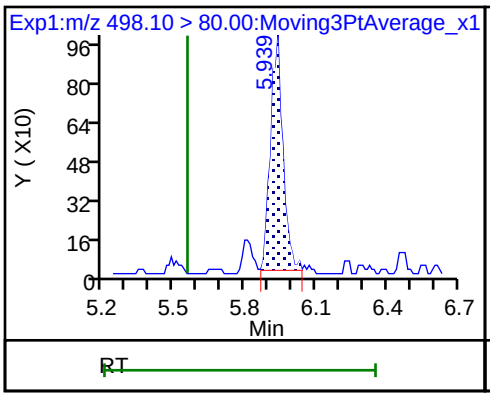
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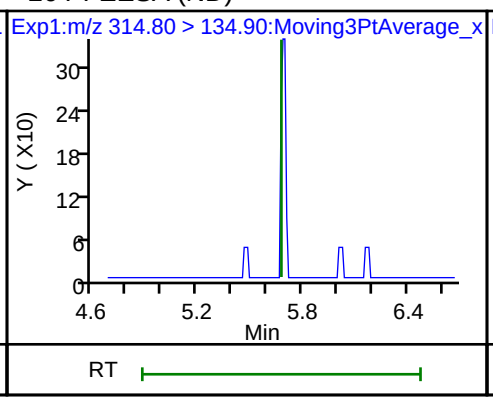
21 FBSA (ND)



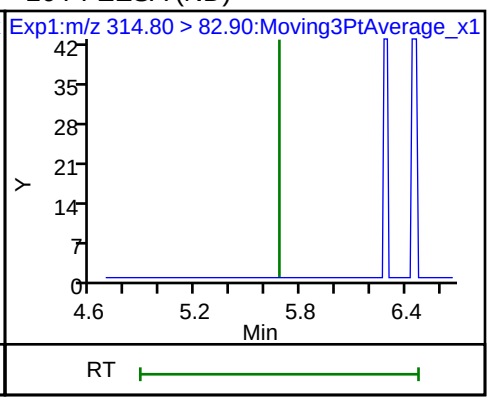
24 TCDCA



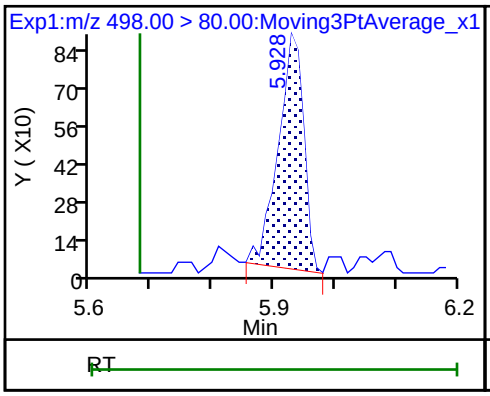
26 PFEESA (ND)



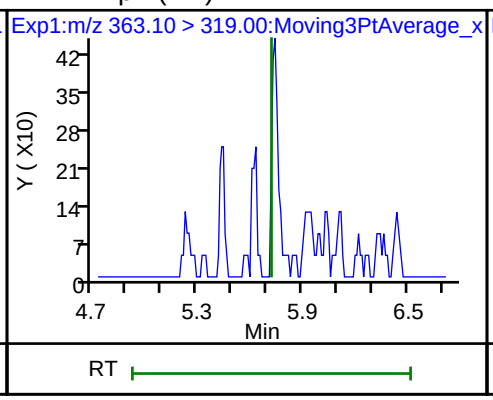
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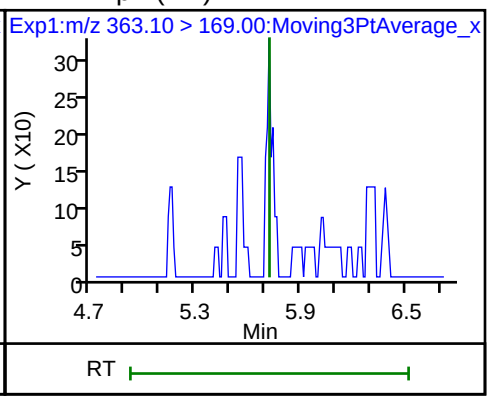
25 TDCA



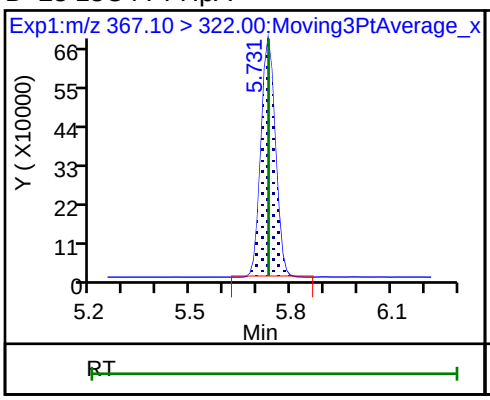
27 PFHpA (ND)



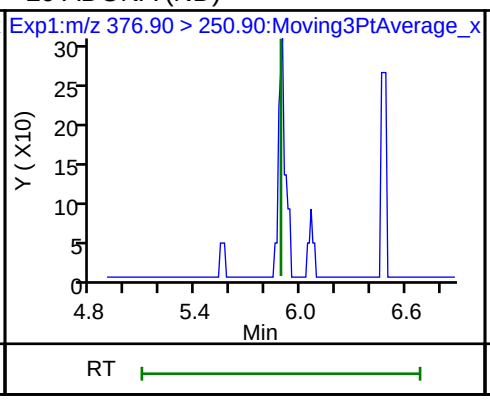
27 PFHpA (ND)



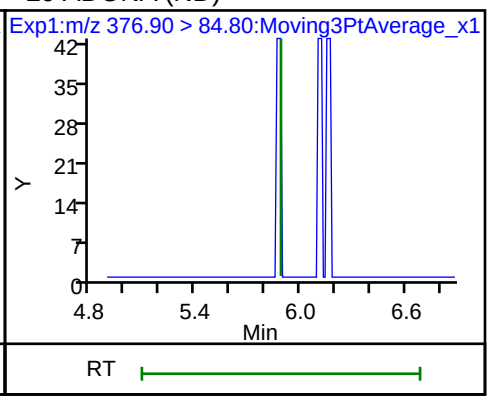
D 28 13C4 PFHpA



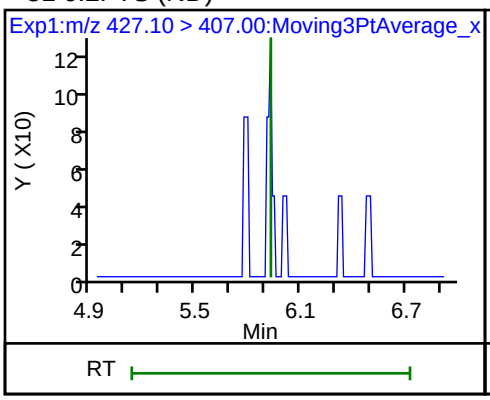
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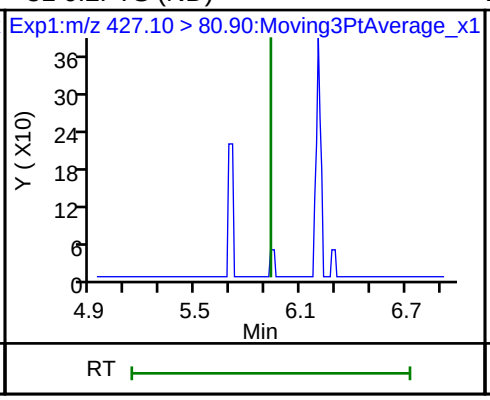
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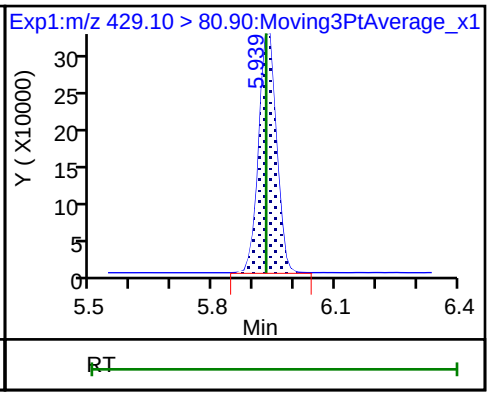
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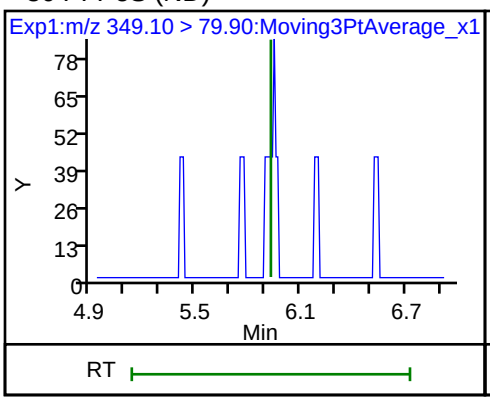
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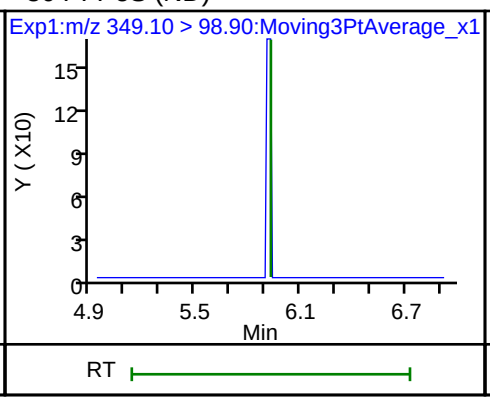
D 32 13C2-6:2FTS



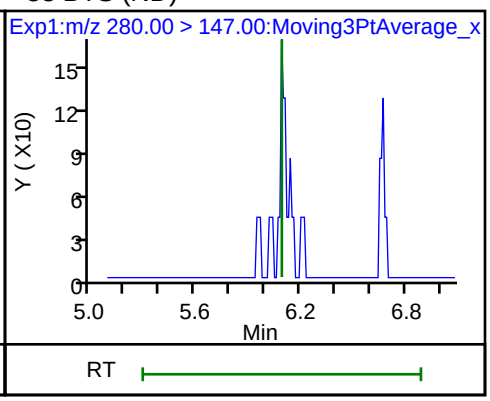
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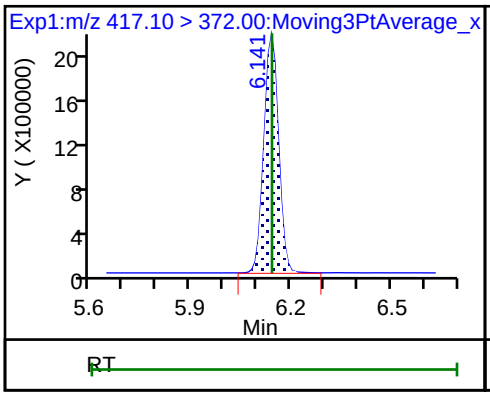
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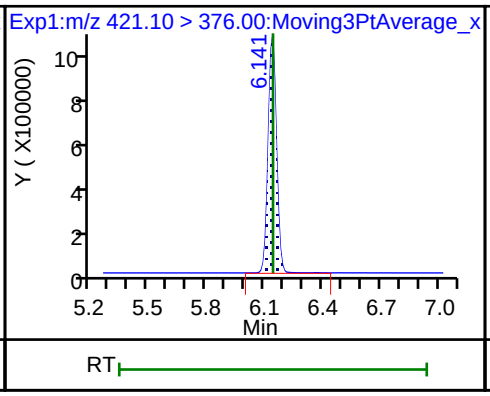
33 BTS (ND)



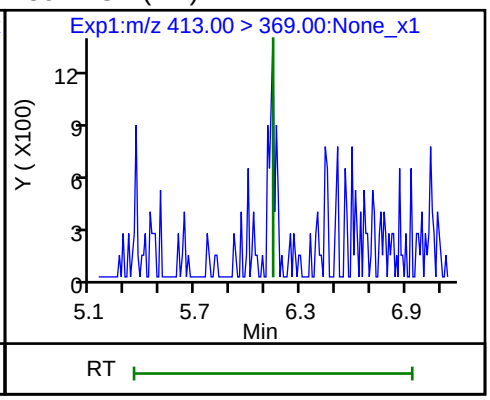
* 34 13C4 PFOA



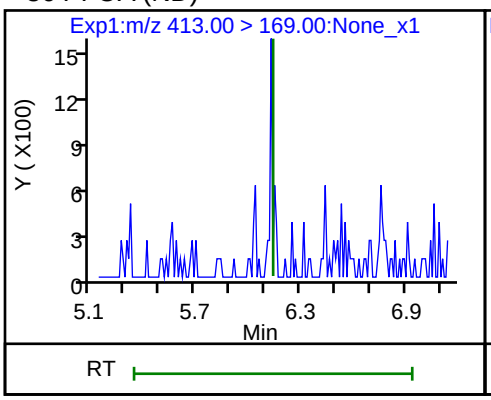
D 35 13C8 PFOA



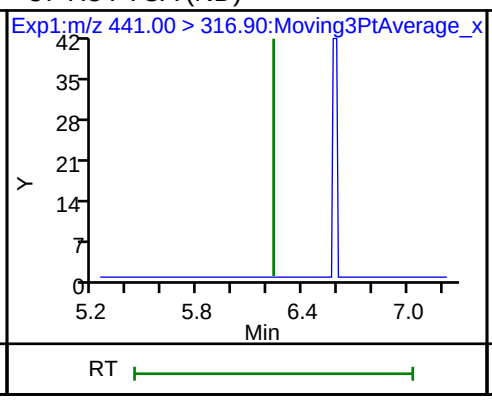
36 PFOA (ND)



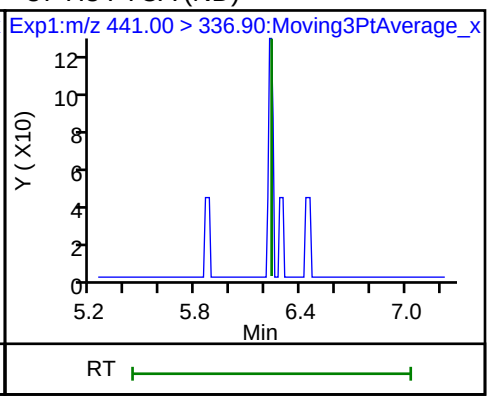
36 PFOA (ND)



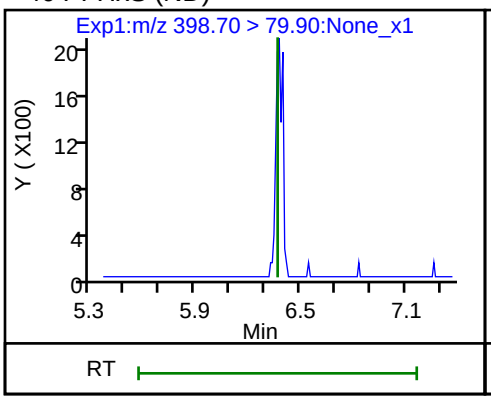
37 7:3 FTCA (ND)



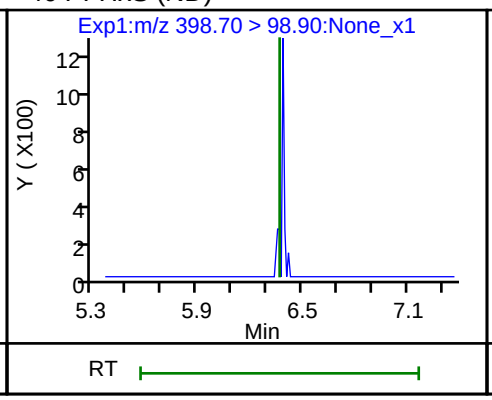
37 7:3 FTCA (ND)



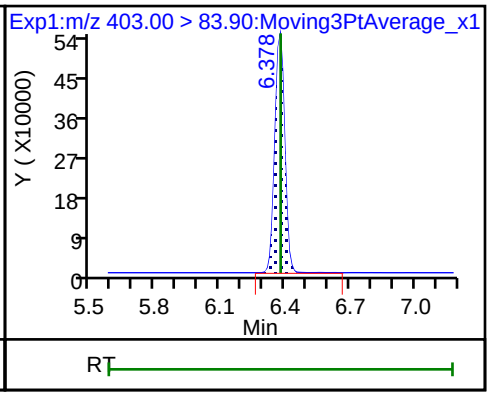
40 PFHxS (ND)



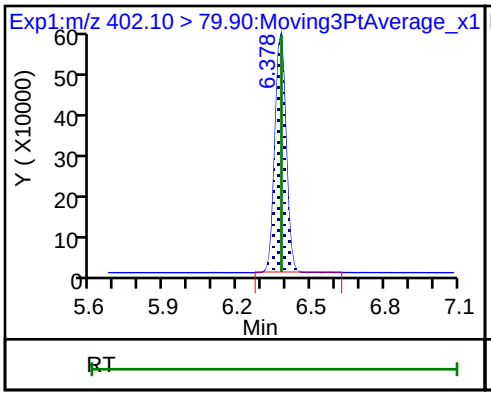
40 PFHxS (ND)



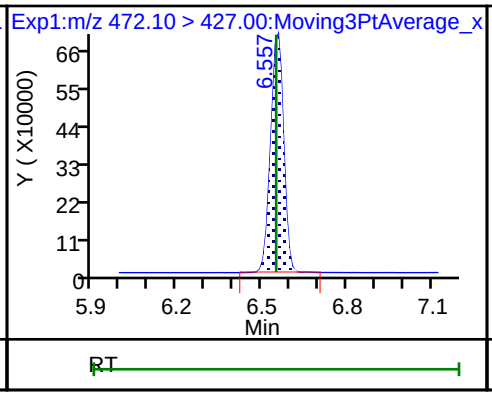
* 39 18O2 PFHxS



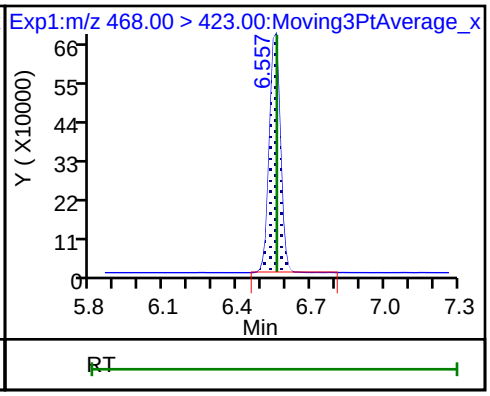
D 38 13C3 PFHxS



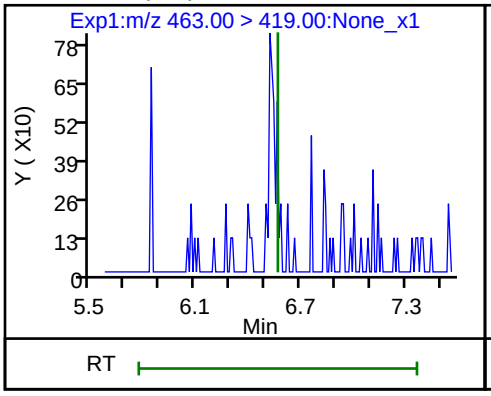
D 41 13C9 PFNA



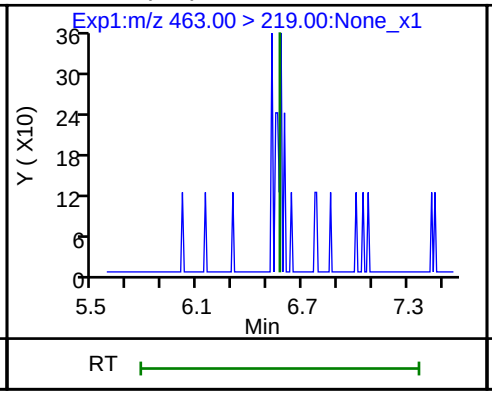
* 42 13C5 PFNA



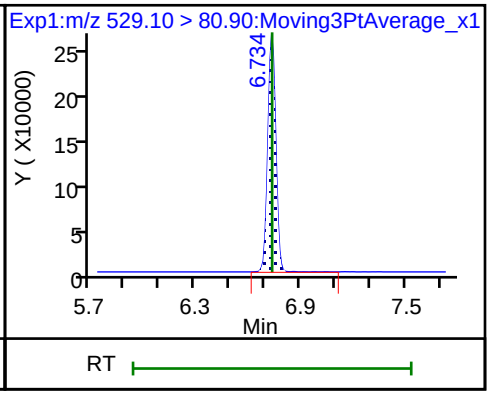
43 PFNA (ND)



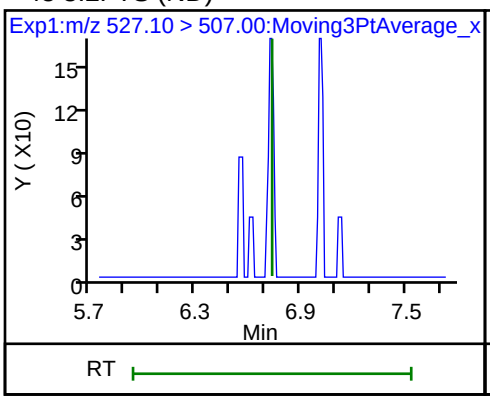
43 PFNA (ND)



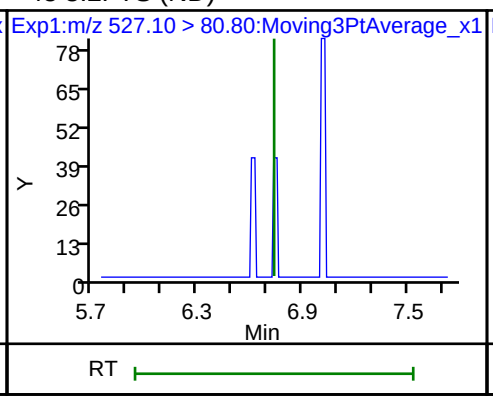
D 44 13C2-8:2FTS



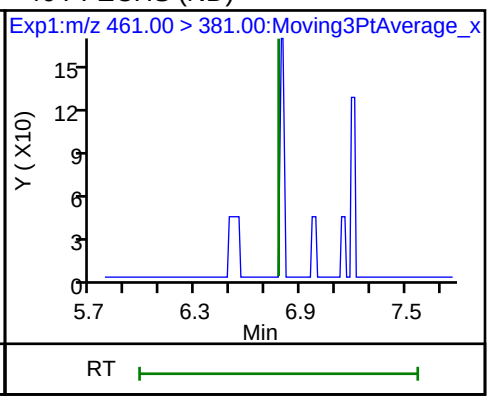
45 8:2FTS (ND)



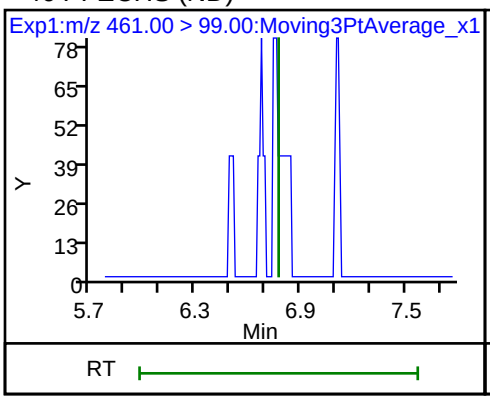
45 8:2FTS (ND)



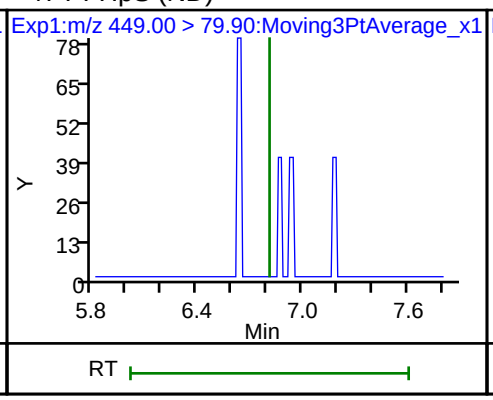
46 PFECHS (ND)



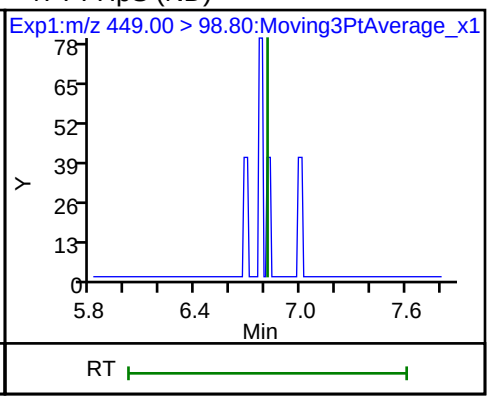
46 PFECHS (ND)



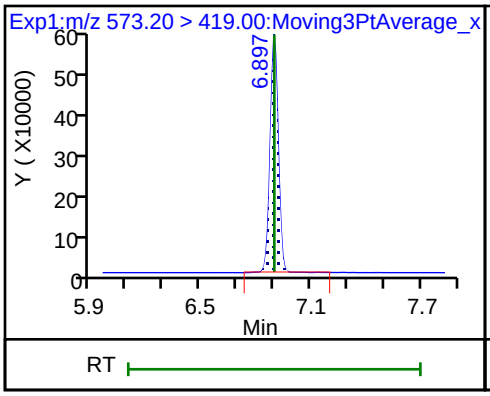
47 PFHpS (ND)



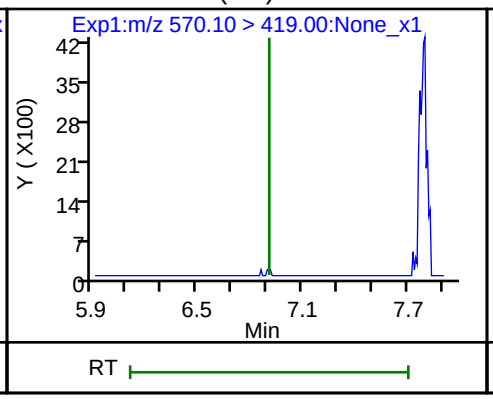
47 PFHpS (ND)



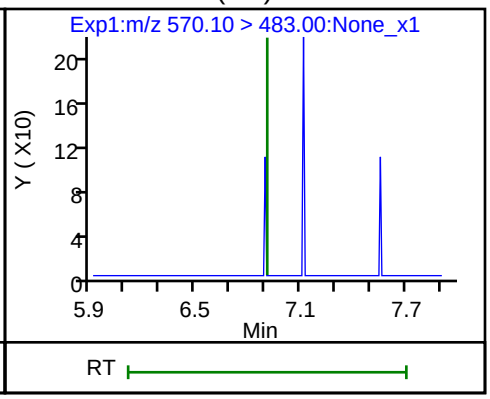
D 49 d3-NMeFOSAA



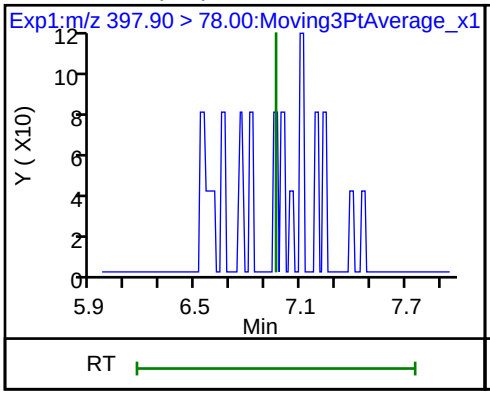
50 NMeFOSAA (ND)



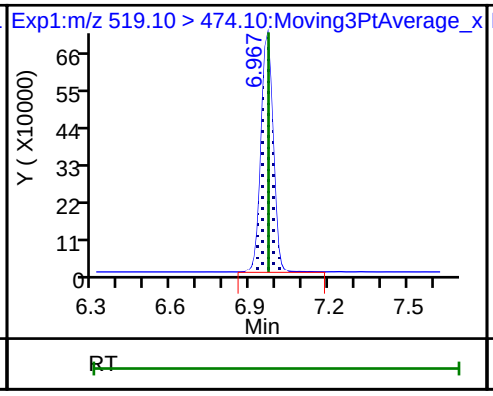
50 NMeFOSAA (ND)



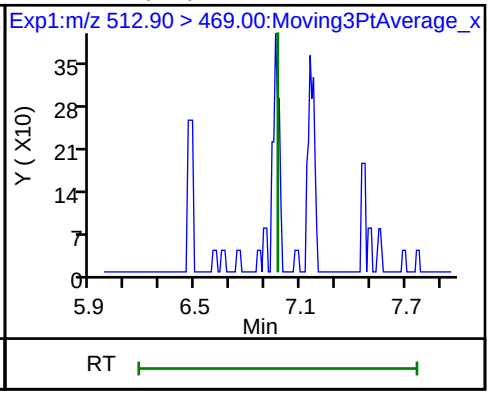
48 FHxSA (ND)



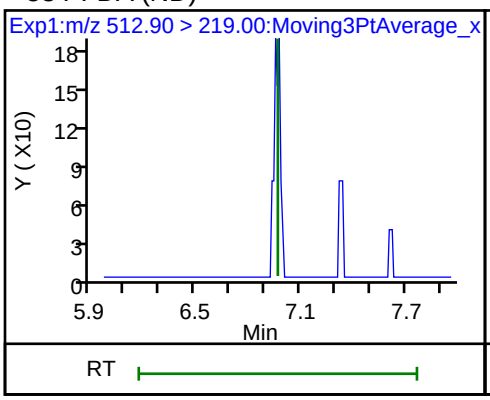
D 52 13C6 PFDA



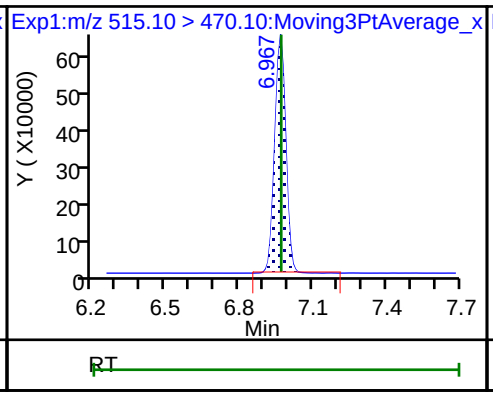
53 PFDA (ND)



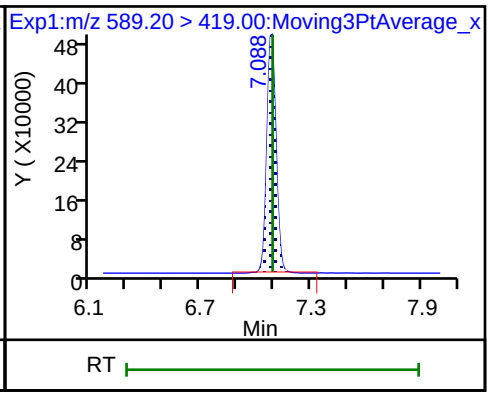
53 PFDA (ND)



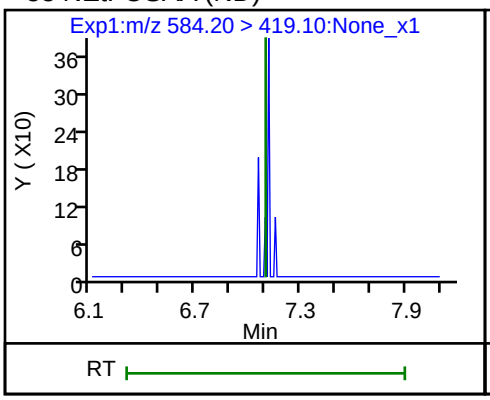
* 51 13C2 PFDA



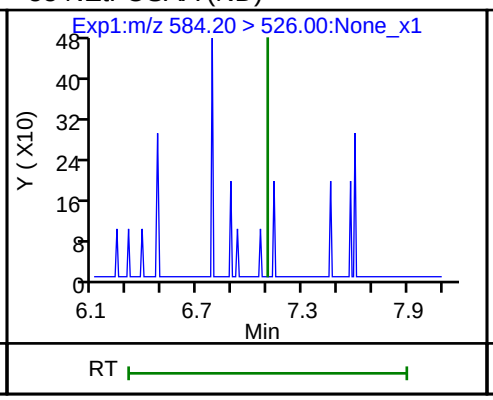
D 54 d5-NEtFOSAA



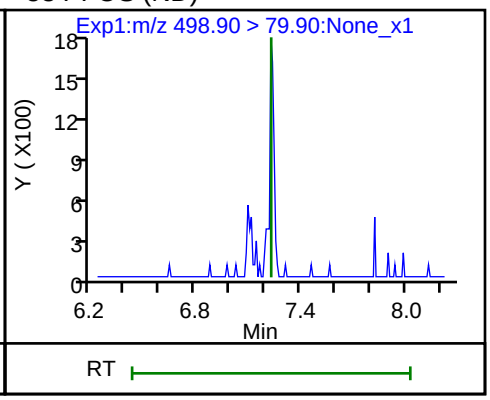
55 NEtFOSAA (ND)



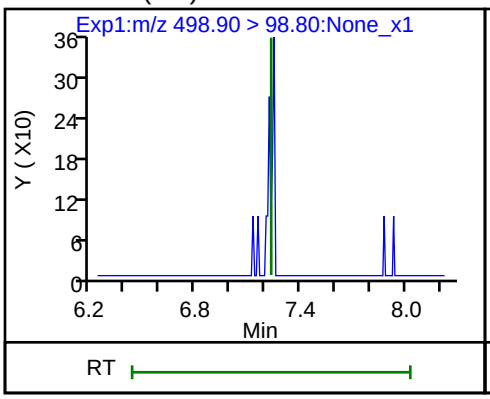
55 NEtFOSAA (ND)



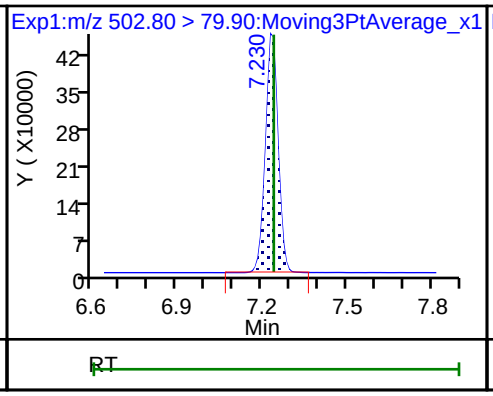
58 PFOS (ND)



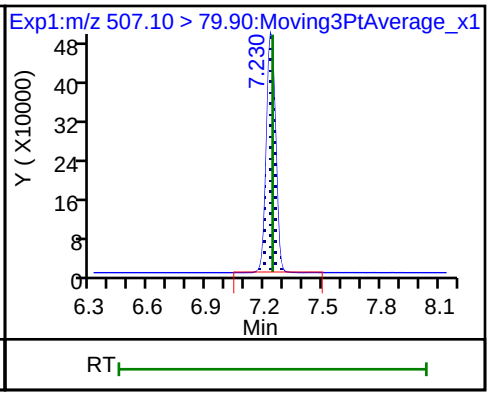
58 PFOS (ND)



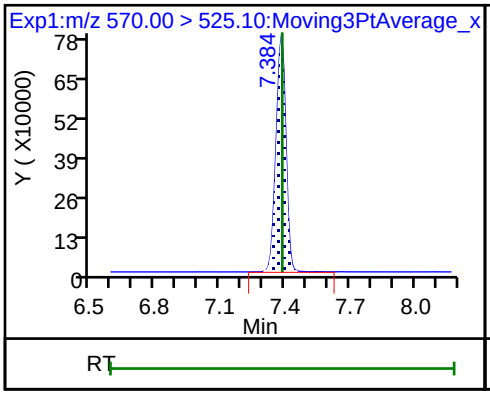
* 57 13C4 PFOS



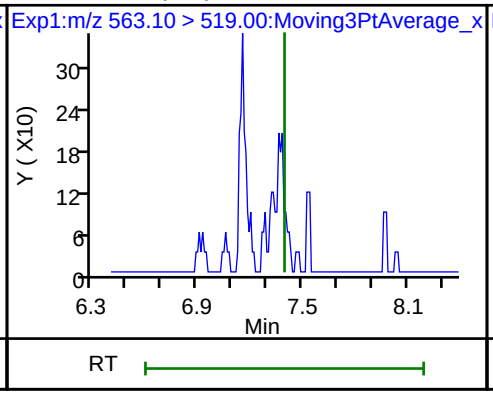
D 56 13C8 PFOS



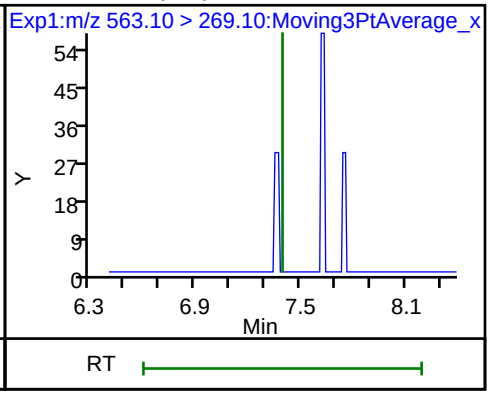
D 59 13C7 PFUnA



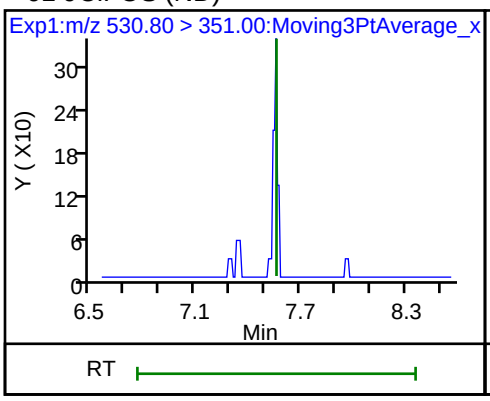
60 PFUnA (ND)



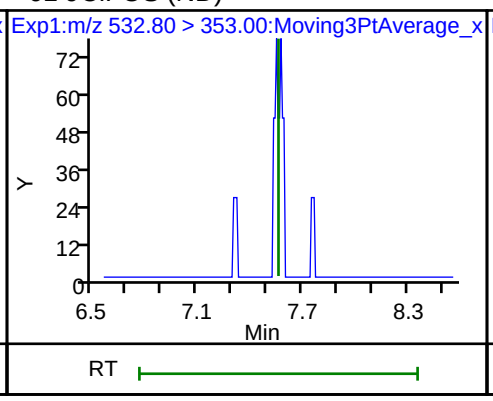
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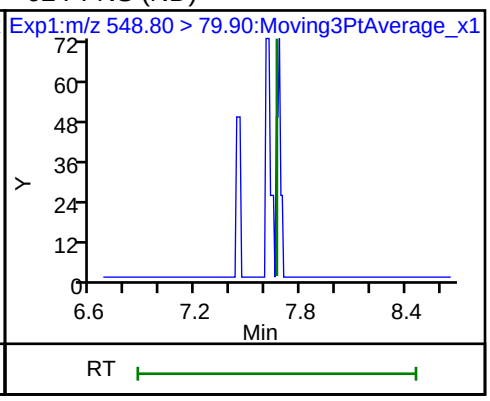
61 9ClFOS (ND)



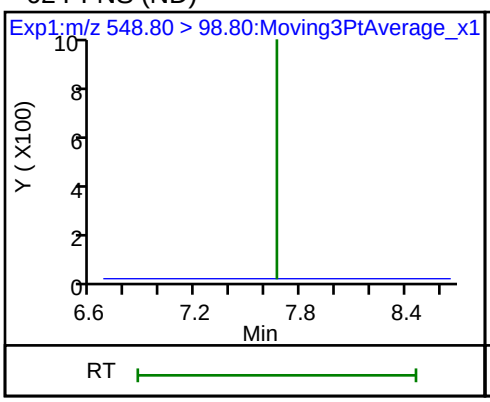
61 9ClFOS (ND)



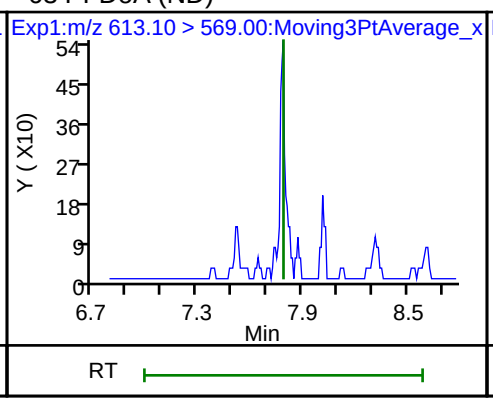
62 PFNS (ND)



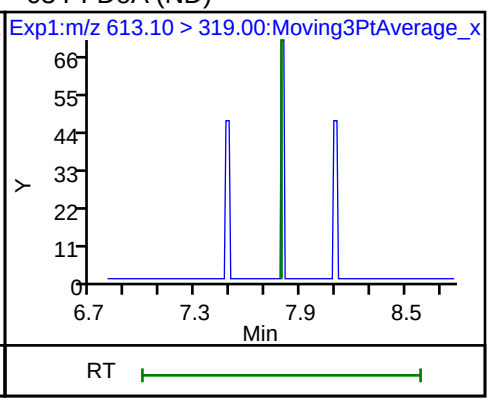
62 PFNS (ND)



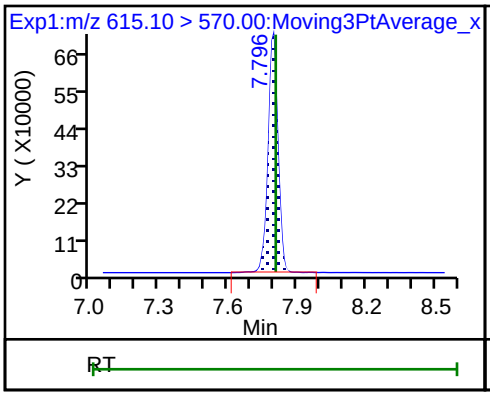
63 PFDoA (ND)



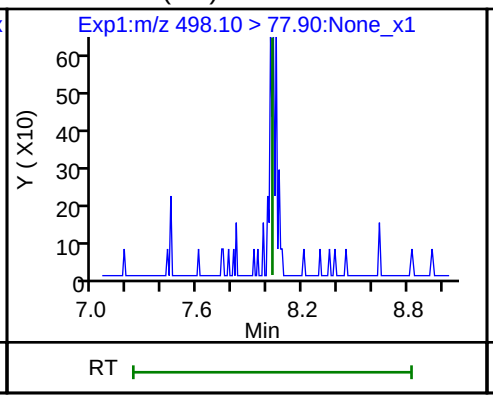
63 PFDoA (ND)



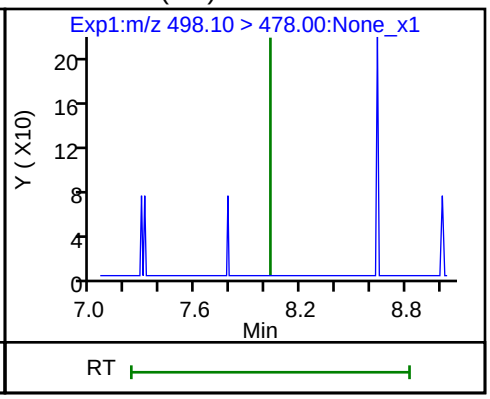
D 81 PFDoA



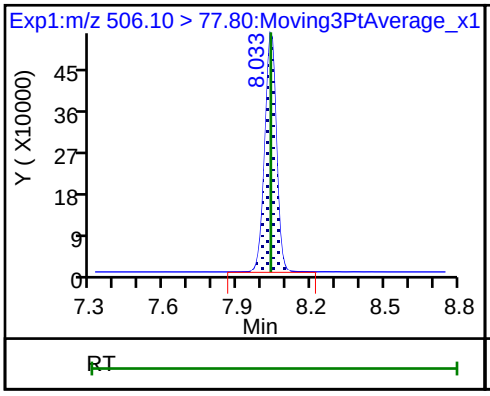
64 PFOSA (ND)



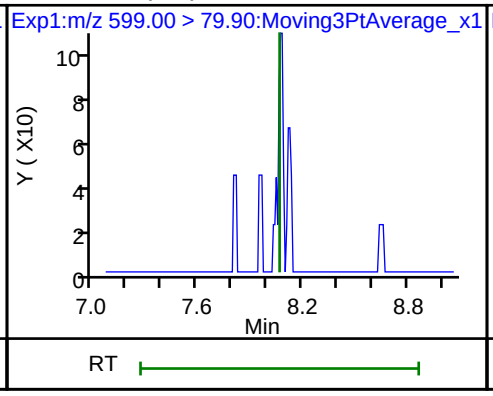
64 PFOSA (ND)



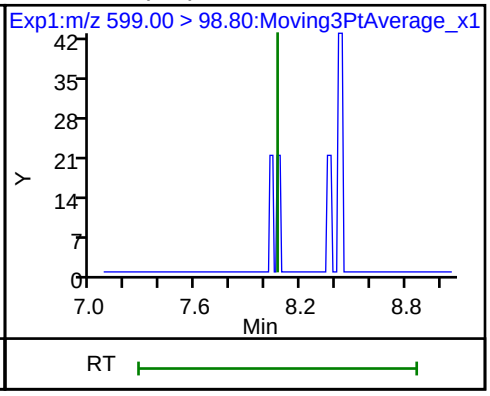
D 65 13C8 FOSA



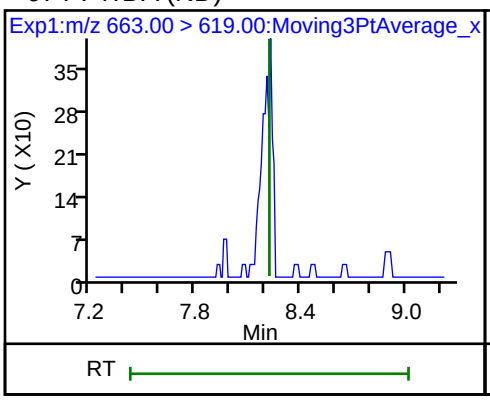
66 PFDS (ND)



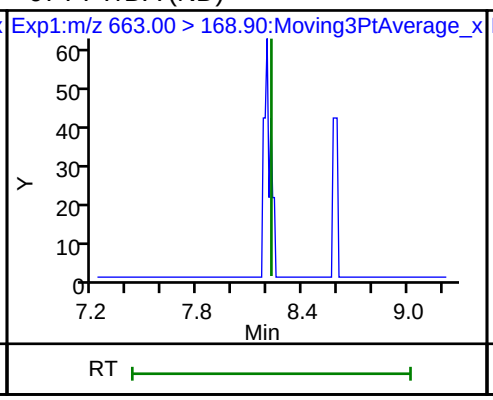
66 PFDS (ND)



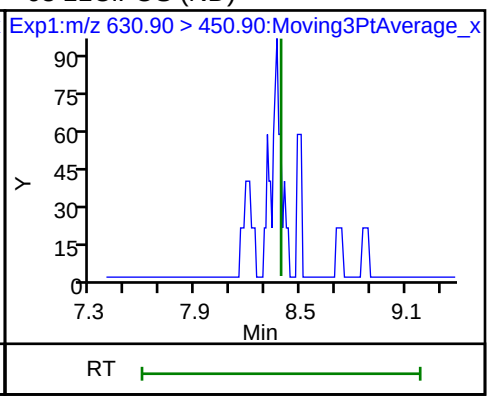
67 PFTrDA (ND)



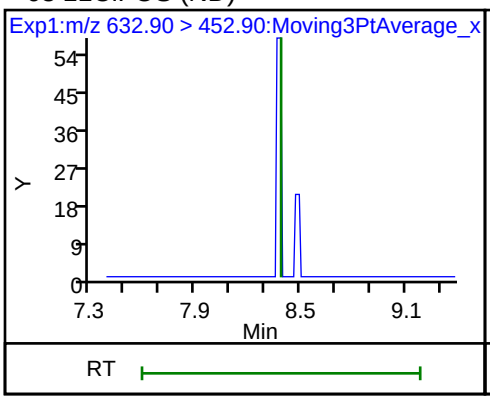
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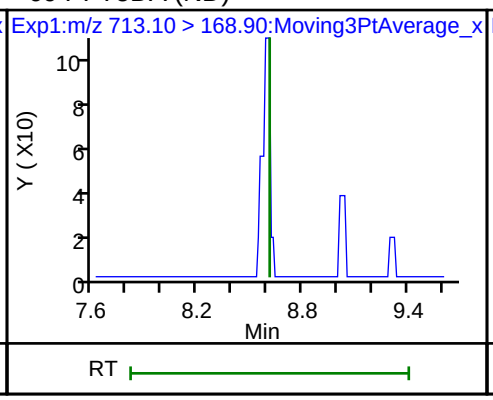
68 11ClFOS (ND)



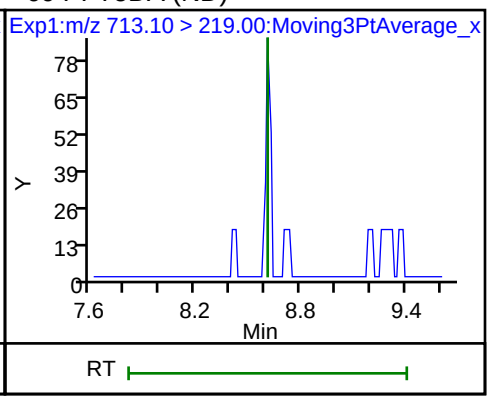
68 11ClFOS (ND)



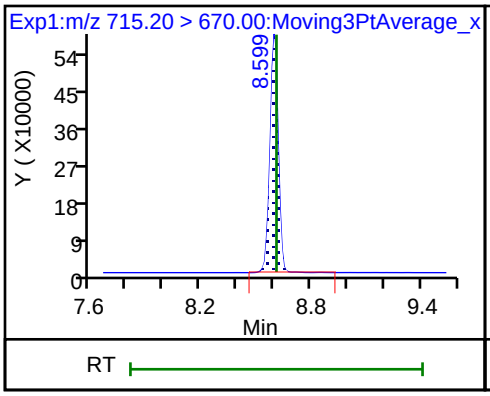
69 PFTeDA (ND)



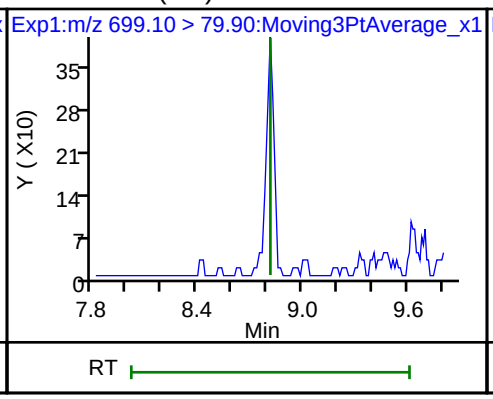
69 PFTeDA (ND)



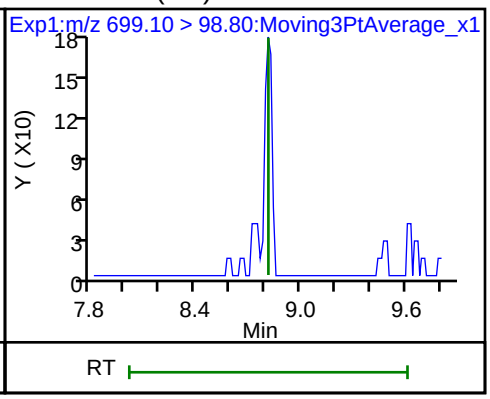
D 70 13C2 PFTeDA



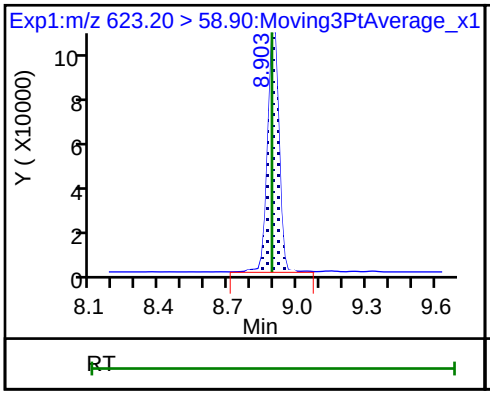
71 PFDoS (ND)



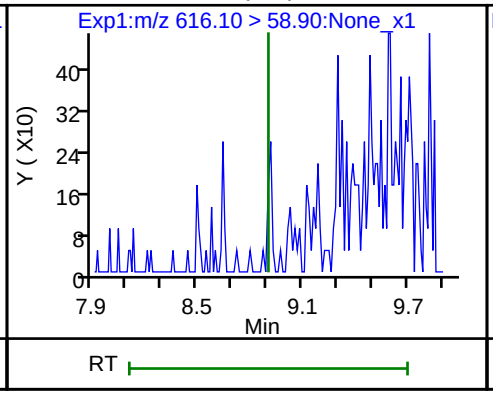
71 PFDoS (ND)



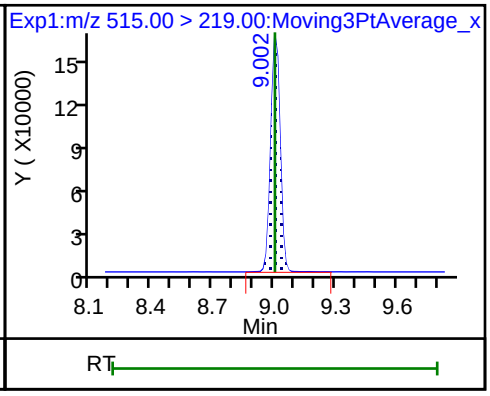
D 72 d7-N-Me-FOSE



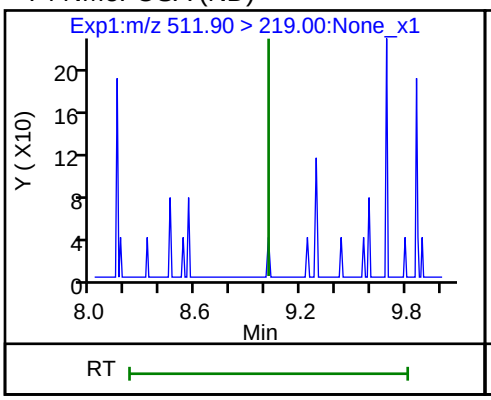
73 N-MeFOSE-M (ND)



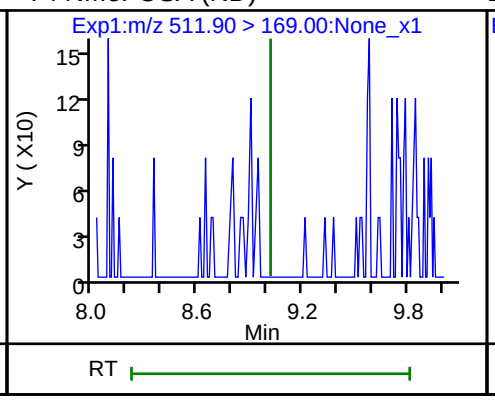
D 75 d3-NMePFOSA



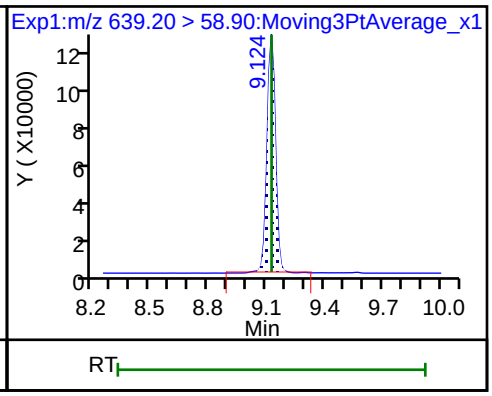
74 NMeFOSA (ND)



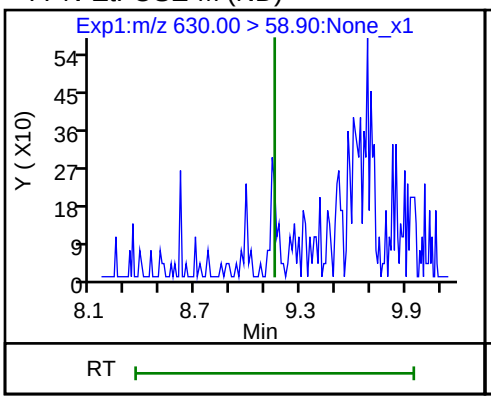
74 NMeFOSA (ND)



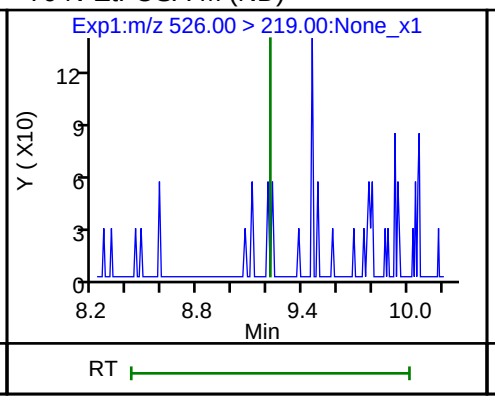
D 76 d9-N-EtFOSE



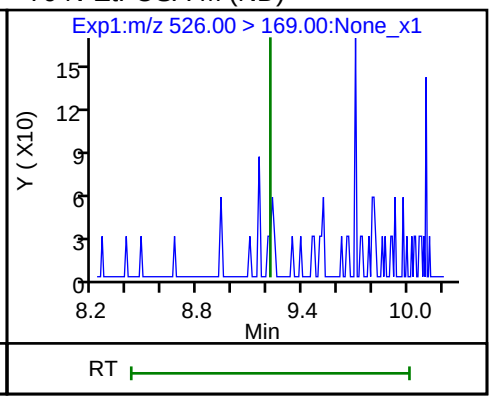
77 N-EtFOSE-M (ND)



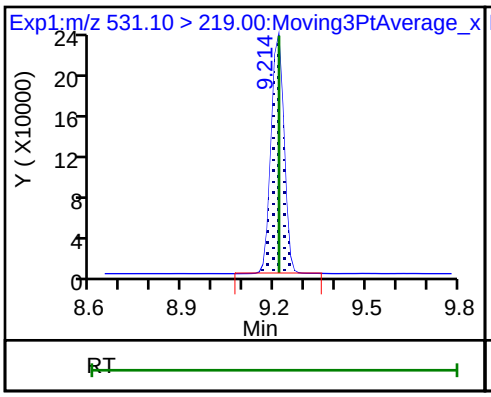
79 N-EtFOSA-M (ND)



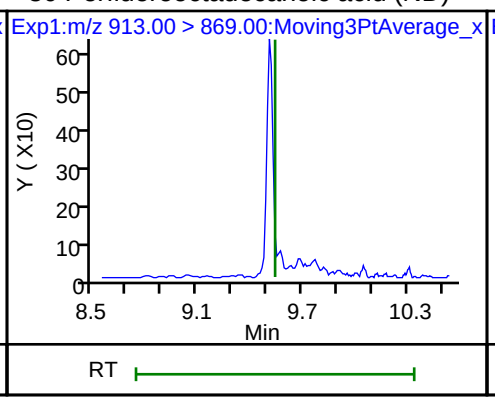
79 N-EtFOSA-M (ND)



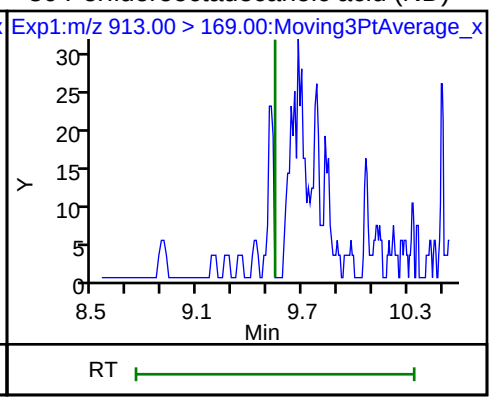
D 78 d5-NEtPFOSA



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-761807/9

Matrix: Water
Lab File ID: 26JAN28CAL-09.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 01/29/2026 02:27

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 761807
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.010	U	0.010	0.0040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.010	U	0.010	0.0040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.010	U	0.010	0.0040
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.010	U	0.010	0.0040
335-67-1	Perfluorooctanoic acid (PFOA)	0.010	U	0.010	0.0040
375-95-1	Perfluorononanoic acid (PFNA)	0.010	U	0.010	0.0040
335-76-2	Perfluorodecanoic acid (PFDA)	0.010	U	0.010	0.0040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.010	U	0.010	0.0040
307-55-1	Perfluorododecanoic acid (PFDoA)	0.010	U	0.010	0.0040
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.010	U	0.010	0.0040
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.010	U	0.010	0.0040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.010	U	0.010	0.0040
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.010	U	0.010	0.0040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.010	U	0.010	0.0040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.010	U	0.010	0.0040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.010	U	0.010	0.0040
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.010	U	0.010	0.0040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.010	U	0.010	0.0040
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.010	U	0.010	0.0040
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.010	U	0.010	0.0040
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.010	U	0.010	0.0040
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.010	U	0.010	0.0040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.010	U	0.010	0.0040
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.010	U	0.010	0.0040
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-761807/9

Matrix: Water
Lab File ID: 26JAN28CAL-09.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 01/29/2026 02:27

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 761807
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.010	U	0.010	0.0040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.010	U	0.010	0.0040
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.010	U	0.010	0.0040
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.010	U	0.010	0.0040
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.010	U	0.010	0.0040
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.010	U	0.010	0.0040
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.010	U	0.010	0.0040
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.010	U	0.010	0.0040
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.010	U	0.010	0.0040
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.010	U	0.010	0.0040
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.010	U	0.010	0.0040
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.010	U	0.010	0.0040
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.010	U	0.010	0.0040
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.010	U	0.010	0.0040
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 410-761807/9

Matrix: Water Lab File ID: 26JAN28CAL-09.d

Analysis Method: 1633A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 01/29/2026 02:27

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 761807 Units: ng/mL

Preparation Batch No.: Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	100		5-130
2283397-79-3	13C5 PFPeA	103		40-130
2328024-54-8	13C5 PFHxA	104		40-130
2328024-55-9	13C4 PFHpA	115		40-130
1350614-84-4	13C8 PFOA	106		40-130
2283397-80-6	13C9 PFNA	106		40-130
2328024-56-0	13C6 PFDA	107		40-130
STL02580	13C7 PFUnA	114		30-130
STL02116	13C2 PFTeDA	110		10-130
2708218-83-9	13C3 PFBS	103		40-135
2708218-85-1	13C3 PFHxS	111		40-130
2265893-05-6	13C8 PFOS	101		40-130
STL01056	13C8 FOSA	102		40-130
1400690-70-1	d3-NMeFOSAA	99.7		40-170
1265205-97-7	d5-NEtFOSAA	243	*	25-135
STL02395	13C2 4:2 FTS	97.1		40-200
STL02279	13C2 6:2 FTS	110		40-200
STL02280	13C2 8:2 FTS	94.2		40-300
STL02255	13C3 HFPO-DA	107		40-130
STL02277	d7-N-MeFOSE-M	100		10-130
STL02278	d9-N-EtFOSE-M	100		10-130
STL02704	d5-NEtPFOSA	99.3		10-130
STL02705	d3-NMePFOSA	98.3		10-130
960315-52-0	13C2 PFDoA	115		10-130

Report Date: 05-Feb-2026 12:09:44 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-09.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 29-Jan-2026 02:27:41 ALS Bottle#: 1 Worklist Smp#: 9
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: ICB
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 12:08:45 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1631

First Level Reviewer: M4QQ Date: 29-Jan-2026 07:04:36
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.034	2.008	0.026	0.486	1168304	1.99		99.6	518	
D 4 13C4-PFBA										
216.80 > 171.90	4.184	4.187	-0.003	1.000	1414776	2.00		100.0	6699	
* 5 13C3PFBA										
216.00 > 172.00	4.184	4.187	-0.003		1353886	2.00			615	
D 8 13C5 PFPeA										
268.30 > 223.00	4.847	4.842	0.005	0.913	866111	2.06		103	4886	
D 12 13C2-4:2FTS										
329.10 > 80.90	5.119	5.123	-0.004	0.800	524765	4.56		97.1	3157	
D 15 13C5 PFHxA										
318.00 > 273.00	5.307	5.312	-0.005	1.000	1721836	2.08		104	8206	
* 16 13C2 PFHxA										
315.10 > 270.00	5.307	5.312	-0.005		3619981	5.00			8004	
D 20 13C3 PFBS										
302.10 > 79.90	5.461	5.454	0.007	0.854	1628044	1.92		103	8953	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.502	5.495	0.007	1.037	1530198	2.14		107	4131	
24 TCDCA										
498.10 > 80.00	6.072	5.540	0.532	0.834	656	NR			0.7	
25 TDCA										
498.00 > 80.00	5.941	5.670	0.271	0.816	1016	NR			1.3	
D 28 13C4 PFHpA										
367.10 > 322.00	5.746	5.740	0.006	1.083	1871397	2.29		115	4097	
D 30 13C2-6:2FTS										
429.10 > 80.90	5.941	5.936	0.005	0.929	495989	5.23		110	1876	
D 35 13C8 PFOA										
421.10 > 376.00	6.151	6.160	-0.009	1.000	2212826	2.13		106	7263	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 36 13C4 PFOA 417.10 > 372.00	6.151	6.160	-0.009		5193884	5.00			10675	
* 40 18O2 PFHxS 403.00 > 83.90	6.395	6.404	-0.009		1431584	1.90			5411	
D 38 13C3 PFHxS 402.10 > 79.90	6.395	6.404	-0.009	1.000	1625421	2.10		111	6375	
D 41 13C9 PFNA 472.10 > 427.00	6.571	6.568	0.003	1.000	1856749	2.13		106	9123	
* 43 13C5 PFNA 468.00 > 423.00	6.571	6.581	-0.010		1863208	2.00			5367	
D 44 13C2-8:2FTS 529.10 > 80.90	6.761	6.758	0.003	1.057	408980	4.52		94.2	714	
D 49 d3-NMeFOSAA 573.20 > 419.00	6.920	6.929	-0.009	0.950	915033	4.99		99.7	1563	
* 51 13C2 PFDA 515.10 > 470.10	7.003	7.000	0.003		1572023	2.00			7258	
D 52 13C6 PFDA 519.10 > 474.10	7.003	7.000	0.003	1.000	1693924	2.13		107	5316	
D 54 d5-NEtFOSAA 589.20 > 419.00	7.114	7.111	0.003	0.977	1929549	12.2		243	2988	
D 56 13C8 PFOS 507.10 > 79.90	7.281	7.291	-0.010	1.000	1207339	1.93		101	2158	
* 57 13C4 PFOS 502.80 > 79.90	7.281	7.291	-0.010		1181521	1.92			5023	
D 59 13C7 PFUnA 570.00 > 525.10	7.439	7.435	0.004	1.062	1807436	2.28		114	2760	
D 64 13C2 PFDoA 615.10 > 570.00	7.863	7.861	0.002	1.123	1280392	2.29		115	3646	
D 65 13C8 FOSA 506.10 > 77.80	7.959	7.958	0.001	1.093	1432847	2.04		102	5869	
D 71 13C2 PFTeDA 715.20 > 670.00	8.605	8.616	-0.011	1.229	1019054	2.20		110	8852	
D 72 d7-N-Me-FOSE 623.20 > 58.90	8.747	8.744	0.003	1.201	554890	5.01		100	309	
D 75 d3-NMePFOSA 515.00 > 219.00	8.829	8.826	0.003	1.213	389574	1.97		98.3	3003	
D 77 d9-N-EtFOSE 639.20 > 58.90	8.935	8.932	0.003	1.227	738622	5.02		100	635	
D 79 d5-NEtPFOSA 531.10 > 219.00	9.000	8.996	0.004	1.236	478943	1.99		99.3	3785	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00512	Amount Added: 50.00	Units: uL
1633_125_SS_00202	Amount Added: 5.00	Units: uL

Report Date: 05-Feb-2026 12:09:44 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-09.d

Injection Date: 29-Jan-2026 02:27:41 Instrument ID: 30576

Lims ID: ICB

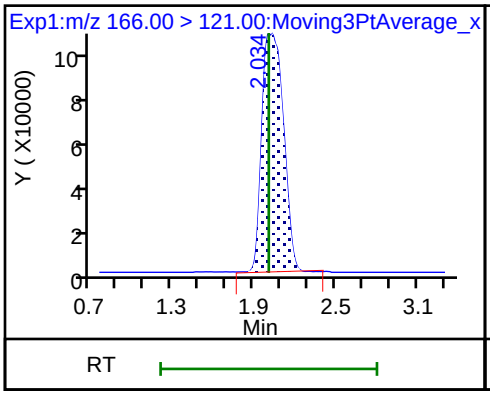
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 1 Worklist Smp#: 9

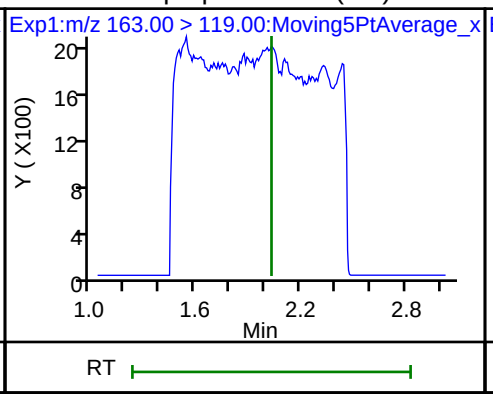
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

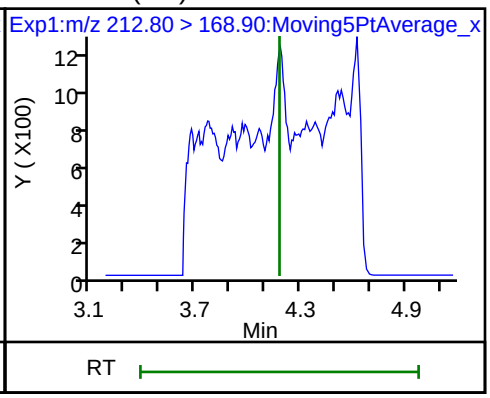
D 1 13C3PFPrA



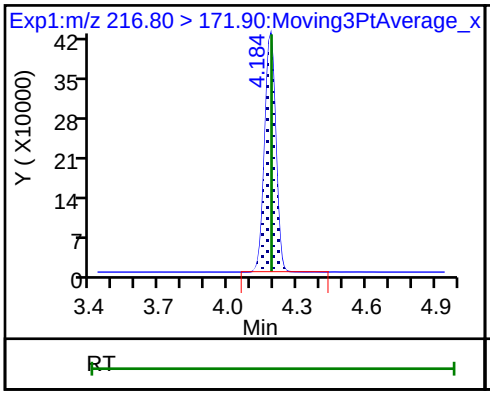
2 Perfluoropropionic acid (ND)



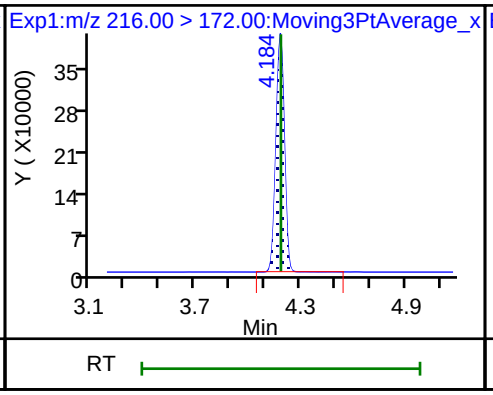
3 PFBA (ND)



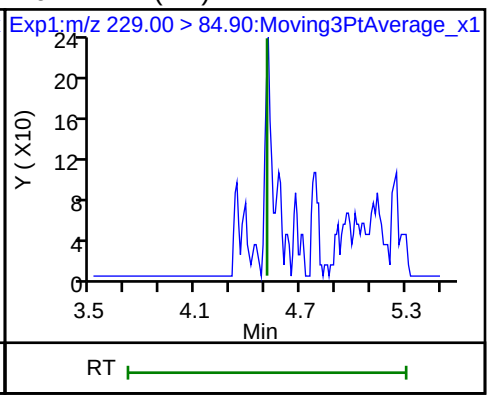
D 4 13C4-PFBA



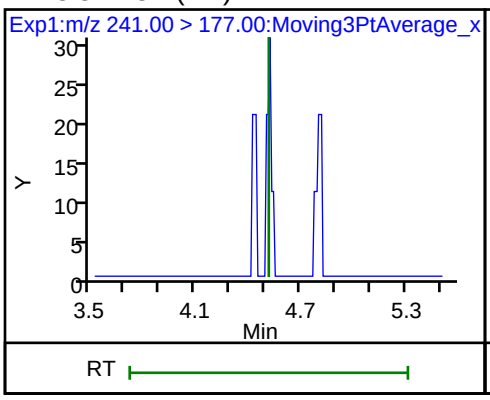
* 5 13C3PFBA



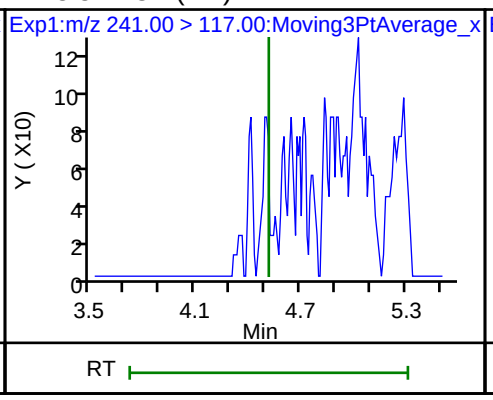
6 PFMPA (ND)



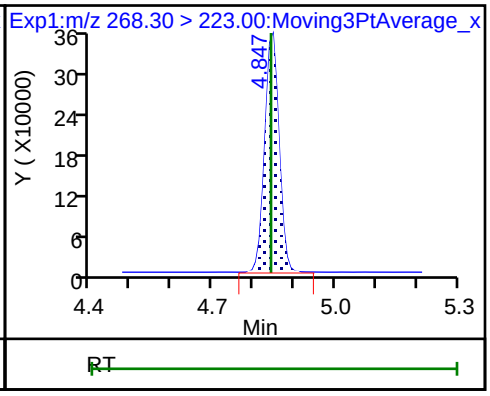
7 3:3 FTCA (ND)



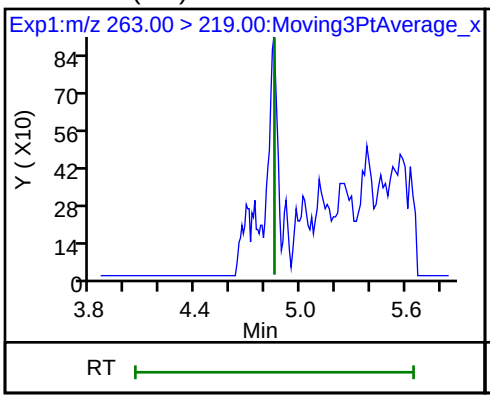
7 3:3 FTCA (ND)



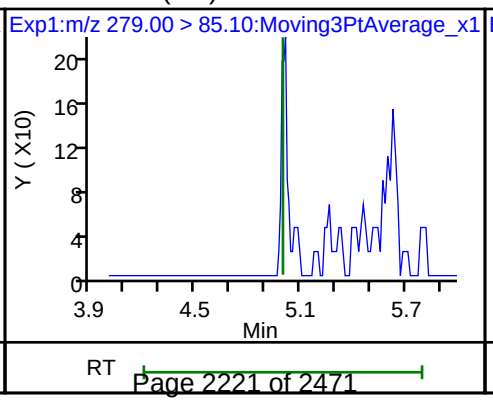
D 8 13C5 PFPeA



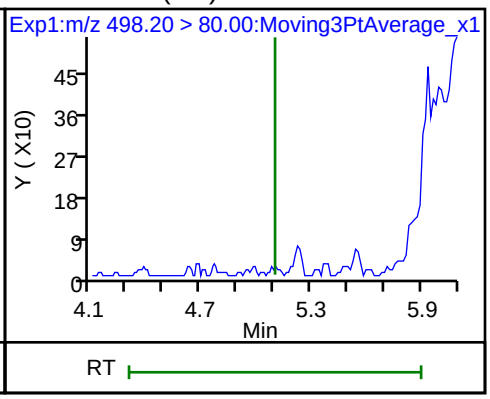
9 PFPA (ND)



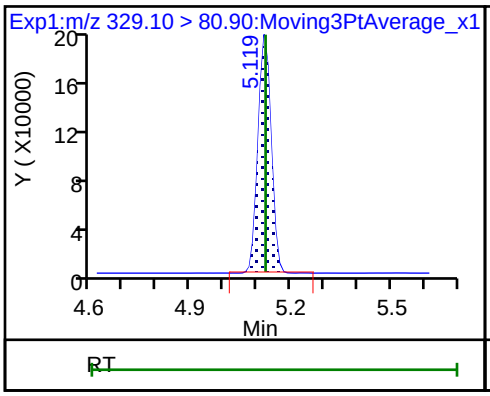
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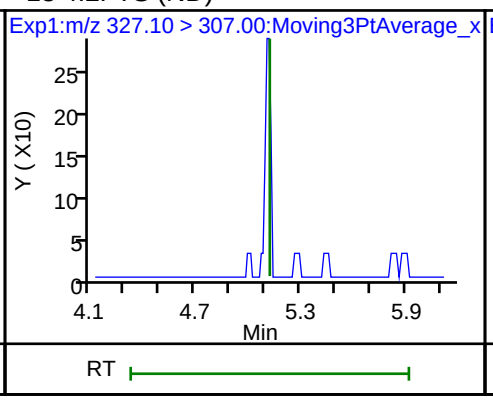
11 TUDCA (ND)



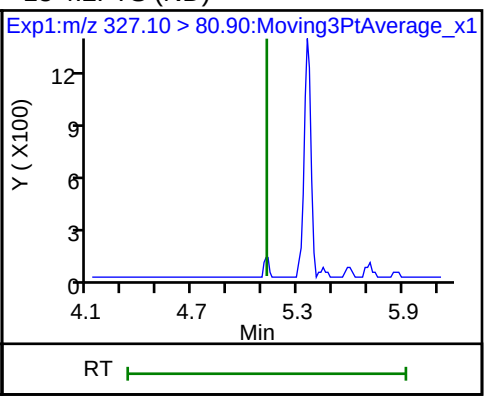
D 12 13C2-4:2FTS



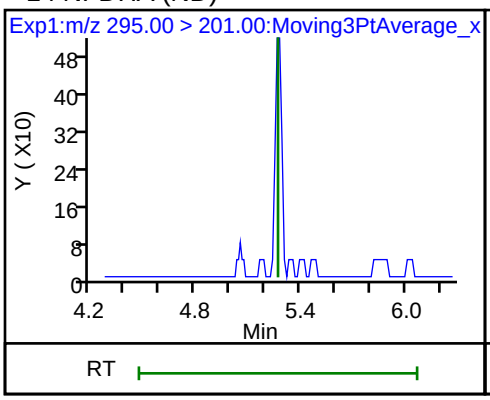
13 4:2FTS (ND)



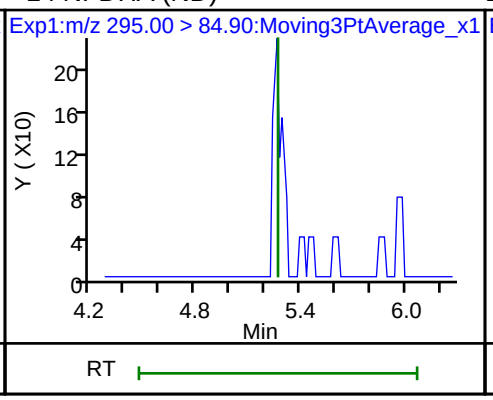
13 4:2FTS (ND)



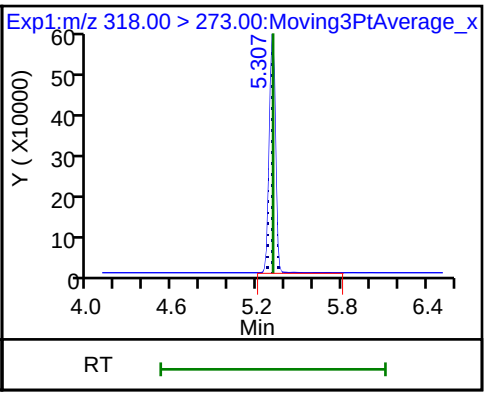
14 NFDHA (ND)



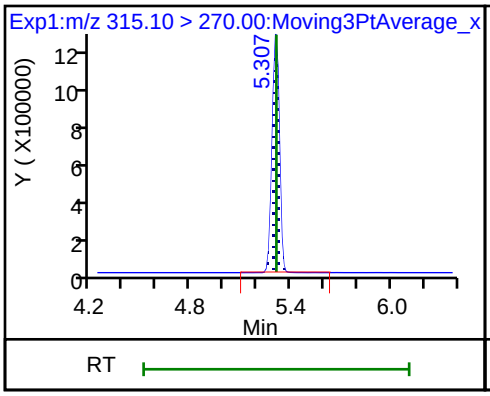
14 NFDHA (ND)



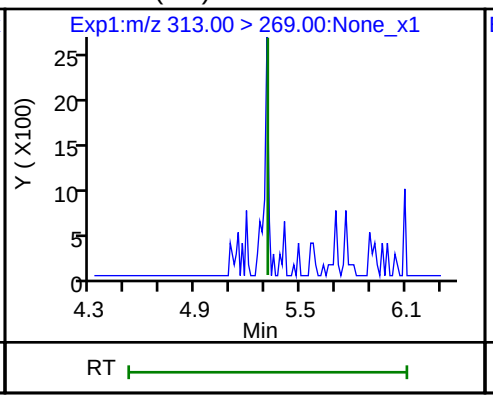
D 15 13C5 PFHxA



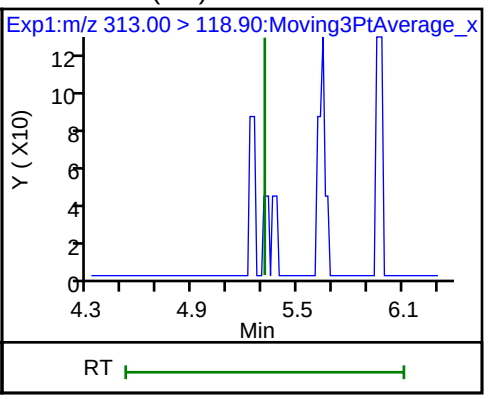
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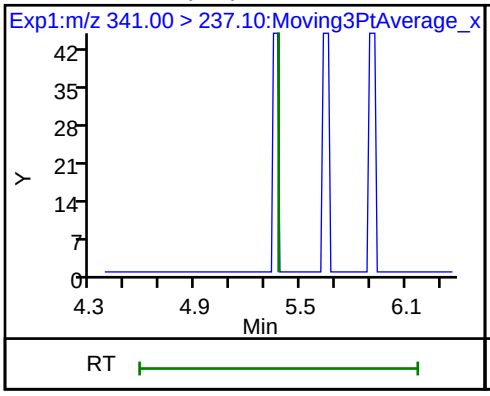
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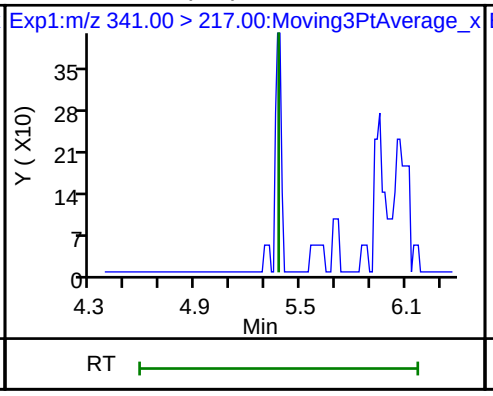
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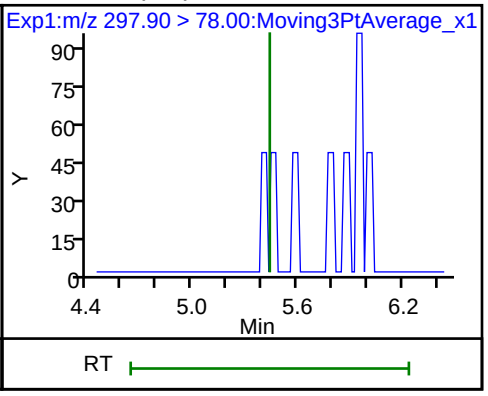
18 5:3 FTCA (ND)



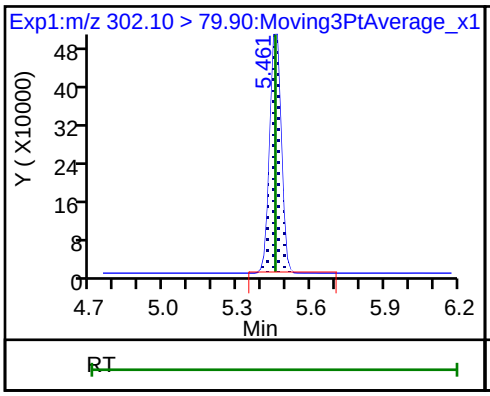
18 5:3 FTCA (ND)



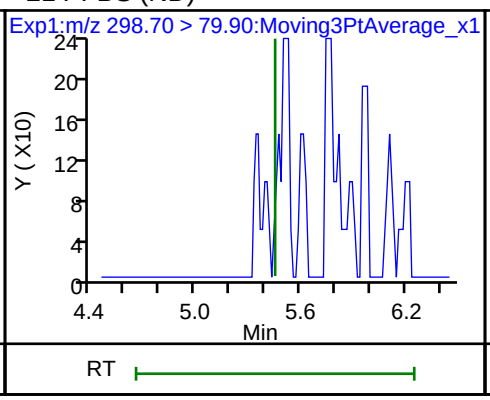
19 FBSA (ND)



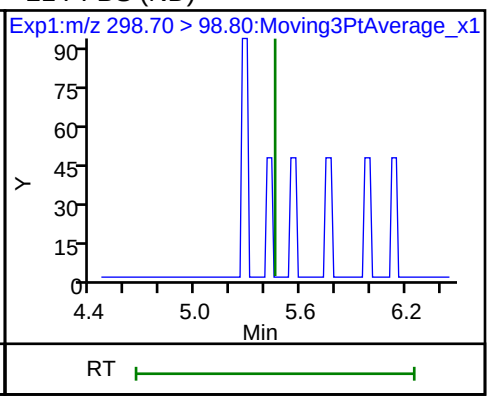
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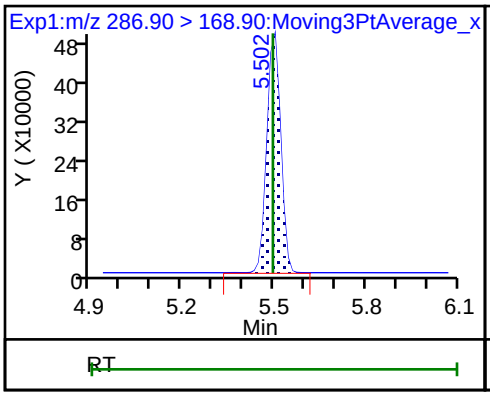
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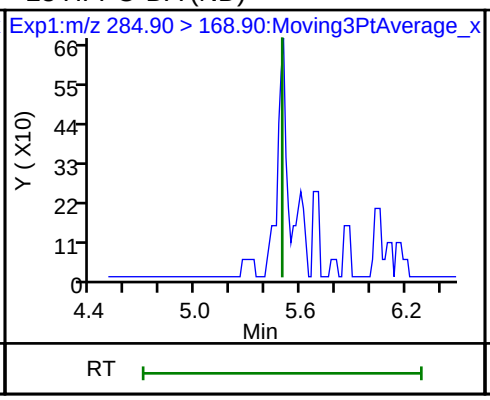
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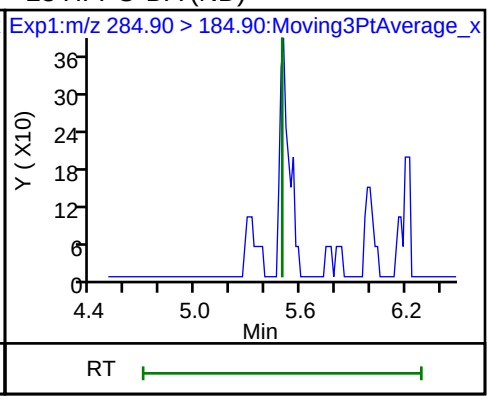
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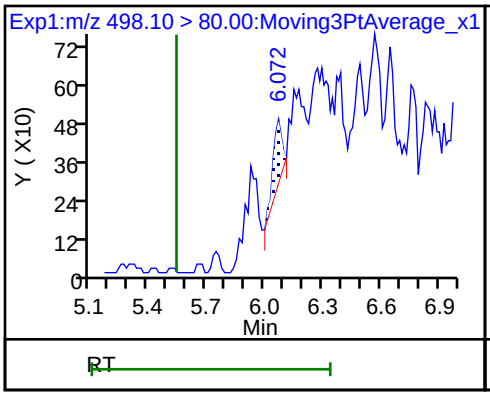
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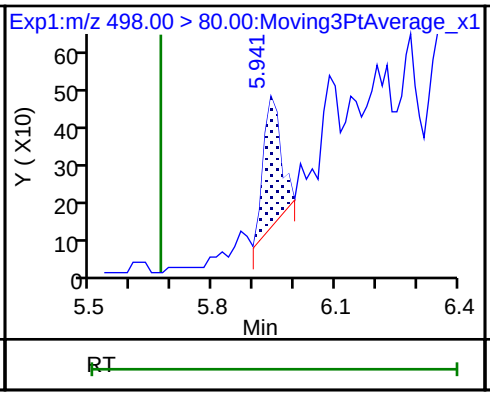
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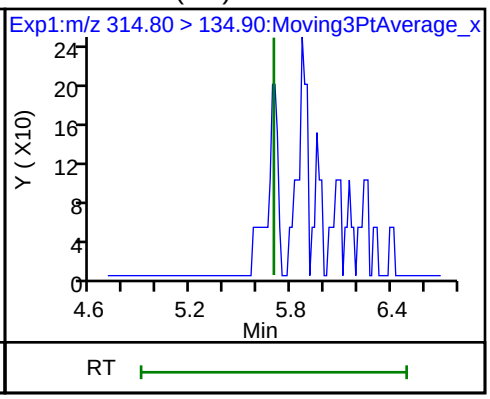
24 TCDCA



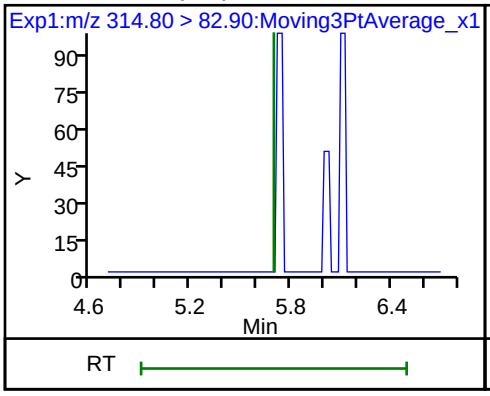
25 TDCA



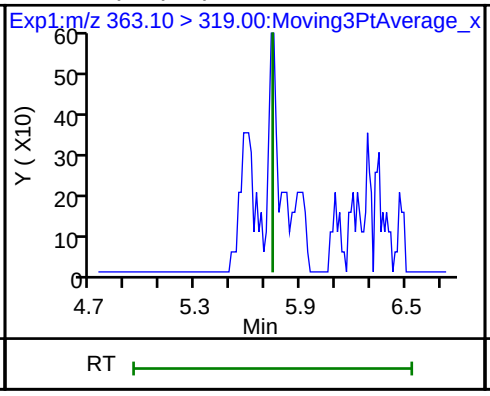
26 PFEESA (ND)



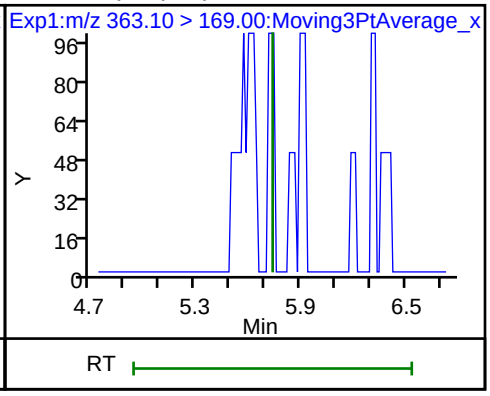
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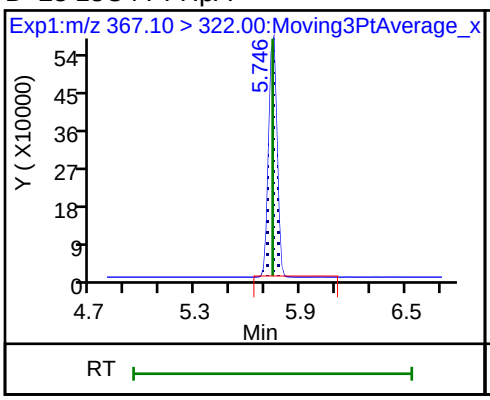
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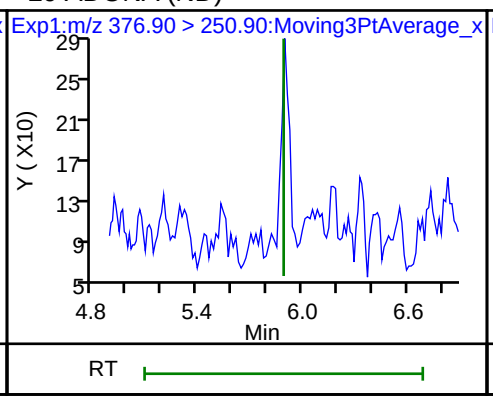
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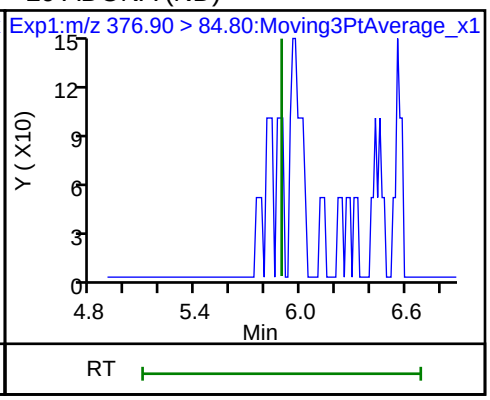
D 28 13C4 PFHpA



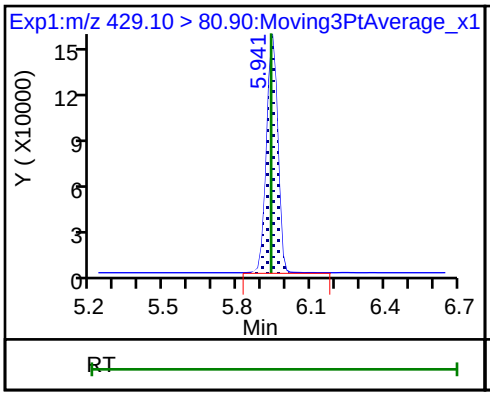
29 ADONA (ND)



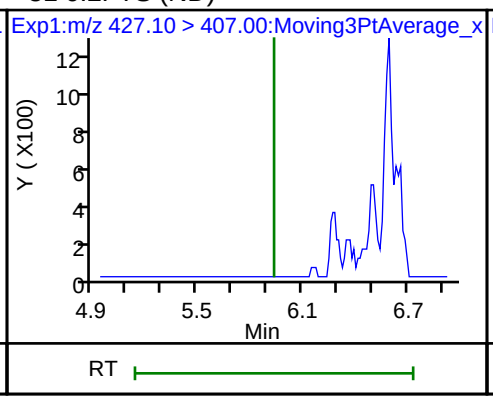
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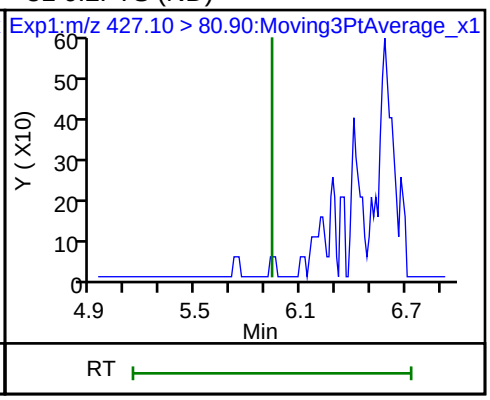
D 30 13C2-6:2FTS



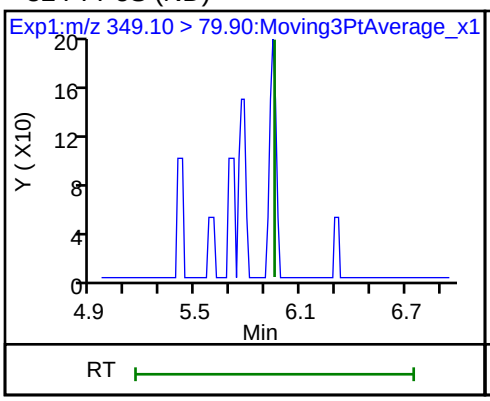
31 6:2FTS (ND)



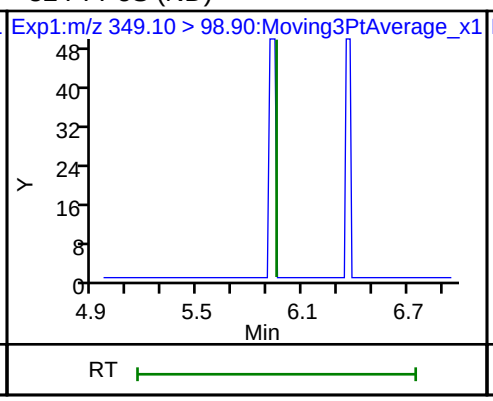
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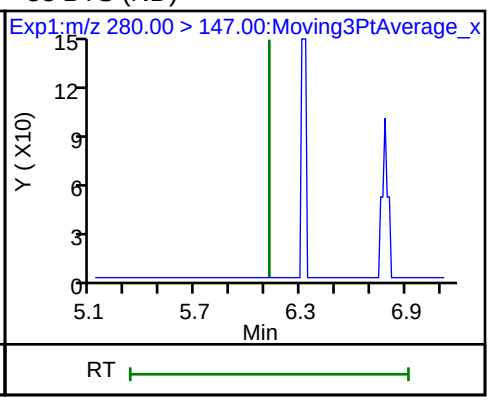
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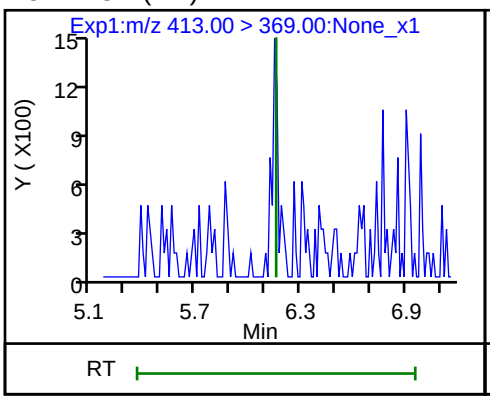
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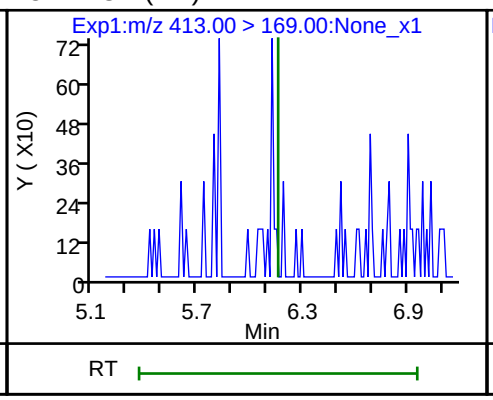
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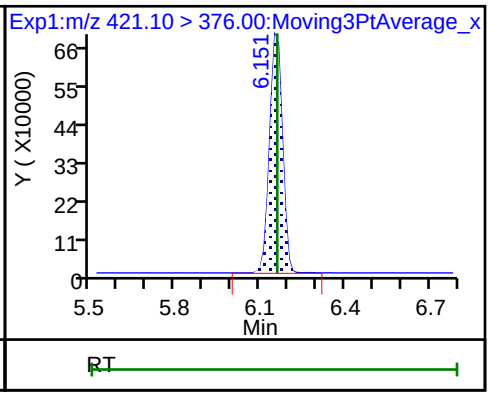
34 PFOA (ND)



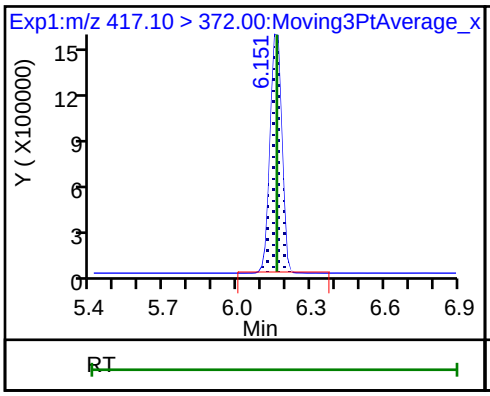
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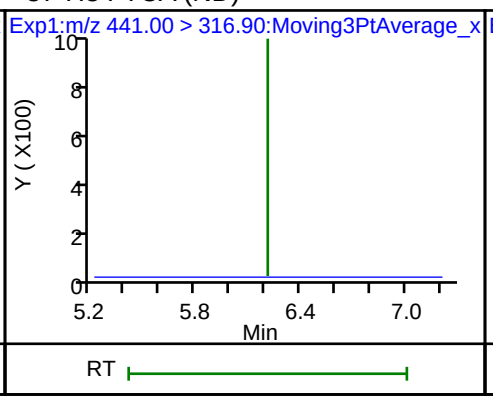
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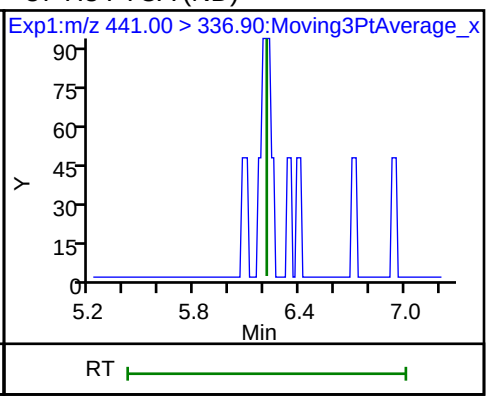
* 36 13C4 PFOA



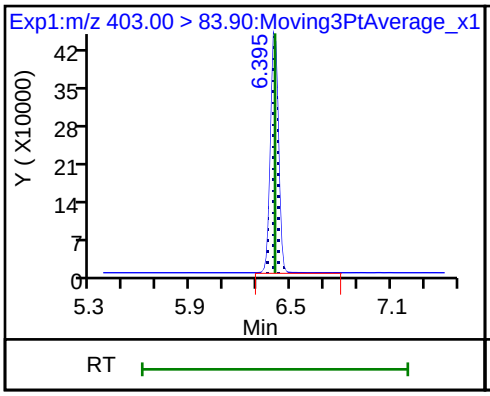
37 7:3 FTCA (ND)



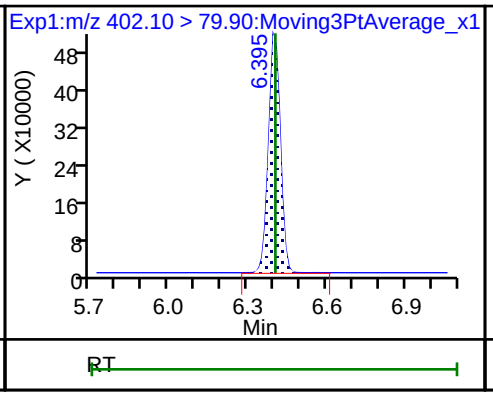
37 7:3 FTCA (ND)



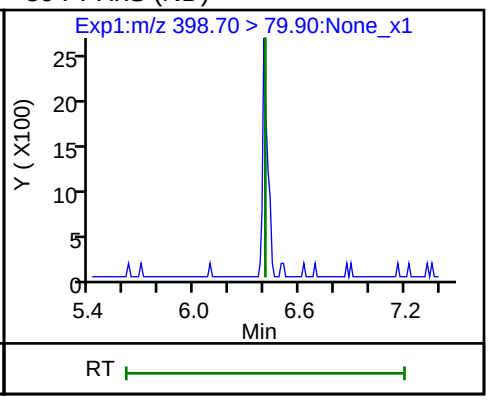
* 40 18O2 PFHxS



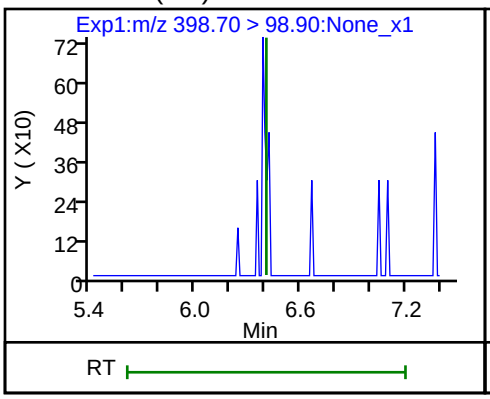
D 38 13C3 PFHxS



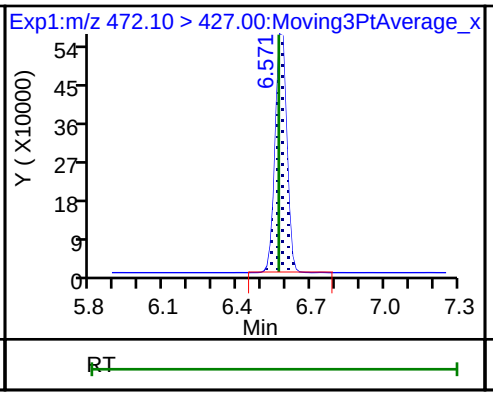
39 PFHxS (ND)



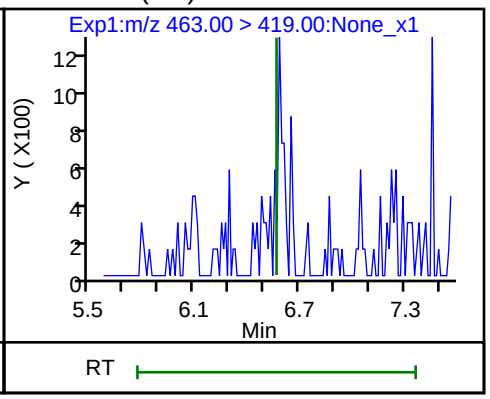
39 PFHxS (ND)



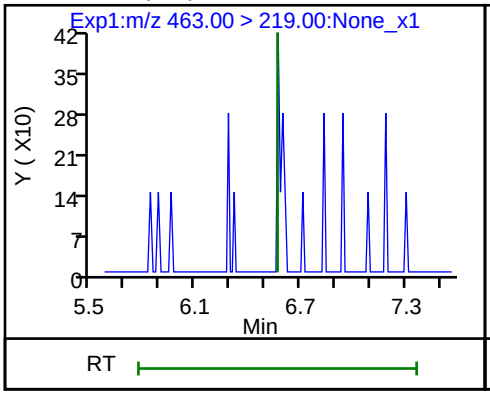
D 41 13C9 PFNA



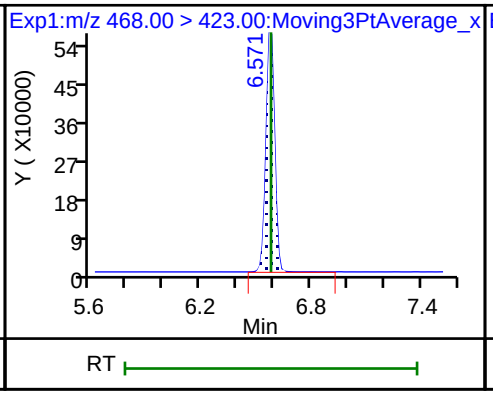
42 PFNA (ND)



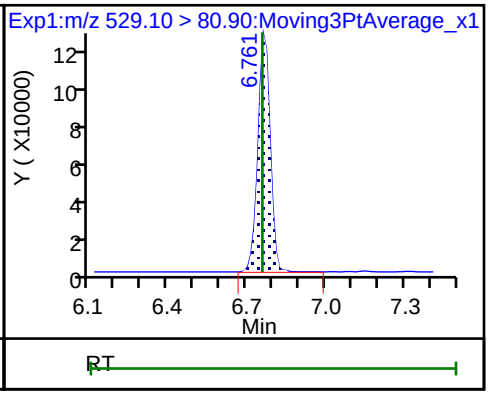
42 PFNA (ND)



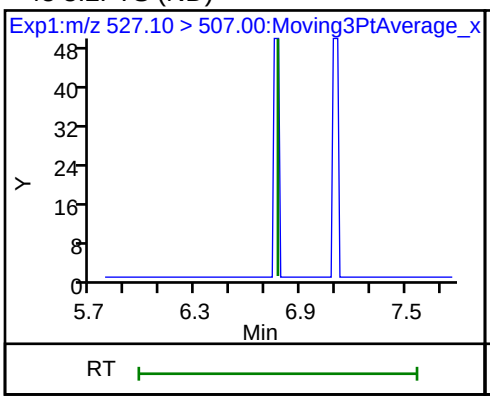
* 43 13C5 PFNA



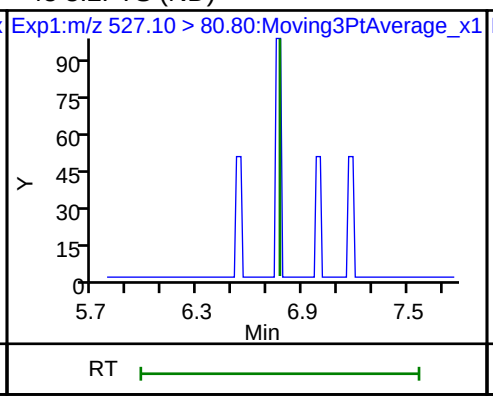
D 44 13C2-8:2FTS



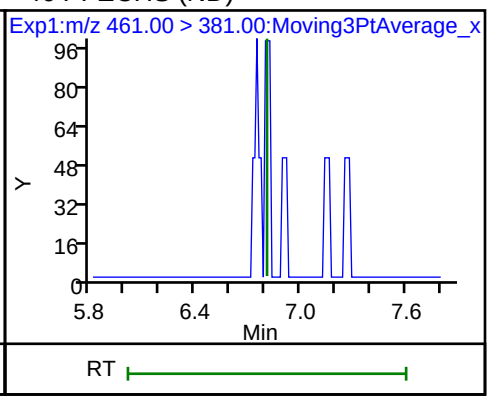
45 8:2FTS (ND)



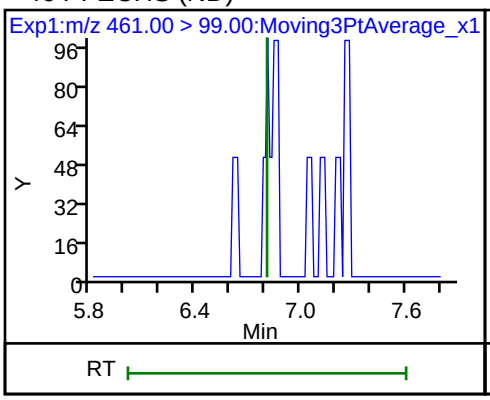
45 8:2FTS (ND)



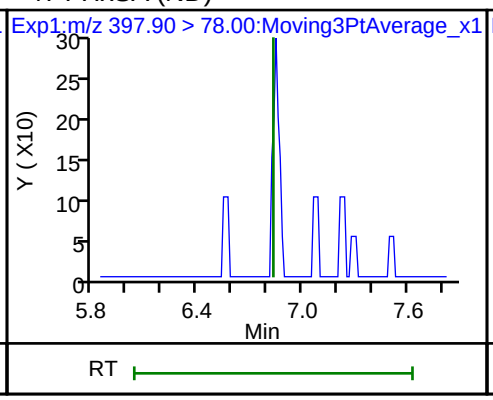
46 PFECHS (ND)



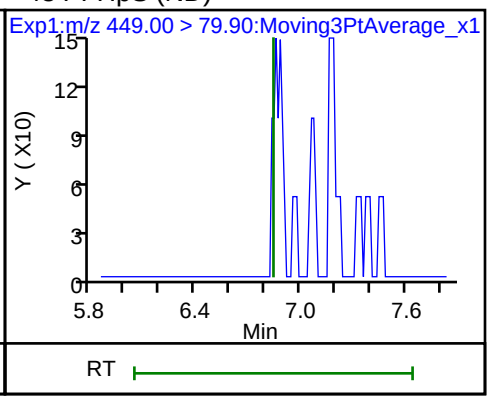
46 PFECHS (ND)



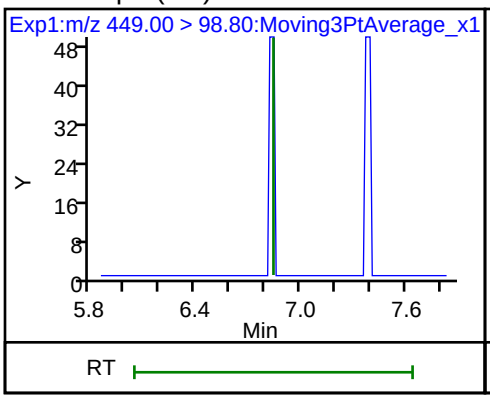
47 FHxSA (ND)



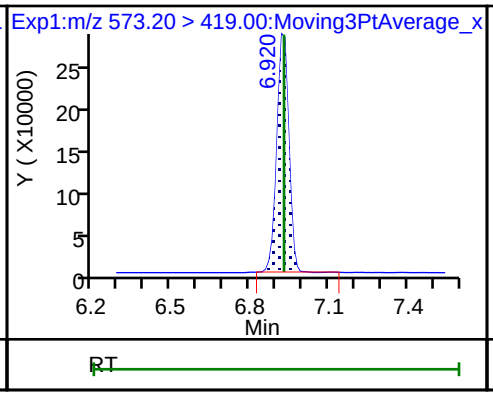
48 PFHpS (ND)



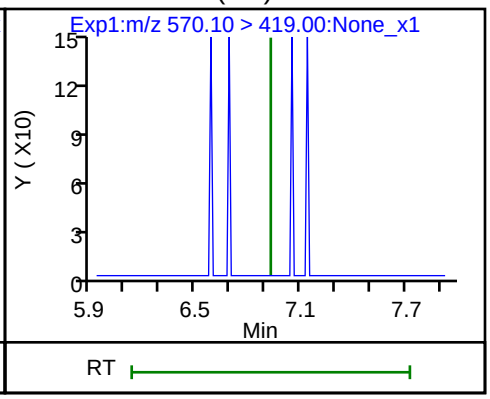
48 PFHpS (ND)



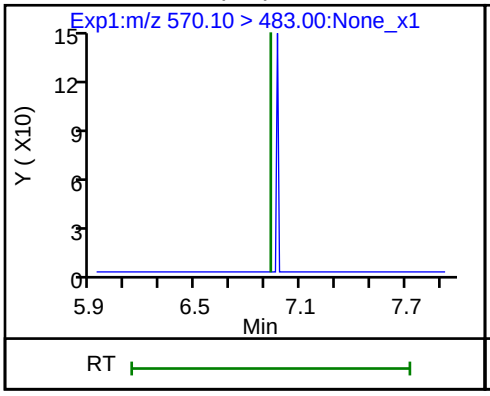
D 49 d3-NMeFOSAA



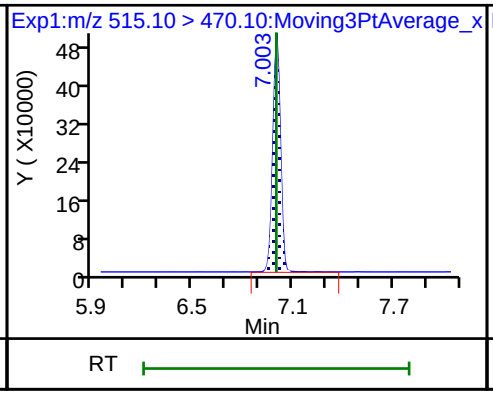
50 NMeFOSAA (ND)



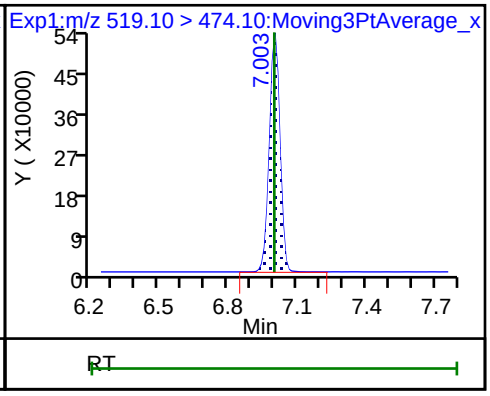
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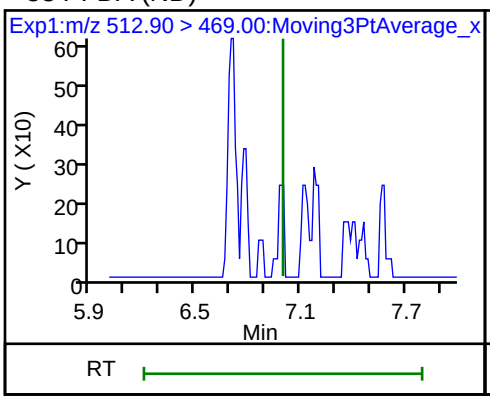
* 51 13C2 PFDA



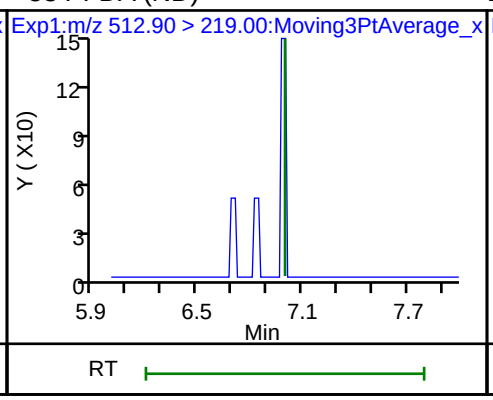
D 52 13C6 PFDA



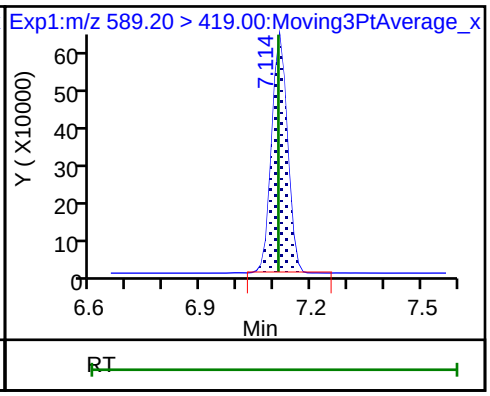
53 PFDA (ND)



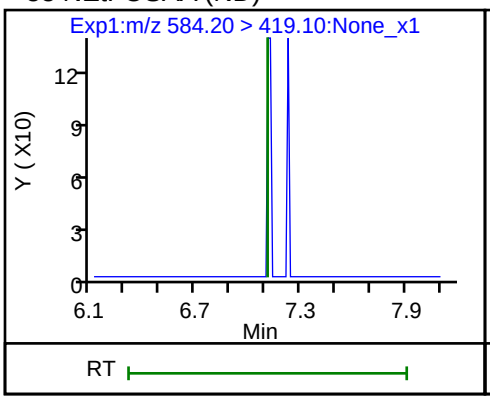
53 PFDA (ND)



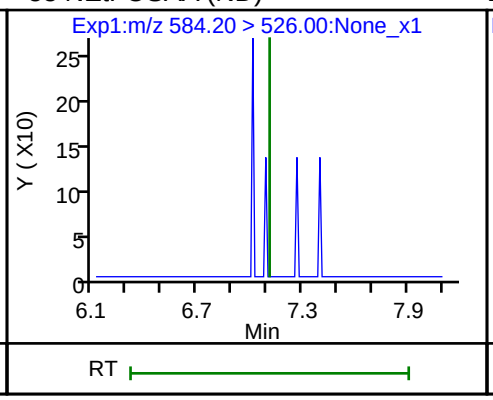
D 54 d5-NEtFOSAA



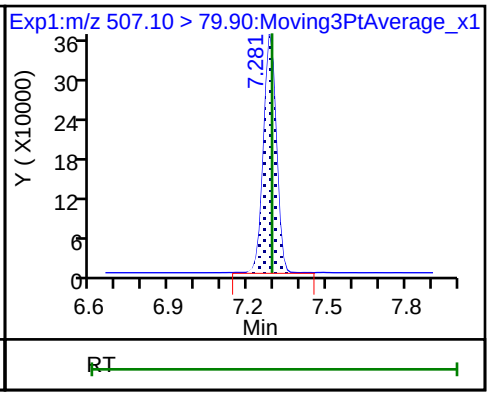
55 NEtFOSAA (ND)



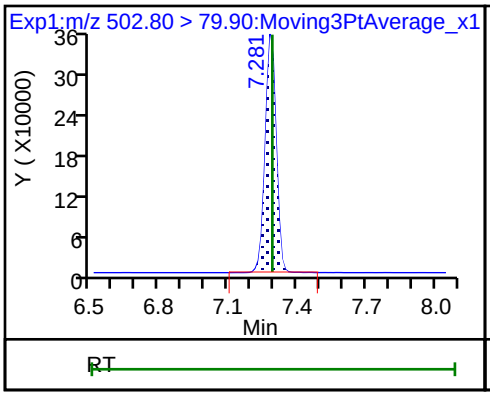
55 NEtFOSAA (ND)



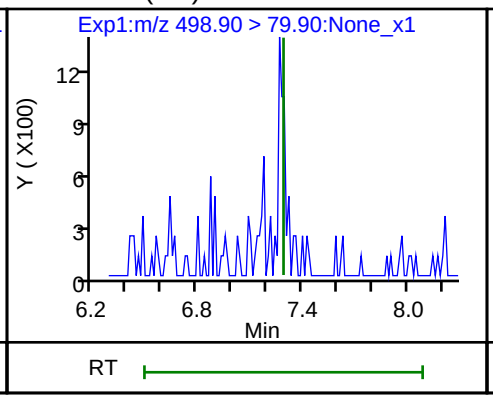
D 56 13C8 PFOS



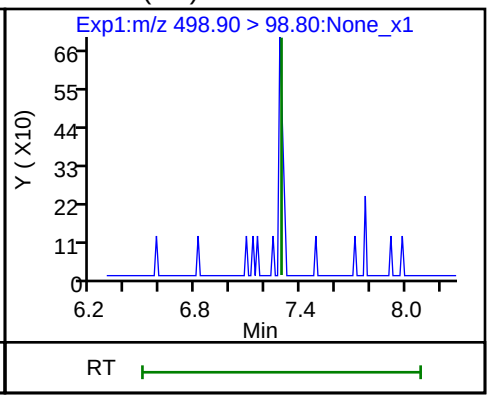
* 57 13C4 PFOS



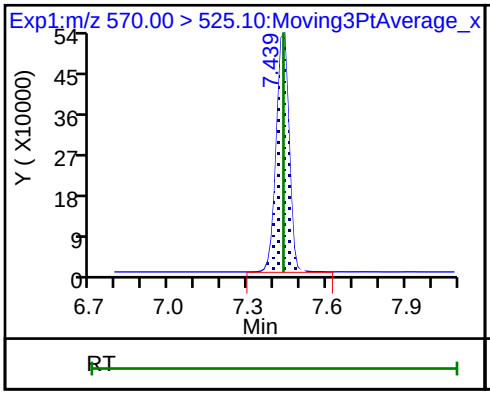
58 PFOS (ND)



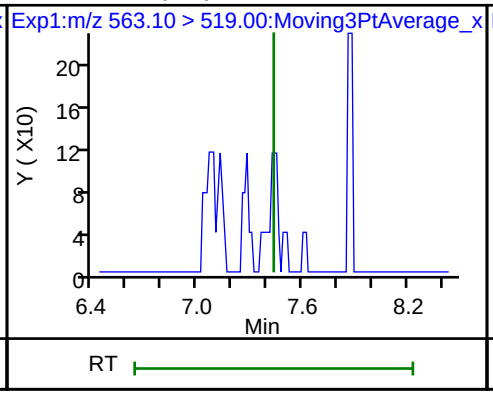
58 PFOS (ND)



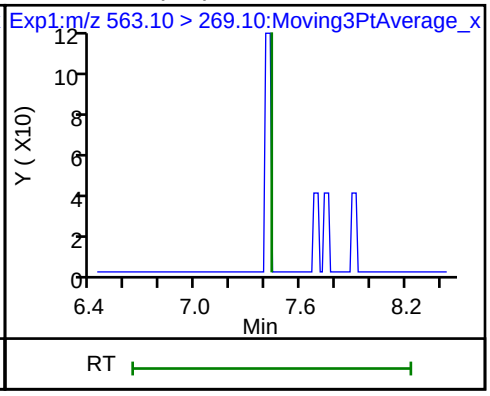
D 59 13C7 PFUnA



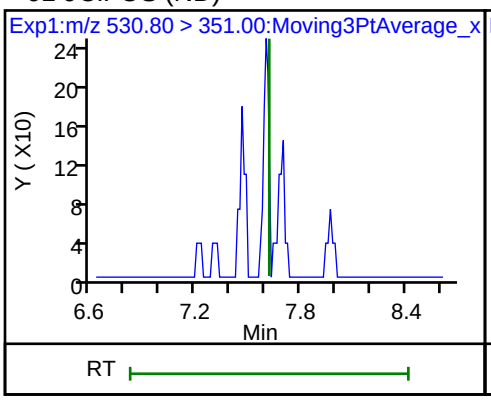
60 PFUnA (ND)



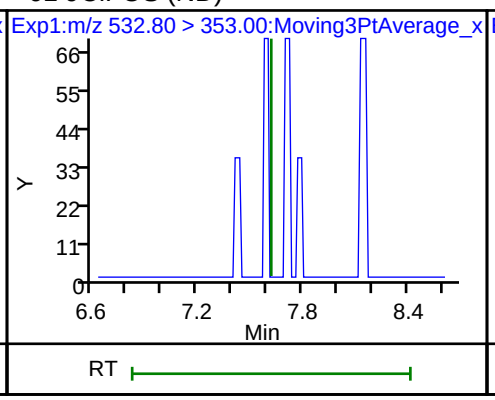
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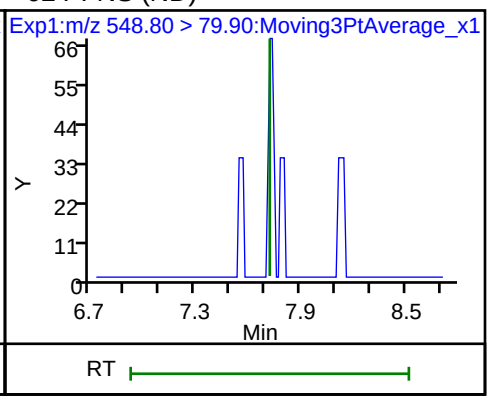
61 9ClFOS (ND)



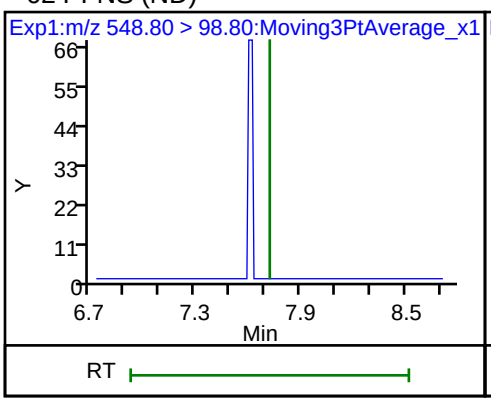
61 9ClFOS (ND)



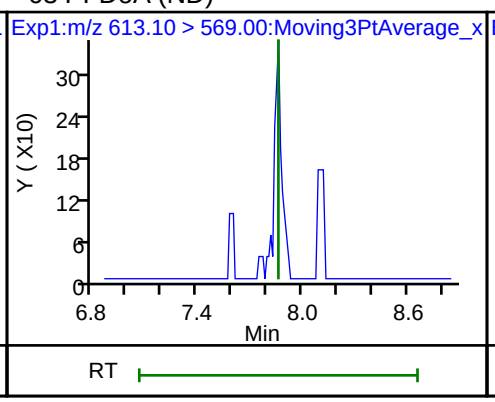
62 PFNS (ND)



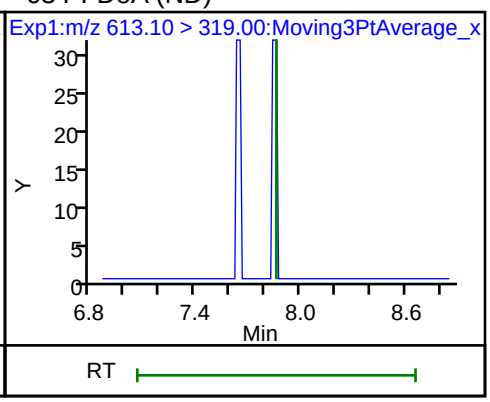
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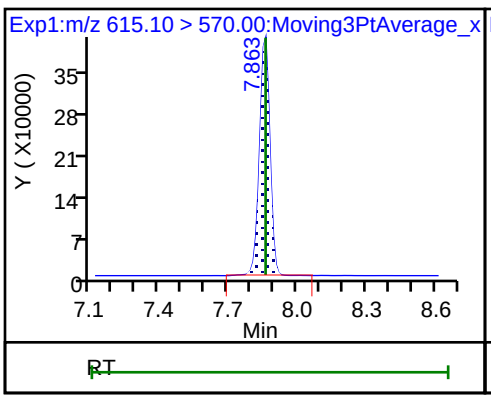
63 PFDoA (ND)



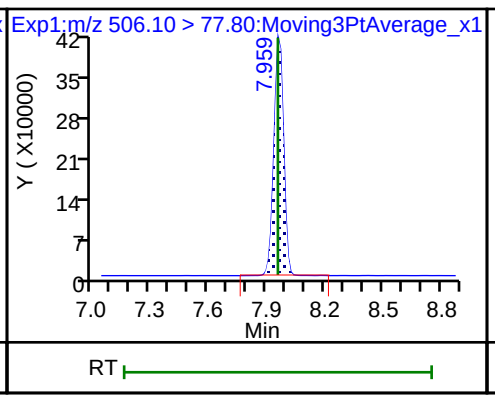
63 PFDoA (ND)



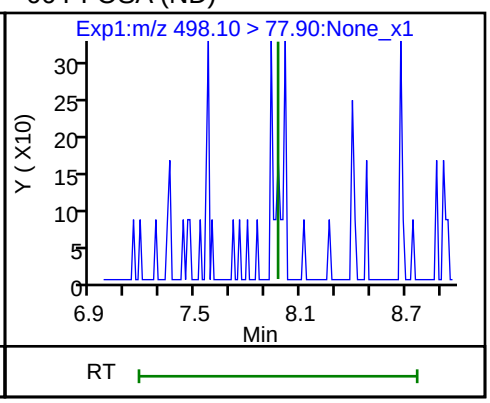
D 64 13C2 PFDoA



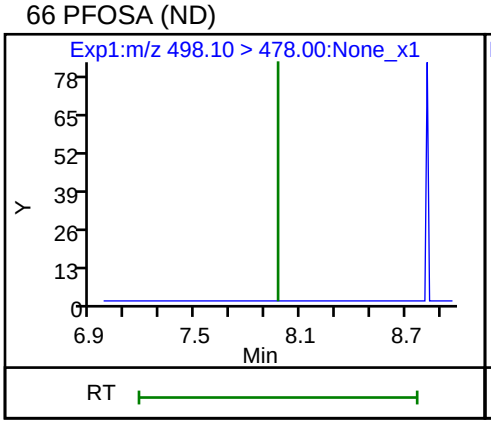
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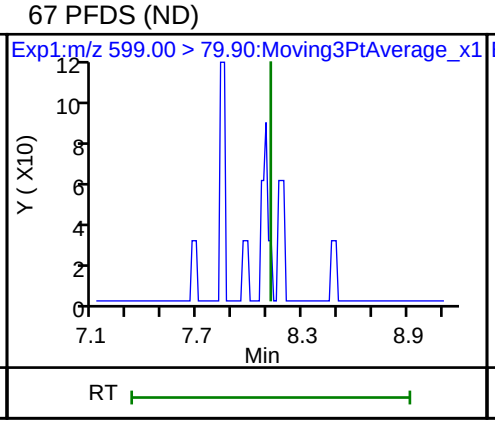
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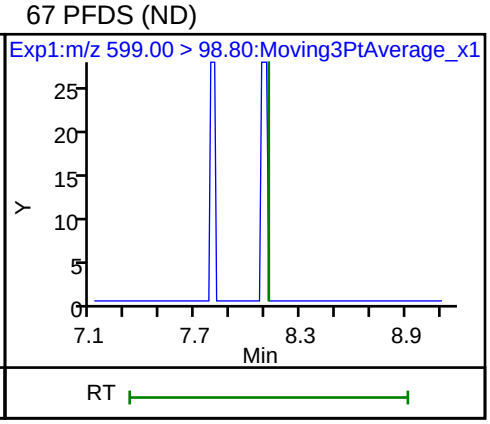
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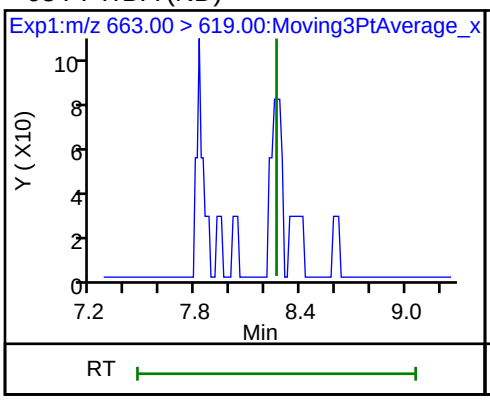
67 PFDS (ND)



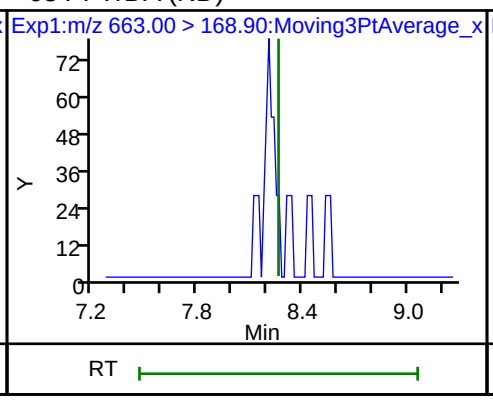
67 PFDS (ND)



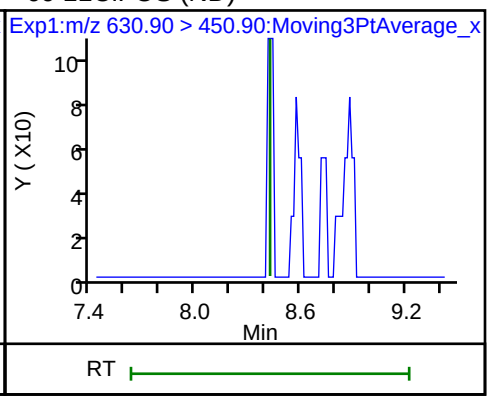
68 PFTrDA (ND)



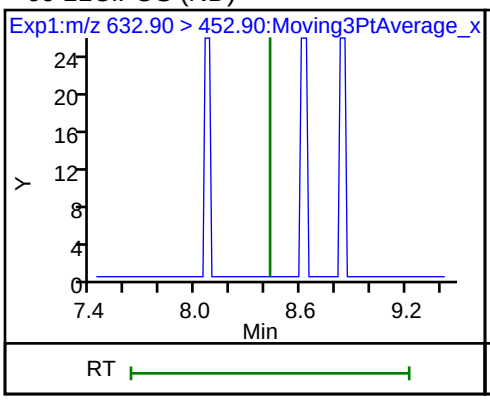
68 PFTrDA (ND)



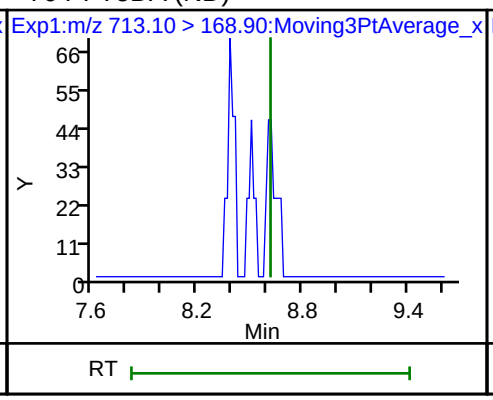
69 11ClFOS (ND)



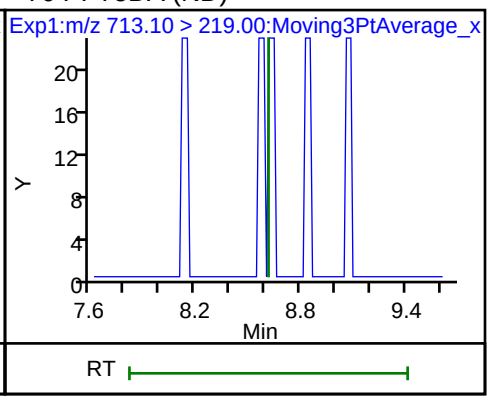
69 11ClFOS (ND)



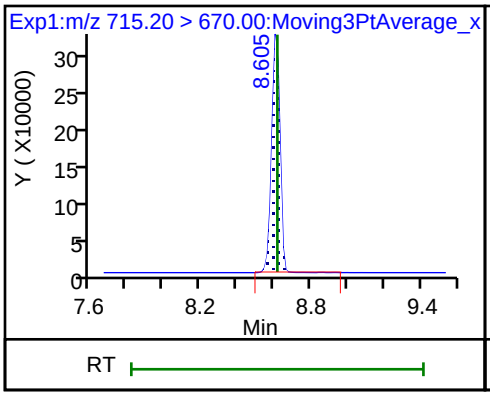
70 PFTeDA (ND)



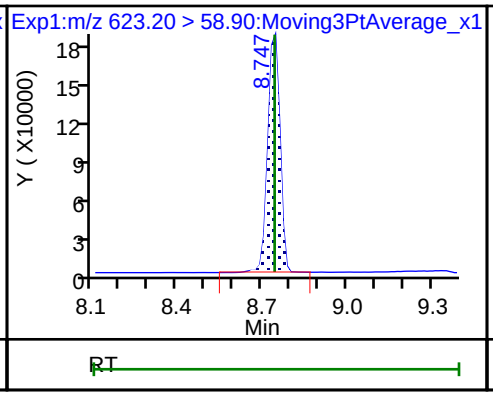
70 PFTeDA (ND)



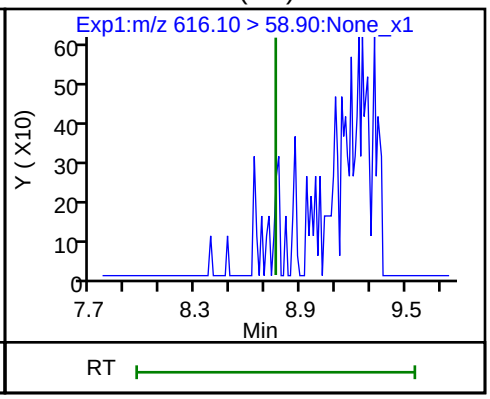
D 71 13C2 PFTeDA



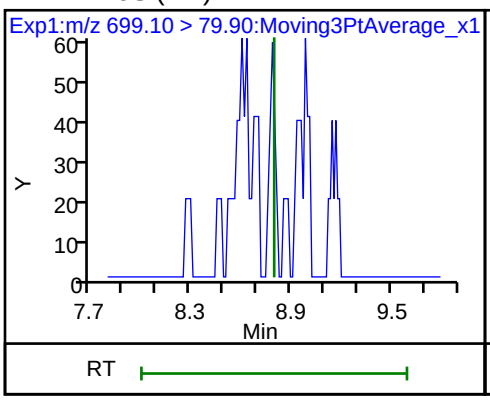
D 72 d7-N-Me-FOSE



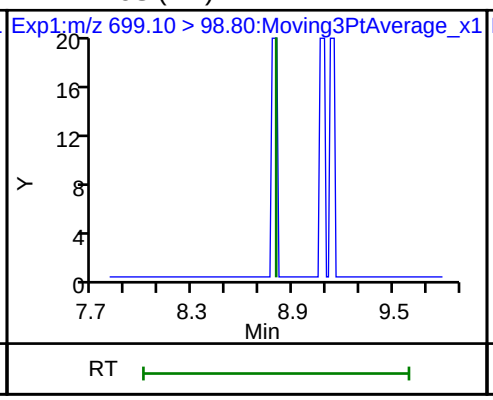
73 N-MeFOSE-M (ND)



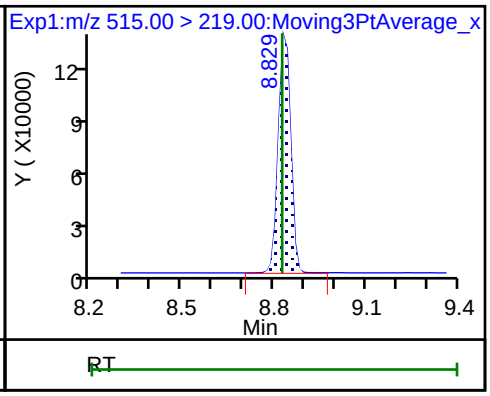
74 PFDoS (ND)



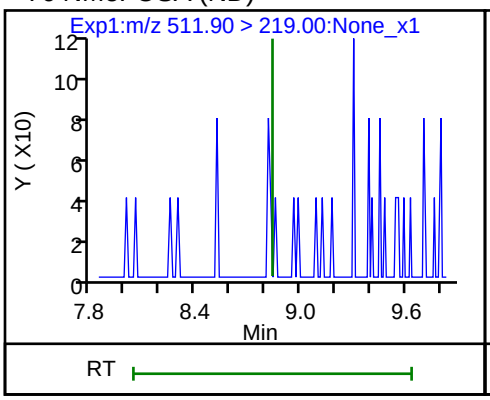
74 PFDoS (ND)



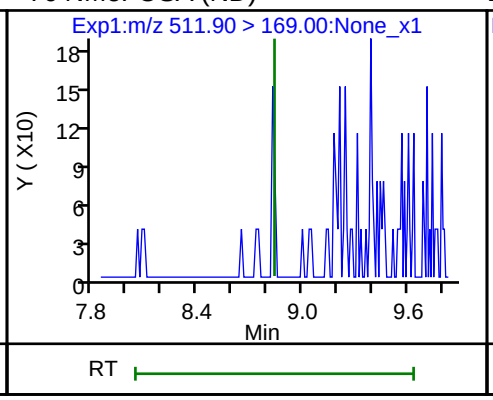
D 75 d3-NMePFOSA



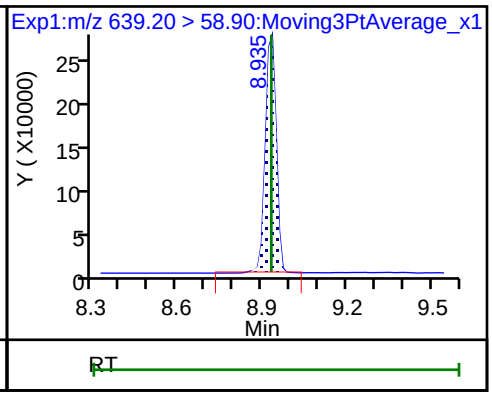
76 NMeFOSA (ND)



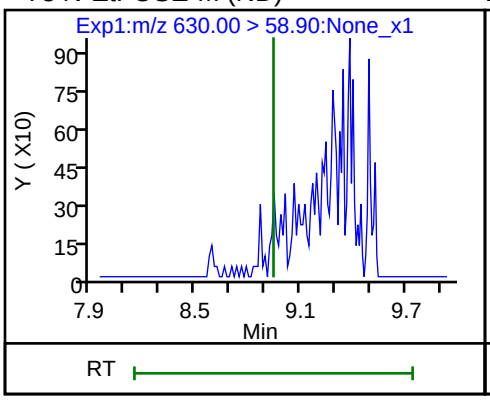
76 NMeFOSA (ND)



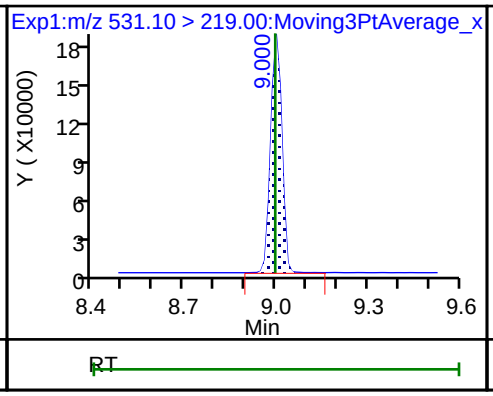
D 77 d9-N-EtFOSE



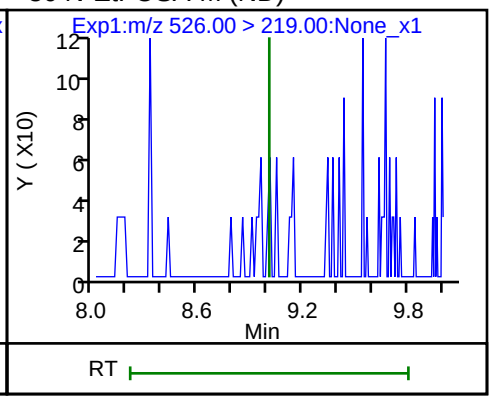
78 N-EtFOSE-M (ND)



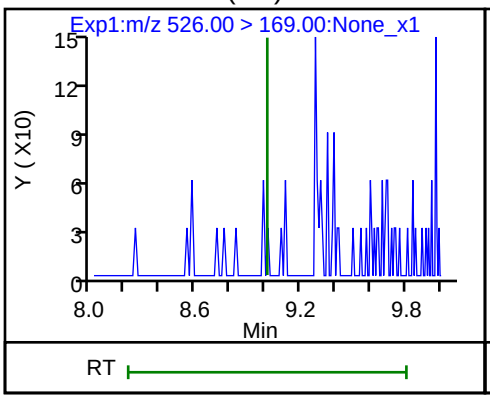
D 79 d5-NEtPFOSA



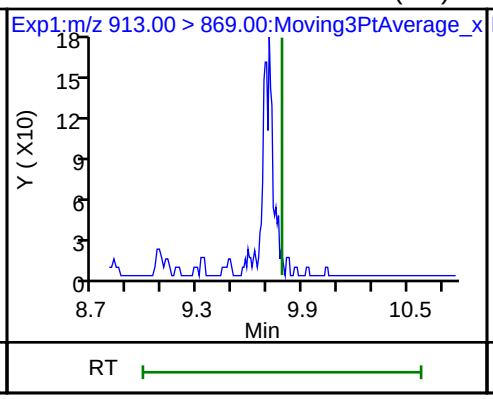
80 N-EtFOSA-M (ND)



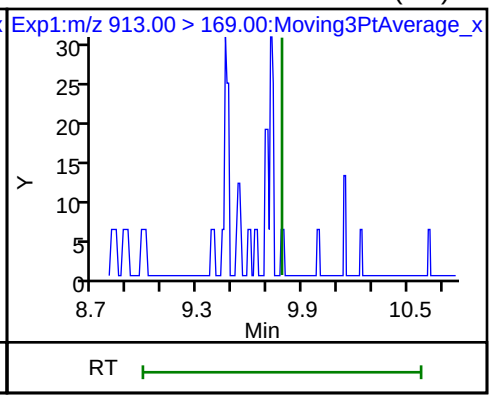
80 N-EtFOSA-M (ND)



81 Perfluorooctadecanoic acid (ND)



81 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-763424/9

Matrix: Solid
Lab File ID: 26Feb02CAL-61.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/02/2026 16:53

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763424
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.010	U	0.010	0.0040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.010	U	0.010	0.0040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.010	U	0.010	0.0040
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.010	U	0.010	0.0040
335-67-1	Perfluorooctanoic acid (PFOA)	0.010	U	0.010	0.0040
375-95-1	Perfluorononanoic acid (PFNA)	0.010	U	0.010	0.0040
335-76-2	Perfluorodecanoic acid (PFDA)	0.010	U	0.010	0.0040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.010	U	0.010	0.0040
307-55-1	Perfluorododecanoic acid (PFDoA)	0.010	U	0.010	0.0040
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.010	U	0.010	0.0040
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.010	U	0.010	0.0040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.010	U	0.010	0.0040
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.010	U	0.010	0.0040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.010	U	0.010	0.0040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.010	U	0.010	0.0040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.010	U	0.010	0.0040
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.010	U	0.010	0.0040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.010	U	0.010	0.0040
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.010	U	0.010	0.0040
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.010	U	0.010	0.0040
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.010	U	0.010	0.0040
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.010	U	0.010	0.0040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.010	U	0.010	0.0040
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.010	U	0.010	0.0040
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-763424/9

Matrix: Solid
Lab File ID: 26Feb02CAL-61.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/02/2026 16:53

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763424
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.010	U	0.010	0.0040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.010	U	0.010	0.0040
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.010	U	0.010	0.0040
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.010	U	0.010	0.0040
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.010	U	0.010	0.0040
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.010	U	0.010	0.0040
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.010	U	0.010	0.0040
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.010	U	0.010	0.0040
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.010	U	0.010	0.0040
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.010	U	0.010	0.0040
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.010	U	0.010	0.0040
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.010	U	0.010	0.0040
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.010	U	0.010	0.0040
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.010	U	0.010	0.0040
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 410-763424/9

Matrix: Solid Lab File ID: 26Feb02CAL-61.d

Analysis Method: 1633A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 02/02/2026 16:53

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763424 Units: ng/mL

Preparation Batch No.: Instrument ID: 30575

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	95.7		8-130
2283397-79-3	13C5 PFPeA	99.5		35-130
2328024-54-8	13C5 PFHxA	90.8		40-130
2328024-55-9	13C4 PFHpA	102		40-130
1350614-84-4	13C8 PFOA	92.2		40-130
2283397-80-6	13C9 PFNA	104		40-130
2328024-56-0	13C6 PFDA	104		40-130
STL02580	13C7 PFUnA	110		40-130
STL02116	13C2 PFTeDA	118		20-130
2708218-83-9	13C3 PFBS	97.5		40-135
2708218-85-1	13C3 PFHxS	99.9		40-130
2265893-05-6	13C8 PFOS	100		40-130
STL01056	13C8 FOSA	93.1		40-130
1400690-70-1	d3-NMeFOSAA	103		40-135
1265205-97-7	d5-NEtFOSAA	107		40-150
STL02395	13C2 4:2 FTS	104		40-165
STL02279	13C2 6:2 FTS	116		40-215
STL02280	13C2 8:2 FTS	102		40-275
STL02255	13C3 HFPO-DA	98.4		40-130
STL02277	d7-N-MeFOSE-M	96.4		20-130
STL02278	d9-N-EtFOSE-M	95.1		15-130
STL02704	d5-NEtPFOSA	95.3		10-130
STL02705	d3-NMePFOSA	92.6		10-130
960315-52-0	13C2 PFDoA	107		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-61.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 02-Feb-2026 16:53:46 ALS Bottle#: 1 Worklist Smp#: 9
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: ICB
Misc. Info.: Plate: 1 Rack: 1
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 02-Feb-2026 17:58:00 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1626

First Level Reviewer: LDU5 Date: 02-Feb-2026 17:26:20
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C3PFPrA										
166.00 > 121.00	2.107	2.114	-0.007	0.485	1517310	1.92		96.1	868	
D 6 13C4-PFBA										
216.80 > 171.90	4.345	4.338	0.007	1.000	2518953	1.91		95.7	7689	
* 7 13C3PFBA										
216.00 > 172.00	4.345	4.338	0.007		2178258	2.00			6669	
D 11 13C5 PFPeA										
268.30 > 223.00	4.964	4.955	0.009	0.915	1944907	1.99		99.5	8633	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.248	5.240	0.008	0.813	1082314	4.87		104	5630	
D 17 13C5 PFHxA										
318.00 > 273.00	5.428	5.418	0.010	1.000	2502575	1.82		90.8	10141	
* 18 13C2 PFHxA										
315.10 > 270.00	5.428	5.432	-0.004		5962859	5.00			12218	
D 20 13C3 PFBS										
302.10 > 79.90	5.565	5.568	-0.003	0.862	2031137	1.82		97.5	9916	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.622	5.611	0.011	1.036	1856088	1.97		98.4	5428	
D 26 13C4 PFHpA										
367.10 > 322.00	5.854	5.845	0.009	1.079	2769565	2.05		102	5116	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.041	6.033	0.008	0.936	725710	5.51		116	3002	
D 35 13C8 PFOA										
421.10 > 376.00	6.230	6.233	-0.003	0.998	3218540	1.84		92.2	7285	
* 34 13C4 PFOA										
417.10 > 372.00	6.243	6.233	0.010		8728070	5.00			10155	
* 38 18O2 PFHxS										
403.00 > 83.90	6.456	6.460	-0.004		1664878	1.90			7781	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 37 13C3 PFHxS										
402.10 > 79.90	6.456	6.460	-0.004	1.000	1666148	1.89		99.9	9339	
D 42 13C9 PFNA										
472.10 > 427.00	6.628	6.620	0.008	1.000	3050418	2.08		104	6083	
* 41 13C5 PFNA										
468.00 > 423.00	6.628	6.620	0.008		2915453	2.00			8383	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.797	6.790	0.007	1.053	631195	4.92		102	2652	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.947	6.940	0.007	0.957	1663606	5.16		103	2601	
D 50 13C6 PFDA										
519.10 > 474.10	7.009	7.015	-0.006	1.000	3054560	2.09		104	6896	
* 52 13C2 PFDA										
515.10 > 470.10	7.009	7.015	-0.006		2868594	2.00			6487	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.117	7.124	-0.007	0.980	1525343	5.35		107	2877	
D 56 13C8 PFOS										
507.10 > 79.90	7.261	7.267	-0.006	1.000	1538049	1.92		100	3846	
* 57 13C4 PFOS										
502.80 > 79.90	7.261	7.267	-0.006		1660425	1.92			9641	
D 59 13C7 PFUnA										
570.00 > 525.10	7.404	7.409	-0.005	1.056	3883245	2.21		110	10939	
D 81 PFDoA										
615.10 > 570.00	7.787	7.801	-0.014	1.111	3321786	2.13		107	7272	
D 65 13C8 FOSA										
506.10 > 77.80	7.952	7.957	-0.005	1.095	1845284	1.86		93.1	5256	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.486	8.494	-0.008	1.211	2032081	2.36		118	4048	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.716	8.723	-0.007	1.200	699438	4.82		96.4	616	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.803	8.809	-0.006	1.212	416896	1.85		92.6	3309	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.905	8.897	0.008	1.226	702275	4.76		95.1	1125	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.974	8.967	0.007	1.236	523501	1.91		95.3	2597	

QC Flag Legend

Processing Flags

Reagents:

1633_125_IS_V_00565 Amount Added: 50.00 Units: uL
1633_125_SS_00201 Amount Added: 5.00 Units: uL

Report Date: 02-Feb-2026 17:58:22 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-61.d

Injection Date: 02-Feb-2026 16:53:46 Instrument ID: 30575

Lims ID: ICB

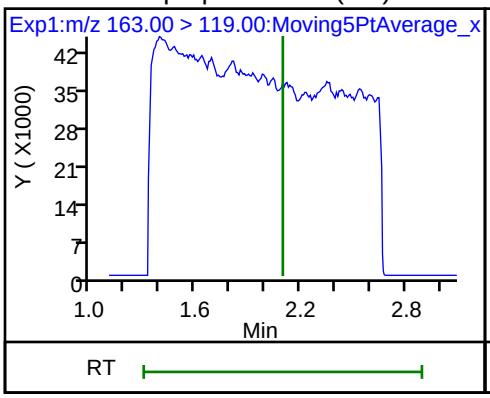
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 1 Worklist Smp#: 9

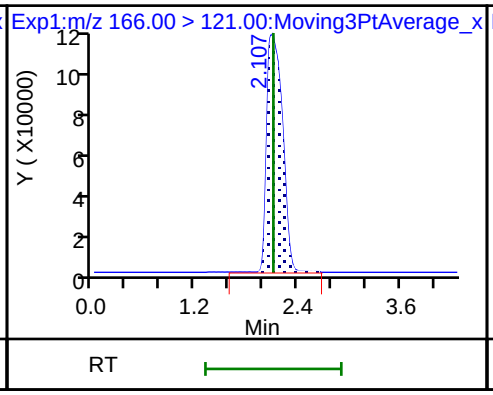
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

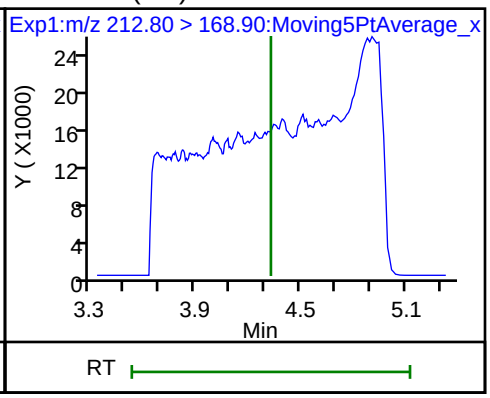
1 Perfluoropropionic acid (ND)



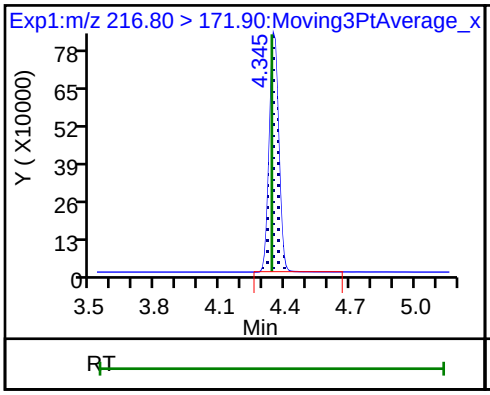
D 2 13C3PFPrA



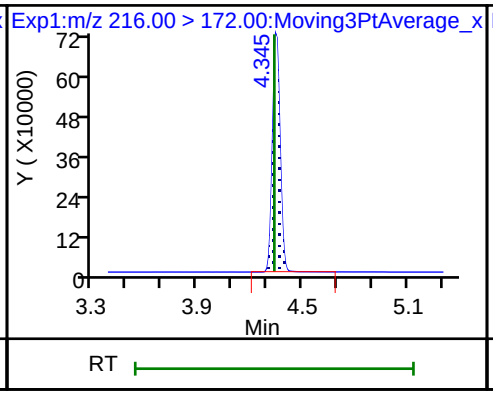
5 PFBA (ND)



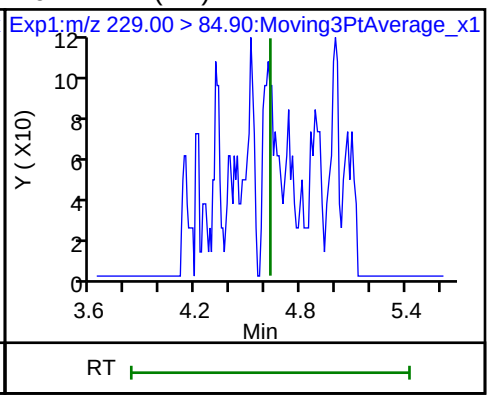
D 6 13C4-PFBA



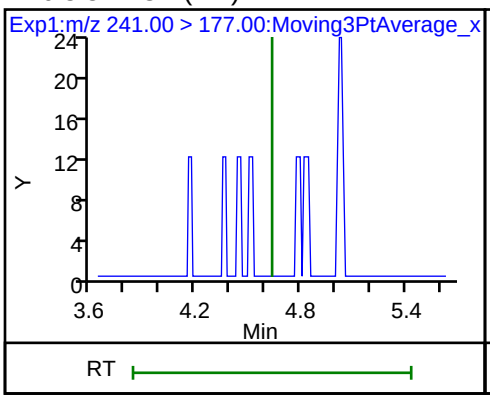
* 7 13C3PFBA



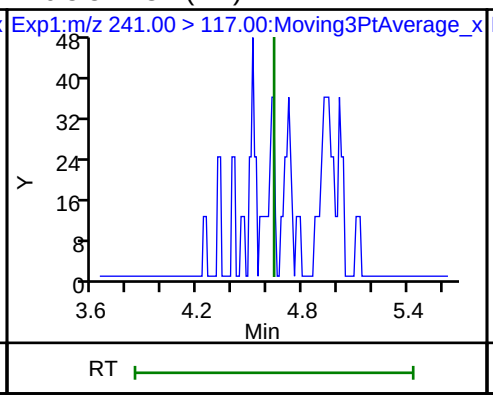
9 PFMPA (ND)



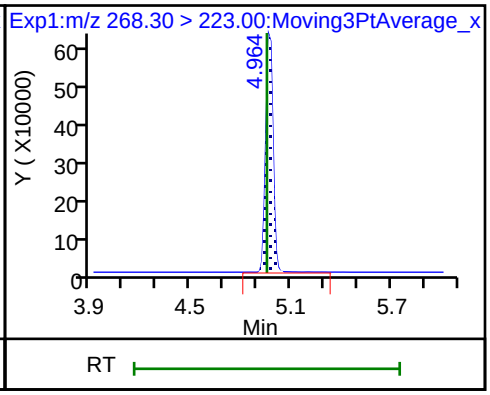
10 3:3 FTCA (ND)



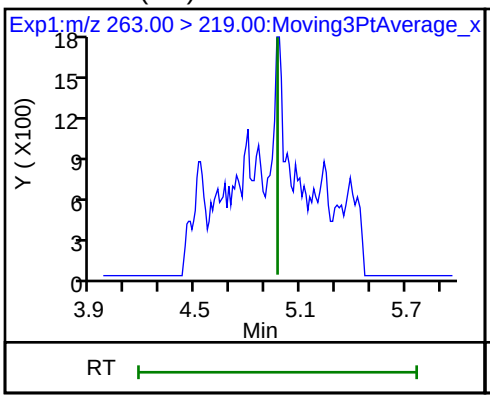
10 3:3 FTCA (ND)



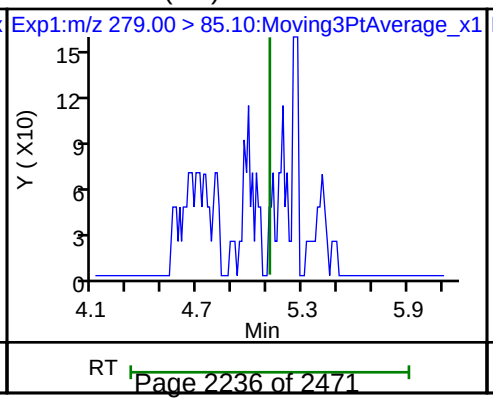
D 11 13C5 PFPeA



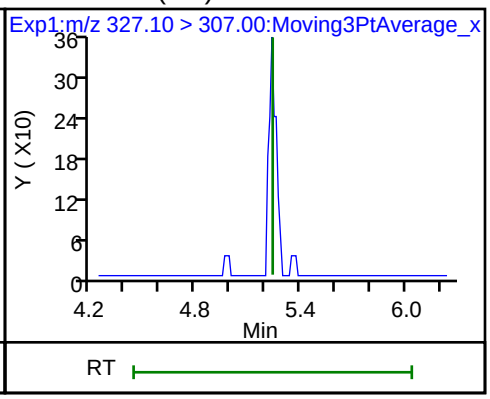
12 PFPA (ND)



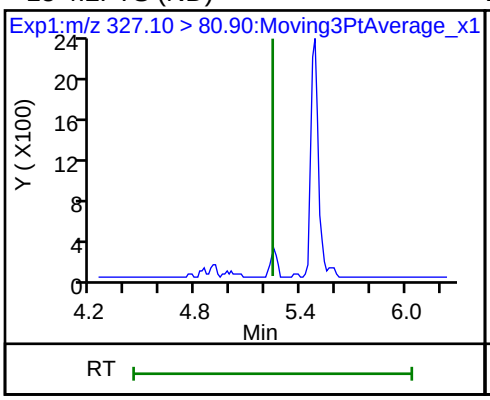
13 PFMBA (ND)



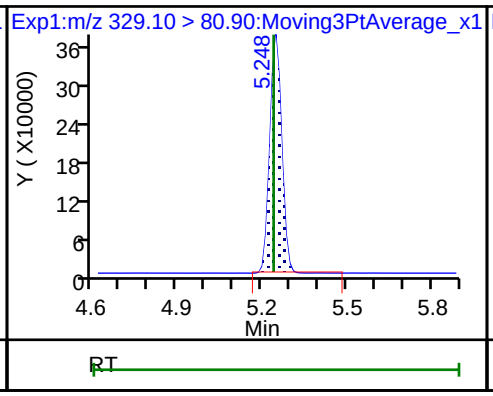
15 4:2FTS (ND)



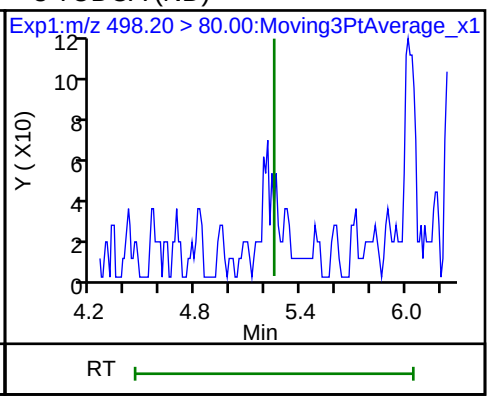
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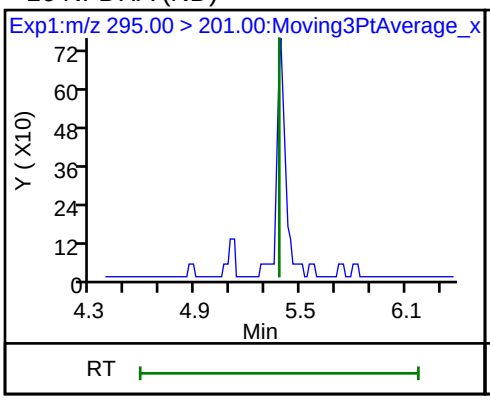
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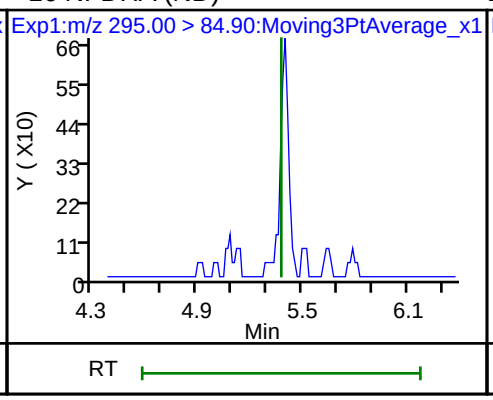
3 TUDCA (ND)



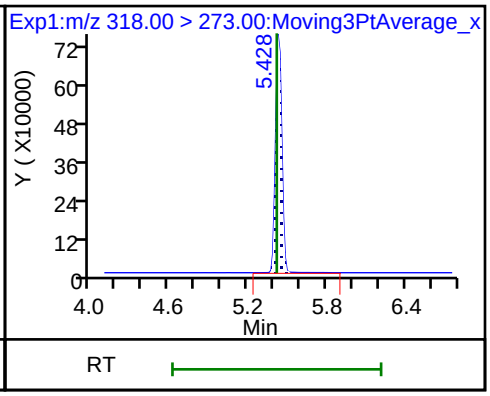
16 NFDHA (ND)



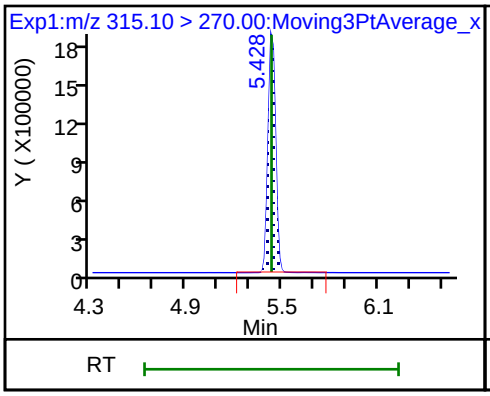
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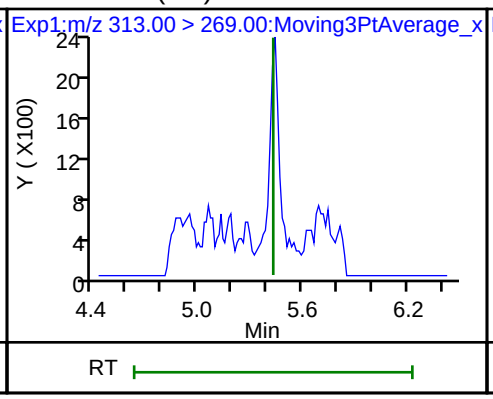
D 17 13C5 PFHxA



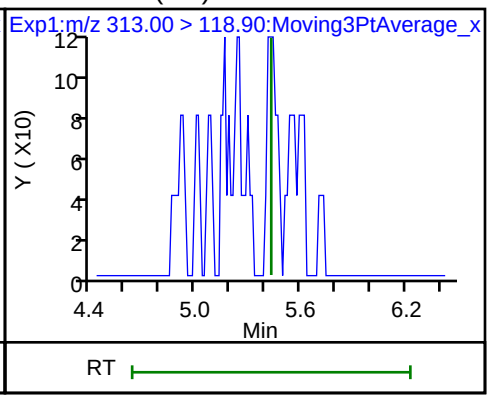
* 18 13C2 PFHxA



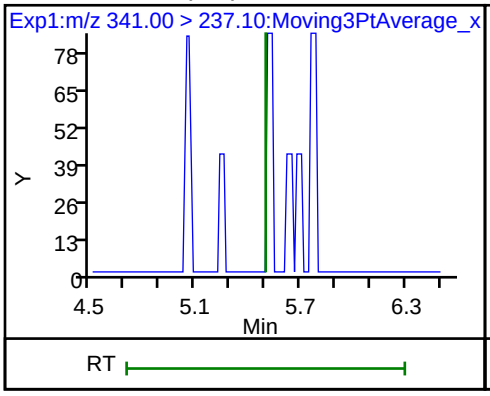
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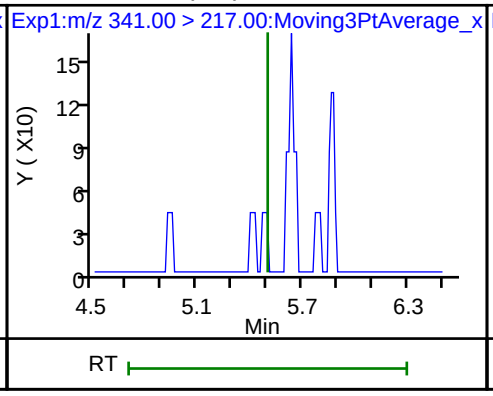
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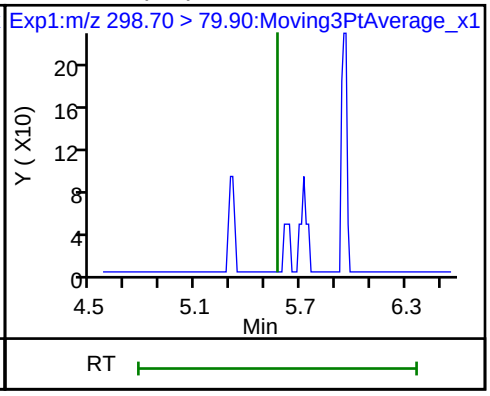
22 5:3 FTCA (ND)



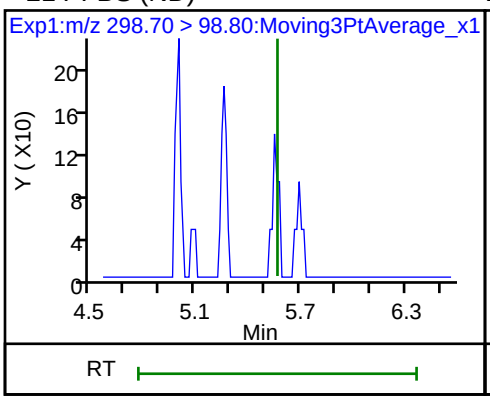
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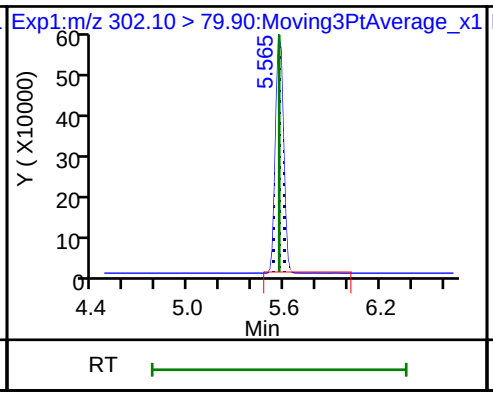
21 PFBS (ND)



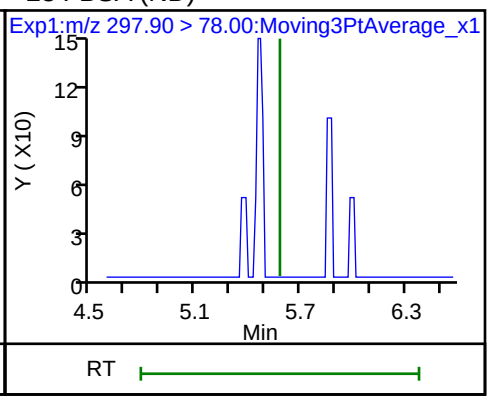
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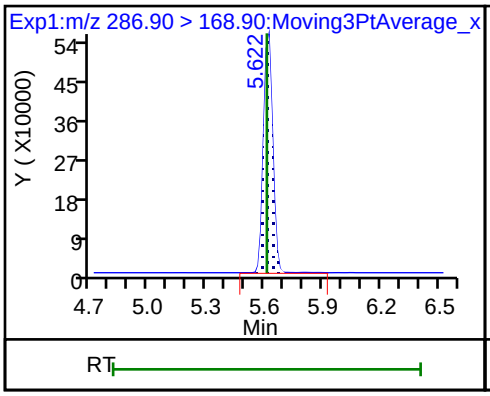
D 20 13C3 PFBS



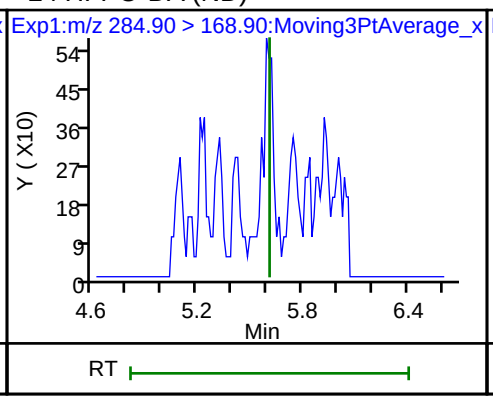
28 FBSA (ND)



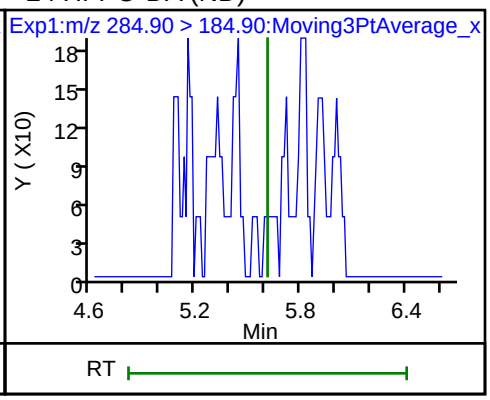
D 23 13C3 HFPO-DA



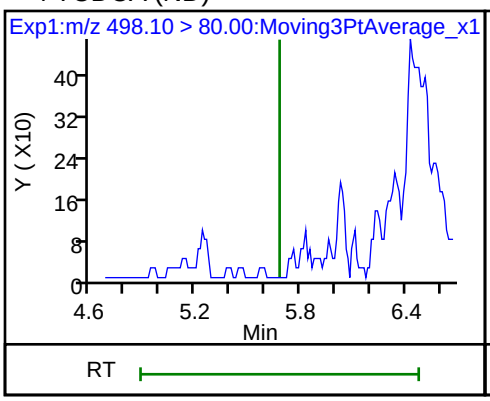
24 HFPO-DA (ND)



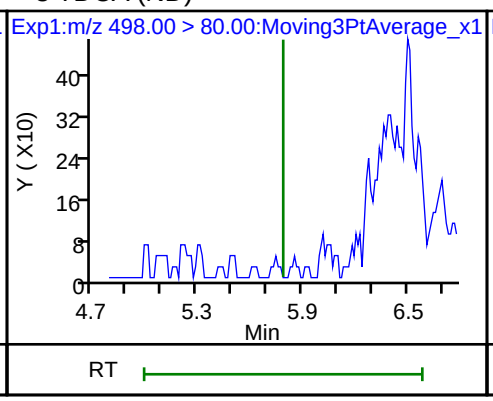
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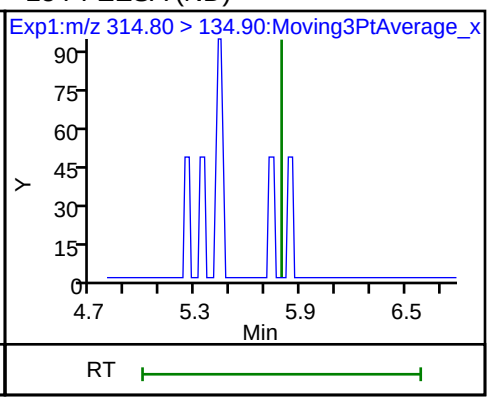
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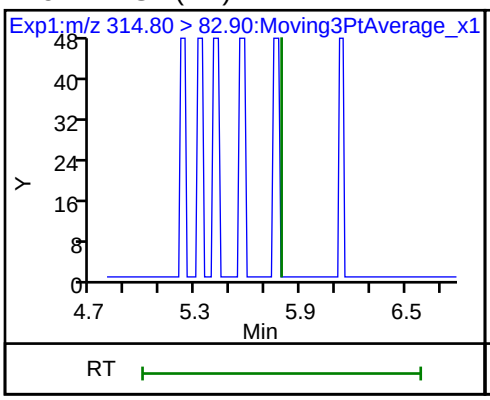
8 TDCA (ND)



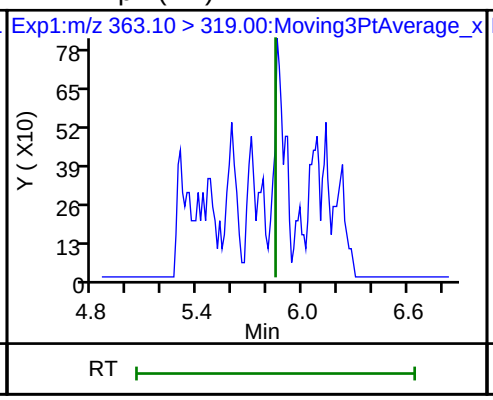
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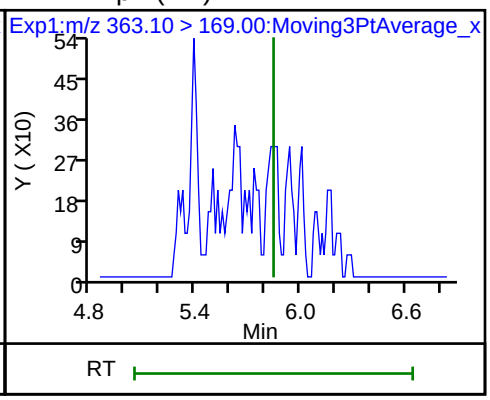
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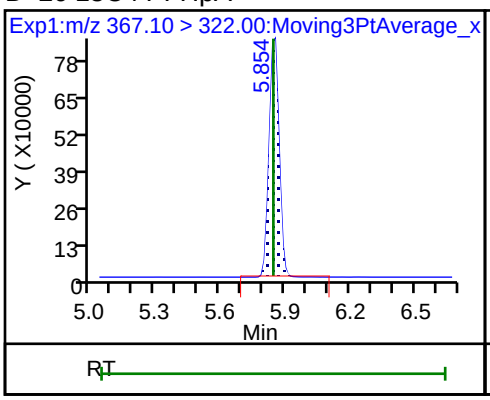
27 PFHpA (ND)



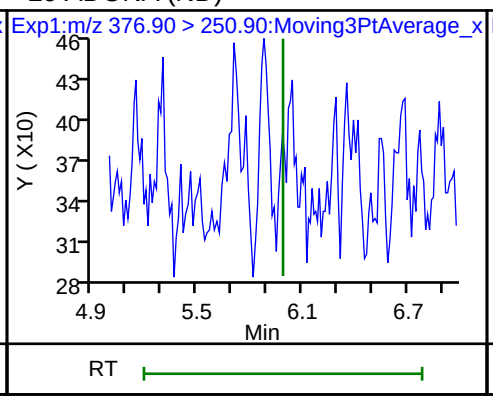
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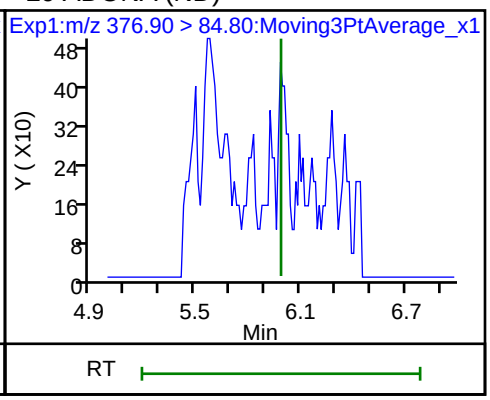
D 26 13C4 PFHpA



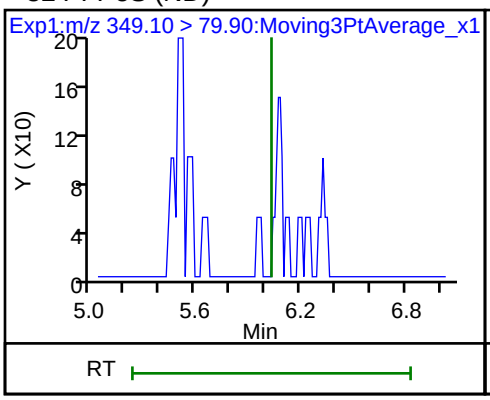
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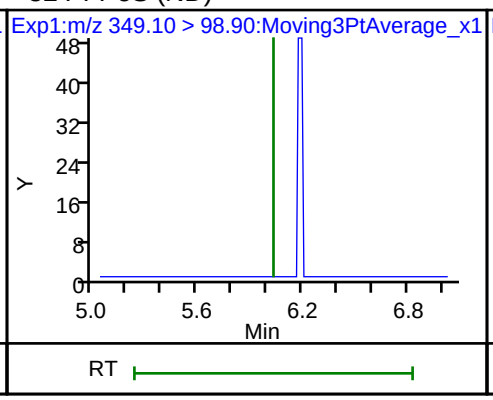
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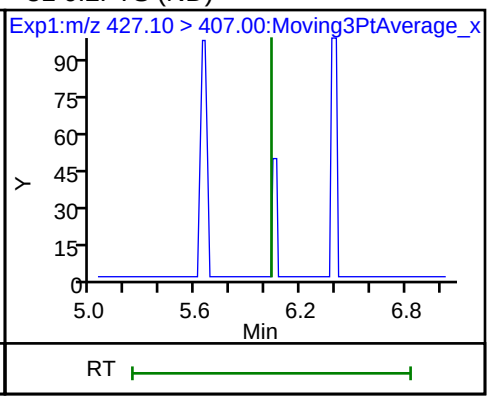
32 PFPeS (ND)



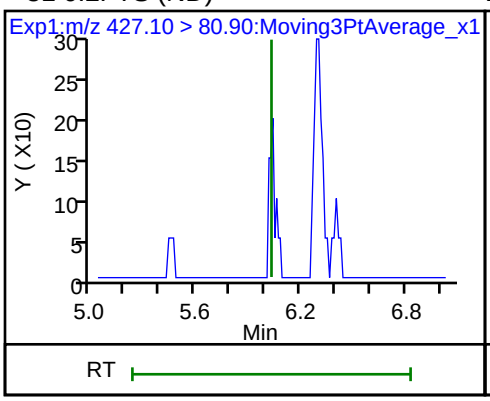
32 PFPeS (ND)



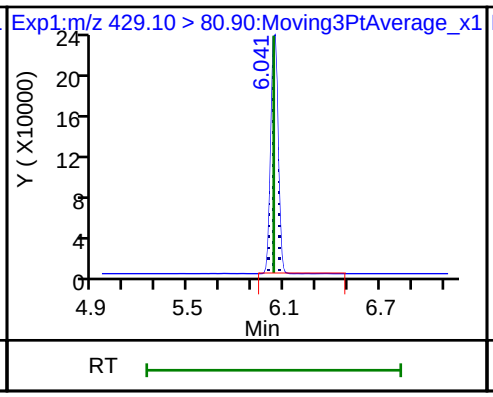
31 6:2FTS (ND)



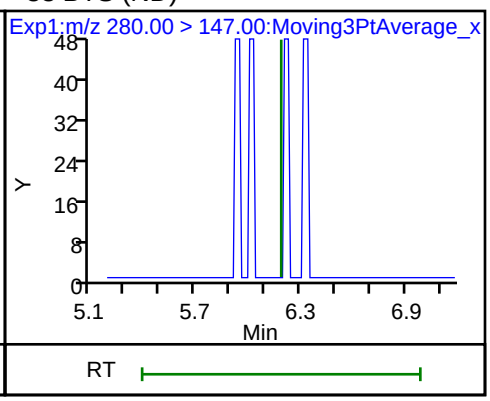
31 6:2FTS (ND)



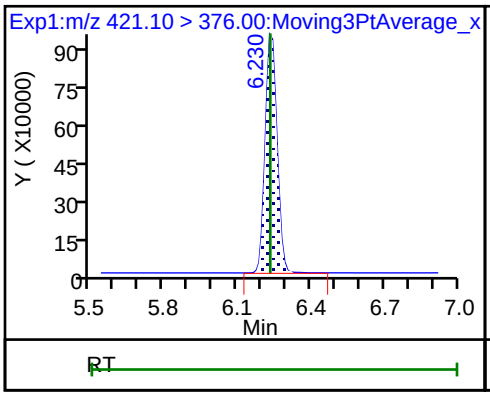
D 30 13C2-6:2FTS



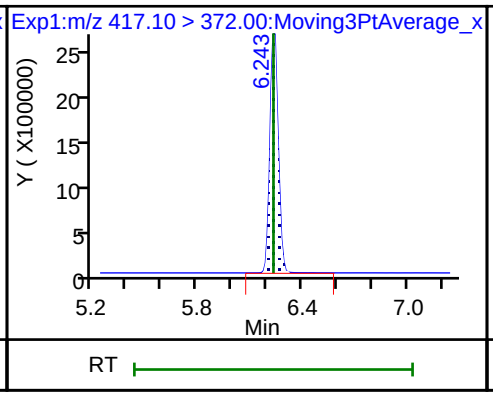
33 BTS (ND)



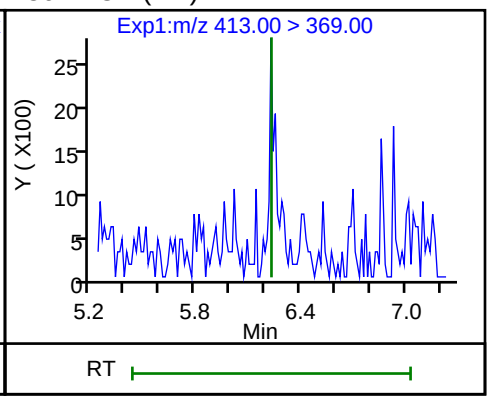
D 35 13C8 PFOA



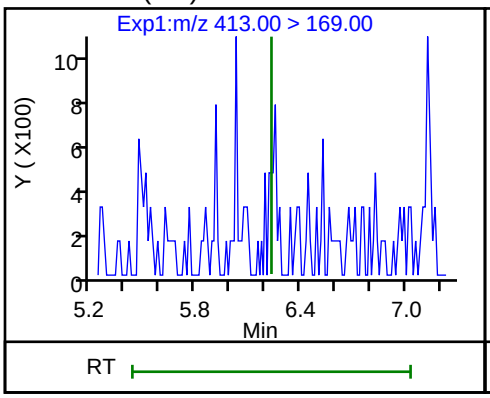
* 34 13C4 PFOA



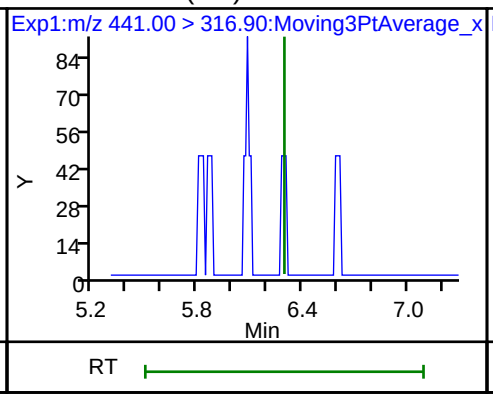
36 PFOA (ND)



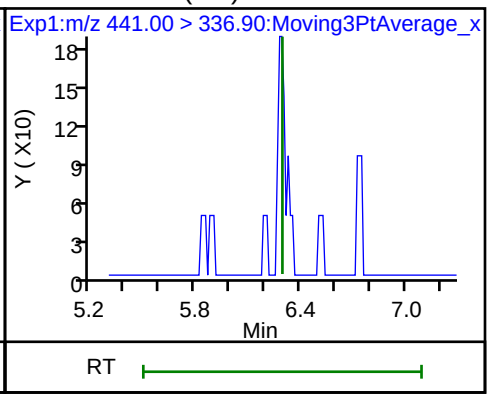
36 PFOA (ND)



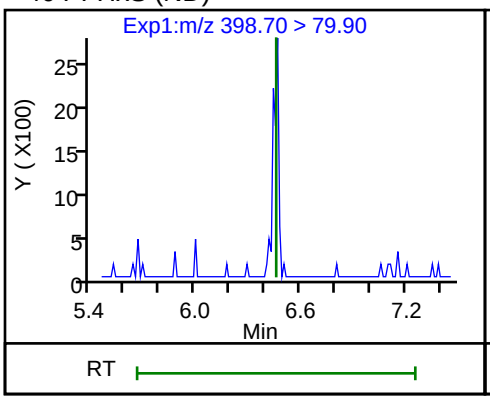
39 7:3 FTCA (ND)



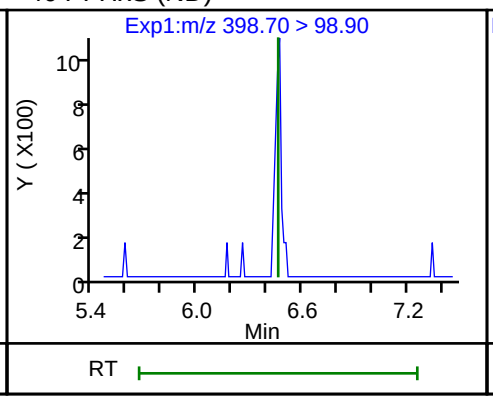
39 7:3 FTCA (ND)



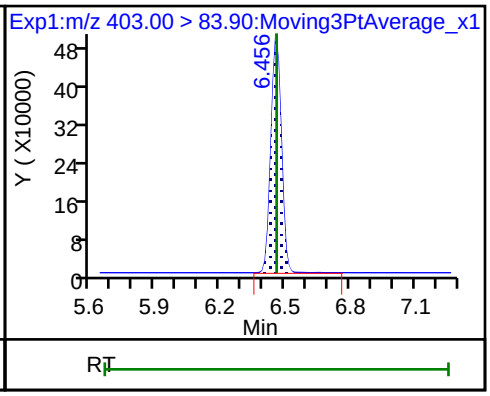
40 PFHxS (ND)



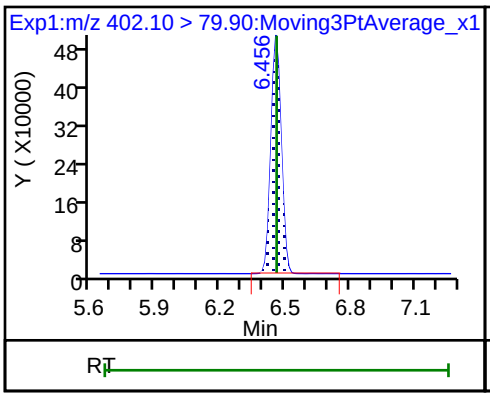
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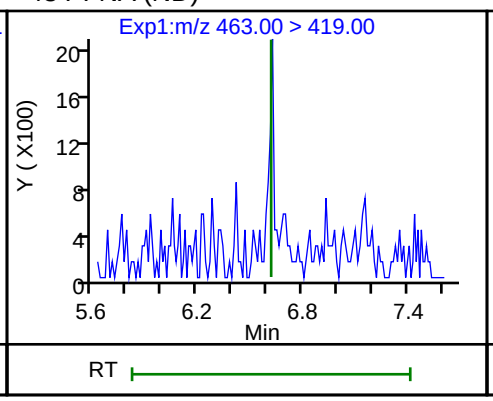
* 38 18O2 PFHxS



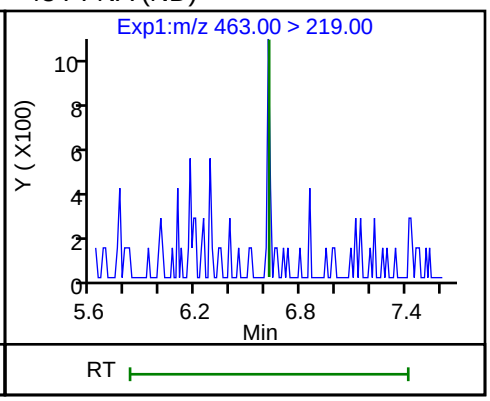
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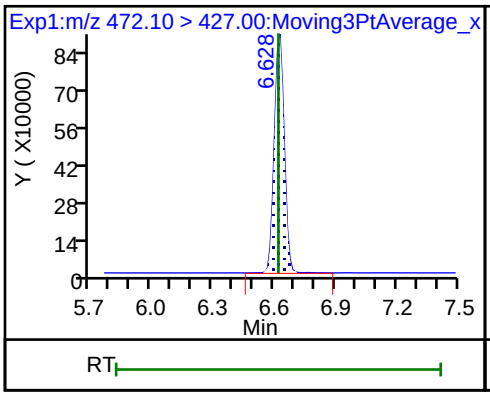
43 PFNA (ND)



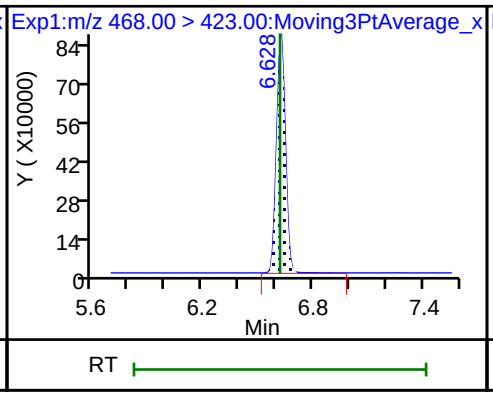
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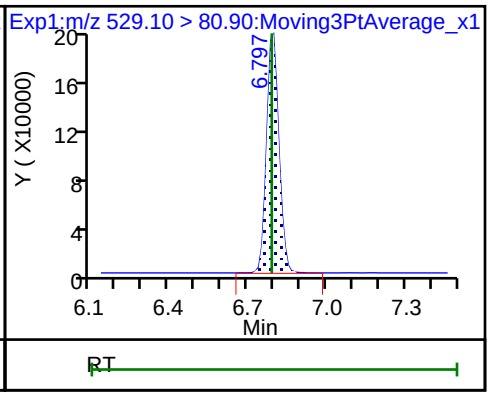
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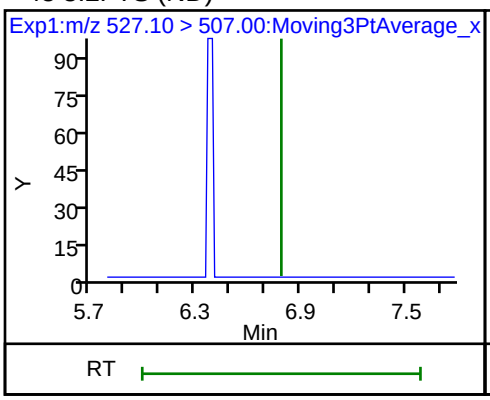
* 41 13C5 PFNA



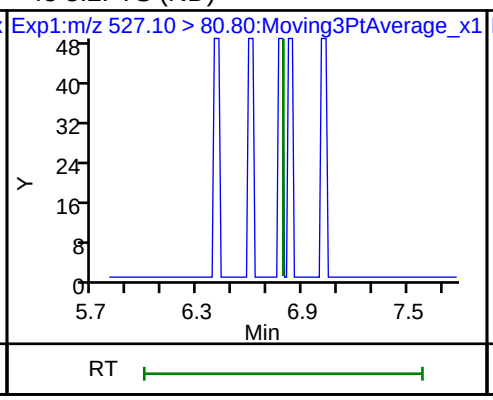
D 44 13C2-8:2FTS



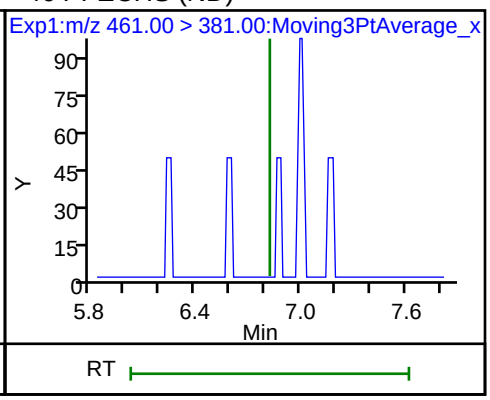
45 8:2FTS (ND)



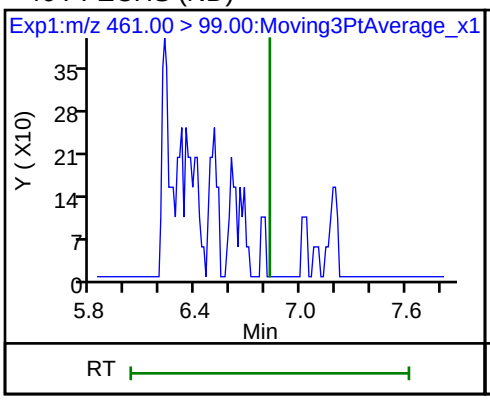
45 8:2FTS (ND)



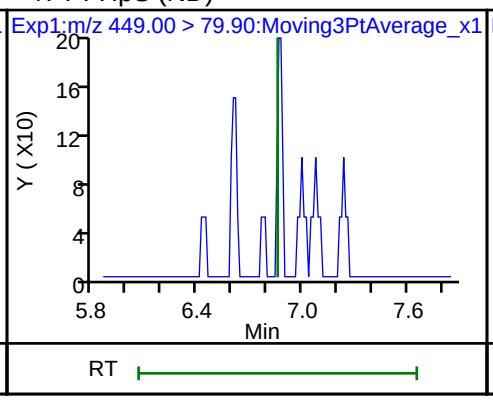
46 PFECHS (ND)



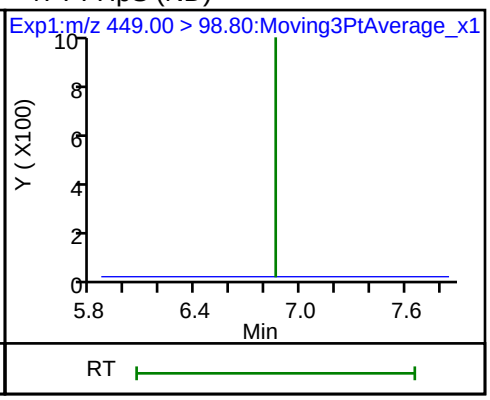
46 PFECHS (ND)



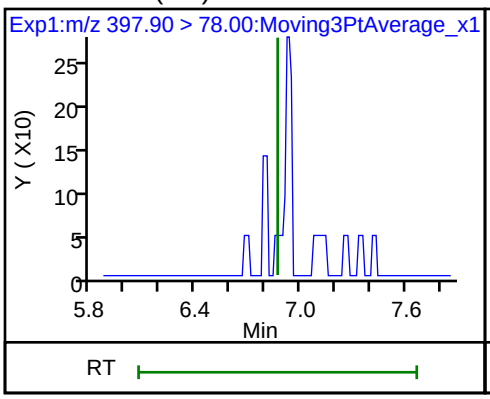
47 PFHpS (ND)



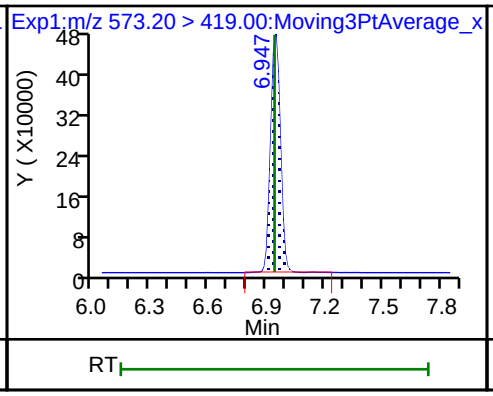
47 PFHpS (ND)



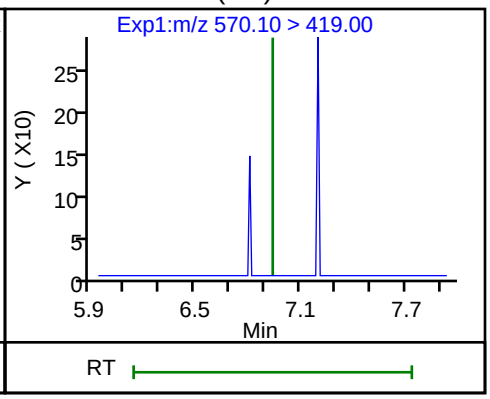
53 FHxSA (ND)



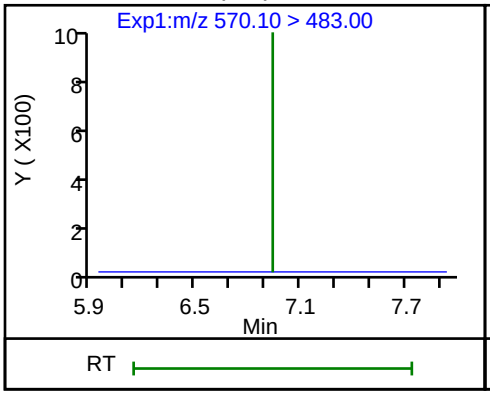
D 48 d3-NMeFOSAA



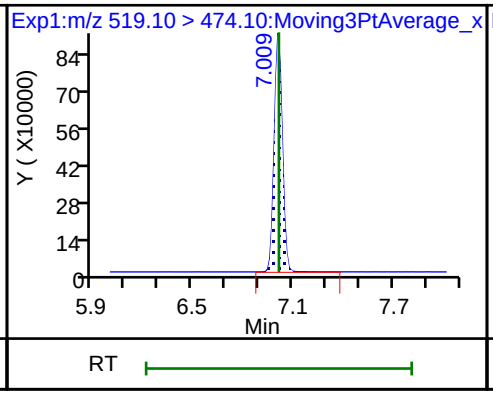
49 NMeFOSAA (ND)



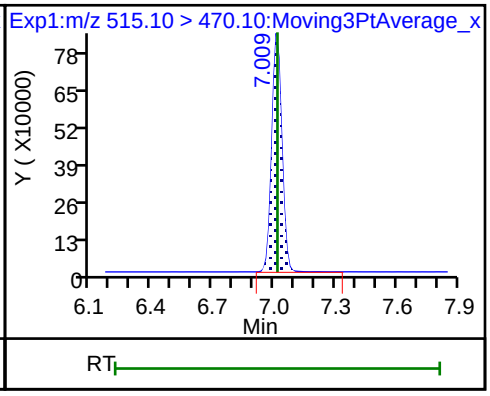
49 NMeFOSAA (ND)



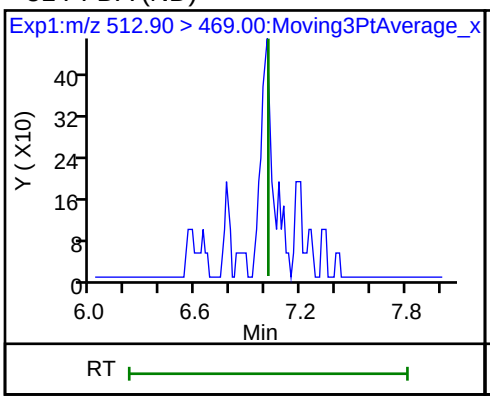
D 50 13C6 PFDA



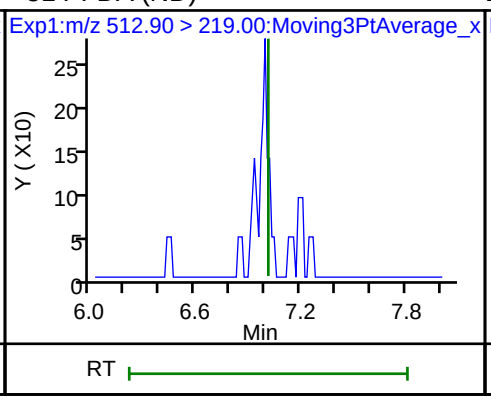
* 52 13C2 PFDA



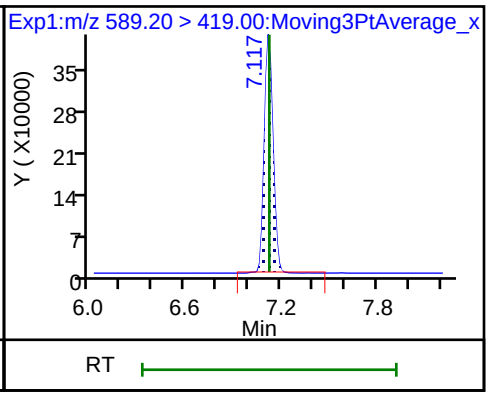
51 PFDA (ND)



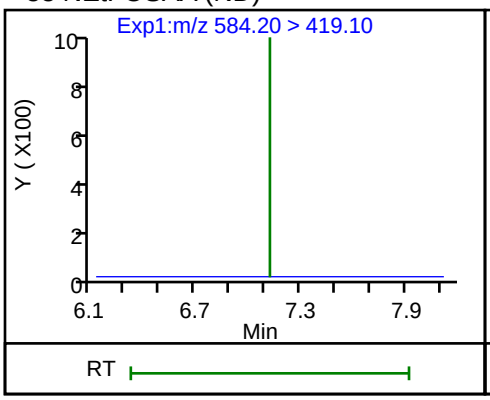
51 PFDA (ND)



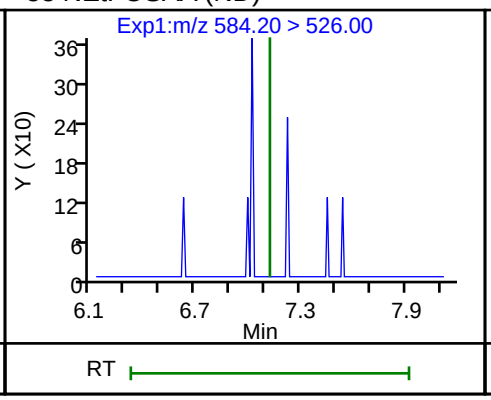
D 54 d5-NEtFOSAA



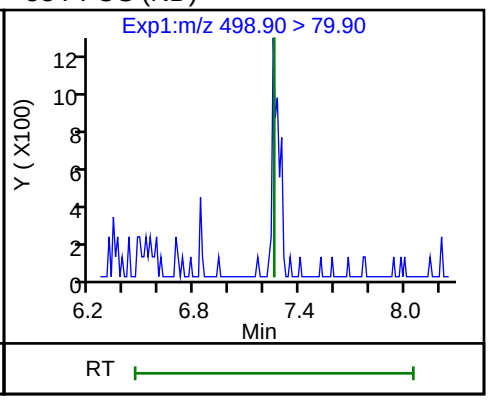
55 NEtFOSAA (ND)



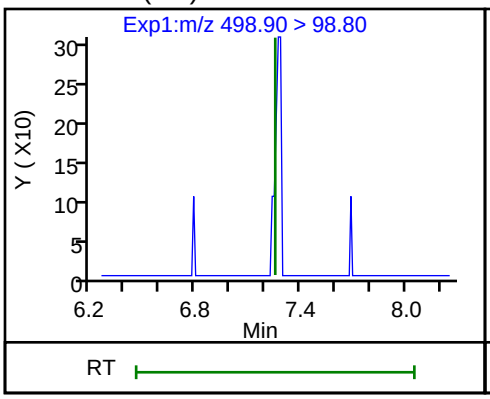
55 NEtFOSAA (ND)



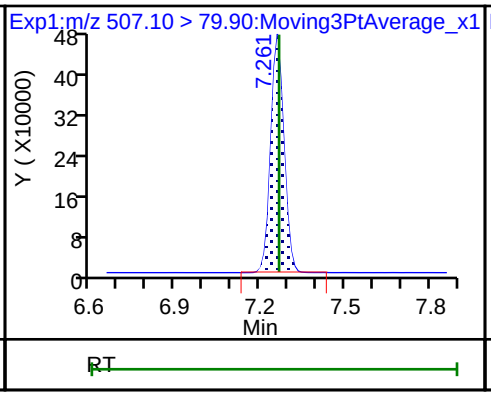
58 PFOS (ND)



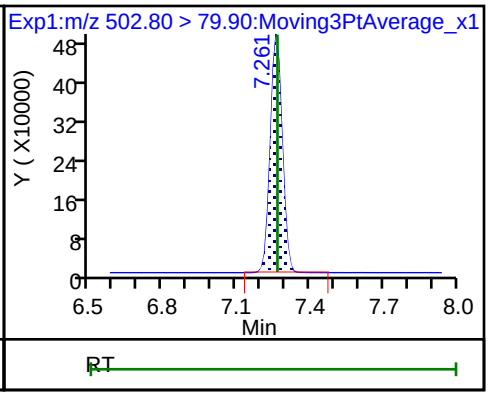
58 PFOS (ND)



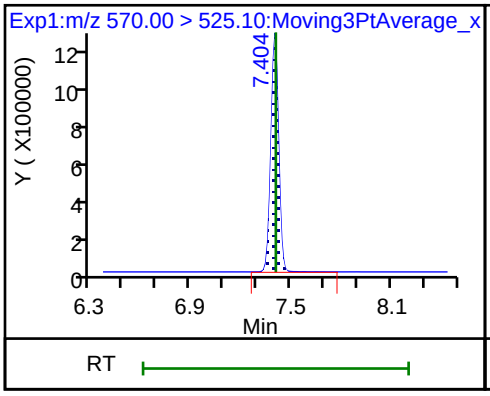
D 56 13C8 PFOS



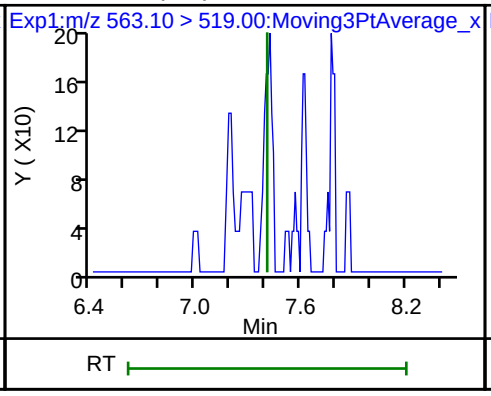
* 57 13C4 PFOS



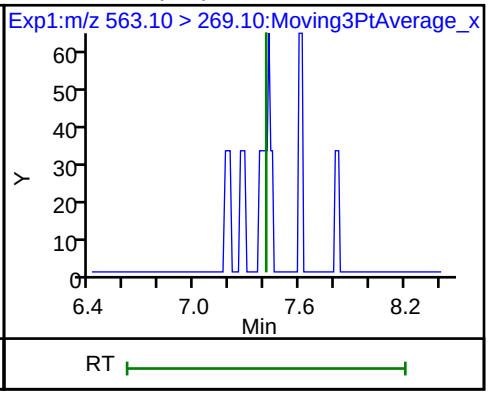
D 59 13C7 PFUnA



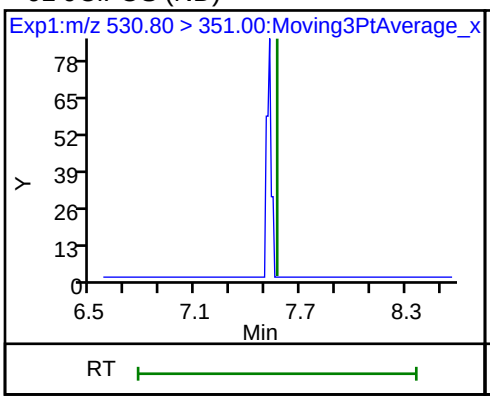
60 PFUnA (ND)



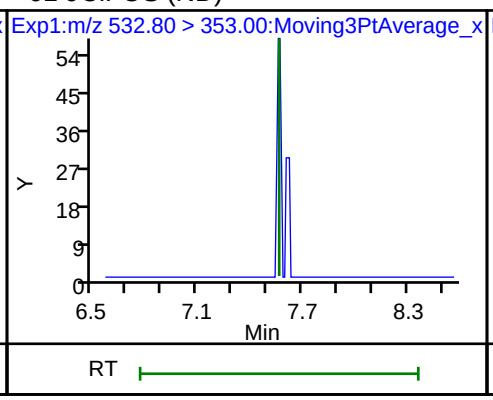
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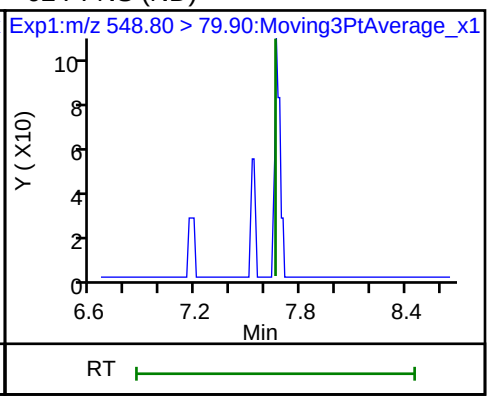
61 9ClFOS (ND)



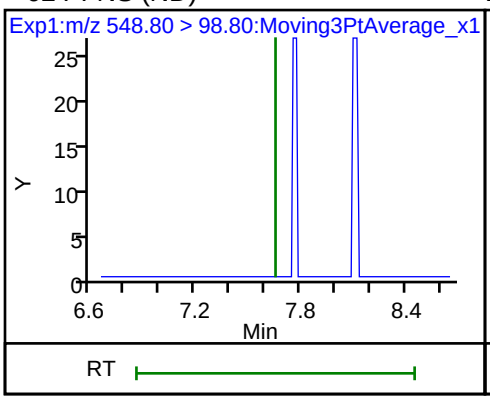
61 9ClFOS (ND)



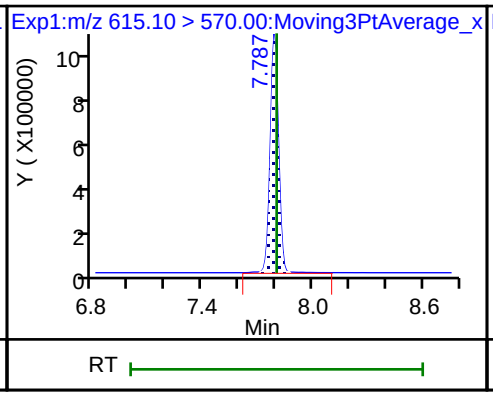
62 PFNS (ND)



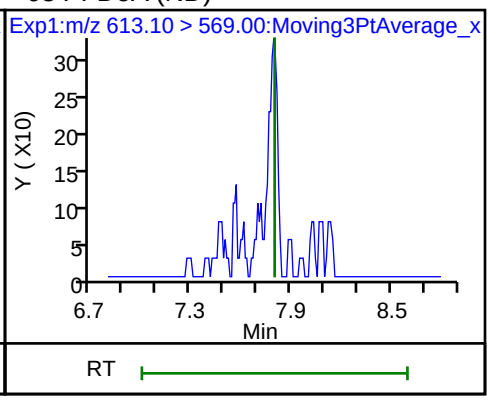
62 PFNS (ND)



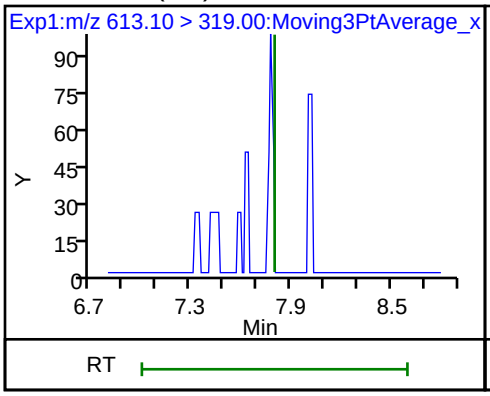
D 81 PFDoA



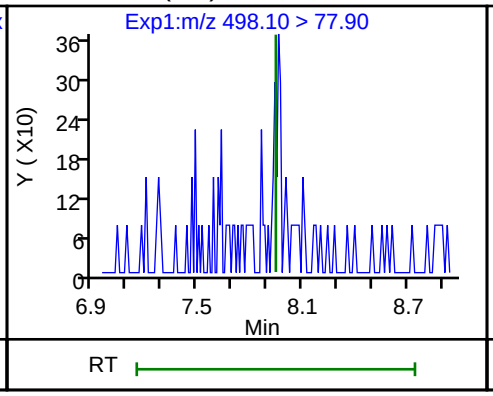
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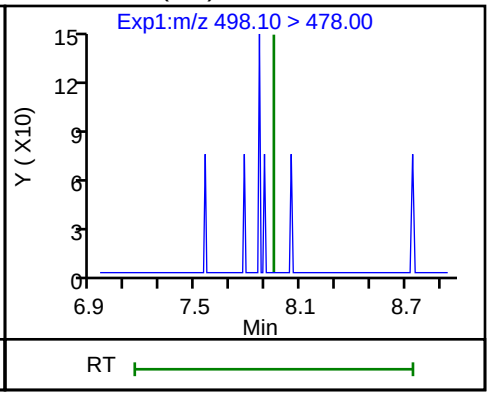
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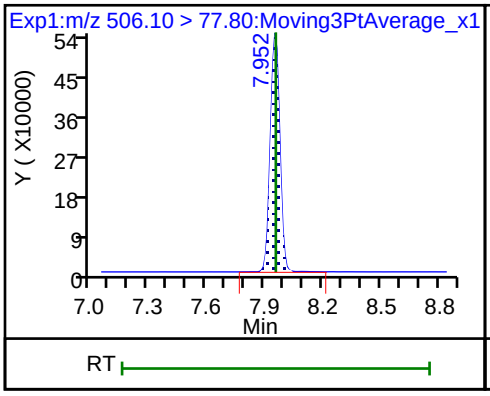
64 PFOSA (ND)



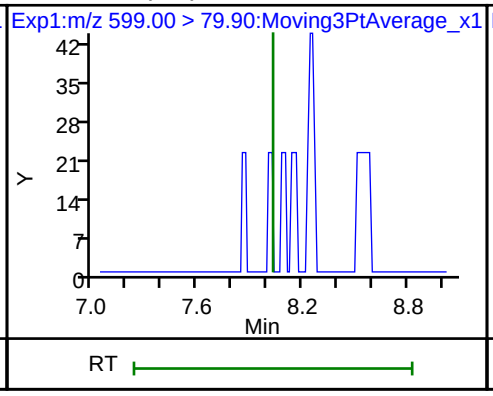
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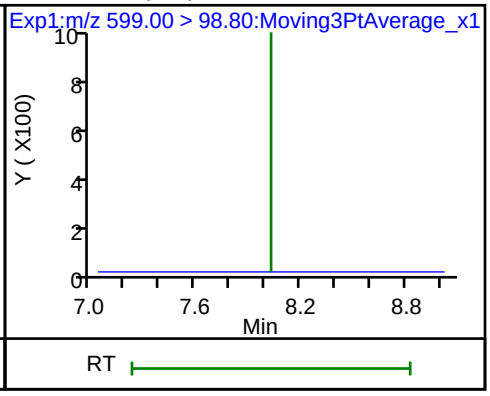
D 65 13C8 FOSA



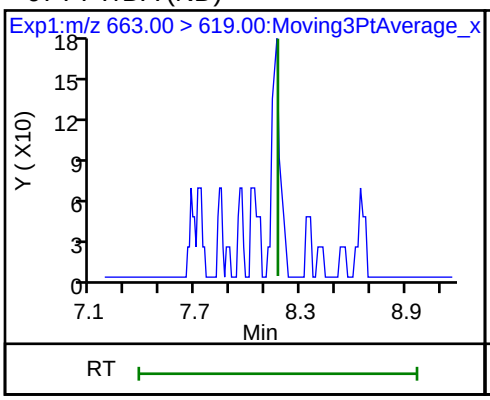
66 PFDS (ND)



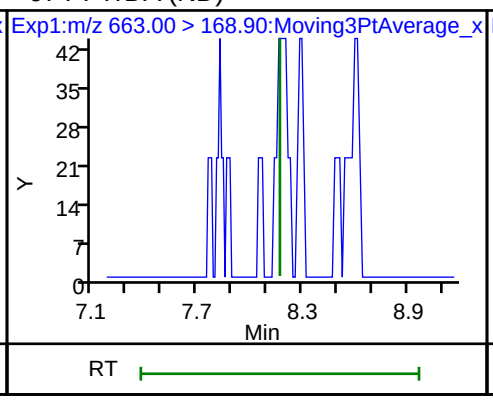
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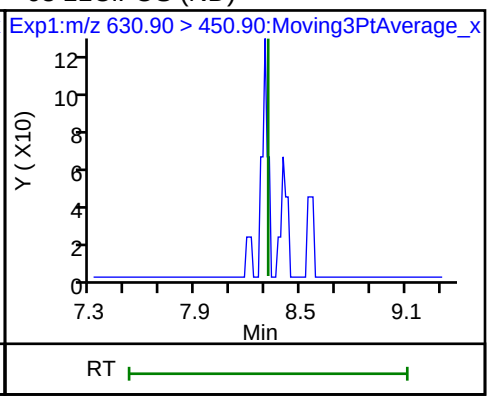
67 PFTrDA (ND)



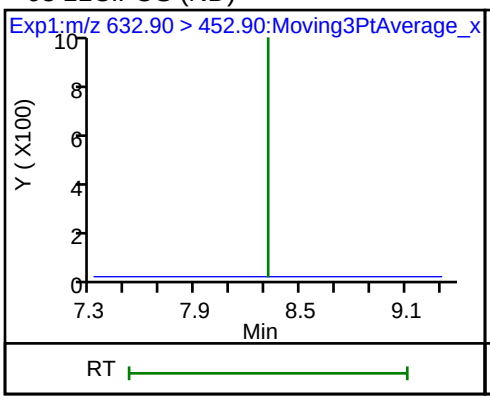
67 PFTrDA (ND)



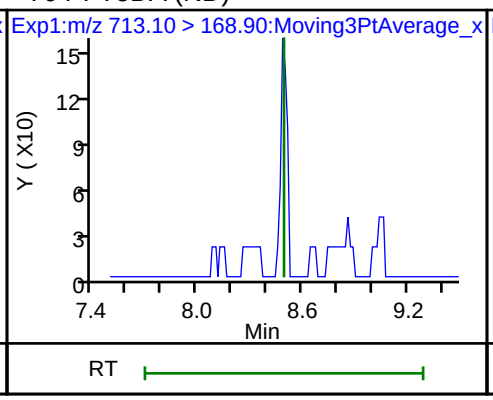
68 11ClFOS (ND)



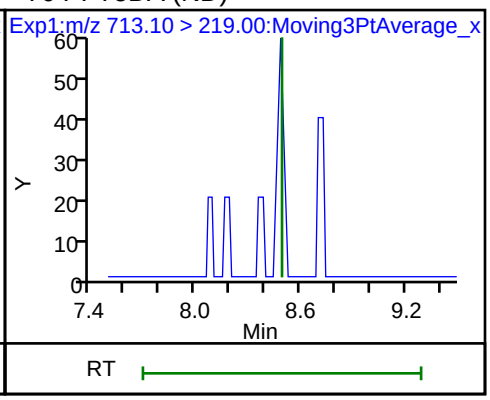
68 11ClFOS (ND)



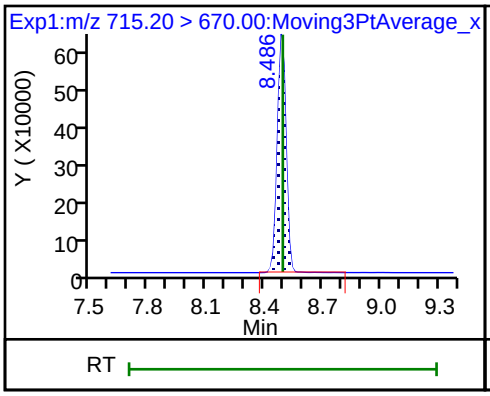
70 PFTeDA (ND)



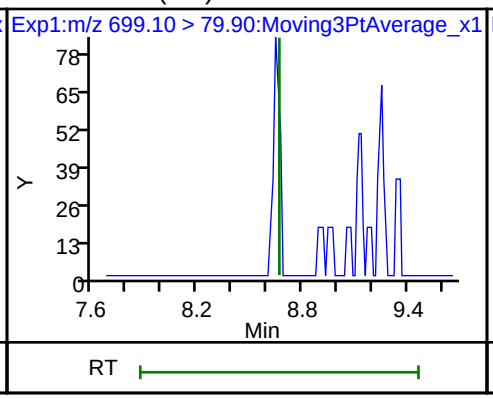
70 PFTeDA (ND)



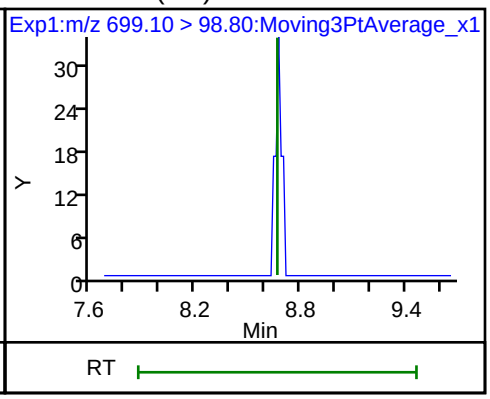
D 69 13C2 PFTeDA



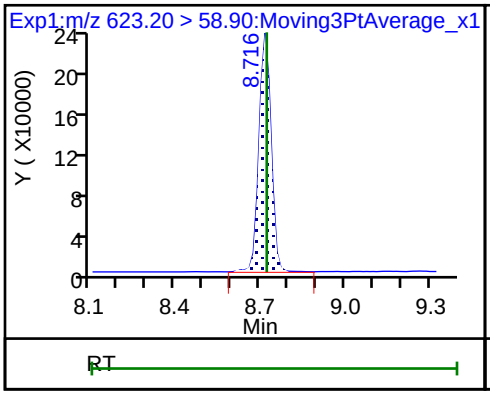
73 PFDoS (ND)



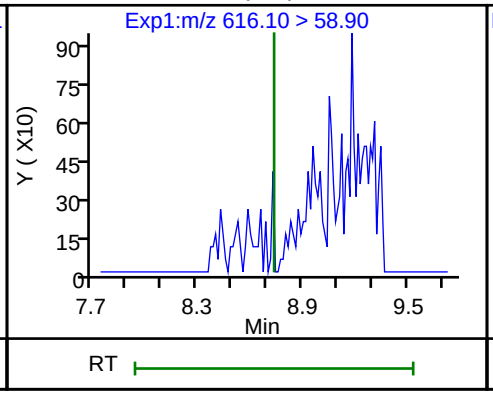
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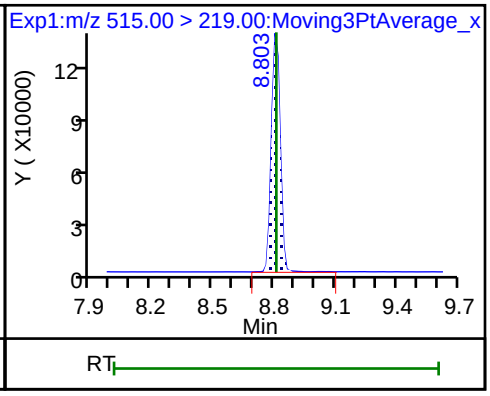
D 71 d7-N-Me-FOSE



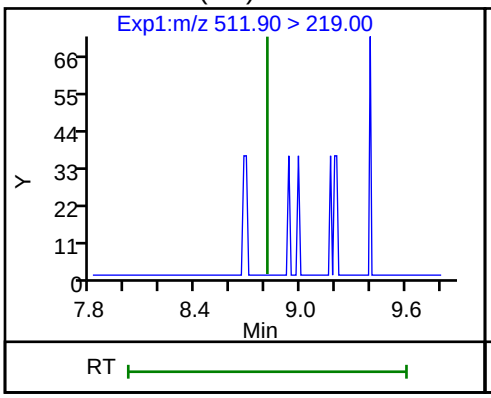
72 N-MeFOSE-M (ND)



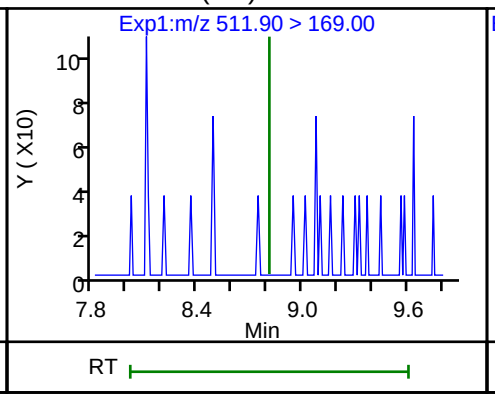
D 74 d3-NMePFOSA



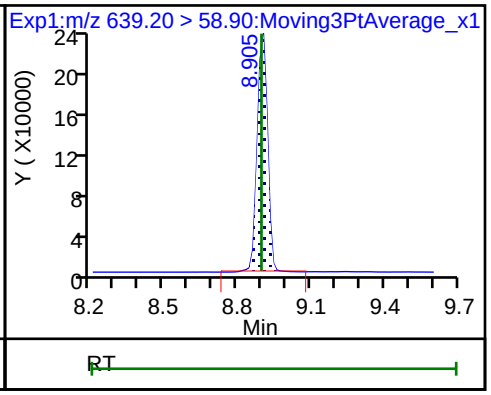
75 NMeFOSA (ND)



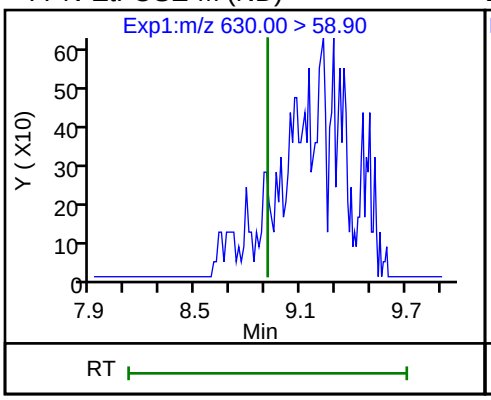
75 NMeFOSA (ND)



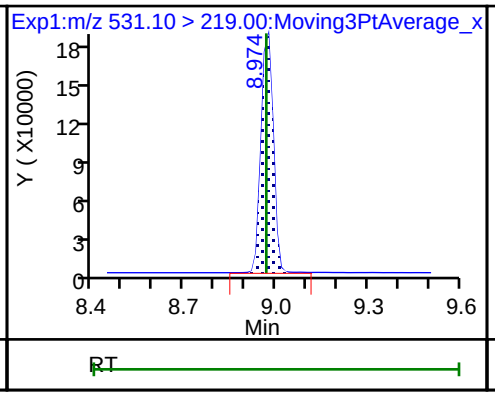
D 76 d9-N-EtFOSE



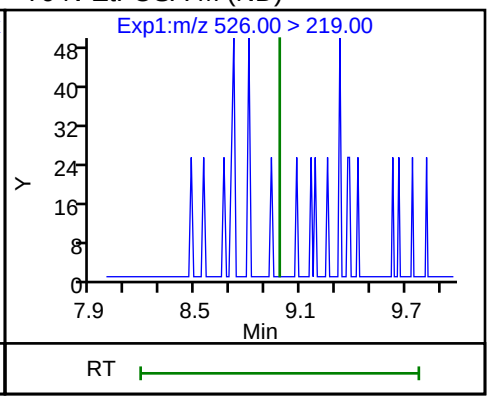
77 N-EtFOSE-M (ND)



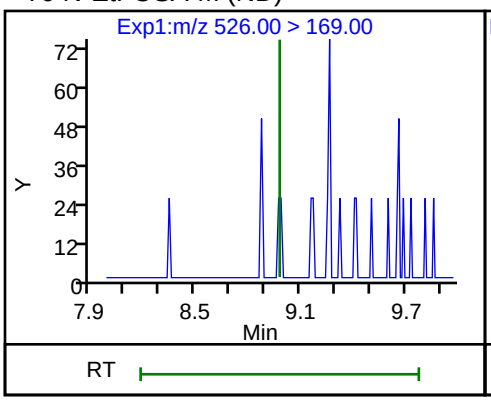
D 78 d5-NEtPFOSA



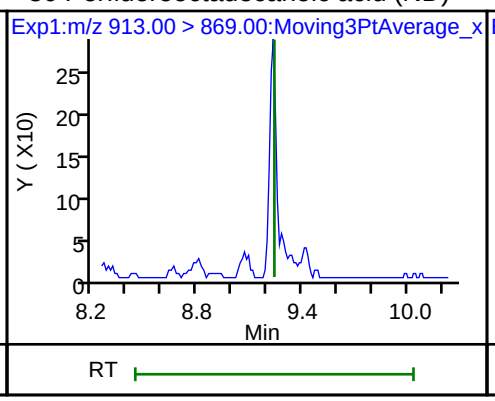
79 N-EtFOSA-M (ND)



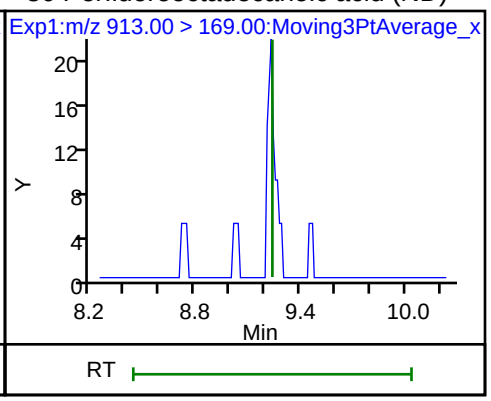
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-764442/9

Matrix: Solid
Lab File ID: 26FEB04CAL-09.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 11:28

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764442
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.010	U	0.010	0.0040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.010	U	0.010	0.0040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.010	U	0.010	0.0040
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.010	U	0.010	0.0040
335-67-1	Perfluorooctanoic acid (PFOA)	0.010	U	0.010	0.0040
375-95-1	Perfluorononanoic acid (PFNA)	0.010	U	0.010	0.0040
335-76-2	Perfluorodecanoic acid (PFDA)	0.010	U	0.010	0.0040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.010	U	0.010	0.0040
307-55-1	Perfluorododecanoic acid (PFDoA)	0.010	U	0.010	0.0040
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.010	U	0.010	0.0040
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.010	U	0.010	0.0040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.010	U	0.010	0.0040
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.010	U	0.010	0.0040
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.010	U	0.010	0.0040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.010	U	0.010	0.0040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.010	U	0.010	0.0040
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.010	U	0.010	0.0040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.010	U	0.010	0.0040
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.010	U	0.010	0.0040
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.010	U	0.010	0.0040
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.010	U	0.010	0.0040
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.010	U	0.010	0.0040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.010	U	0.010	0.0040
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.010	U	0.010	0.0040
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-764442/9

Matrix: Solid
Lab File ID: 26FEB04CAL-09.d

Analysis Method: 1633A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 02/04/2026 11:28

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764442
Units: ng/mL

Preparation Batch No.:
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.010	U	0.010	0.0040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.010	U	0.010	0.0040
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.010	U	0.010	0.0040
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.010	U	0.010	0.0040
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.010	U	0.010	0.0040
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.010	U	0.010	0.0040
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.010	U	0.010	0.0040
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.010	U	0.010	0.0040
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.010	U	0.010	0.0040
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.010	U	0.010	0.0040
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.010	U	0.010	0.0040
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.010	U	0.010	0.0040
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.010	U	0.010	0.0040
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.010	U	0.010	0.0040
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.010	U	0.010	0.0040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 410-764442/9

Matrix: Solid Lab File ID: 26FEB04CAL-09.d

Analysis Method: 1633A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 02/04/2026 11:28

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 7(uL) GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764442 Units: ng/mL

Preparation Batch No.: Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	103		8-130
2283397-79-3	13C5 PFPeA	102		35-130
2328024-54-8	13C5 PFHxA	102		40-130
2328024-55-9	13C4 PFHpA	103		40-130
1350614-84-4	13C8 PFOA	99.7		40-130
2283397-80-6	13C9 PFNA	99.7		40-130
2328024-56-0	13C6 PFDA	108		40-130
STL02580	13C7 PFUnA	123		40-130
STL02116	13C2 PFTeDA	119		20-130
2708218-83-9	13C3 PFBS	111		40-135
2708218-85-1	13C3 PFHxS	114		40-130
2265893-05-6	13C8 PFOS	103		40-130
STL01056	13C8 FOSA	96.6		40-130
1400690-70-1	d3-NMeFOSAA	102		40-135
1265205-97-7	d5-NEtFOSAA	121		40-150
STL02395	13C2 4:2 FTS	118		40-165
STL02279	13C2 6:2 FTS	146		40-215
STL02280	13C2 8:2 FTS	127		40-275
STL02255	13C3 HFPO-DA	101		40-130
STL02277	d7-N-MeFOSE-M	94.3		20-130
STL02278	d9-N-EtFOSE-M	97.1		15-130
STL02704	d5-NEtPFOSA	97.8		10-130
STL02705	d3-NMePFOSA	97.7		10-130
960315-52-0	13C2 PFDoA	116		40-130

Report Date: 04-Feb-2026 13:01:38 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-09.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 04-Feb-2026 11:28:05 ALS Bottle#: 1 Worklist Smp#: 9
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: ICB
Misc. Info.: Plate: 1 Rack: 1 410-0174606-009
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 13:00:57 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1665

First Level Reviewer: QY4X Date: 04-Feb-2026 12:55:24
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	2.018	2.027	-0.009	0.483	1385372	2.10		105	2577	
D 4 13C4-PFBA										
216.80 > 171.90	4.180	4.173	0.007	1.000	1847298	2.06		103	3467	
* 5 13C3PFBA										
216.00 > 172.00	4.180	4.180	0.0		1743565	2.00			3753	
D 8 13C5 PFPeA										
268.30 > 223.00	4.836	4.829	0.007	0.914	1862764	2.03		102	3563	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.109	5.099	0.010	0.802	1146579	5.51		118	4324	
13 TUDCA										
498.20 > 80.00	5.918	5.101	0.817	0.819	2625	NR			59.7	
D 15 13C5 PFHxA										
318.00 > 273.00	5.291	5.280	0.011	1.000	2270784	2.04		102	5133	
* 16 13C2 PFHxA										
315.10 > 270.00	5.291	5.290	0.001		5259980	5.00			5845	
D 19 13C3 PFBS										
302.10 > 79.90	5.436	5.426	0.010	0.854	2306713	2.07		111	8328	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.474	5.474	0.0	1.035	1532974	2.02		101	4864	
24 TCDCA										
498.10 > 80.00	5.918	5.541	0.377	0.819	2960	NR			19.5	
25 TDCA										
498.00 > 80.00	5.918	5.657	0.261	0.819	1603	NR			14.0	
D 28 13C4 PFHpA										
367.10 > 322.00	5.720	5.709	0.011	1.081	2248527	2.07		103	4243	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.918	5.918	0.0	0.929	1217656	6.93		146	2408	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA 417.10 > 372.00	6.132	6.121	0.011		7282127	5.00			5696	
D 35 13C8 PFOA 421.10 > 376.00	6.132	6.121	0.011	1.000	2958061	1.99		99.7	3659	
D 38 13C3 PFHxS 402.10 > 79.90	6.367	6.367	0.0	1.000	2031163	2.15		114	7465	
* 39 18O2 PFHxS 403.00 > 83.90	6.367	6.367	0.0		1661831	1.90			4882	
* 42 13C5 PFNA 468.00 > 423.00	6.546	6.535	0.011		2096981	2.00			5344	
D 41 13C9 PFNA 472.10 > 427.00	6.546	6.535	0.011	1.000	2163154	1.99		99.7	5365	
D 44 13C2-8:2FTS 529.10 > 80.90	6.734	6.725	0.009	1.058	1105365	6.09		127	3525	
D 49 d3-NMeFOSAA 573.20 > 419.00	6.897	6.888	0.009	0.954	2106806	5.09		102	1868	
D 52 13C6 PFDA 519.10 > 474.10	6.957	6.957	0.0	0.999	2305924	2.16		108	3629	
* 51 13C2 PFDA 515.10 > 470.10	6.967	6.957	0.010		2165148	2.00			5001	
D 54 d5-NEtFOSAA 589.20 > 419.00	7.078	7.068	0.010	0.979	2157798	6.03		121	2178	
D 56 13C8 PFOS 507.10 > 79.90	7.230	7.230	0.0	1.000	1757617	1.97		103	6026	
* 57 13C4 PFOS 502.80 > 79.90	7.230	7.230	0.0		1539311	1.92			7012	
D 59 13C7 PFUnA 570.00 > 525.10	7.384	7.374	0.010	1.060	2625034	2.47		123	5234	
D 81 PFDoA 615.10 > 570.00	7.797	7.797	0.0	1.119	2380085	2.33		116	5364	
D 65 13C8 FOSA 506.10 > 77.80	8.016	8.008	0.008	1.109	1782857	1.93		96.6	4351	
D 70 13C2 PFTeDA 715.20 > 670.00	8.621	8.610	0.011	1.237	2192758	2.38		119	5598	
D 72 d7-N-Me-FOSE 623.20 > 58.90	8.888	8.889	-0.001	1.229	349355	4.72		94.3	901	
D 75 d3-NMePFOSA 515.00 > 219.00	9.002	8.988	0.014	1.245	571459	1.95		97.7	1853	
D 76 d9-N-EtFOSE 639.20 > 58.90	9.111	9.111	0.0	1.260	387425	4.85		97.1	812	
D 78 d5-NEtPFOSA 531.10 > 219.00	9.202	9.202	0.0	1.273	735182	1.96		97.8	2368	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00511	Amount Added:	50.00	Units: uL
1633_125_SS_00162	Amount Added:	5.00	Units: uL

Report Date: 04-Feb-2026 13:01:39 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-09.d

Injection Date: 04-Feb-2026 11:28:05 Instrument ID: 30577

Lims ID: ICB

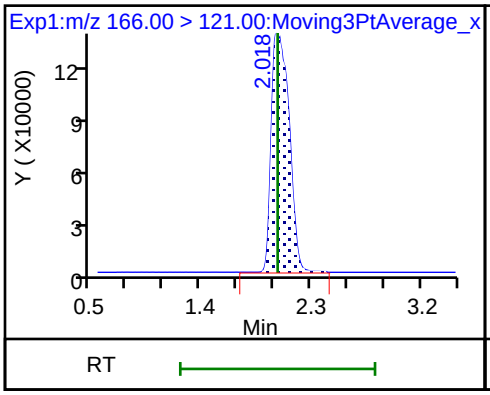
Client ID:

Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 1 Worklist Smp#: 9

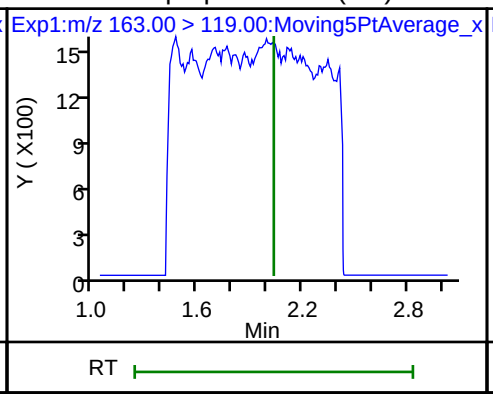
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

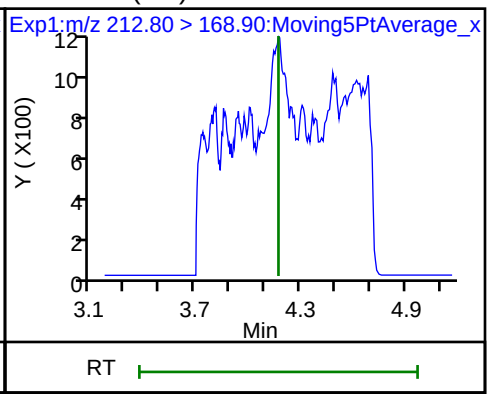
D 1 13C3PFPrA



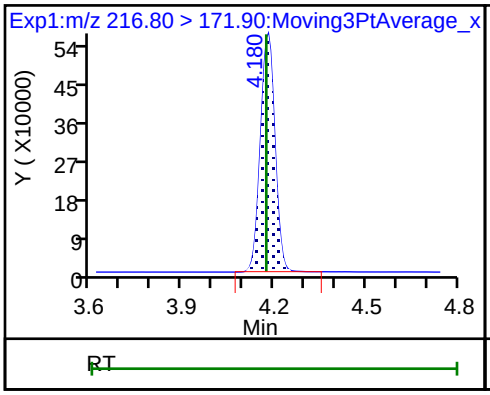
2 Perfluoropropionic acid (ND)



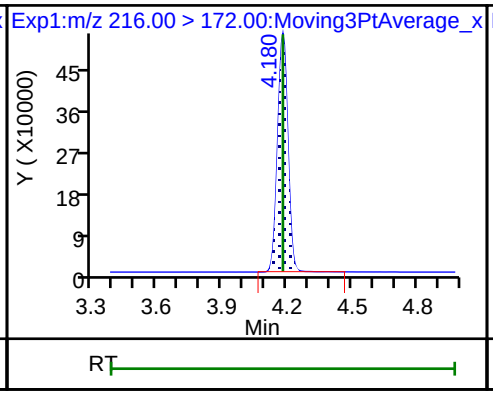
3 PFBA (ND)



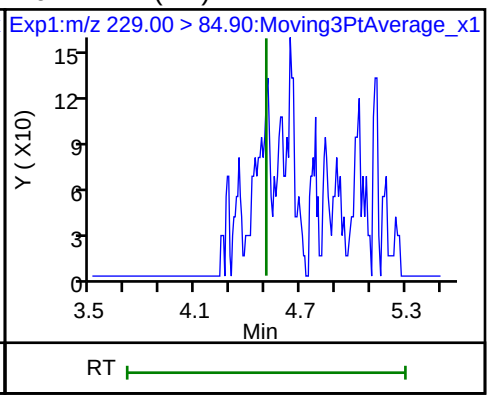
D 4 13C4-PFBA



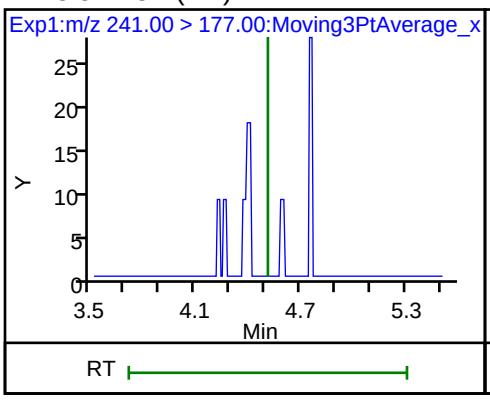
* 5 13C3PFBA



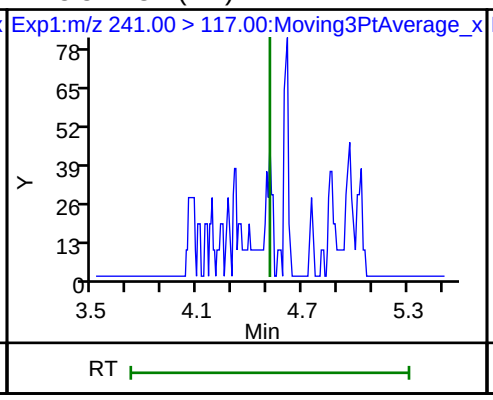
6 PFMPA (ND)



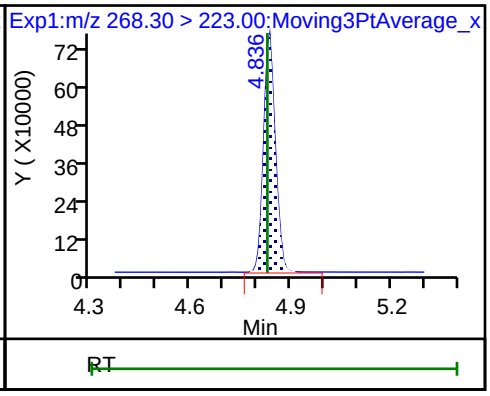
7 3:3 FTCA (ND)



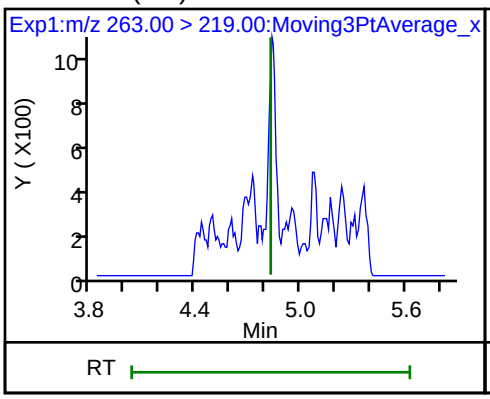
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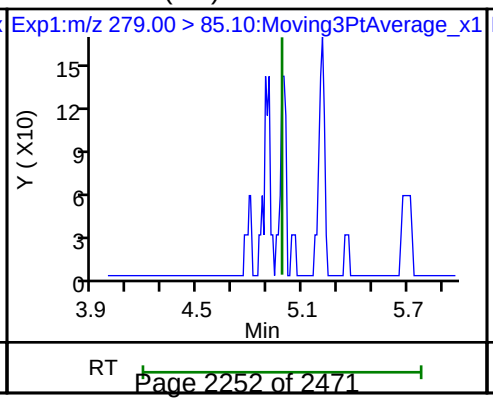
D 8 13C5 PFPeA



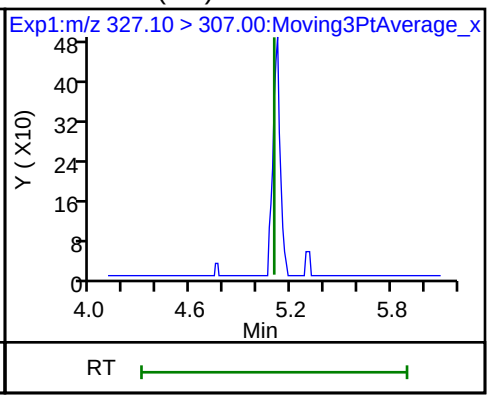
9 PFPA (ND)



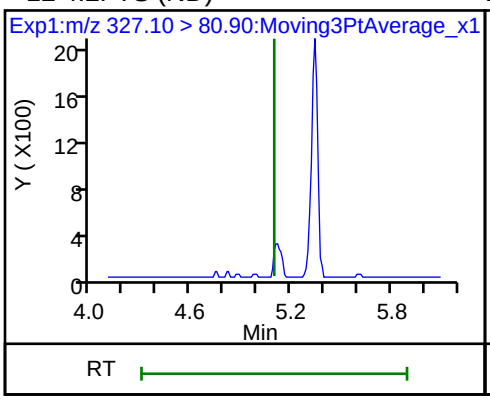
10 PFMBA (ND)



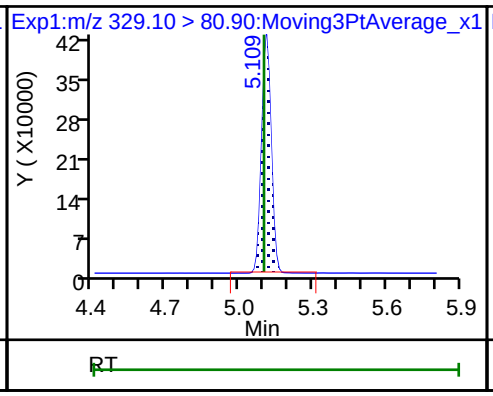
12 4:2FTS (ND)



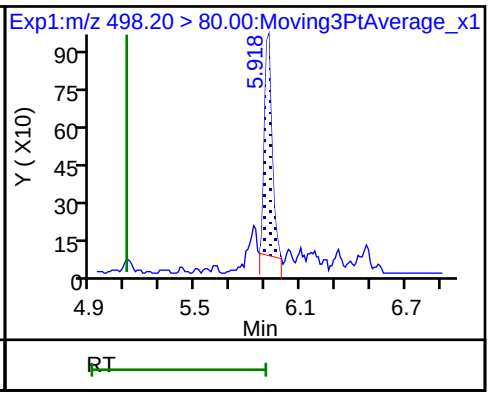
12 4:2FTS (ND)



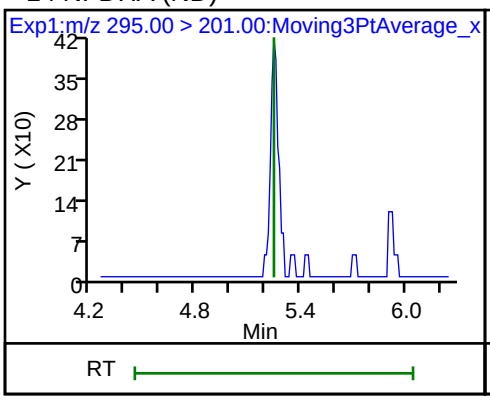
D 11 13C2-4:2FTS



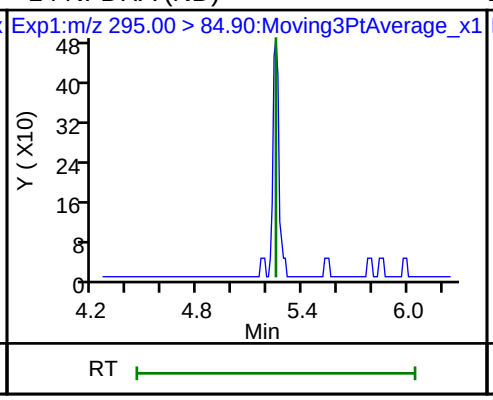
13 TUDCA



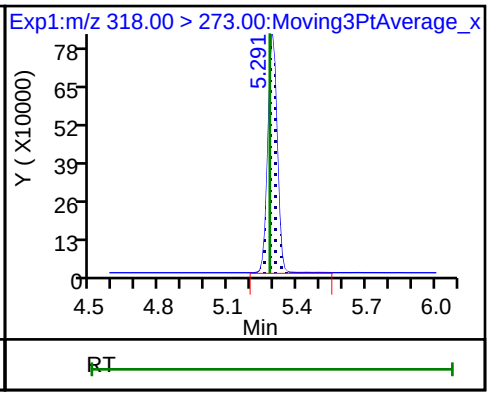
14 NFDHA (ND)



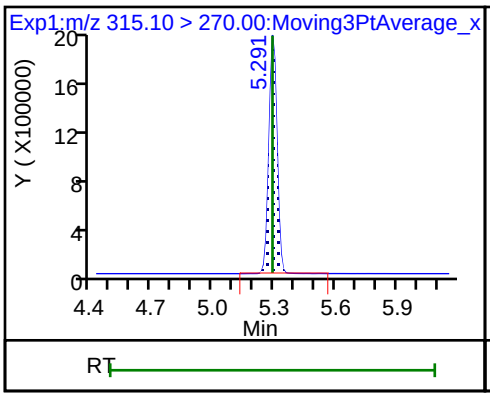
14 NFDHA (ND)



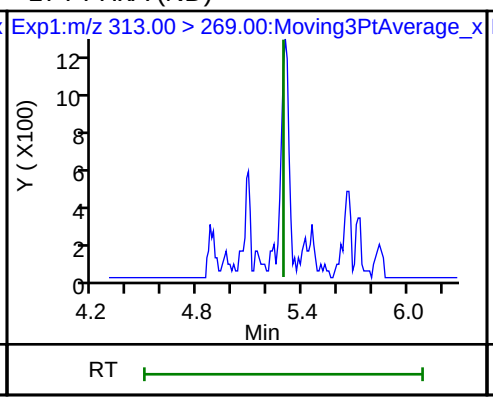
D 15 13C5 PFHxA



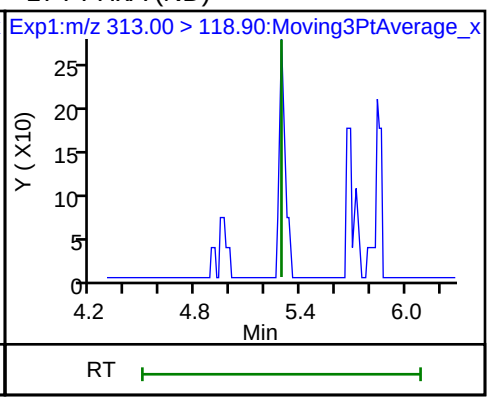
* 16 13C2 PFHxA



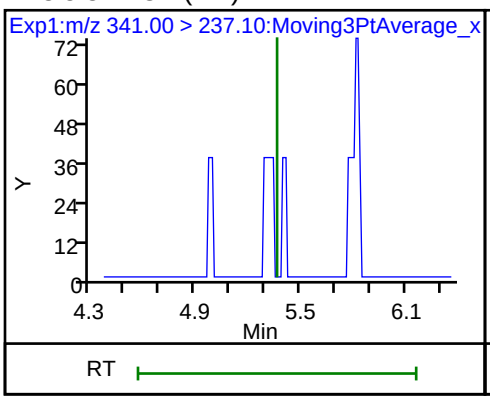
17 PFHxA (ND)



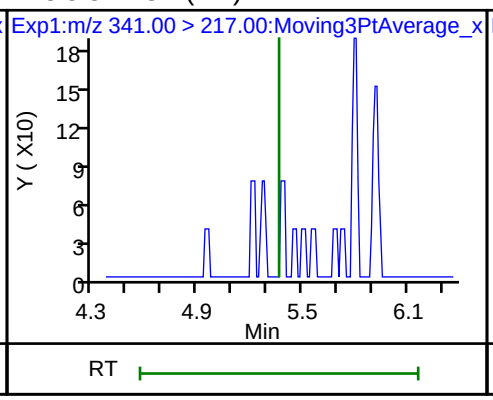
17 PFHxA (ND)



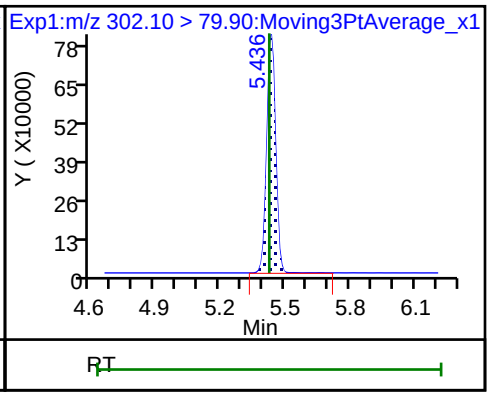
18 5:3 FTCA (ND)



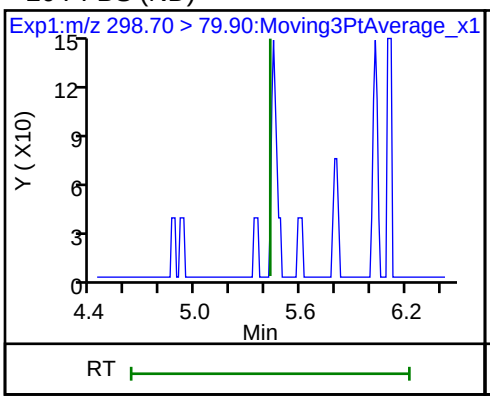
18 5:3 FTCA (ND)



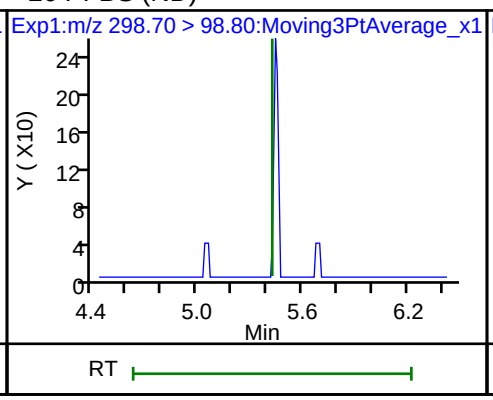
D 19 13C3 PFBS



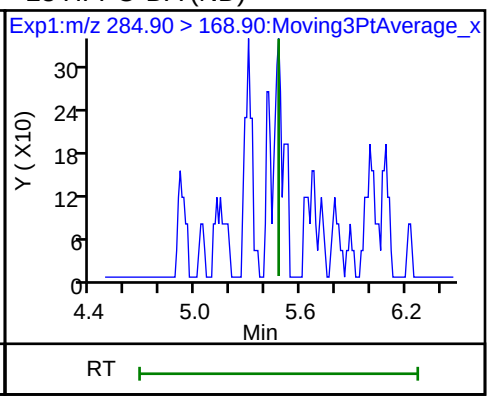
20 PFBS (ND)



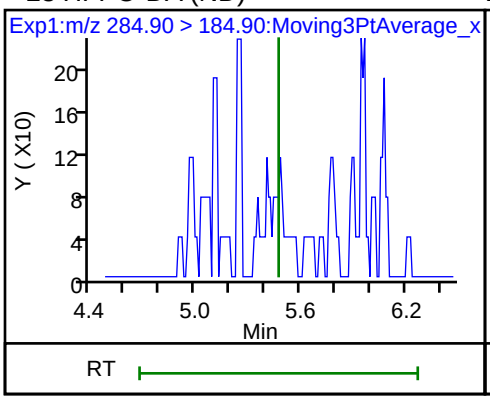
20 PFBS (ND)



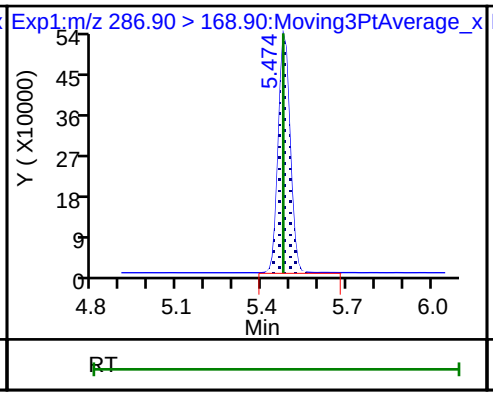
23 HFPO-DA (ND)



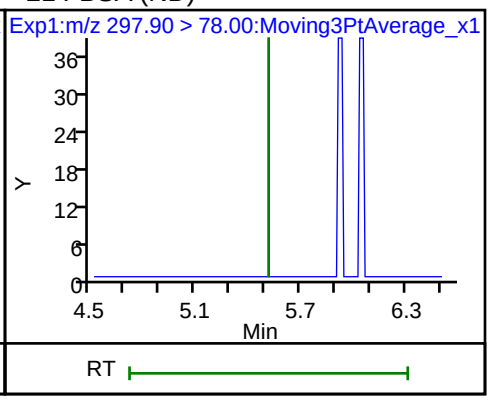
23 HFPO-DA (ND)



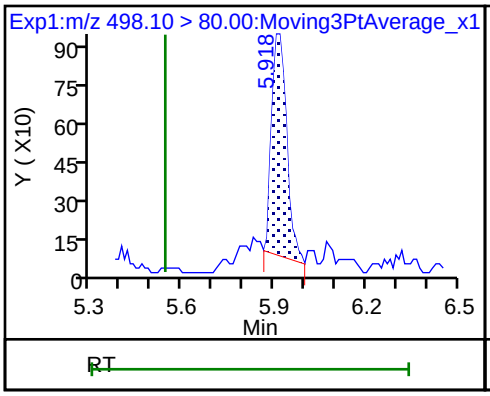
D 22 13C3 HFPO-DA



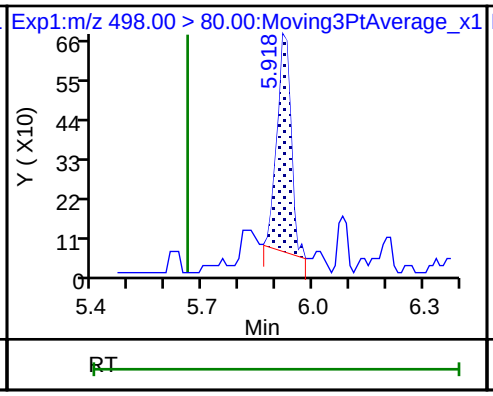
21 FBSA (ND)



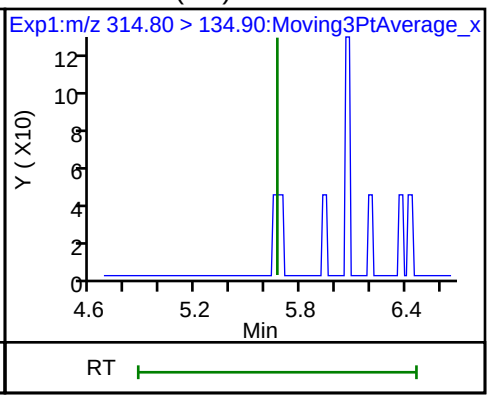
24 TCDCA



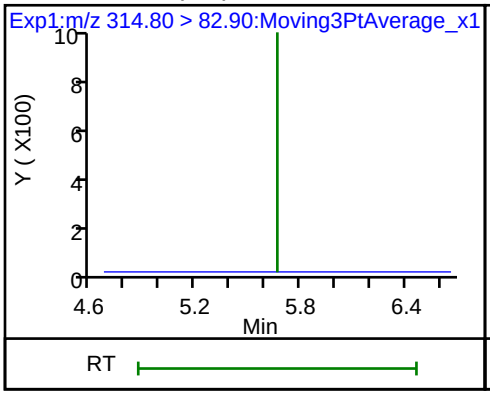
25 TDCA



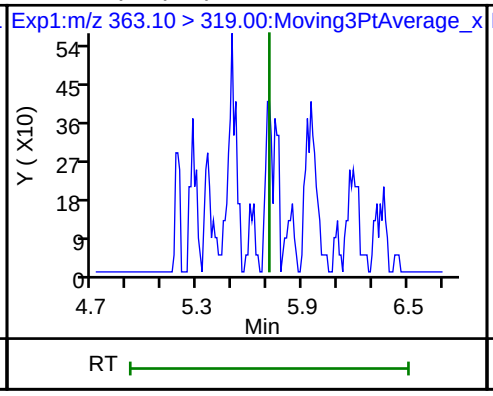
26 PFEESA (ND)



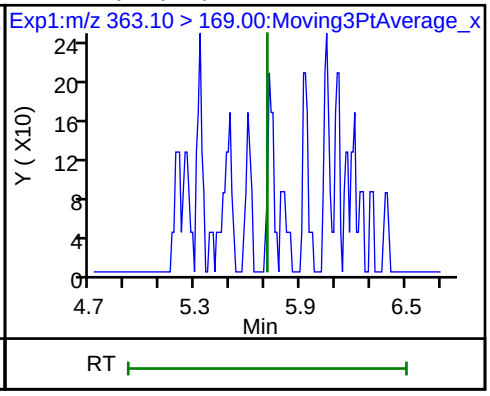
26 PFEESA (ND)



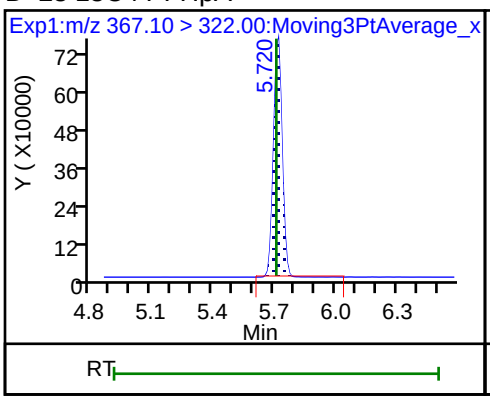
27 PFHpA (ND)



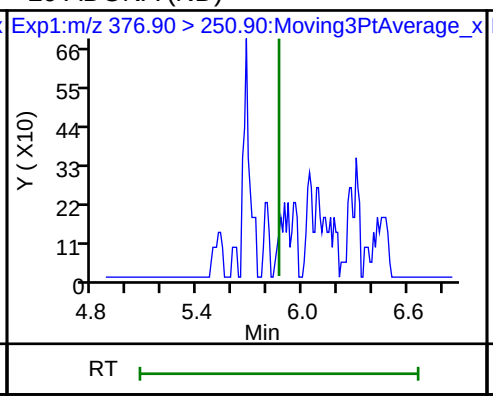
27 PFHpA (ND)



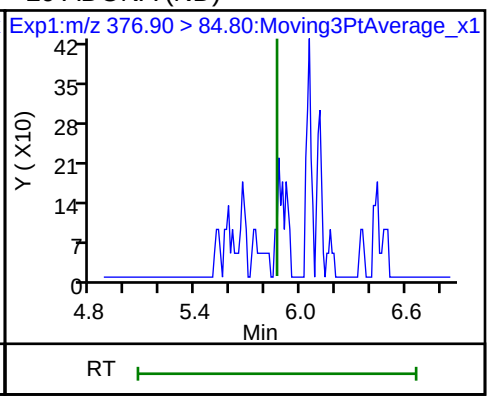
D 28 13C4 PFHpA



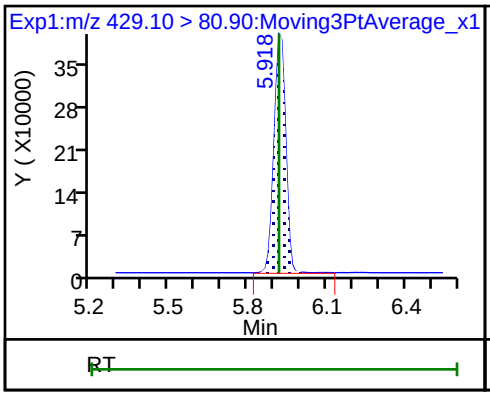
29 ADONA (ND)



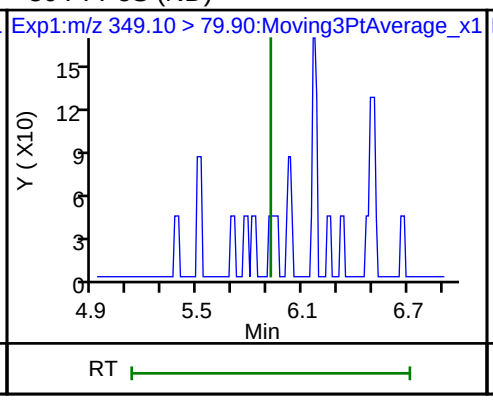
29 ADONA (ND)



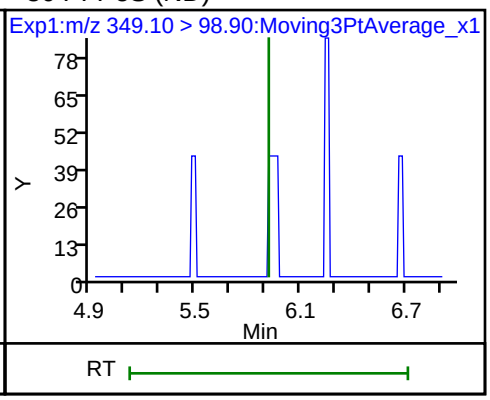
D 32 13C2-6:2FTS



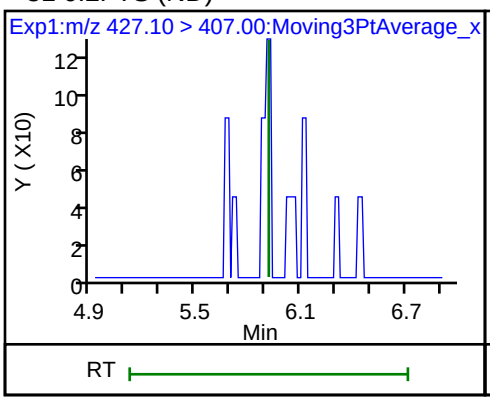
30 PFPeS (ND)



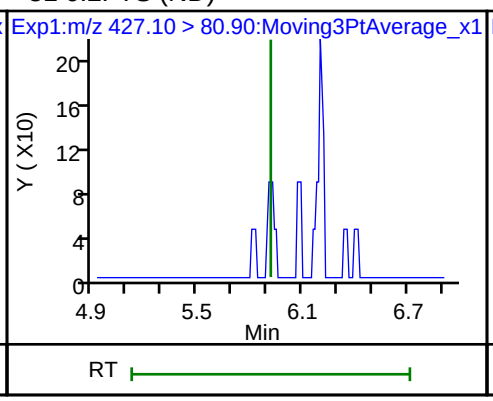
30 PFPeS (ND)



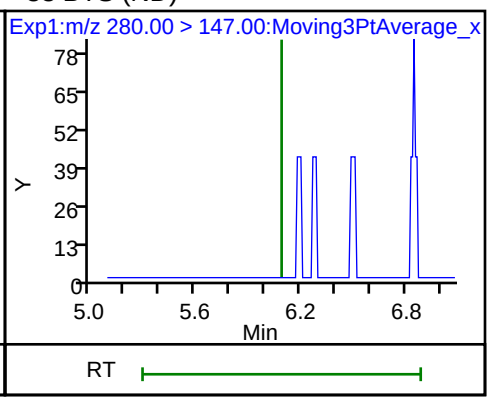
31 6:2FTS (ND)



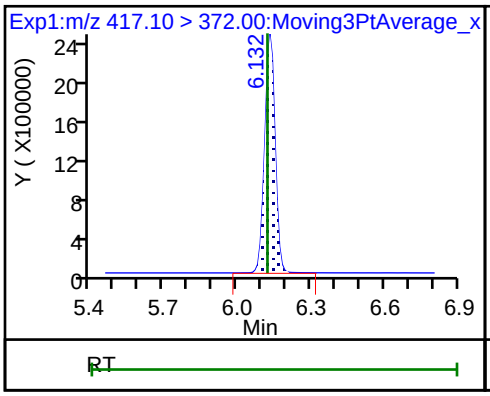
31 6:2FTS (ND)



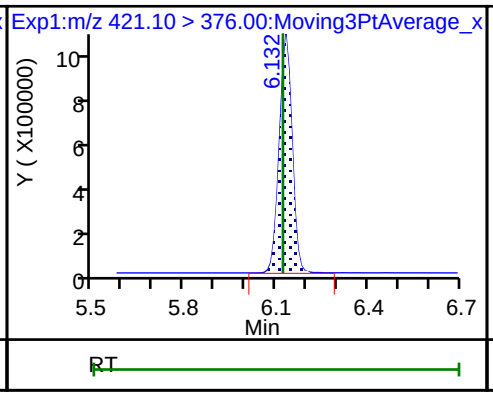
33 BTS (ND)



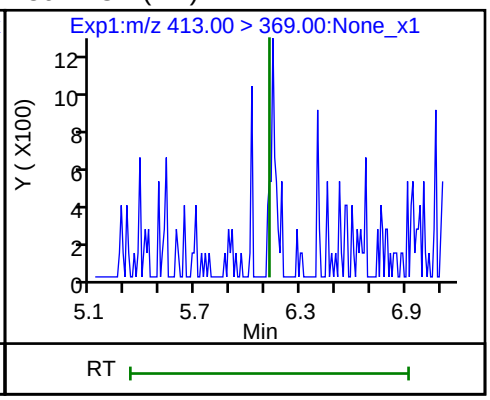
* 34 13C4 PFOA



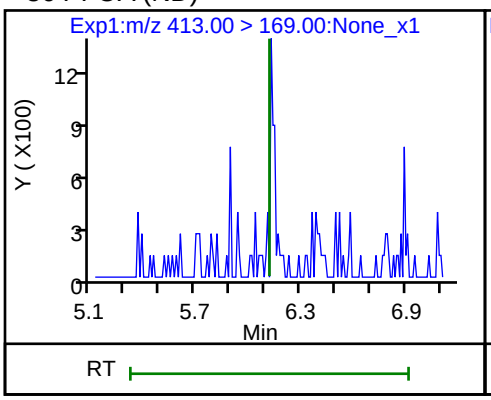
D 35 13C8 PFOA



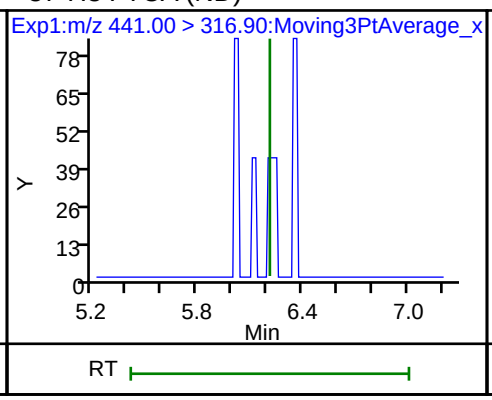
36 PFOA (ND)



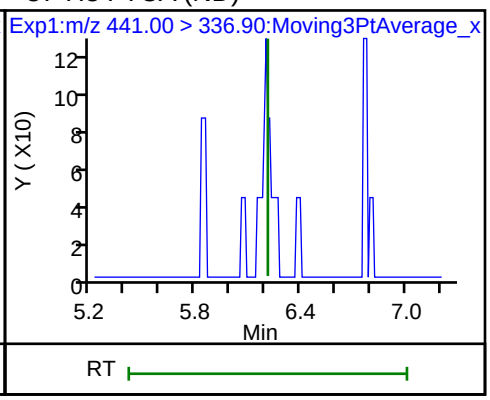
36 PFOA (ND)



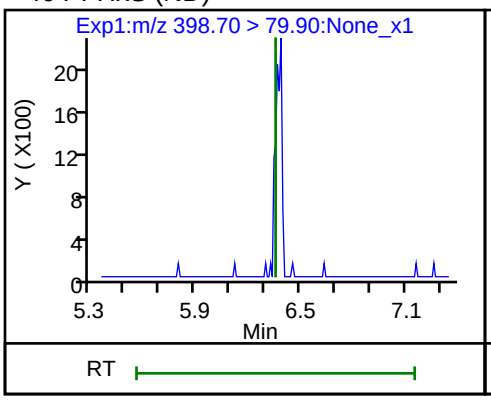
37 7:3 FTCA (ND)



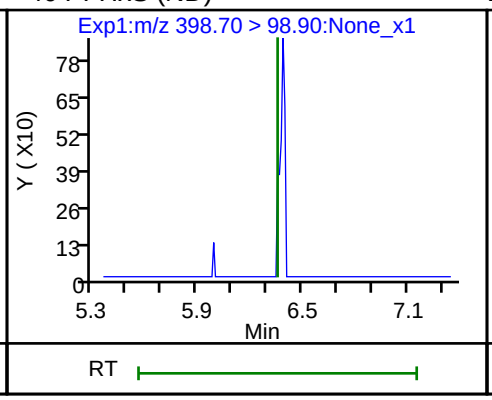
37 7:3 FTCA (ND)



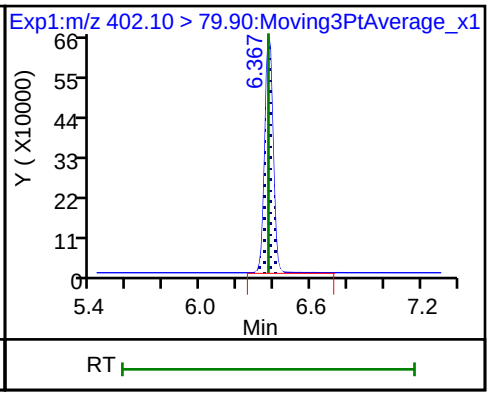
40 PFHxS (ND)



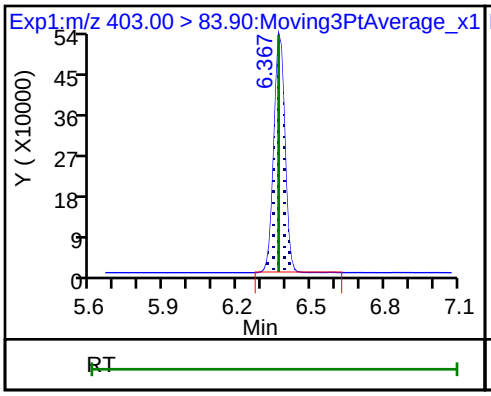
40 PFHxS (ND)



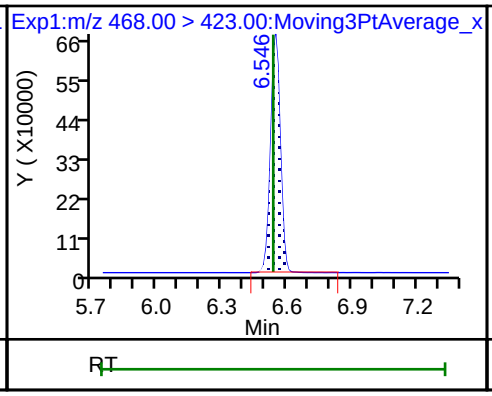
D 38 13C3 PFHxS



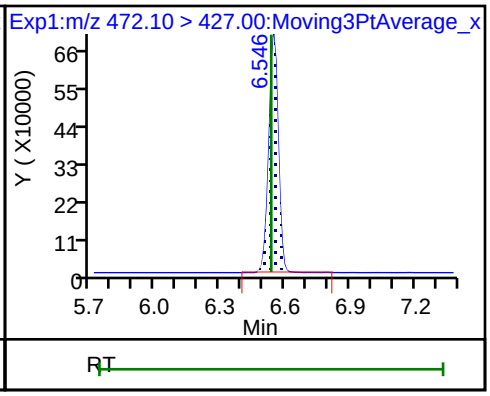
* 39 18O2 PFHxS



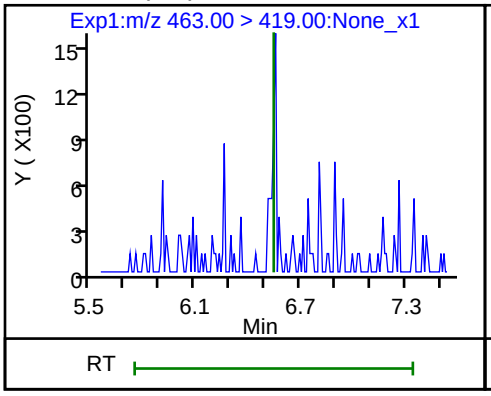
* 42 13C5 PFNA



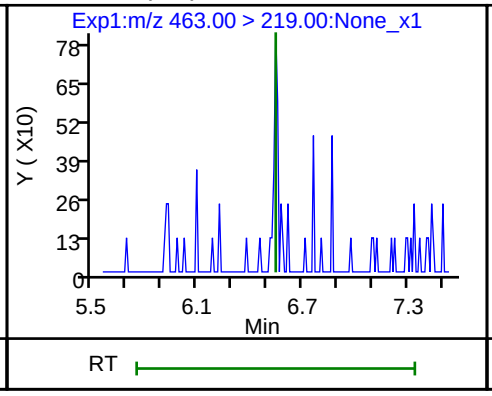
D 41 13C9 PFNA



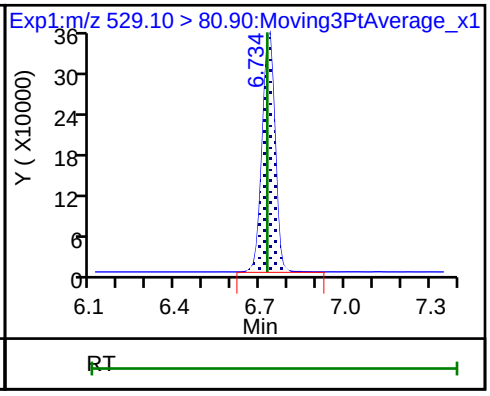
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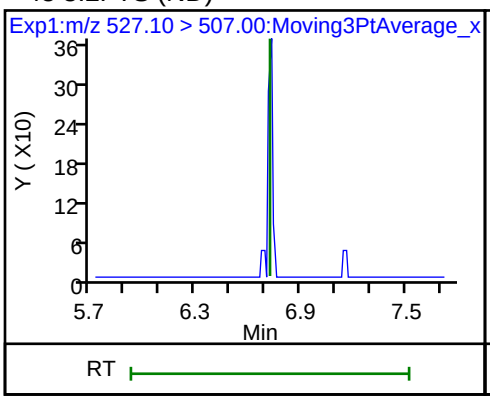
43 PFNA (ND)



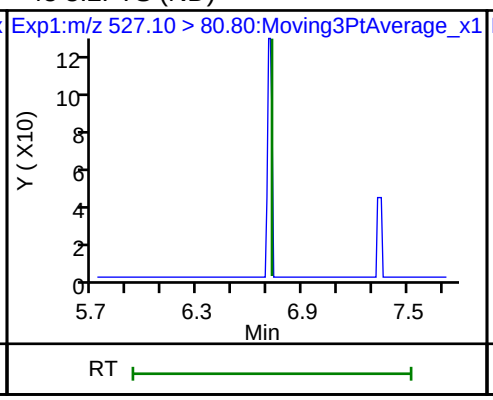
D 44 13C2-8:2FTS



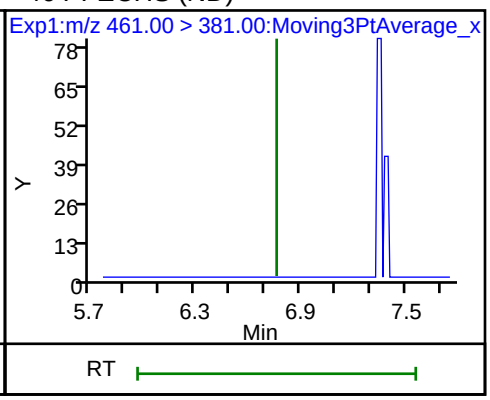
45 8:2FTS (ND)



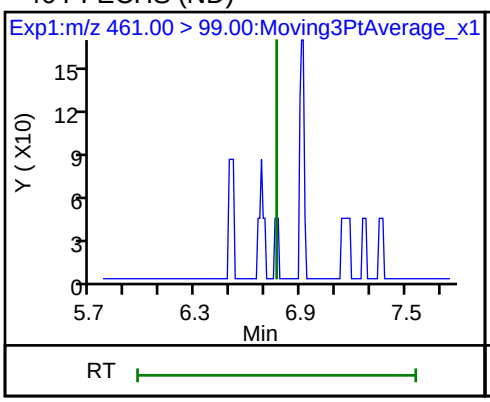
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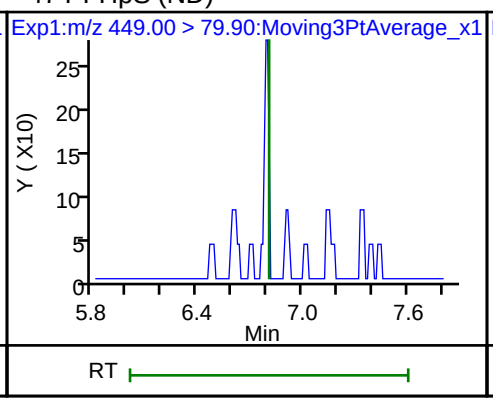
46 PFECHS (ND)



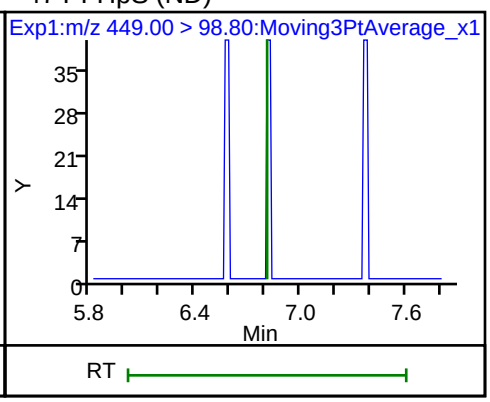
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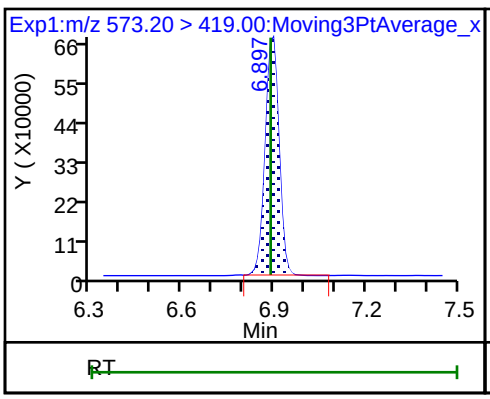
47 PFHpS (ND)



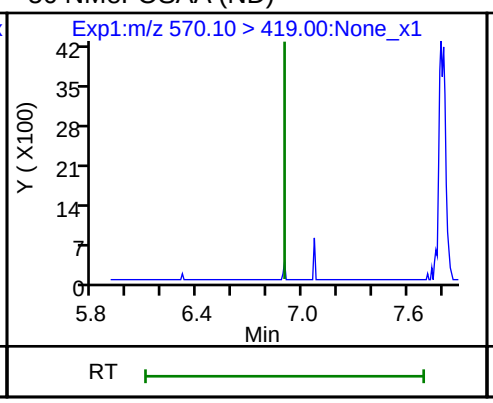
47 PFHpS (ND)



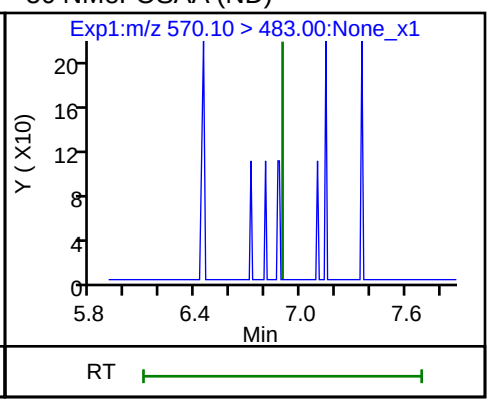
D 49 d3-NMeFOSAA



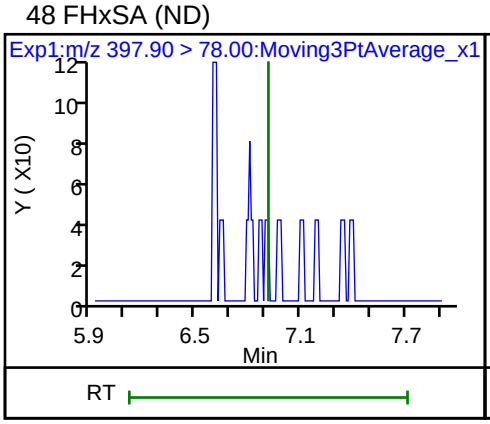
50 NMeFOSAA (ND)



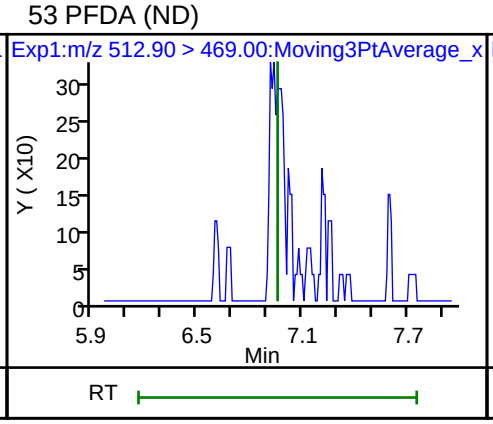
50 NMeFOSAA (ND)



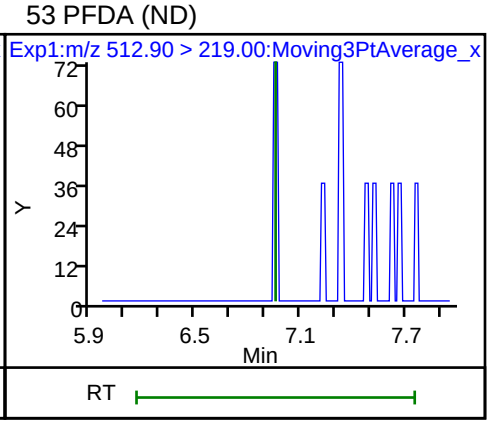
48 FHxSA (ND)



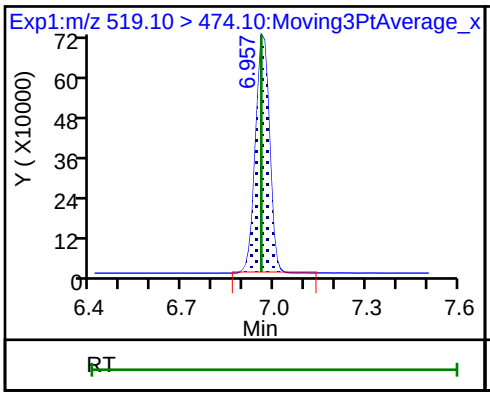
53 PFDA (ND)



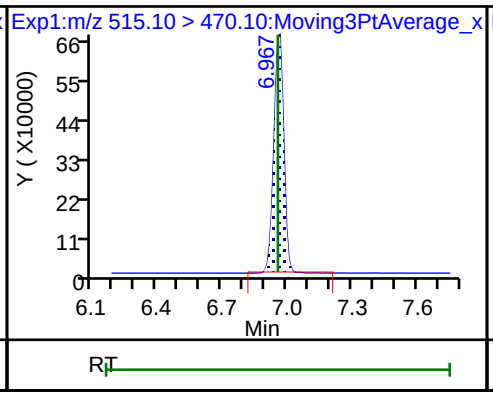
53 PFDA (ND)



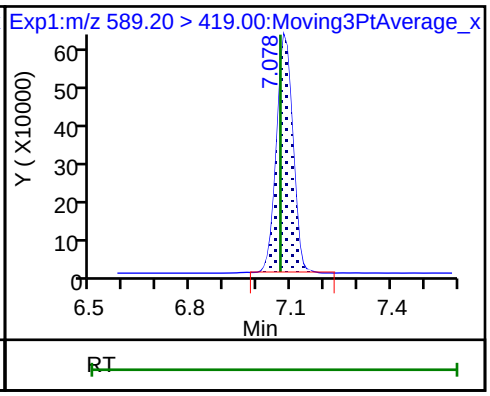
D 52 13C6 PFDA



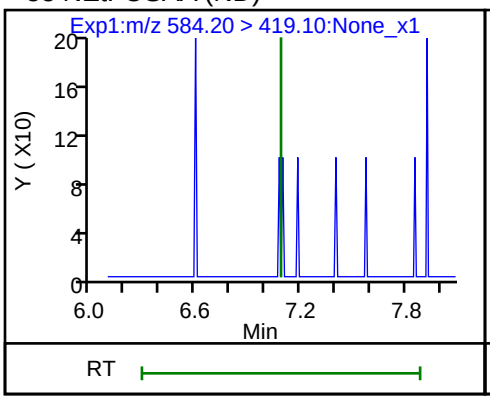
* 51 13C2 PFDA



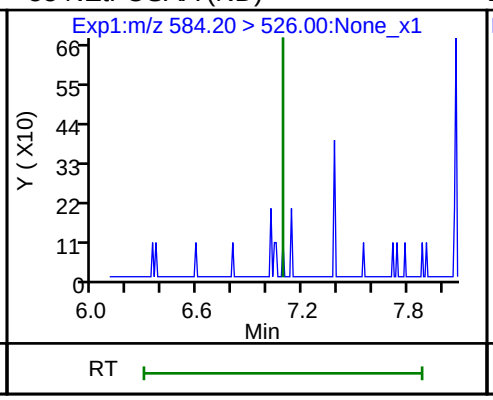
D 54 d5-NEtFOSAA



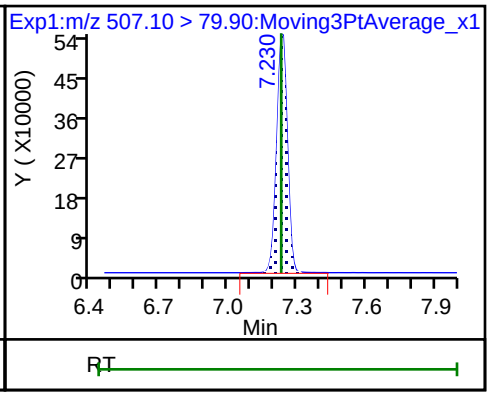
55 NEtFOSAA (ND)



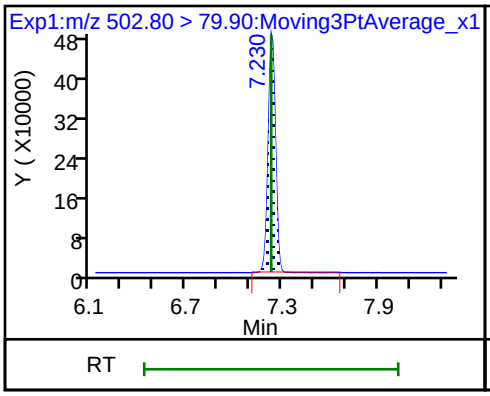
55 NEtFOSAA (ND)



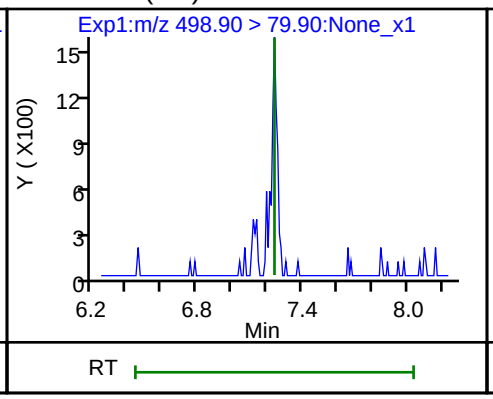
D 56 13C8 PFOS



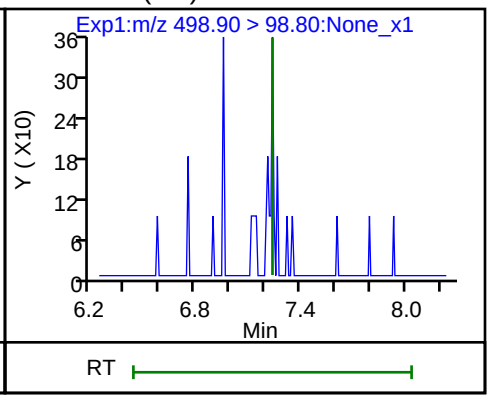
* 57 13C4 PFOS



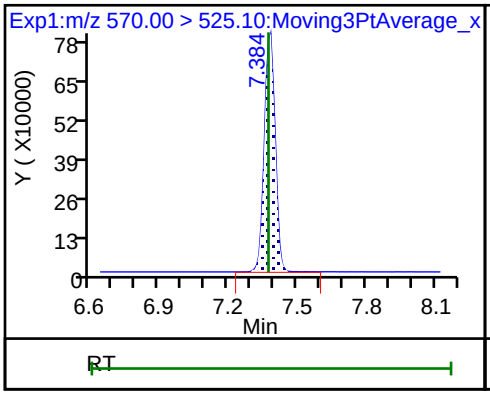
58 PFOS (ND)



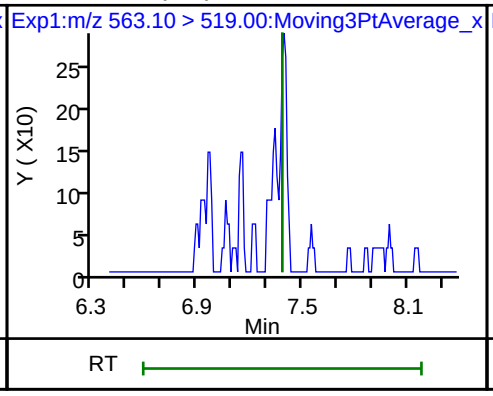
58 PFOS (ND)



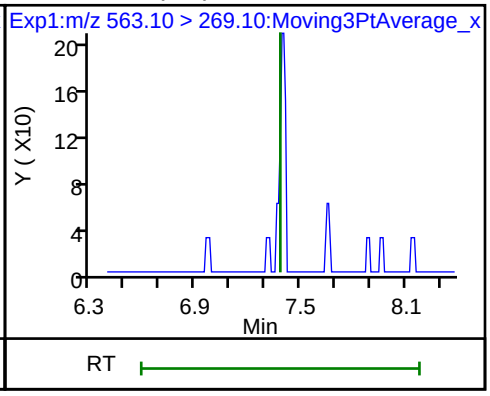
D 59 13C7 PFUnA



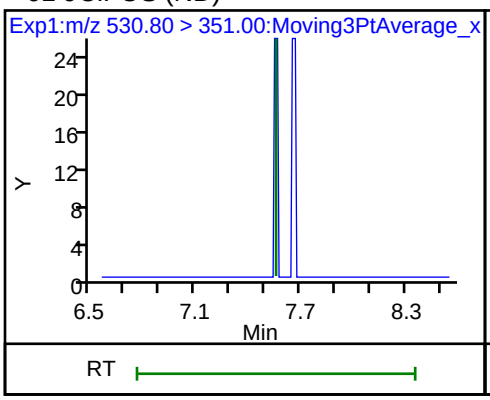
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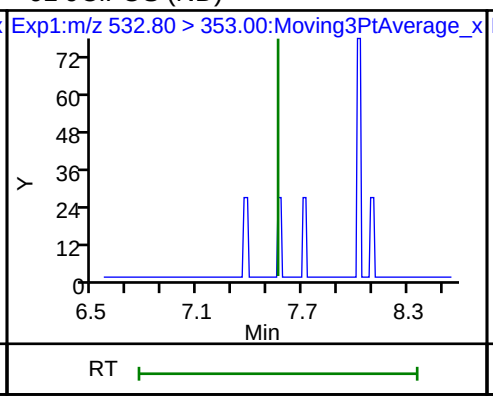
60 PFUnA (ND)



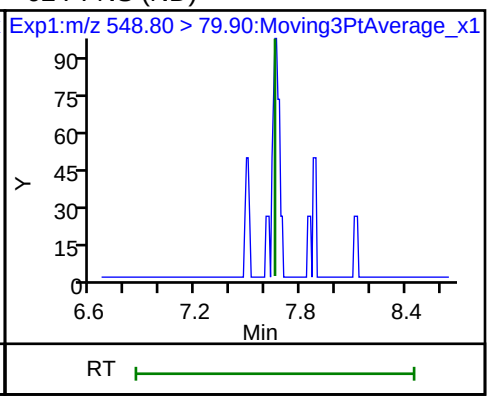
61 9ClFOS (ND)



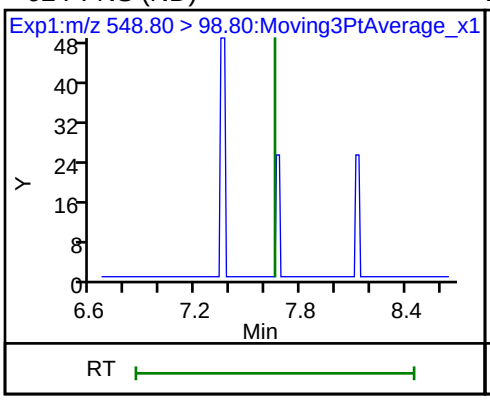
61 9ClFOS (ND)



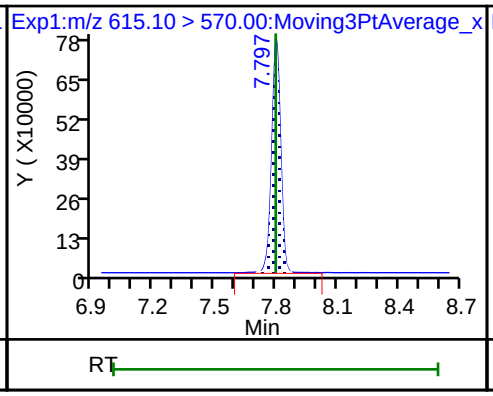
62 PFNS (ND)



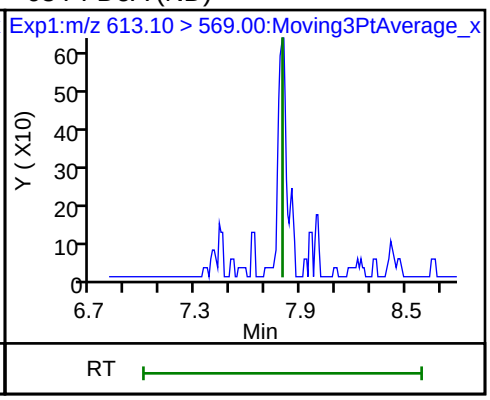
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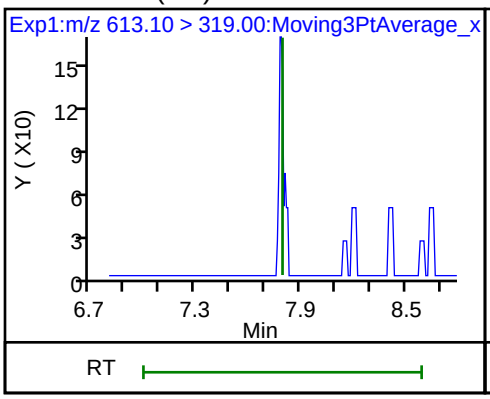
D 81 PFDoA



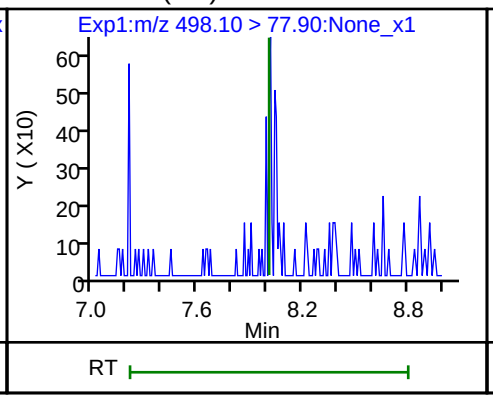
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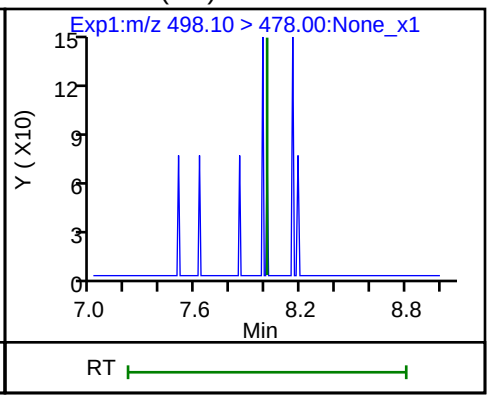
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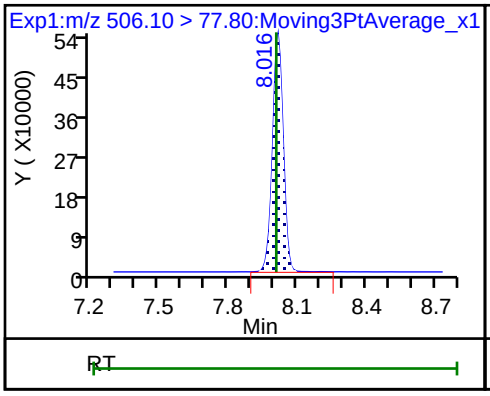
64 PFOSA (ND)



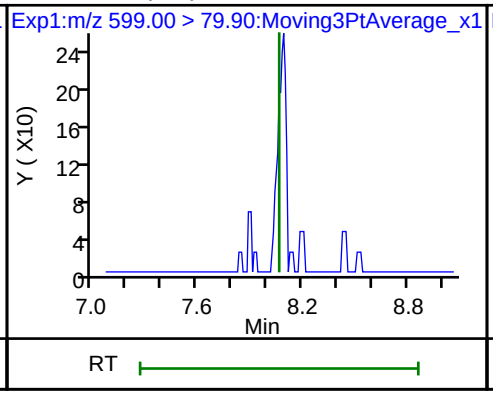
64 PFOSA (ND)



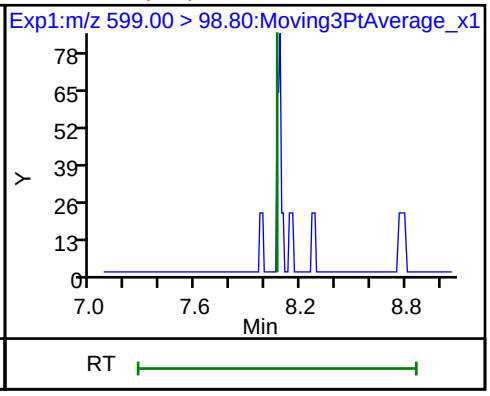
D 65 13C8 FOSA



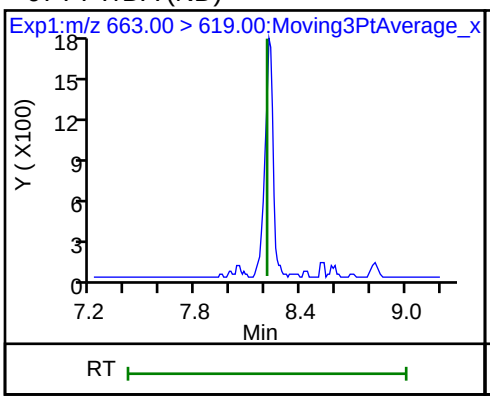
66 PFDS (ND)



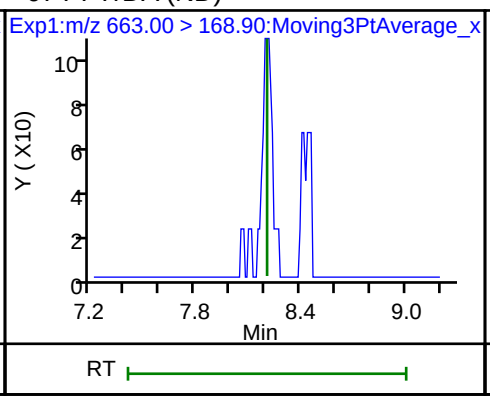
66 PFDS (ND)



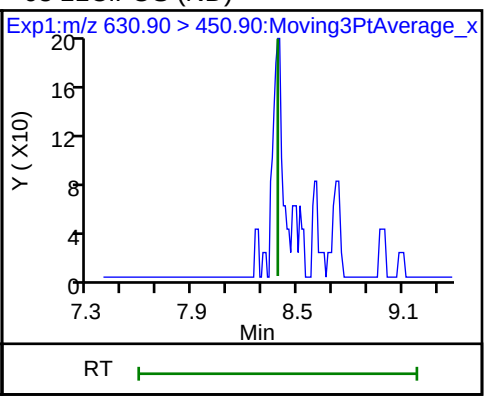
67 PFTrDA (ND)



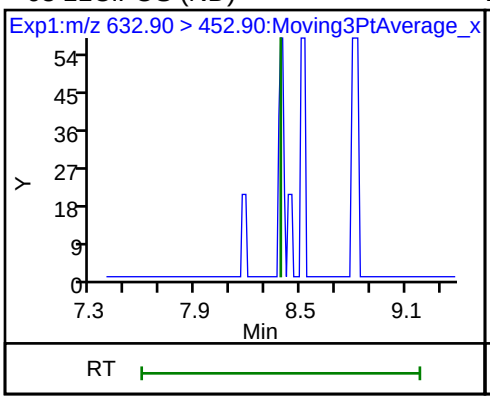
67 PFTrDA (ND)



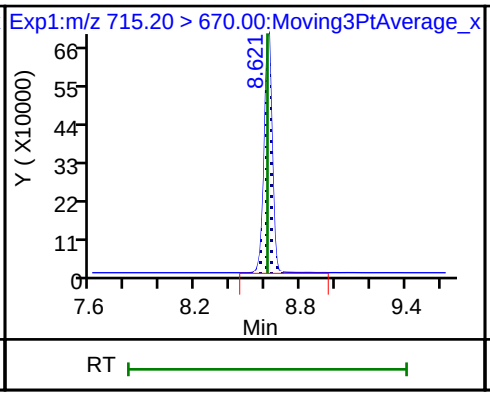
68 11ClFOS (ND)



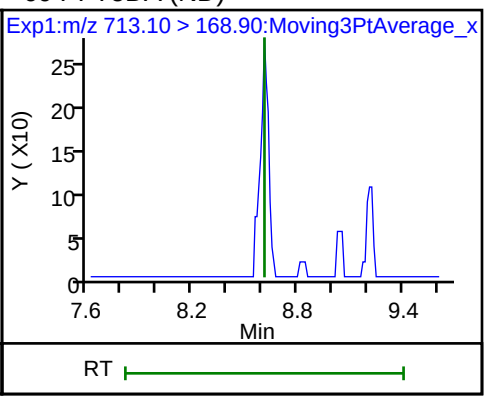
68 11ClFOS (ND)



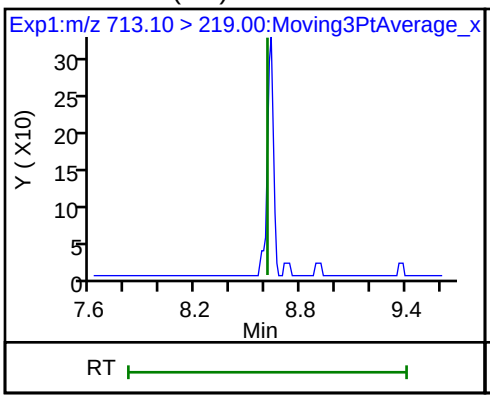
D 70 13C2 PFTeDA



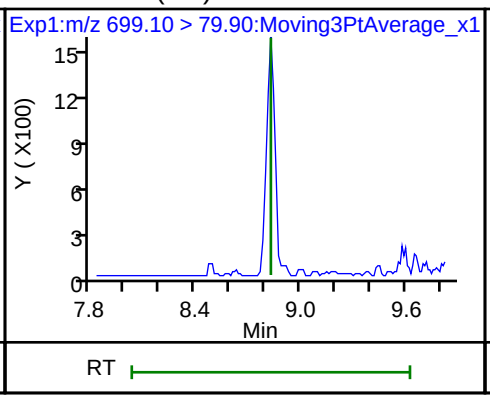
69 PFTeDA (ND)



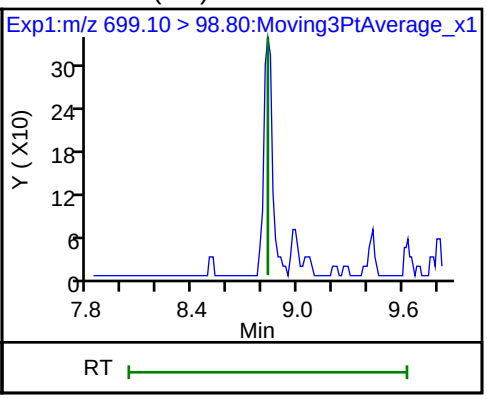
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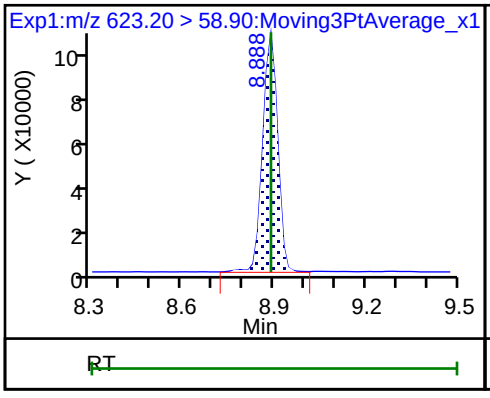
71 PFDoS (ND)



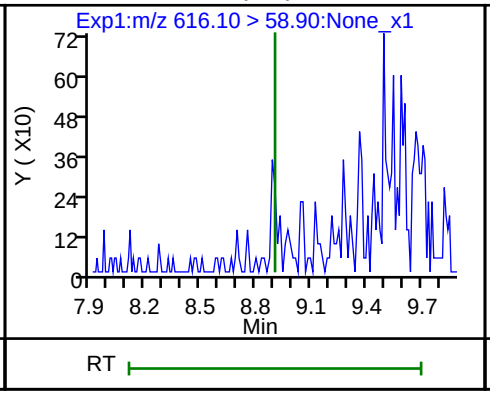
71 PFDoS (ND)



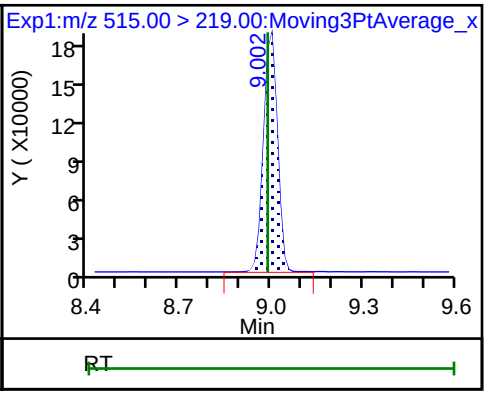
D 72 d7-N-Me-FOSE



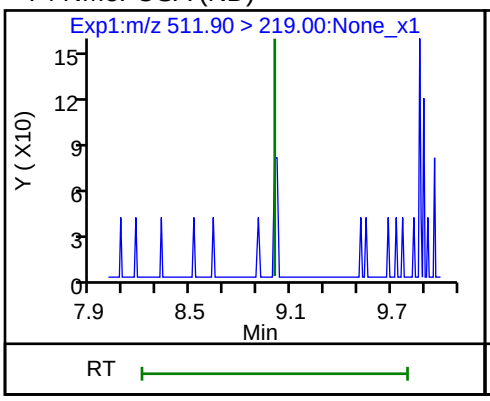
73 N-MeFOSE-M (ND)



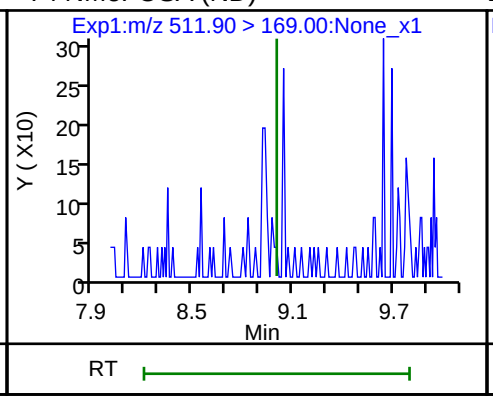
D 75 d3-NMePFOSA



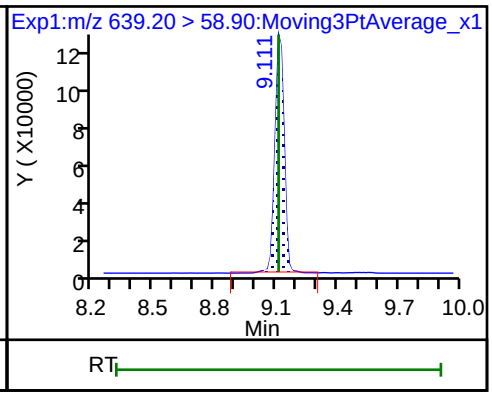
74 NMeFOSA (ND)



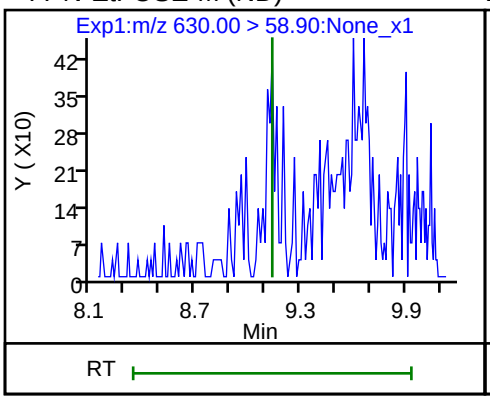
74 NMeFOSA (ND)



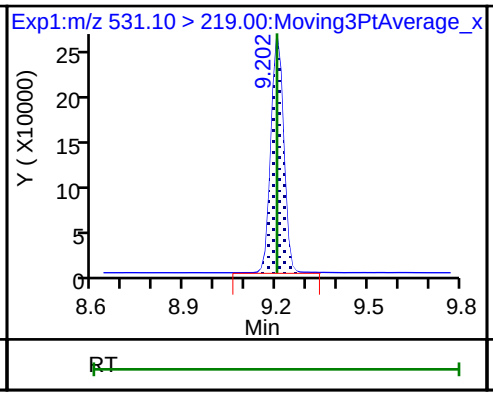
D 76 d9-N-EtFOSE



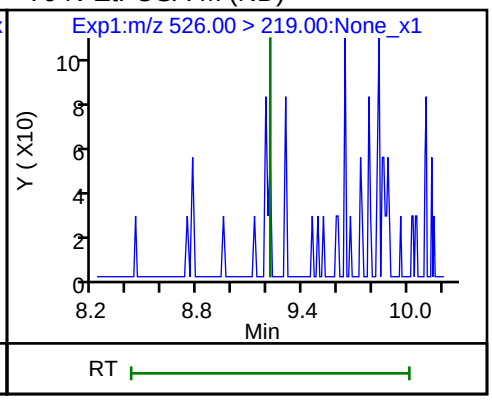
77 N-EtFOSE-M (ND)



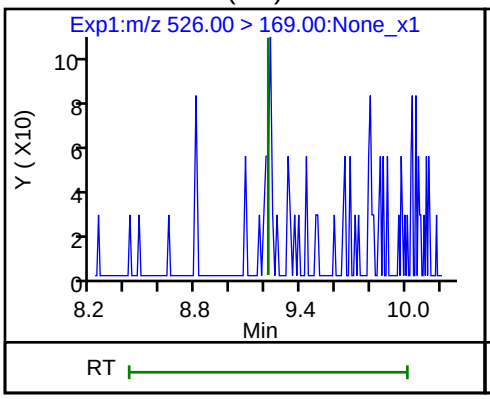
D 78 d5-NEtPFOSA



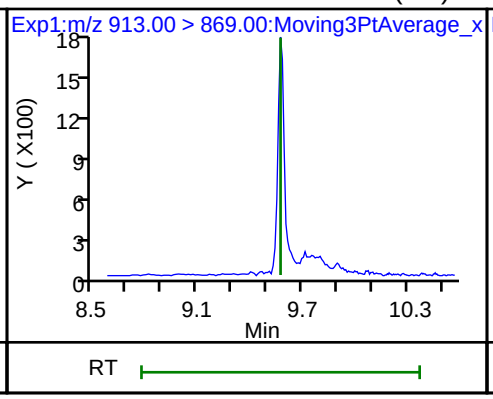
79 N-EtFOSA-M (ND)



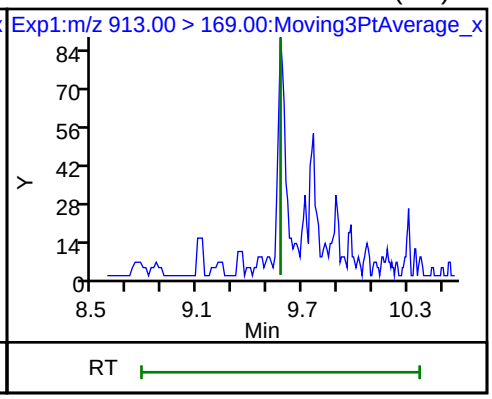
79 N-EtFOSA-M (ND)



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-763508/9-A

Matrix: Water
Lab File ID: 26Feb02n-02.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 125(mL)
Date Analyzed: 02/02/2026 21:30

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	77.47		4.00	1.10
2706-90-3	Perfluoropentanoic acid (PFPeA)	38.12		2.00	0.60
307-24-4	Perfluorohexanoic acid (PFHxA)	37.06		2.00	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	39.20		2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	37.70		2.00	0.90
375-95-1	Perfluorononanoic acid (PFNA)	35.23		2.00	0.50
335-76-2	Perfluorodecanoic acid (PFDA)	36.71		2.00	0.50
2058-94-8	Perfluoroundecanoic acid (PFUnA)	37.02		2.00	0.50
307-55-1	Perfluorododecanoic acid (PFDoA)	36.86		2.00	0.50
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	37.44		2.00	0.50
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	39.67		2.00	0.50
375-73-5	Perfluorobutanesulfonic acid (PFBS)	34.94		2.00	0.50
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	36.89		2.00	0.50
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	32.44		2.00	0.80
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	36.28		2.00	0.50
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	34.02		2.00	1.30
68259-12-1	Perfluorononanesulfonic acid (PFNS)	37.45		2.00	0.50
335-77-3	Perfluorodecanesulfonic acid (PFDS)	34.45		2.00	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	26.12		2.00	0.60
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	71.78		4.00	1.00
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	72.43		4.00	1.00
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	69.15		4.00	1.00
754-91-6	Perfluorooctanesulfonamide (PFOSA)	35.23		2.00	0.50
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	38.11		2.00	0.50
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	39.89		2.00	1.10

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PFAS ORGANICS ANALYSIS DATA SHEET

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SDG No.:

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Lab Sample ID: LCS 410-763508/9-A

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Date Collected:

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Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	34.83		2.00	0.50
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	41.97		2.00	0.50
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	181.7		10.0	4.00
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	186.6		10.0	4.00
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	29.61		2.00	1.40
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.25		2.00	0.50
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	39.50		2.00	0.50
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	37.72		2.00	0.50
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	34.71		2.00	0.50
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	33.68		2.00	0.50
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	33.51		2.00	0.50
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.78		2.00	0.50
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	72.57		4.00	1.00
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	162.8		10.0	2.80
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	165.6		10.0	2.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-763508/9-A

Matrix: Water
Lab File ID: 26Feb02n-02.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 125(mL)
Date Analyzed: 02/02/2026 21:30

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	84.2		5-130
2283397-79-3	13C5 PFPeA	80.0		40-130
2328024-54-8	13C5 PFHxA	81.3		40-130
2328024-55-9	13C4 PFHpA	83.4		40-130
1350614-84-4	13C8 PFOA	88.1		40-130
2283397-80-6	13C9 PFNA	89.7		40-130
2328024-56-0	13C6 PFDA	88.5		40-130
STL02580	13C7 PFUnA	93.0		30-130
STL02116	13C2 PFTeDA	68.1		10-130
2708218-83-9	13C3 PFBS	89.0		40-135
2708218-85-1	13C3 PFHxS	87.0		40-130
2265893-05-6	13C8 PFOS	87.0		40-130
STL01056	13C8 FOSA	80.7		40-130
1400690-70-1	d3-NMeFOSAA	80.4		40-170
1265205-97-7	d5-NEtFOSAA	95.0		25-135
STL02395	13C2 4:2 FTS	99.9		40-200
STL02279	13C2 6:2 FTS	104		40-200
STL02280	13C2 8:2 FTS	95.5		40-300
STL02255	13C3 HFPO-DA	83.0		40-130
STL02277	d7-N-MeFOSE-M	58.1		10-130
STL02278	d9-N-EtFOSE-M	55.1		10-130
STL02704	d5-NEtPFOSA	65.4		10-130
STL02705	d3-NMePFOSA	67.6		10-130
960315-52-0	13C2 PFDoA	90.4		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-02.d
Lims ID: LCS 410-763508/9-A
Client ID:
Sample Type: LCS
Inject. Date: 02-Feb-2026 21:30:09 ALS Bottle#: 43 Worklist Smp#: 43
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-763508/9-A
Misc. Info.: Plate: 1 Rack: 1 410-0174324-043
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 03-Feb-2026 11:37:01 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1674

First Level Reviewer: VGQ7 Date: 03-Feb-2026 11:14:51
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.975	1.992	-0.017	0.474	1063547	1.62		80.8	498	
2 Perfluoropropionic acid										
163.00 > 119.00	1.984	2.001	-0.017	1.004	2435056	5.01		100	2256	
5 PFBA										
212.80 > 168.90	4.156	4.161	-0.005	0.998	1185049	1.94		96.8	3463	
D 3 13C4-PFBA										
216.80 > 171.90	4.164	4.161	0.003	1.000	1338350	1.68		84.2	6813	
* 4 13C3PFBA										
216.00 > 172.00	4.164	4.169	-0.005		1519942	2.00			1083	
6 PFMPA										
229.00 > 84.90	4.501	4.496	0.005	0.933	703135	0.9875		98.7	2924	
7 3:3 FTCA										
241.00 > 177.00	4.501	4.496	0.005	0.933	70186	1.81	Target=1.24	90.7	1124	
241.00 > 117.00	4.501	4.496	0.005	0.933	55351		1.27(0.62-1.86)		621	
D 8 13C5 PFPeA										
268.30 > 223.00	4.826	4.822	0.004	0.915	853157	1.60		80.0	4361	
9 PFPA										
263.00 > 219.00	4.826	4.822	0.004	1.000	755453	0.9530		95.3	1111	
10 PFMBA										
279.00 > 85.10	4.972	4.978	-0.006	1.030	854314	0.9430		94.3	4768	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.093	5.099	-0.005	0.802	612784	4.68		99.9	2938	
12 4:2FTS										
327.10 > 307.00	5.104	5.099	0.006	1.002	390181	1.79	Target=1.50	95.7	3149	
327.10 > 80.90	5.093	5.099	-0.005	1.000	230978		1.69(0.75-2.24)		557	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.235	5.242	-0.007	0.992	259514	0.8677	Target=1.53	86.8	1672	
295.00 > 84.90	5.235	5.242	-0.007	0.992	192838		1.35(0.76-2.29)		1569	
17 PFHxA										
313.00 > 269.00	5.275	5.282	-0.007	1.000	681485	0.9264	Target=12.38	92.6	1189	
313.00 > 118.90	5.275	5.282	-0.007	1.000	54821		12.43(6.19-18.57)		248	
D 15 13C5 PFHxA										
318.00 > 273.00	5.275	5.282	-0.007	1.000	1704342	1.63		81.3	6448	
* 16 13C2 PFHxA										
315.10 > 270.00	5.275	5.282	-0.007		4587308	5.00			8397	
20 5:3 FTCA										
341.00 > 237.10	5.341	5.347	-0.006	1.013	386787	4.07	Target=0.84	81.4	1915	
341.00 > 217.00	5.341	5.347	-0.006	1.013	437090		0.88(0.42-1.25)		1630	
D 18 13C3 PFBS										
302.10 > 79.90	5.418	5.410	0.008	0.853	1600524	1.66		89.0	7190	
19 PFBS										
298.70 > 79.90	5.418	5.424	-0.006	1.000	789841	0.8735	Target=3.07	98.4	3354	
298.70 > 98.80	5.418	5.424	-0.006	1.000	231133		3.42(1.54-4.61)		76659	
25 FBSA										
297.90 > 78.00	5.405	5.424	-0.019	0.998	770982	0.8520		85.2	2055	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.458	5.464	-0.006	1.035	1505569	1.66		83.0	3587	
22 HFPO-DA										
284.90 > 168.90	5.472	5.464	0.008	1.002	555010	0.7402	Target=2.35	98.7	1811	
284.90 > 184.90	5.472	5.464	0.008	1.002	223008		2.49(1.17-3.52)		638	
24 PFEESA										
314.80 > 134.90	5.657	5.665	-0.008	1.073	2006171	0.8946	Target=11.61	100	4401	
314.80 > 82.90	5.657	5.665	-0.008	1.073	173928		11.53(5.81-17.42)		813	
28 PFHpA										
363.10 > 319.00	5.700	5.707	-0.007	1.000	710909	0.9799	Target=2.31	98.0	1303	
363.10 > 169.00	5.700	5.707	-0.007	1.000	282274		2.52(1.16-3.47)		1132	
D 26 13C4 PFHpA										
367.10 > 322.00	5.700	5.707	-0.007	1.081	1725247	1.67		83.4	7197	
30 ADONA										
376.90 > 250.90	5.864	5.857	0.007	1.074	1670249	0.9313	Target=1.93	98.4	8849	
376.90 > 84.80	5.864	5.857	0.007	1.074	850841		1.96(0.97-2.90)		5346	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.910	5.903	0.007	0.931	531577	4.94		104	3236	
32 6:2FTS										
427.10 > 407.00	5.910	5.903	0.007	1.000	335075	1.81	Target=1.49	95.1	222	
427.10 > 80.90	5.910	5.903	0.007	1.000	227515		1.47(0.75-2.24)		198	
29 PFPeS										
349.10 > 79.90	5.910	5.903	0.007	0.931	786269	0.9223	Target=3.10	98.1	2636	
349.10 > 98.90	5.910	5.903	0.007	0.931	235981		3.33(1.55-4.65)		607	
33 BTS										
280.00 > 147.00	6.069	6.063	0.006	0.956	1786195	0.8968		90.1	6435	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.110	6.104	0.006	1.000	646458	0.9425	Target=1.86	94.2	751	
413.00 > 169.00	6.110	6.104	0.006	1.000	315999		2.05(0.93-2.79)		393	
* 35 13C4 PFOA										
417.10 > 372.00	6.110	6.117	-0.007		6117117	5.00			8619	
D 34 13C8 PFOA										
421.10 > 376.00	6.110	6.117	-0.007	1.000	2155682	1.76		88.1	6244	
39 7:3 FTCA										
441.00 > 316.90	6.175	6.182	-0.007	1.171	202612	4.14	Target=0.34	82.8	923	
441.00 > 336.90	6.175	6.182	-0.007	1.171	581989		0.35(0.17-0.51)		1309	
40 PFHxS										
398.70 > 79.90	6.349	6.345	0.004	1.000	536374	0.8109	Target=3.30	88.9	907	
398.70 > 98.90	6.360	6.345	0.015	1.002	162398		3.30(1.65-4.96)		48139	
D 38 13C3 PFHxS										
402.10 > 79.90	6.349	6.345	0.004	1.000	1452753	1.65		87.0	5417	
* 37 18O2 PFHxS										
403.00 > 83.90	6.349	6.345	0.004		1626262	1.90			6937	
* 42 13C5 PFNA										
468.00 > 423.00	6.531	6.525	0.006		2148175	2.00			8739	
D 41 13C9 PFNA										
472.10 > 427.00	6.531	6.525	0.006	1.000	1804216	1.79		89.7	4729	
43 PFNA										
463.00 > 419.00	6.531	6.525	0.006	1.000	768246	0.8807	Target=2.61	88.1	1097	
463.00 > 219.00	6.531	6.525	0.006	1.000	281624		2.73(1.31-3.92)		530	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.712	6.707	0.005	1.057	471120	4.59		95.5	1694	
46 8:2FTS										
527.10 > 507.00	6.712	6.707	0.005	1.000	226295	1.73	Target=1.36	90.0	714	
527.10 > 80.80	6.712	6.707	0.005	1.000	163125		1.39(0.68-2.04)		696	
44 PFECHS										a
461.00 > 381.00	6.759	6.742	0.017	1.064	209758	0.9098	Target=0.26	98.5	1336	a
461.00 > 99.00	6.759	6.742	0.017	1.064	799310		0.26(0.13-0.39)		803	
47 PFHpS										
449.00 > 79.90	6.796	6.779	0.017	0.940	737654	0.9071	Target=4.06	95.1	3904	
449.00 > 98.80	6.796	6.779	0.017	0.940	180122		4.10(2.03-6.09)		57016	
48 FHxSA										
397.90 > 78.00	6.821	6.841	-0.020	1.074	951887	0.8964		89.6	2695	
50 NMeFOSAA										
570.10 > 419.00	6.882	6.877	0.005	1.000	175417	0.8709	Target=1.95	87.1	369	
570.10 > 483.00	6.882	6.877	0.005	1.000	96653		1.81(0.98-2.93)		184	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.882	6.877	0.005	0.952	870156	4.02		80.4	1614	
D 51 13C6 PFDA										
519.10 > 474.10	6.954	6.938	0.016	1.000	1703923	1.77		88.5	7258	
53 PFDA										
512.90 > 469.00	6.954	6.938	0.016	1.000	502239	0.9178	Target=3.17	91.8	1364	
512.90 > 219.00	6.954	6.938	0.016	1.000	152820		3.29(1.58-4.75)		1041	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 52 13C2 PFDA										
515.10 > 470.10	6.954	6.938	0.016		1904473	2.00			7392	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.061	7.057	0.004	0.977	889469	4.75		95.0	1587	
55 NEtFOSAA										
584.20 > 419.10	7.074	7.057	0.017	1.002	148880	1.05	Target=1.64	105	221	
584.20 > 526.00	7.087	7.057	0.030	1.004	85808		1.74(0.82-2.47)		102	
D 56 13C8 PFOS										
507.10 > 79.90	7.227	7.208	0.019	1.000	1231893	1.67		87.0	1331	
* 57 13C4 PFOS										
502.80 > 79.90	7.227	7.208	0.019		1394255	1.92			9448	
58 PFOS										
498.90 > 79.90	7.227	7.221	0.006	1.000	773631	0.8505	Target=4.98	91.5	1002	
498.90 > 98.80	7.227	7.221	0.006	1.000	159174		4.86(2.49-7.47)		323	
60 PFUnA										
563.10 > 519.00	7.373	7.353	0.020	1.000	383834	0.9254	Target=2.89	92.5	1085	
563.10 > 269.10	7.373	7.353	0.020	1.000	116735		3.29(1.45-4.34)		376	
D 59 13C7 PFUnA										
570.00 > 525.10	7.373	7.353	0.020	1.060	1785613	1.86		93.0	5551	
61 9ClFOS										
530.80 > 351.00	7.556	7.540	0.016	1.046	1502939	0.8420	Target=3.11	90.2	13468	
532.80 > 353.00	7.556	7.540	0.016	1.046	486946		3.09(1.55-4.66)		2889	
62 PFNS										
548.80 > 79.90	7.651	7.637	0.014	1.059	654974	0.9364	Target=4.37	97.3	2652	
548.80 > 98.80	7.651	7.637	0.014	1.059	150633		4.35(2.19-6.56)		47530	
63 PFDoA										
613.10 > 569.00	7.794	7.777	0.017	1.000	392943	0.9215	Target=3.23	92.1	1539	
613.10 > 319.00	7.794	7.777	0.017	1.000	124991		3.14(1.61-4.84)		807	
D 82 PFDoA										
615.10 > 570.00	7.794	7.777	0.017	1.121	1222677	1.81		90.4	1768	
65 PFOSA										
498.10 > 77.90	7.958	7.951	0.007	1.000	615812	0.8808	Target=44.84	88.1	1645	
498.10 > 478.00	7.944	7.951	-0.007	0.998	13741		44.82(22.42-67.27)		35.8	
D 64 13C8 FOSA										
506.10 > 77.80	7.958	7.965	-0.007	1.101	1337389	1.61		80.7	5713	
66 PFDS										
599.00 > 79.90	8.051	8.032	0.019	1.114	638595	0.8612	Target=4.49	89.3	4248	
599.00 > 98.80	8.051	8.032	0.019	1.114	145241		4.40(2.24-6.73)		1669	
67 PFTrDA										
663.00 > 619.00	8.190	8.169	0.021	0.960	418805	0.9360	Target=4.04	93.6	1765	
663.00 > 168.90	8.190	8.169	0.021	0.960	90509		4.63(2.02-6.05)		803	
68 11ClFOS										
630.90 > 450.90	8.336	8.329	0.007	1.153	820861	0.8377	Target=2.75	88.7	4305	
632.90 > 452.90	8.336	8.329	0.007	1.153	288842		2.84(1.37-4.12)		2022	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.530	8.510	0.020	1.227	764668	1.36		68.1	5487	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
70 PFTeDA										
713.10 > 168.90	8.544	8.510	0.034	1.002	56407	0.99	Target=0.87	99.2	550	
713.10 > 219.00	8.544	8.510	0.034	1.002	59357		0.95(0.44-1.31)		511	
73 PFDoS										
699.10 > 79.90	8.716	8.695	0.021	1.206	446763	0.6531	Target=4.76	67.3	3660	
699.10 > 98.80	8.716	8.695	0.021	1.206	93076		4.80(2.38-7.13)		1611	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.744	8.738	0.006	1.210	379379	2.90		58.1	272	
72 N-MeFOSE-M										
616.10 > 58.90	8.758	8.752	0.006	1.002	659243	4.54		90.9	627	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.826	8.834	-0.008	1.221	316329	1.35		67.6	2540	
75 NMeFOSA										
511.90 > 219.00	8.839	8.834	0.005	1.002	150007	0.9527	Target=0.73	95.3	763	
511.90 > 169.00	8.839	8.834	0.005	1.002	197045		0.76(0.37-1.10)		623	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.932	8.926	0.006	1.236	478261	2.76		55.1	408	
77 N-EtFOSE-M										
630.00 > 58.90	8.945	8.939	0.006	1.001	941300	4.66		93.3	2046	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.996	8.991	0.005	1.245	372186	1.31		65.4	2297	
79 N-EtFOSA-M										
526.00 > 219.00	9.009	9.004	0.005	1.001	182007	1.00	Target=0.85	99.7	1171	
526.00 > 169.00	8.996	9.004	-0.008	1.000	218642		0.83(0.43-1.28)		1170	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.371	9.319	0.052	1.099	525542	2.27	Target=10.32	227	9666	
913.00 > 169.00	9.371	9.319	0.052	1.099	34402		15.28(5.16-15.48)		1751	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

1633_125_IS_V_00579 Amount Added: 50.00 Units: uL

Report Date: 03-Feb-2026 11:39:03 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-02.d

Injection Date: 02-Feb-2026 21:30:09 Instrument ID: 30576

Lims ID: LCS 410-763508/9-A

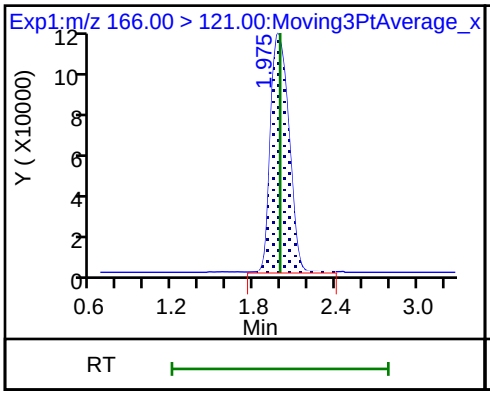
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Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 43 Worklist Smp#: 43

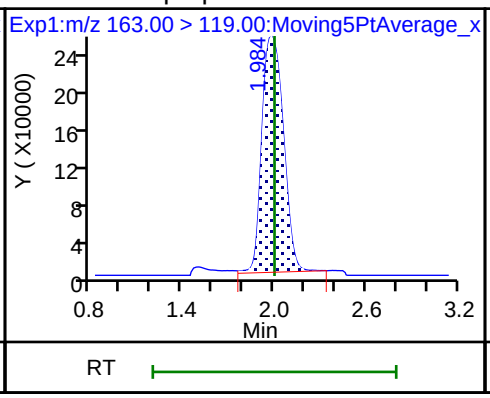
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Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

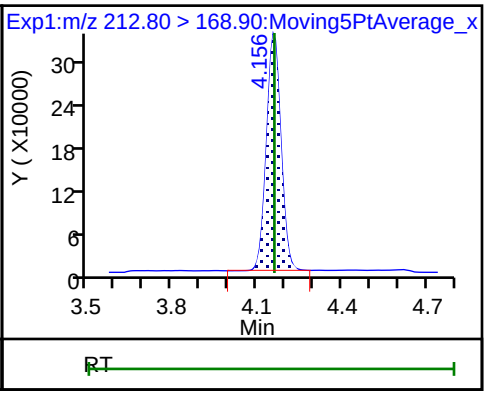
D 1 13C3PFPrA



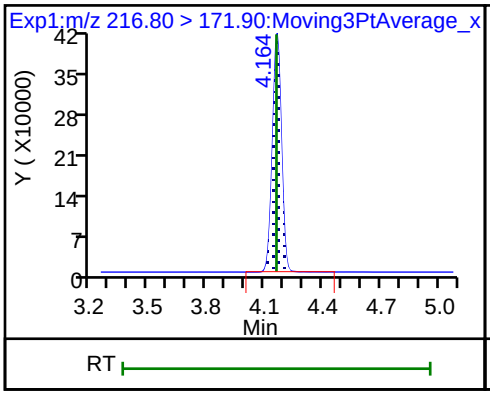
2 Perfluoropropionic acid



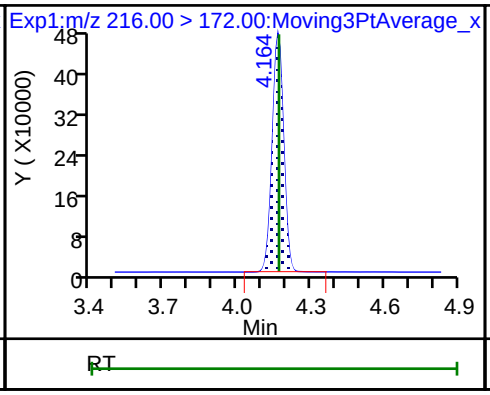
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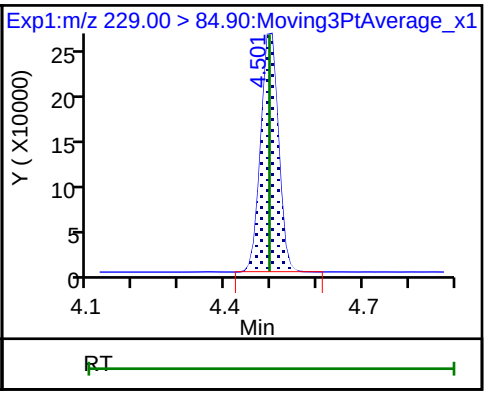
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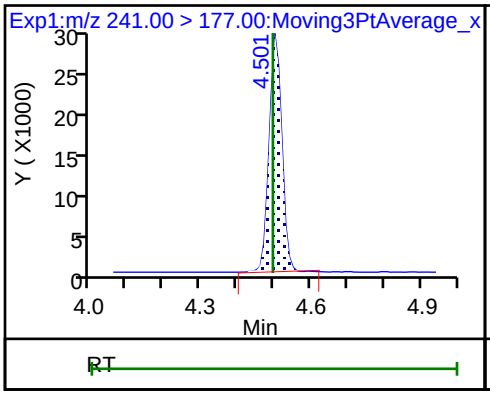
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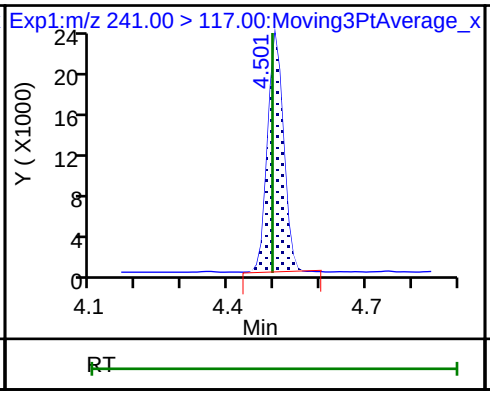
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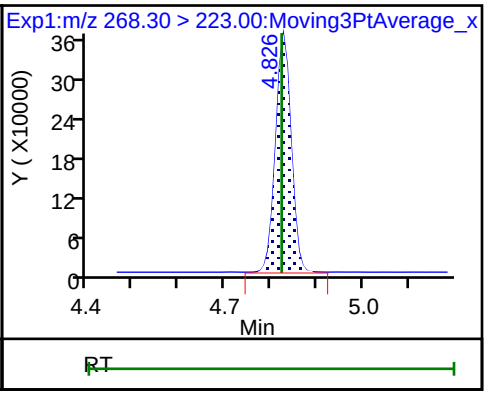
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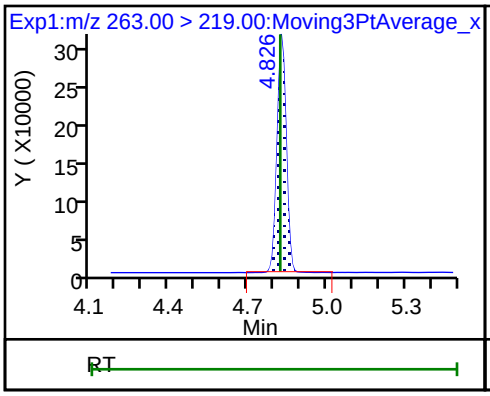
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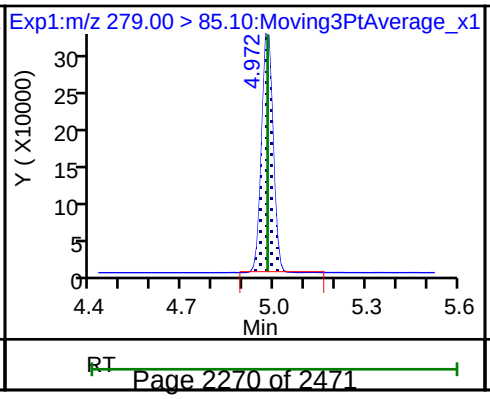
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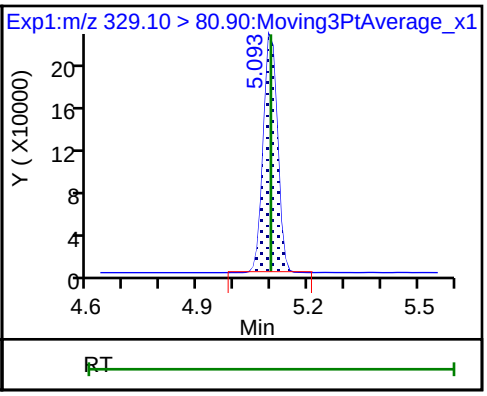
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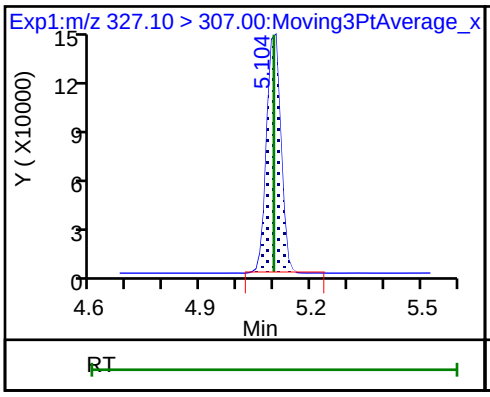
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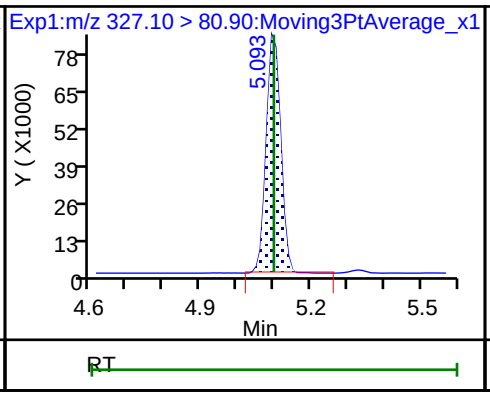
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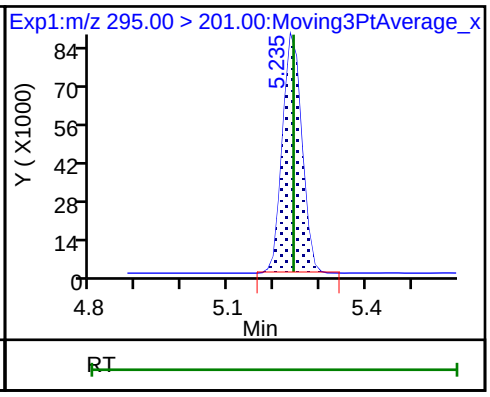
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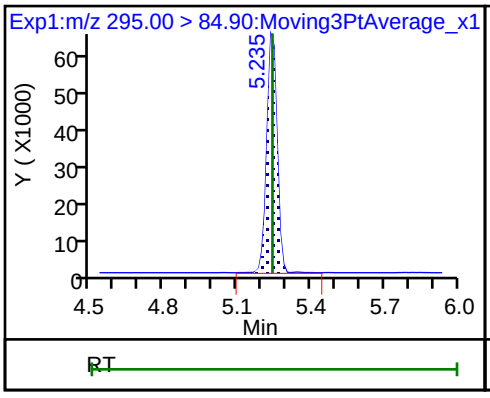
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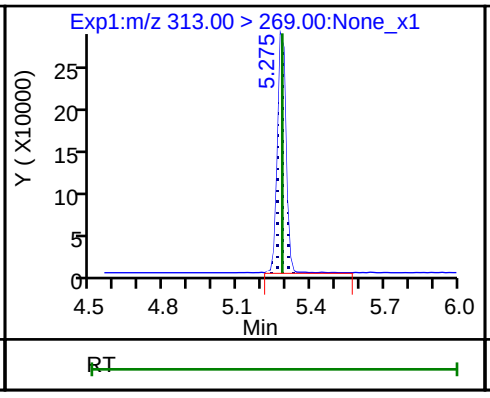
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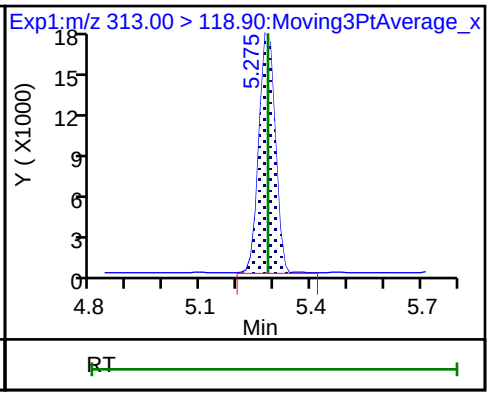
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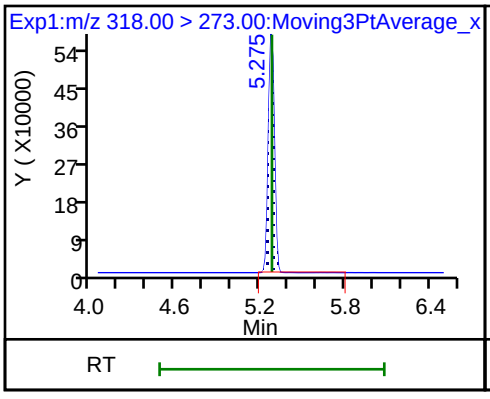
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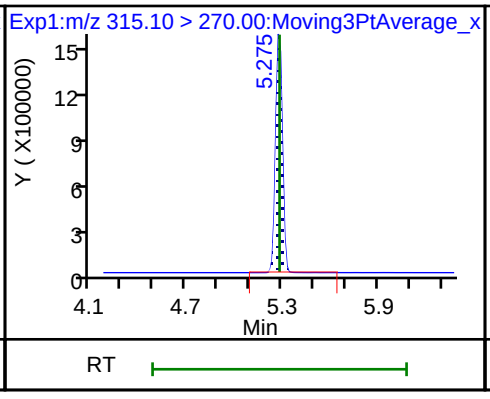
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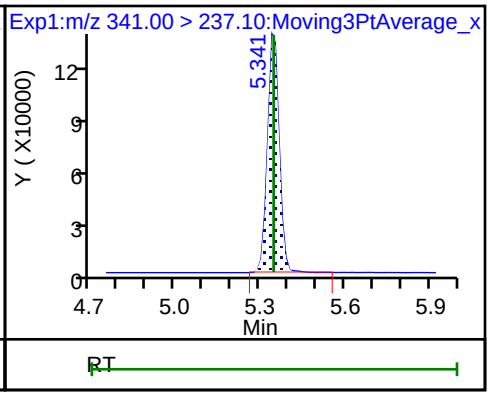
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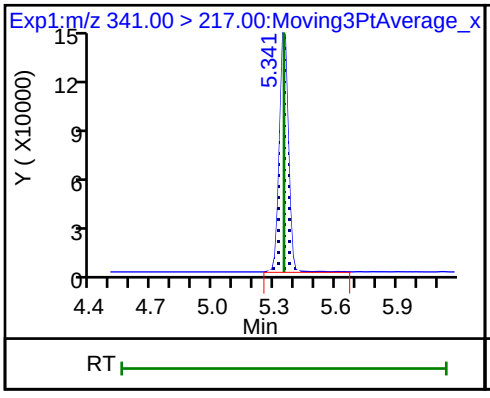
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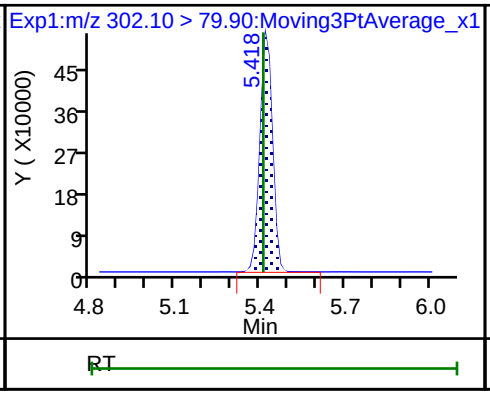
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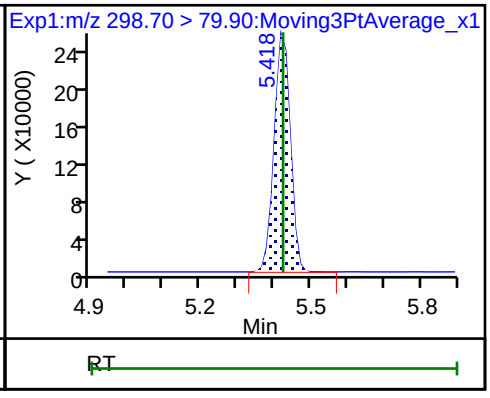
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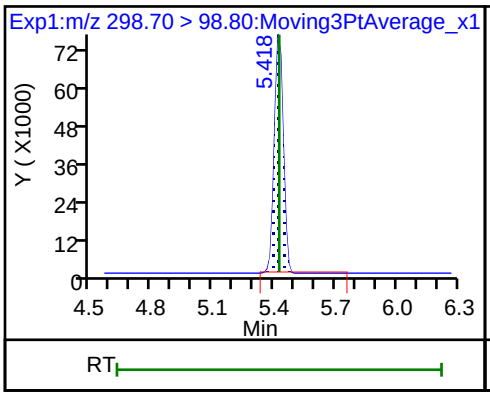
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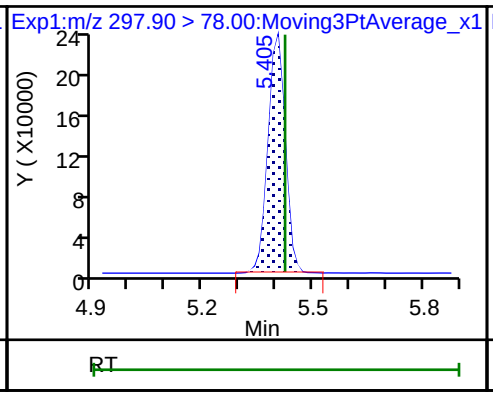
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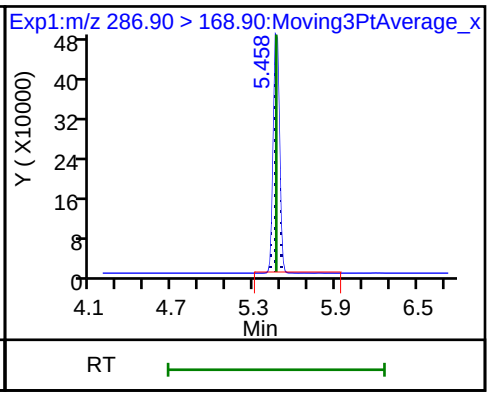
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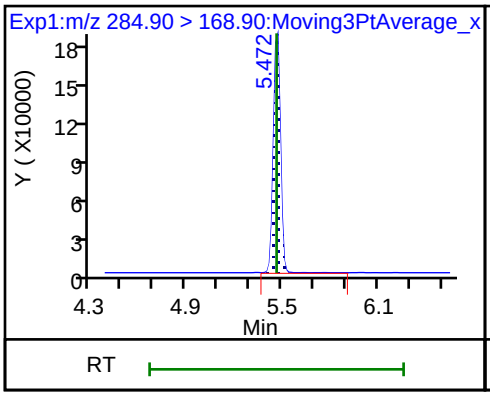
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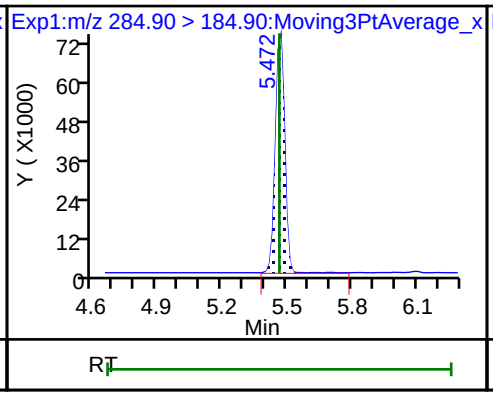
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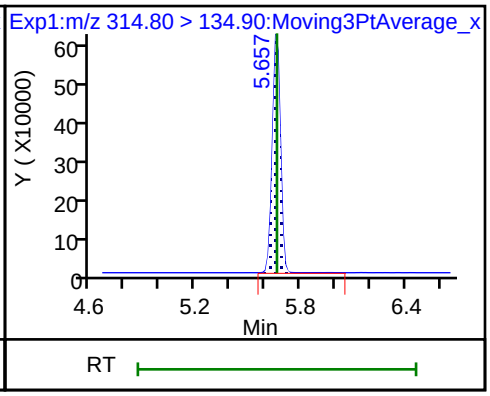
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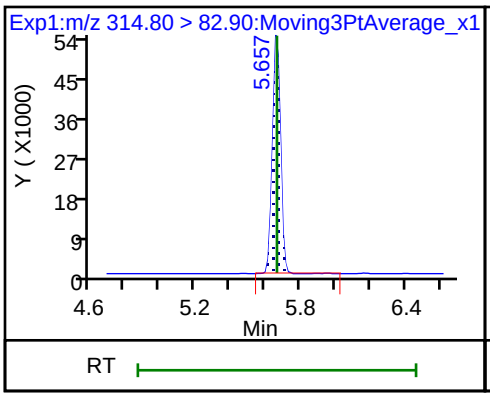
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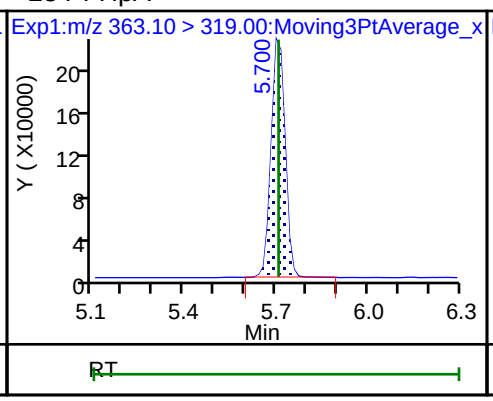
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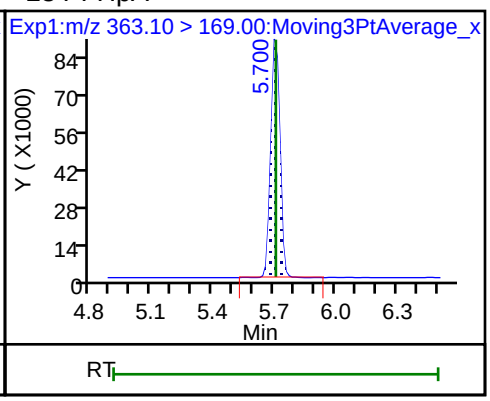
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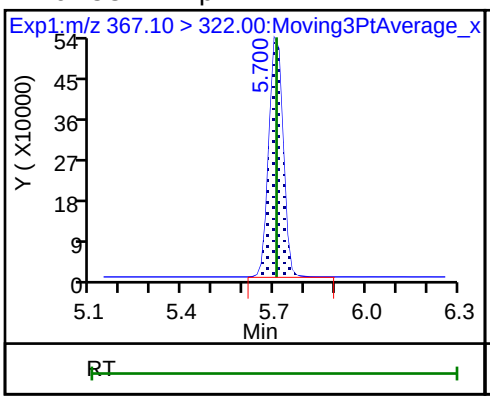
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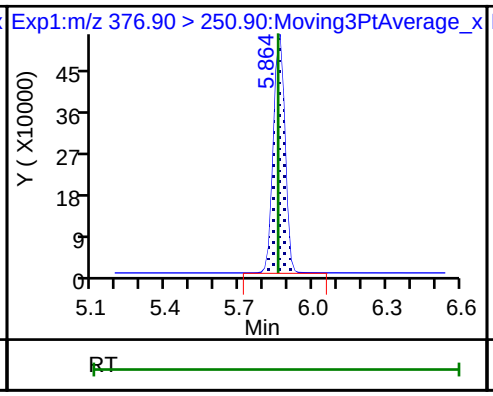
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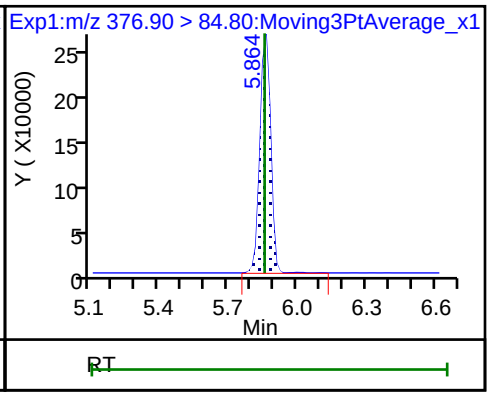
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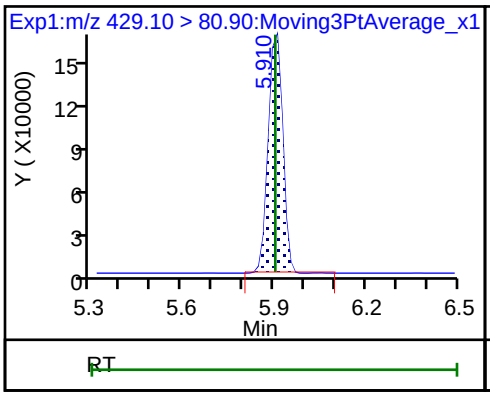
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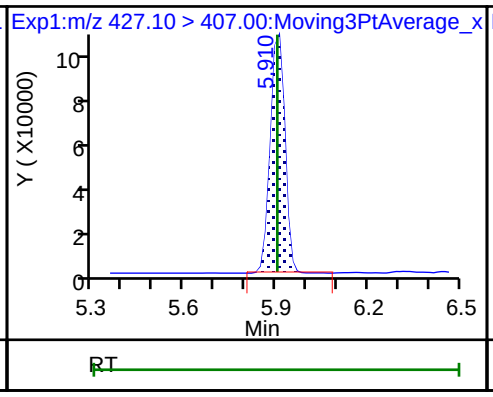
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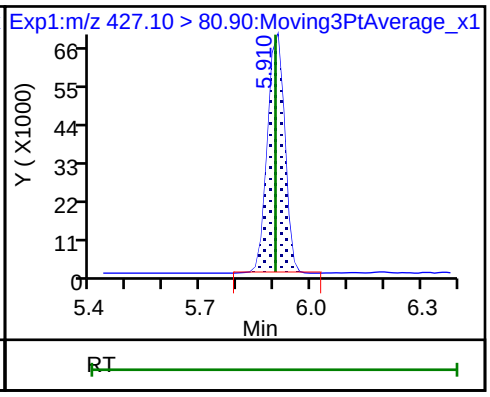
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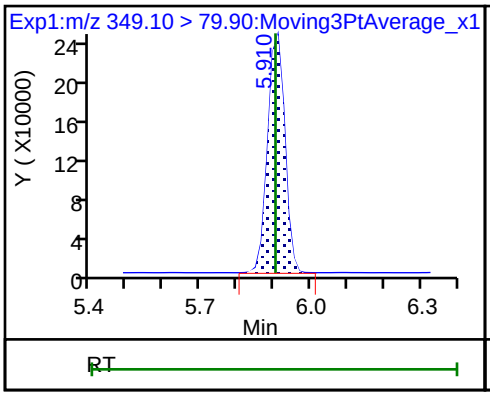
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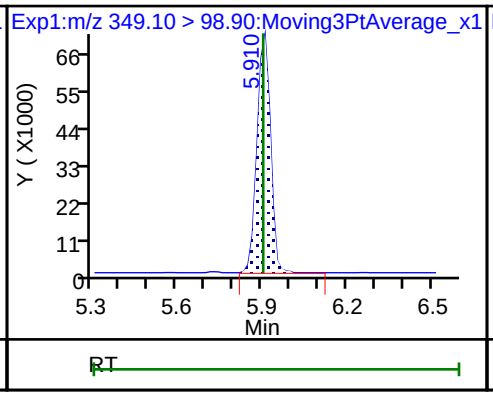
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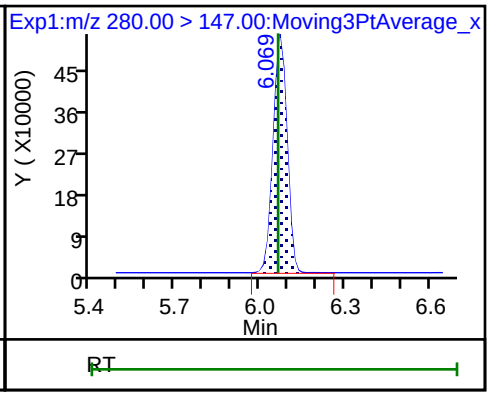
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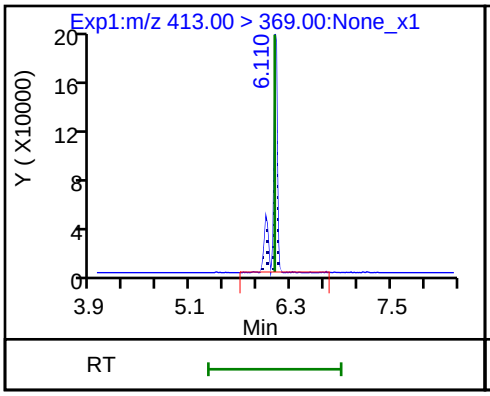
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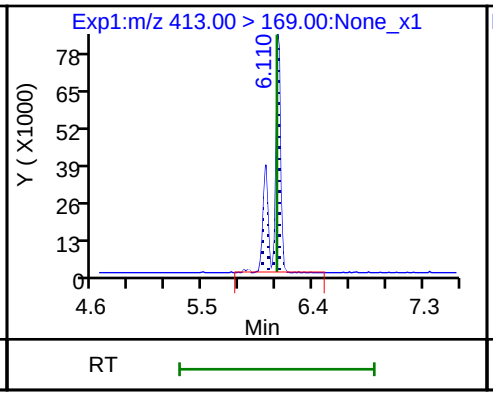
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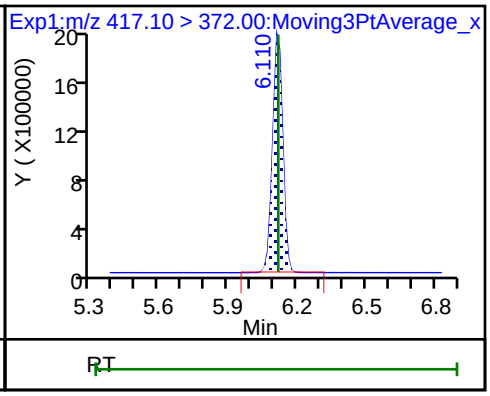
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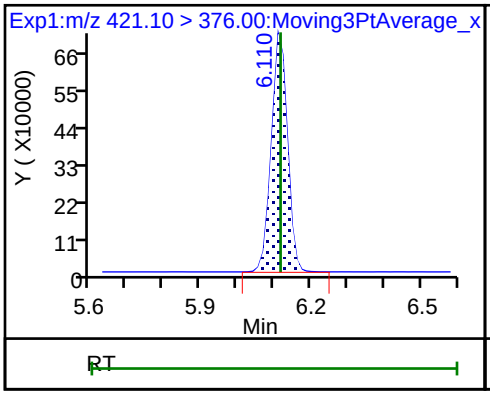
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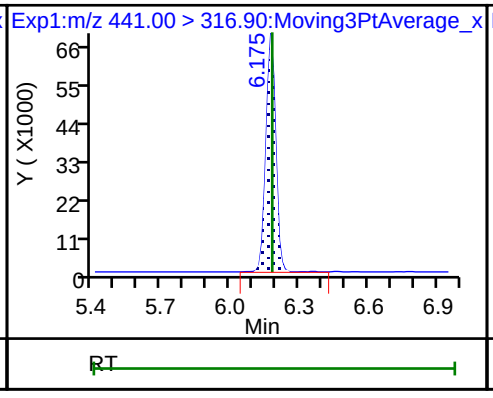
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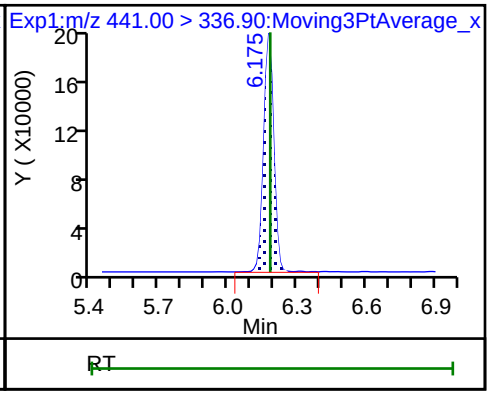
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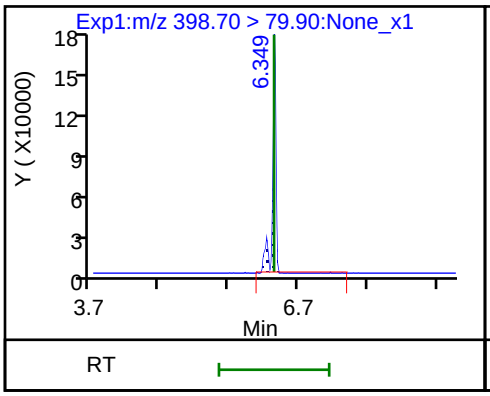
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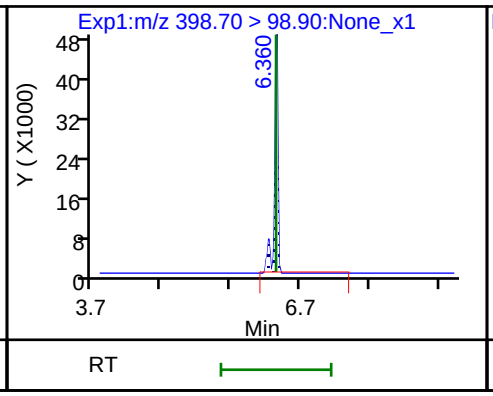
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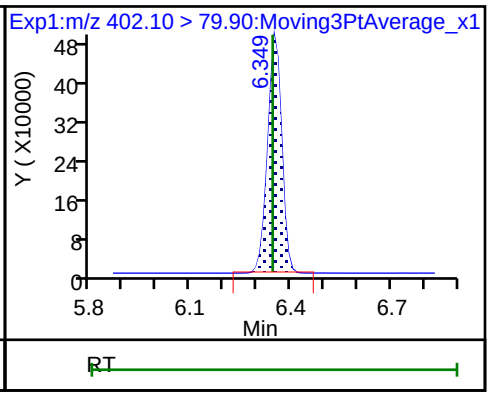
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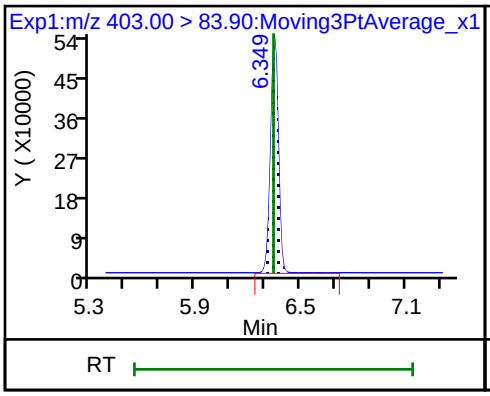
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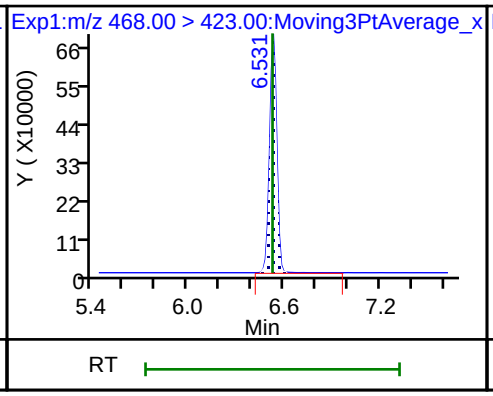
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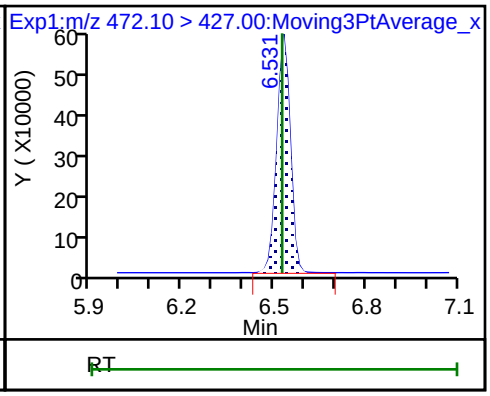
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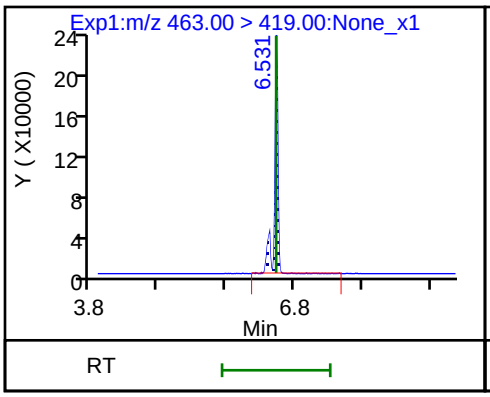
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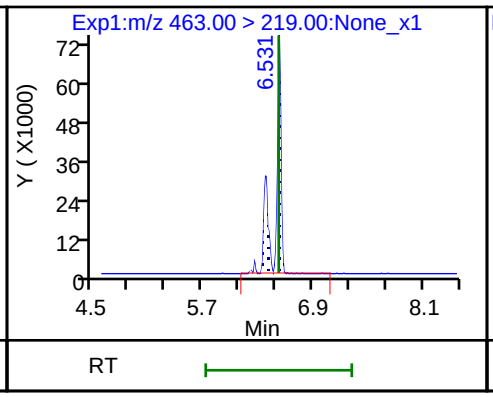
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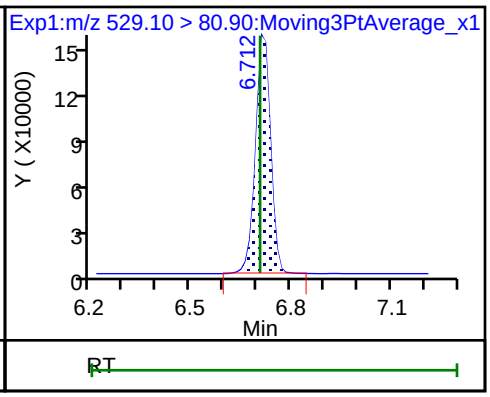
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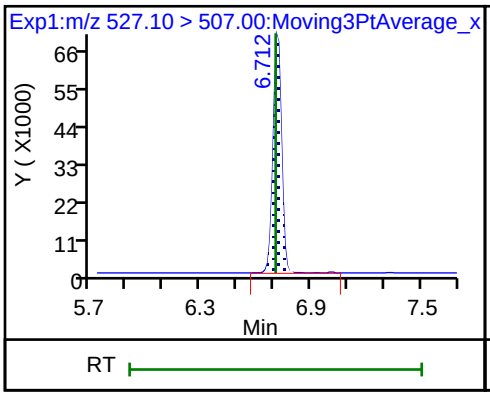
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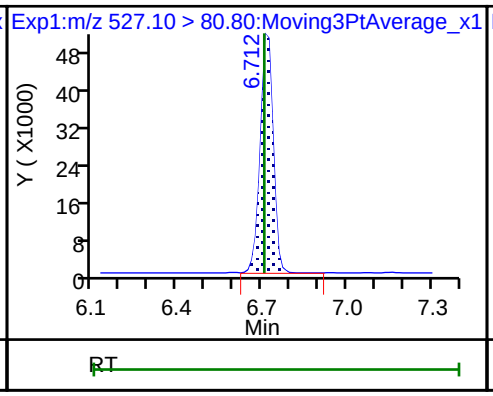
D 45 13C2-8:2FTS



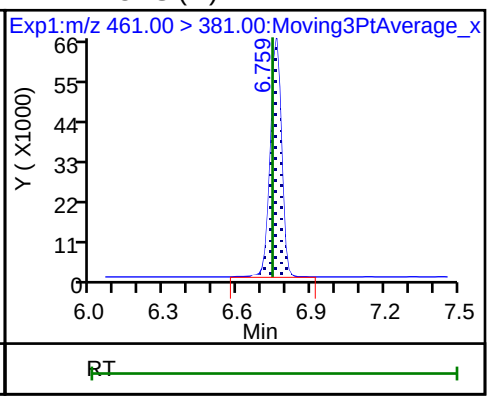
46 8:2FTS



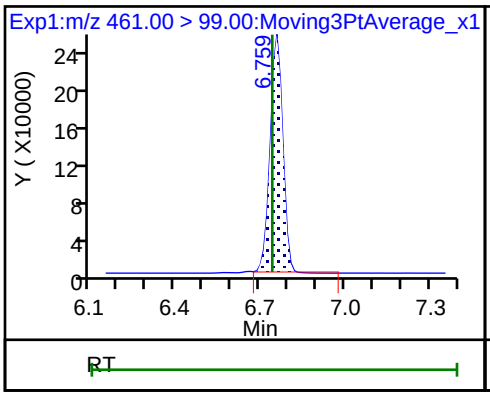
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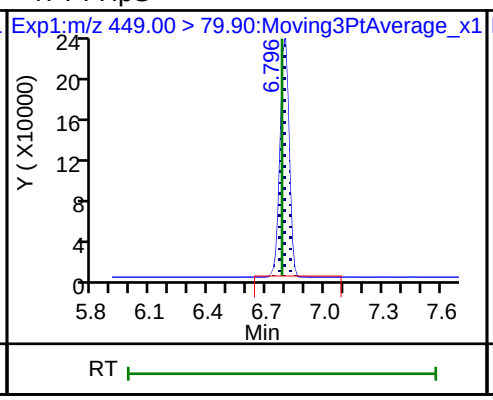
44 PFECHS (M)



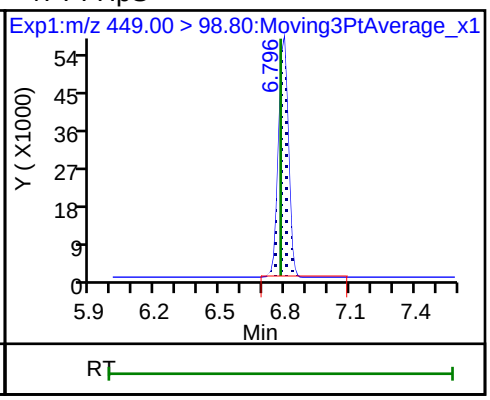
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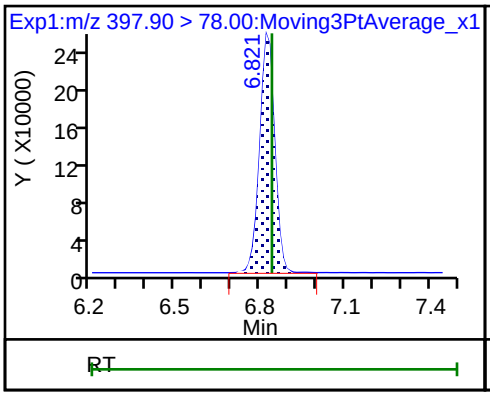
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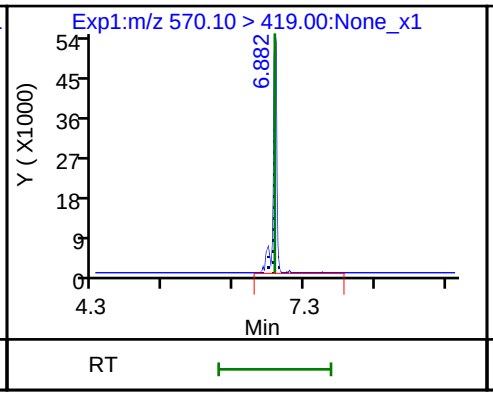
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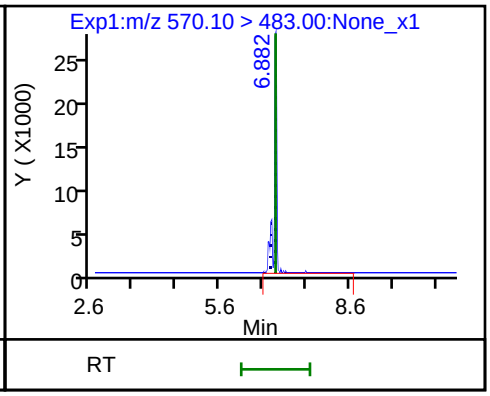
48 FHxSA



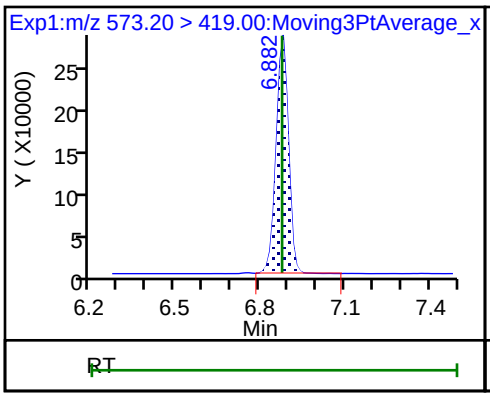
50 NMeFOSAA



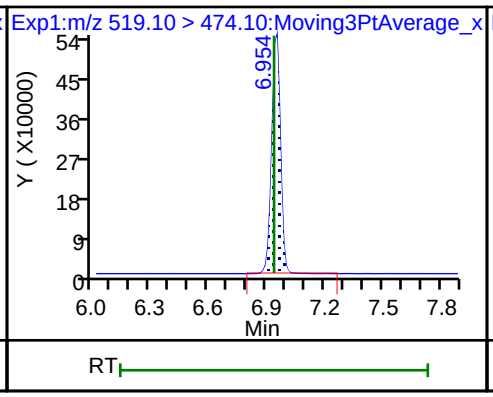
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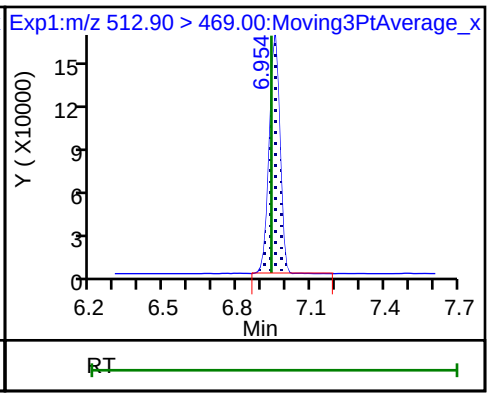
D 49 d3-NMeFOSAA



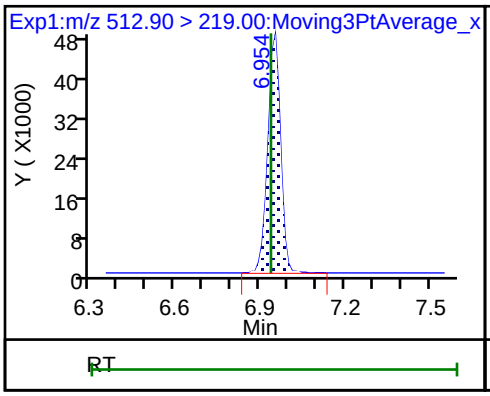
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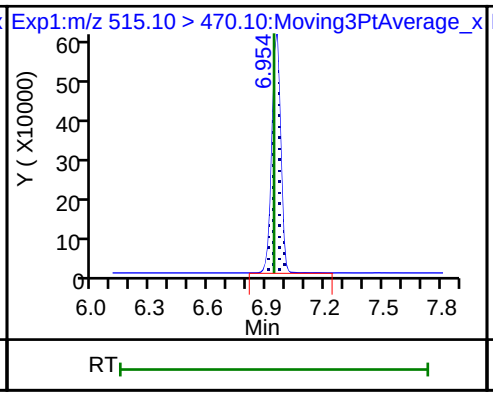
53 PFDA



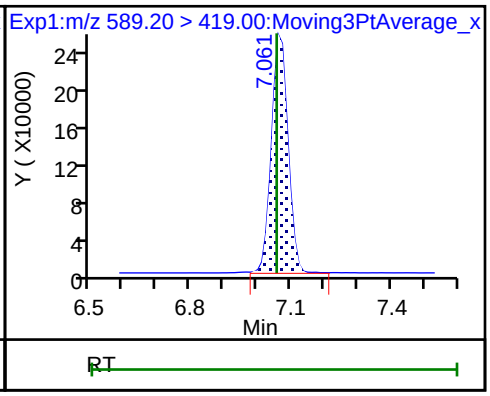
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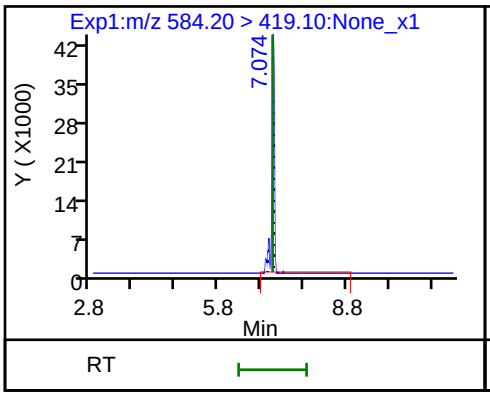
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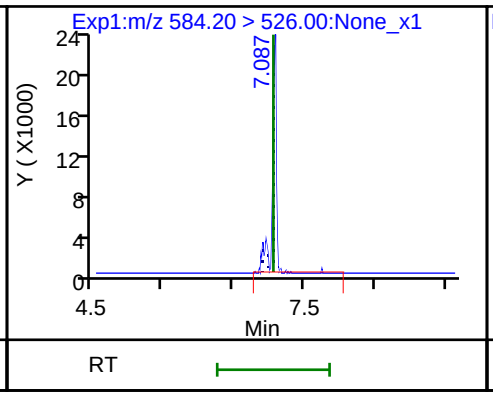
D 54 d5-NEtFOSAA



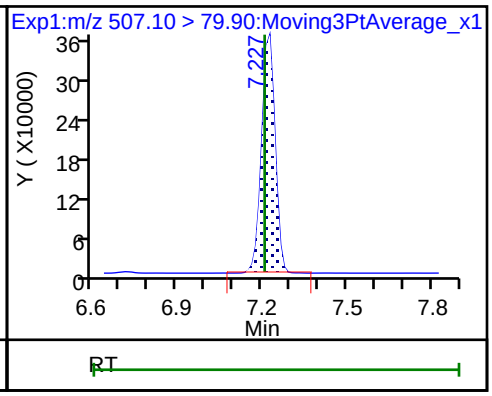
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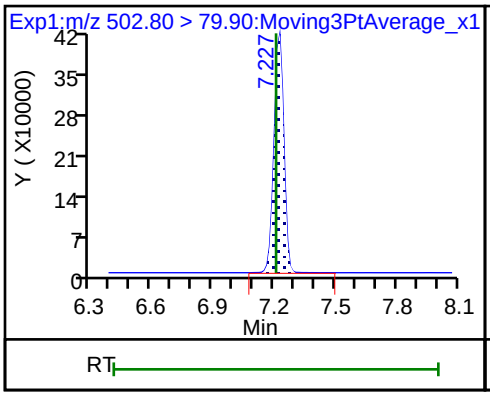
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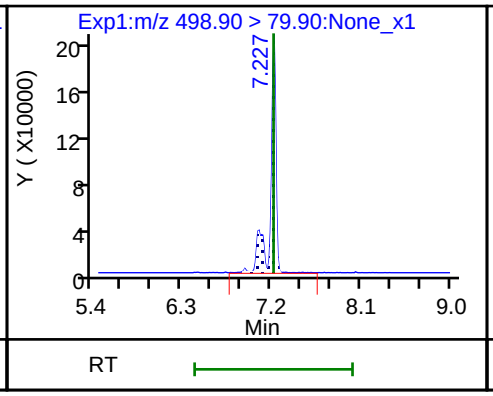
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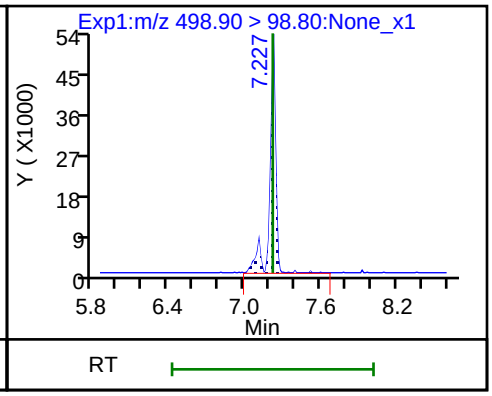
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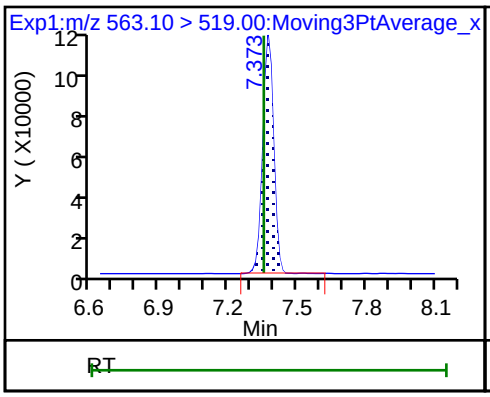
58 PFOS



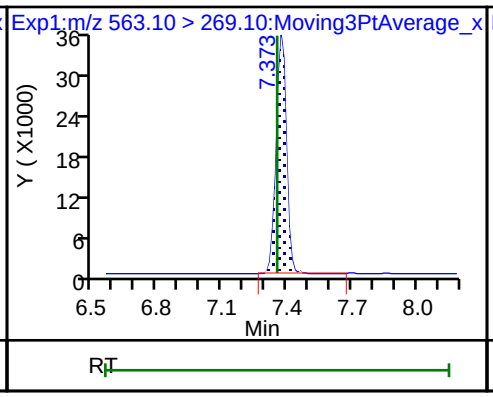
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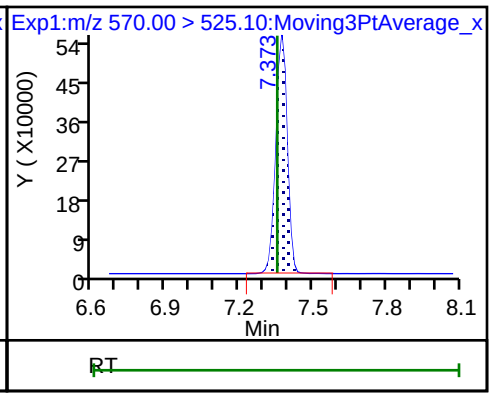
60 PFUnA



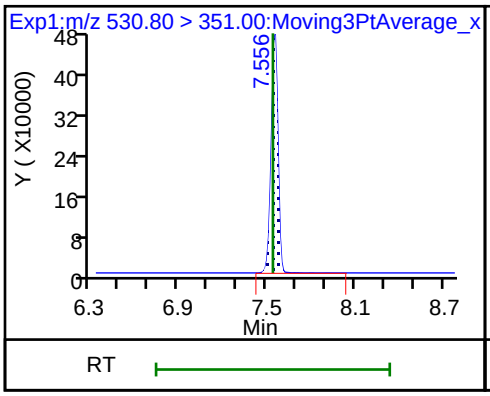
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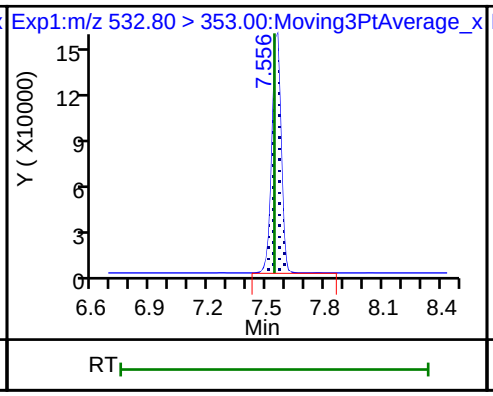
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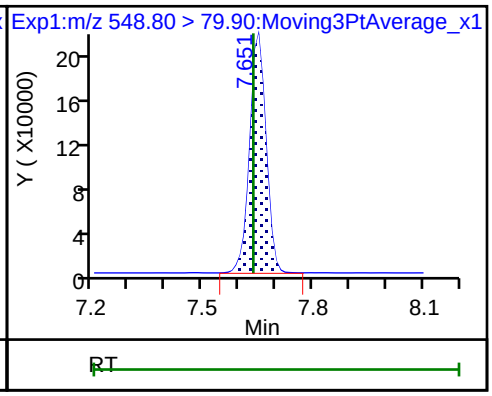
61 9ClFOS



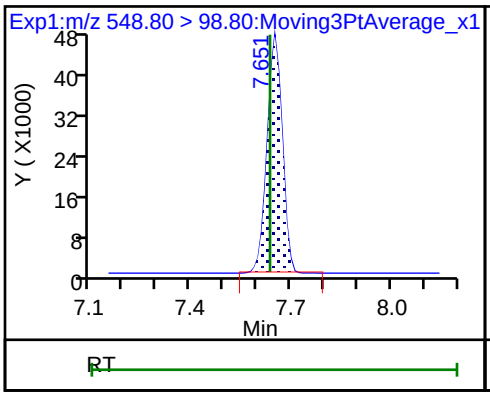
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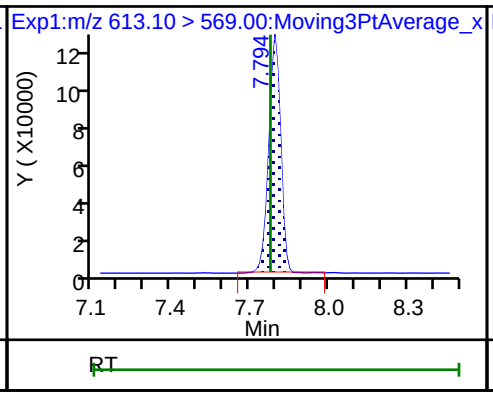
62 PFNS



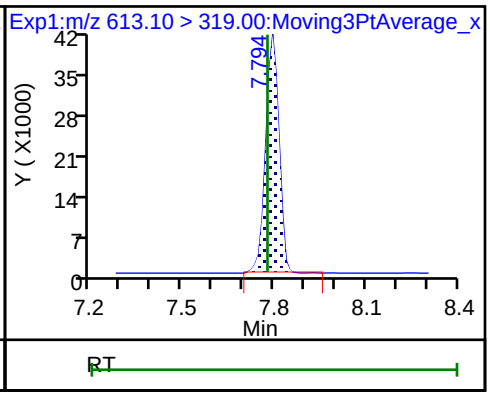
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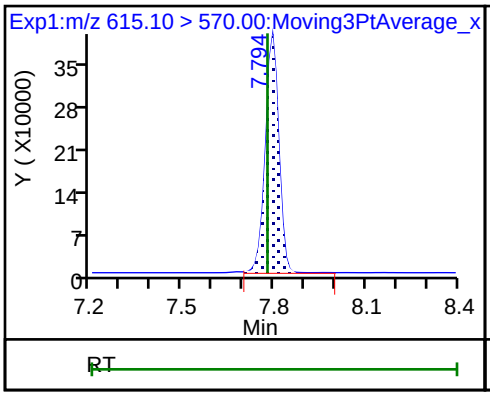
63 PFDoA



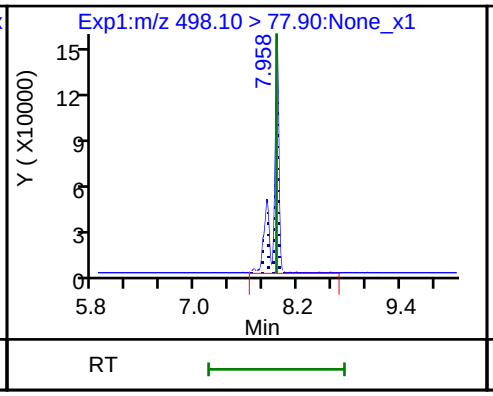
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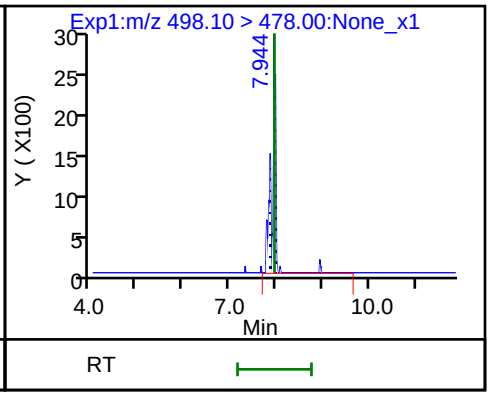
D 82 PFDoA



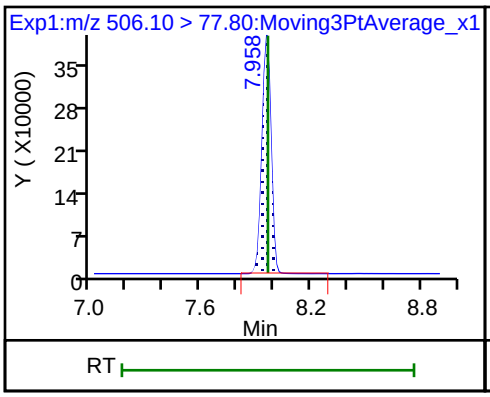
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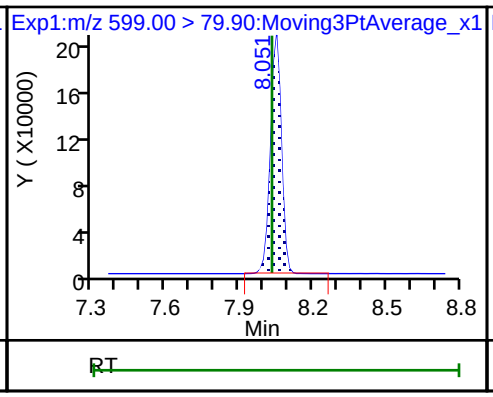
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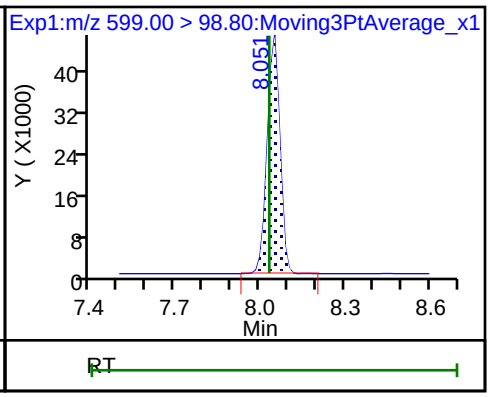
D 64 13C8 FOSA



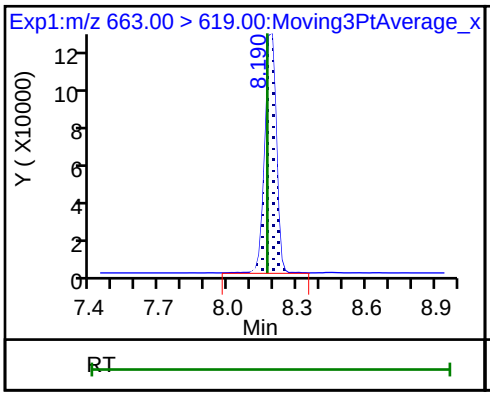
66 PFDS



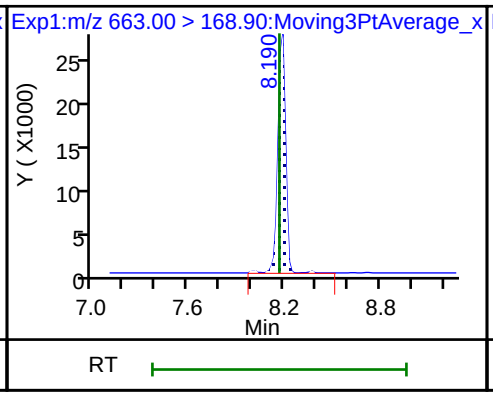
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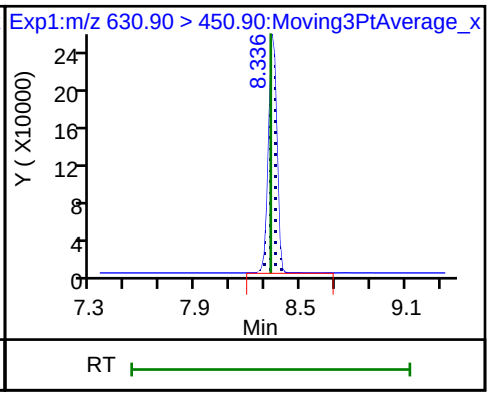
67 PFTrDA



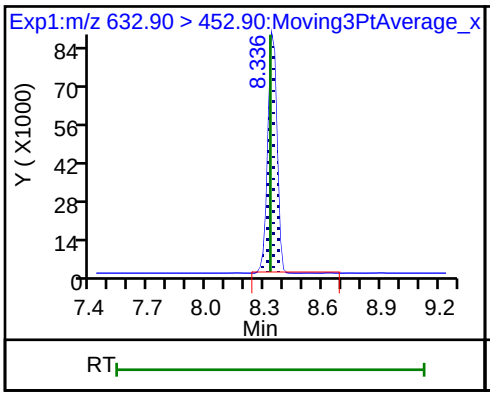
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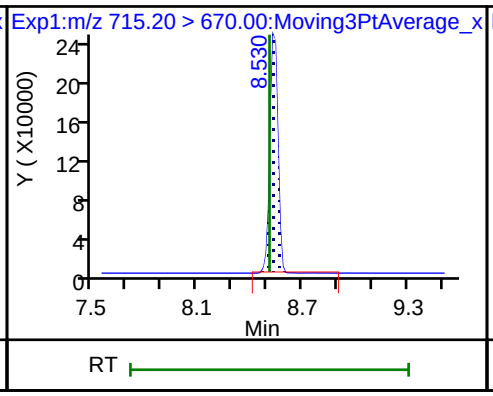
68 11ClFOS



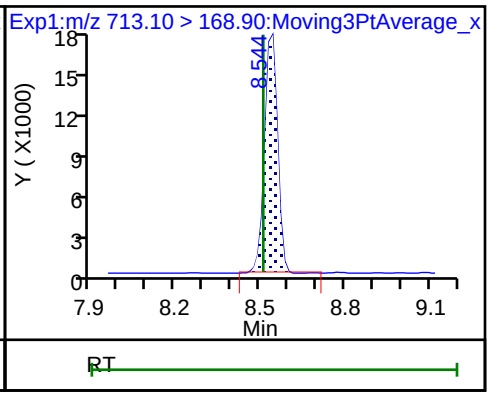
68 11ClFOS



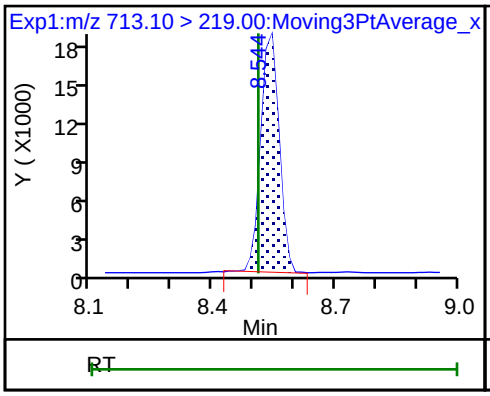
D 69 13C2 PFTeDA



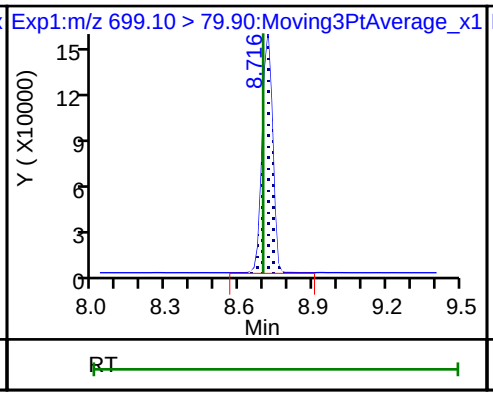
70 PFTeDA



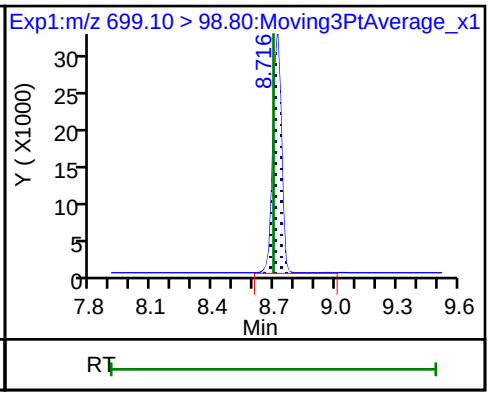
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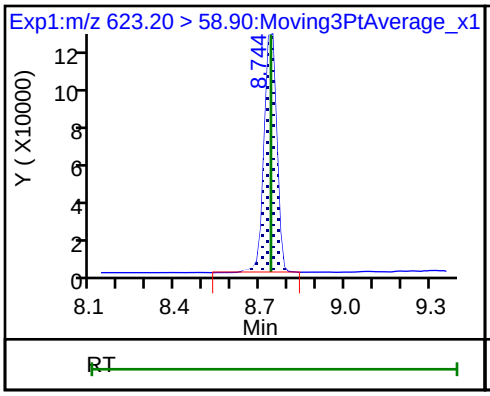
73 PFDoS



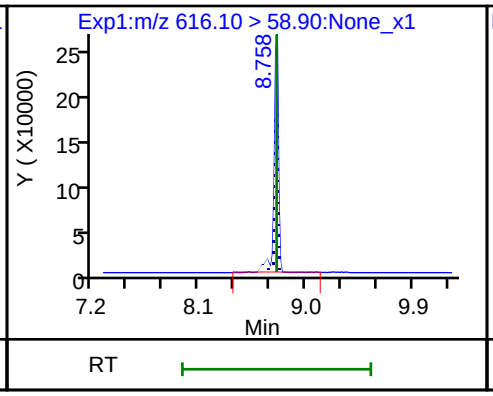
73 PFDoS



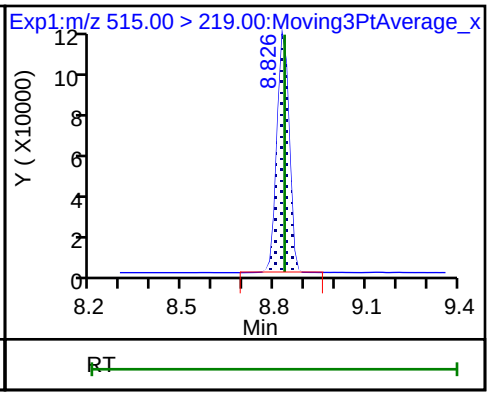
D 71 d7-N-Me-FOSE



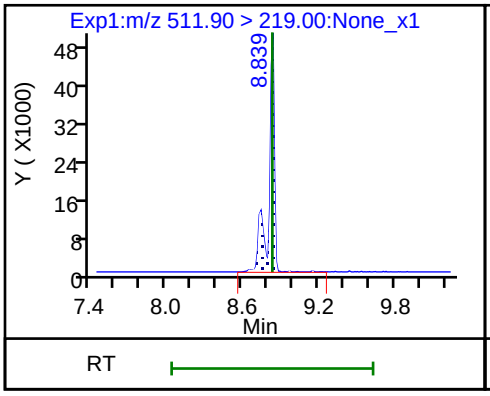
72 N-MeFOSE-M



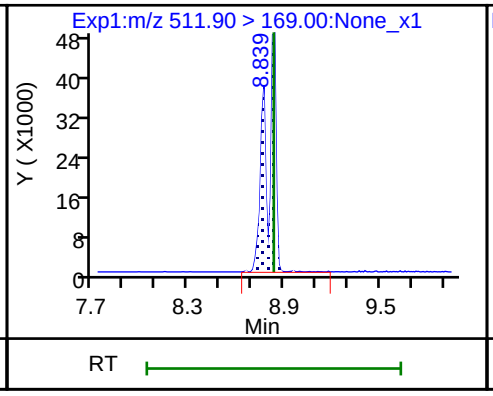
D 74 d3-NMePFOSA



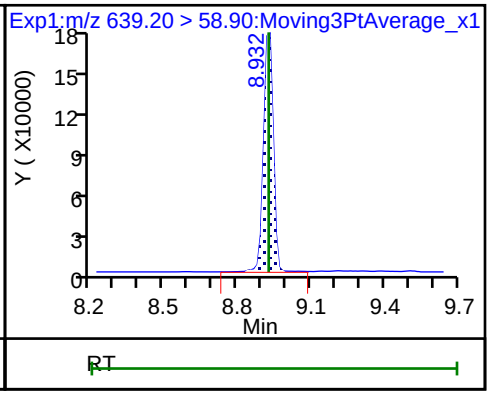
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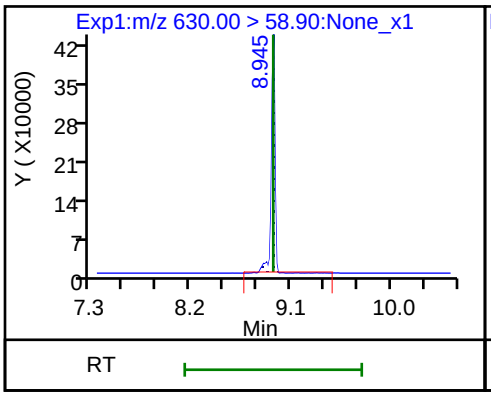
75 NMeFOSA



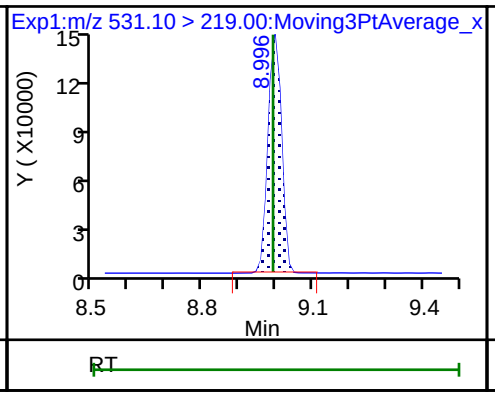
D 76 d9-N-EtFOSE



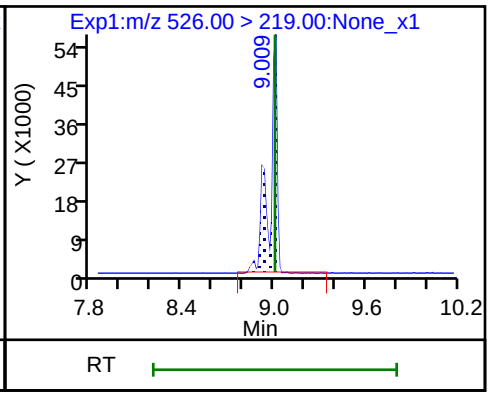
77 N-EtFOSE-M



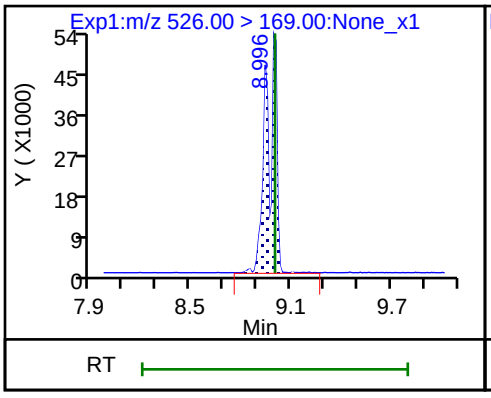
D 78 d5-NEtPFOSA



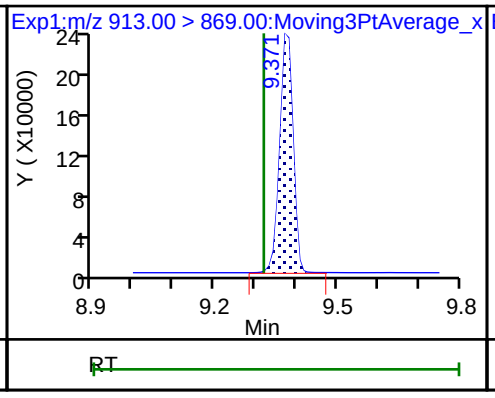
79 N-EtFOSA-M



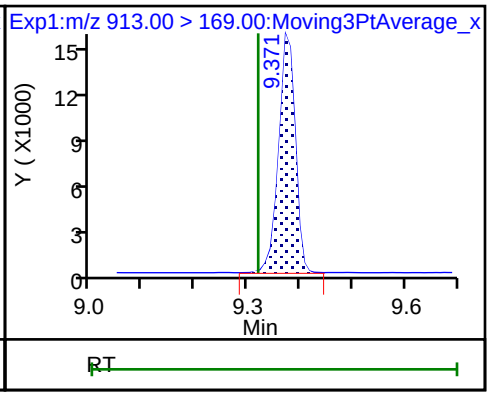
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-764041/2-A

Matrix: Solid
Lab File ID: 26Feb04SD-54.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.00(g)
Date Analyzed: 02/04/2026 18:37

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.562		0.40	0.10
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.286		0.20	0.10
307-24-4	Perfluorohexanoic acid (PFHxA)	2.288		0.20	0.10
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.309		0.20	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	2.356		0.20	0.060
375-95-1	Perfluorononanoic acid (PFNA)	2.143		0.20	0.10
335-76-2	Perfluorodecanoic acid (PFDA)	2.297		0.20	0.060
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.393		0.20	0.10
307-55-1	Perfluorododecanoic acid (PFDoA)	2.481		0.20	0.10
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	2.049		0.20	0.10
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	2.292		0.20	0.10
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.027		0.20	0.10
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	2.269		0.20	0.10
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.105		0.20	0.10
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.314		0.20	0.10
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.100		0.20	0.10
68259-12-1	Perfluorononanesulfonic acid (PFNS)	2.039		0.20	0.10
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.718		0.20	0.10
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.165		0.20	0.10
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.389		0.40	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.303		0.40	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.452		0.40	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.297		0.20	0.10
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	2.375		0.20	0.10
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.522		0.20	0.10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-764041/2-A

Matrix: Solid
Lab File ID: 26Feb04SD-54.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.00(g)
Date Analyzed: 02/04/2026 18:37

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.102		0.20	0.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.141		0.20	0.10
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	10.93		1.00	0.50
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	8.483		1.00	0.50
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.702		0.20	0.10
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.157		0.20	0.10
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	2.607		0.20	0.10
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	2.291		0.20	0.10
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.364		0.20	0.10
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	1.985		0.20	0.10
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	1.721		0.20	0.10
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.050		0.20	0.10
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.477		0.40	0.20
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	9.315		1.00	0.50
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	8.552		1.00	0.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-764041/2-A

Matrix: Solid
Lab File ID: 26Feb04SD-54.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.00(g)
Date Analyzed: 02/04/2026 18:37

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	107		8-130
2283397-79-3	13C5 PFPeA	107		35-130
2328024-54-8	13C5 PFHxA	105		40-130
2328024-55-9	13C4 PFHpA	105		40-130
1350614-84-4	13C8 PFOA	98.8		40-130
2283397-80-6	13C9 PFNA	96.7		40-130
2328024-56-0	13C6 PFDA	86.3		40-130
STL02580	13C7 PFUnA	78.5		40-130
STL02116	13C2 PFTeDA	45.4		20-130
2708218-83-9	13C3 PFBS	102		40-135
2708218-85-1	13C3 PFHxS	95.7		40-130
2265893-05-6	13C8 PFOS	86.6		40-130
STL01056	13C8 FOSA	77.4		40-130
1400690-70-1	d3-NMeFOSAA	74.6		40-135
1265205-97-7	d5-NEtFOSAA	64.5		40-150
STL02395	13C2 4:2 FTS	92.8		40-165
STL02279	13C2 6:2 FTS	94.2		40-215
STL02280	13C2 8:2 FTS	82.3		40-275
STL02255	13C3 HFPO-DA	108		40-130
STL02277	d7-N-MeFOSE-M	5.72	*	20-130
STL02278	d9-N-EtFOSE-M	2.43	*	15-130
STL02704	d5-NEtPFOSA	47.2		10-130
STL02705	d3-NMePFOSA	53.2		10-130
960315-52-0	13C2 PFDoA	65.1		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-54.d
Lims ID: LCS 410-764041/2-A
Client ID:
Sample Type: LCS
Inject. Date: 04-Feb-2026 18:37:56 ALS Bottle#: 37 Worklist Smp#: 137
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-764041/2-A
Misc. Info.: Plate: 1 Rack: 1 410-0174617-137
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 21:19:45 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 19:24:19
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										M
163.00 > 119.00	2.083	2.098	-0.015	1.004	3752027	4.77		95.3	1232	M
D 2 13C3PFPrA										
166.00 > 121.00	2.075	2.114	-0.039	0.476	1695568	2.03		102	1213	
5 PFBA										
212.80 > 168.90	4.353	4.330	0.023	0.998	2543133	1.82		91.2	4571	
D 6 13C4-PFBA										
216.80 > 171.90	4.362	4.338	0.024	1.000	2968986	2.13		107	11235	
* 7 13C3PFBA										
216.00 > 172.00	4.362	4.338	0.024		2304080	2.00			6922	
9 PFMPA										
229.00 > 84.90	4.654	4.627	0.027	0.935	1203807	1.04		104	5113	
10 3:3 FTCA										
241.00 > 177.00	4.665	4.637	0.028	0.937	99717	1.79	Target=1.28	89.5	808	
241.00 > 117.00	4.665	4.637	0.028	0.937	72301		1.38(0.64-1.92)		1053	
D 11 13C5 PFPeA										
268.30 > 223.00	4.978	4.955	0.023	0.915	2158639	2.14		107	5293	
12 PFPA										
263.00 > 219.00	4.989	4.968	0.021	1.002	1124485	0.9144		91.4	933	
13 PFMBA										
279.00 > 85.10	5.131	5.112	0.019	1.031	1274998	0.9163		91.6	12772	
15 4:2FTS										
327.10 > 307.00	5.260	5.240	0.020	1.000	671330	1.76	Target=1.67	93.6	7138	
327.10 > 80.90	5.260	5.240	0.020	1.000	431738		1.55(0.83-2.50)		546	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.260	5.240	0.020	0.816	1034037	4.35		92.8	5922	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.400	5.378	0.022	0.992	556279	0.9458	Target=1.57	94.6	2572	
295.00 > 84.90	5.400	5.378	0.022	0.992	354191		1.57(0.78-2.35)		2041	
D 17 13C5 PFHxA										
318.00 > 273.00	5.442	5.418	0.024	1.000	2995080	2.10		105	11907	
* 18 13C2 PFHxA										
315.10 > 270.00	5.442	5.432	0.010		6160365	5.00			9847	
19 PFHxA										
313.00 > 269.00	5.442	5.432	0.010	1.000	1315922	0.9151	Target=12.08	91.5	871	
313.00 > 118.90	5.442	5.432	0.010	1.000	99145		13.27(6.04-18.11)		594	
22 5:3 FTCA										
341.00 > 237.10	5.510	5.500	0.010	1.013	683391	3.73	Target=0.89	74.5	2352	
341.00 > 217.00	5.510	5.500	0.010	1.013	795380		0.86(0.45-1.34)		4649	
21 PFBS										
298.70 > 79.90	5.564	5.568	-0.004	1.000	896831	0.8109	Target=3.03	91.3	4630	
298.70 > 98.80	5.564	5.568	-0.004	1.000	282650		3.17(1.52-4.55)		1088	
D 20 13C3 PFBS										
302.10 > 79.90	5.564	5.568	-0.004	0.864	2276580	1.90		102	11326	
28 FBSA										
297.90 > 78.00	5.564	5.582	-0.018	1.000	755950	0.7775		77.8	2334	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.621	5.611	0.010	1.033	2103446	2.16		108	4990	
24 HFPO-DA										
284.90 > 168.90	5.621	5.611	0.010	1.000	686364	0.6807	Target=2.32	90.8	2361	
284.90 > 184.90	5.621	5.611	0.010	1.000	309911		2.21(1.16-3.48)		1000	
25 PFEESA										
314.80 > 134.90	5.802	5.791	0.011	1.066	2572123	0.8200	Target=13.29	91.9	11852	
314.80 > 82.90	5.802	5.791	0.011	1.066	211654		12.15(6.64-19.93)		1263	
27 PFHpA										
363.10 > 319.00	5.853	5.845	0.008	1.000	1332182	0.9236	Target=2.38	92.4	605	
363.10 > 169.00	5.853	5.845	0.008	1.000	564343		2.36(1.19-3.58)		712	
D 26 13C4 PFHpA										
367.10 > 322.00	5.853	5.845	0.008	1.076	2942654	2.11		105	12199	
29 ADONA										
376.90 > 250.90	5.996	5.988	0.008	1.067	2966479	0.8627	Target=1.85	91.2	22131	
376.90 > 84.80	5.996	5.988	0.008	1.067	1659213		1.79(0.92-2.77)		4558	
32 PFPeS										
349.10 > 79.90	6.030	6.033	-0.003	0.936	1074447	0.9075	Target=3.35	96.5	3033	
349.10 > 98.90	6.030	6.033	-0.003	0.936	342462		3.14(1.68-5.03)		2033	
31 6:2FTS										
427.10 > 407.00	6.041	6.033	0.008	1.000	476234	1.72	Target=1.88	90.4	1738	
427.10 > 80.90	6.041	6.033	0.008	1.000	280860		1.70(0.94-2.83)		1709	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.041	6.033	0.008	0.938	632301	4.48		94.2	3178	
33 BTS										
280.00 > 147.00	6.176	6.189	-0.013	0.959	1986710	1.02		103	6856	
D 35 13C8 PFOA										
421.10 > 376.00	6.230	6.233	-0.003	1.000	3447362	1.98		98.8	9253	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.230	6.233	-0.003		8724458	5.00			16495	
36 PFOA										
413.00 > 369.00	6.230	6.233	-0.003	1.000	1232118	0.9426	Target=2.16	94.3	21837	
413.00 > 169.00	6.230	6.233	-0.003	1.000	589570		2.09(1.08-3.25)		22533	
39 7:3 FTCA										
441.00 > 316.90	6.291	6.296	-0.005	1.156	570588	3.42	Target=0.79	68.4	1244	
441.00 > 336.90	6.291	6.296	-0.005	1.156	716792		0.80(0.39-1.18)		3059	
40 PFHxS										
398.70 > 79.90	6.443	6.460	-0.017	1.000	971641	0.8420	Target=3.45	92.3	2070	
398.70 > 98.90	6.443	6.460	-0.017	1.000	273384		3.55(1.73-5.18)		619	
* 38 18O2 PFHxS										
403.00 > 83.90	6.443	6.460	-0.017		1781850	1.90			12225	
D 37 13C3 PFHxS										
402.10 > 79.90	6.443	6.460	-0.017	1.000	1708108	1.81		95.7	7657	
43 PFNA										
463.00 > 419.00	6.614	6.620	-0.006	1.000	1087564	0.8570	Target=2.87	85.7	170348	
463.00 > 219.00	6.614	6.620	-0.006	1.000	394060		2.76(1.44-4.31)		590	
D 42 13C9 PFNA										
472.10 > 427.00	6.614	6.620	-0.006	1.000	2894564	1.93		96.7	8457	
* 41 13C5 PFNA										
468.00 > 423.00	6.614	6.620	-0.006		2978908	2.00			8025	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.785	6.790	-0.005	1.053	542560	3.95		82.3	2013	
45 8:2FTS										
527.10 > 507.00	6.785	6.790	-0.005	1.000	330486	1.78	Target=1.57	92.8	2255	
527.10 > 80.80	6.785	6.790	-0.005	1.000	196947		1.68(0.79-2.36)		1316	
46 PFECHS										
461.00 > 381.00	6.807	6.824	-0.017	1.057	243252	0.8117	Target=0.30	87.8	978	
461.00 > 99.00	6.807	6.824	-0.017	1.057	845396		0.29(0.15-0.45)		2117	
47 PFHpS										
449.00 > 79.90	6.841	6.857	-0.016	0.945	820597	0.9255	Target=3.53	97.0	1803	
449.00 > 98.80	6.841	6.857	-0.016	0.945	232682		3.53(1.76-5.29)		1629	
53 FHxSA										
397.90 > 78.00	6.864	6.869	-0.005	1.065	1054296	0.8542		85.4	2223	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.934	6.940	-0.006	0.958	1272584	3.73		74.6	6176	
49 NMeFOSAA										
570.10 > 419.00	6.934	6.940	-0.006	1.000	239133	0.8406	Target=1.75	84.1	533	
570.10 > 483.00	6.934	6.940	-0.006	1.000	134959		1.77(0.87-2.62)		242	
D 50 13C6 PFDA										
519.10 > 474.10	6.983	7.015	-0.032	0.998	2787389	1.73		86.3	8557	
* 52 13C2 PFDA										
515.10 > 470.10	6.996	7.015	-0.019		3167603	2.00			11606	
51 PFDA										
512.90 > 469.00	6.996	7.015	-0.019	1.002	1072604	0.9189	Target=4.54	91.9	3181	
512.90 > 219.00	6.996	7.015	-0.019	1.002	242909		4.42(2.27-6.81)		1274	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.103	7.124	-0.021	0.982	971970	3.23		64.5	4426	
55 NEtFOSAA										
584.20 > 419.10	7.103	7.124	-0.021	1.000	136703	0.8564	Target=1.38	85.6	367	
584.20 > 526.00	7.103	7.124	-0.021	1.000	106040		1.29(0.69-2.07)		220	
58 PFOS										
498.90 > 79.90	7.224	7.255	-0.031	0.998	889770	0.8401	Target=4.26	90.3	120601	
498.90 > 98.80	7.224	7.255	-0.031	0.998	212925		4.18(2.13-6.40)		479	
D 56 13C8 PFOS										
507.10 > 79.90	7.236	7.267	-0.031	1.000	1407463	1.66		86.6	864	
* 57 13C4 PFOS										
502.80 > 79.90	7.236	7.267	-0.031		1756169	1.92			8713	
D 59 13C7 PFUnA										
570.00 > 525.10	7.370	7.409	-0.039	1.053	3050689	1.57		78.5	6714	
60 PFUnA										
563.10 > 519.00	7.381	7.409	-0.028	1.002	1079991	0.9573	Target=5.23	95.7	4892	
563.10 > 269.10	7.381	7.409	-0.028	1.002	199945		5.40(2.62-7.85)		2014	
61 9ClFOS										
530.80 > 351.00	7.532	7.566	-0.034	1.041	1662820	0.7941	Target=3.05	85.0	18306	
532.80 > 353.00	7.532	7.566	-0.034	1.041	541830		3.07(1.53-4.58)		2705	
62 PFNS										
548.80 > 79.90	7.615	7.656	-0.041	1.052	689344	0.8157	Target=3.70	84.8	5517	
548.80 > 98.80	7.615	7.656	-0.041	1.052	189145		3.64(1.85-5.56)		2391	
D 81 PFDoA										
615.10 > 570.00	7.757	7.801	-0.044	1.109	2243647	1.30		65.1	1692	
63 PFDoA										
613.10 > 569.00	7.757	7.801	-0.044		993246	0.99	Target=5.66	99.2	4621	
613.10 > 319.00	7.757	7.801	-0.044		167683		5.92(2.83-8.49)		866	
64 PFOSA										
498.10 > 77.90	7.962	7.947	0.015	1.000	683597	0.9190	Target=43.43	91.9	1591	
498.10 > 478.00	7.952	7.947	0.005	0.999	16486		41.47(21.71-65.14)		25.1	
D 65 13C8 FOSA										
506.10 > 77.80	7.962	7.957	0.005	1.100	1621796	1.55		77.4	5471	
66 PFDS										
599.00 > 79.90	7.983	8.031	-0.048	1.103	590637	0.6872	Target=3.54	71.3	6406	
599.00 > 98.80	7.983	8.031	-0.048	1.103	164589		3.59(1.77-5.31)		2700	
67 PFTrDA										
663.00 > 619.00	8.113	8.170	-0.057	0.961	772954	0.8196	Target=5.76	82.0	5047	
663.00 > 168.90	8.113	8.170	-0.057	0.961	134657		5.74(2.88-8.64)		976	
68 11ClFOS										
630.90 > 450.90	8.256	8.314	-0.058	1.141	1114221	0.6885	Target=3.06	72.9	7273	
632.90 > 452.90	8.256	8.314	-0.058	1.141	333923		3.34(1.53-4.59)		2808	
70 PFTeDA										
713.10 > 168.90	8.441	8.494	-0.053	1.000	68995	0.9167	Target=1.07	91.7	1100	
713.10 > 219.00	8.441	8.494	-0.053	1.000	61366		1.12(0.54-1.61)		977	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.441	8.494	-0.053	1.207	862552	0.9075		45.4	2779	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.600	8.667	-0.067	1.188	237225	0.4659	Target=4.17	48.0	1935	
699.10 > 98.80	8.600	8.667	-0.067	1.188	55357		4.29(2.09-6.26)		1013	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.729	8.723	0.006	1.206	43872	0.2858		5.7	44.2	
72 N-MeFOSE-M										M
616.10 > 58.90	8.742	8.737	0.005	1.002	103104	4.37		87.5	20277	M
D 74 d3-NMePFOSA										
515.00 > 219.00	8.815	8.809	0.006	1.218	253501	1.06		53.2	2945	
75 NMeFOSA										
511.90 > 219.00	8.830	8.809	0.021	1.002	123242	0.9500	Target=0.69	95.0	894	
511.90 > 169.00	8.830	8.809	0.021	1.002	186111		0.66(0.34-1.03)		806	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.916	8.897	0.019	1.232	19014	0.1217		2.4	34.7	
77 N-EtFOSE-M										M
630.00 > 58.90	8.930	8.911	0.019	1.002	50987	3.39		67.9	10241	M
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.986	8.967	0.019	1.242	274237	0.9436		47.2	1467	
79 N-EtFOSA-M										
526.00 > 219.00	8.986	8.981	0.005	1.000	130310	1.01	Target=0.78	101	1355	
526.00 > 169.00	8.986	8.981	0.005	1.000	165935		0.79(0.39-1.17)		1119	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.135	9.238	-0.103	1.082	20213	0.0494	Target=11.85	4.9	897	
913.00 > 169.00	9.135	9.238	-0.103	1.082	1625		12.44(5.92-17.77)		139	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00592 Amount Added: 50.00 Units: uL

Report Date: 04-Feb-2026 21:22:25 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-54.d

Injection Date: 04-Feb-2026 18:37:56 Instrument ID: 30575

Lims ID: LCS 410-764041/2-A

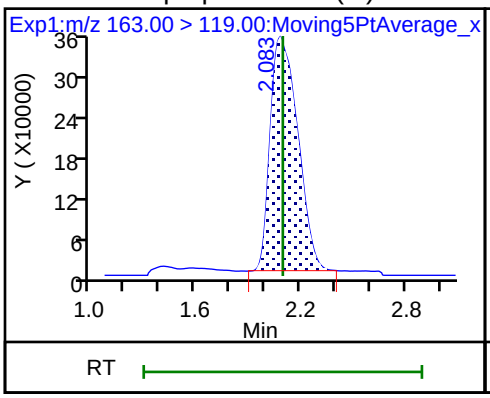
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 37 Worklist Smp#: 137

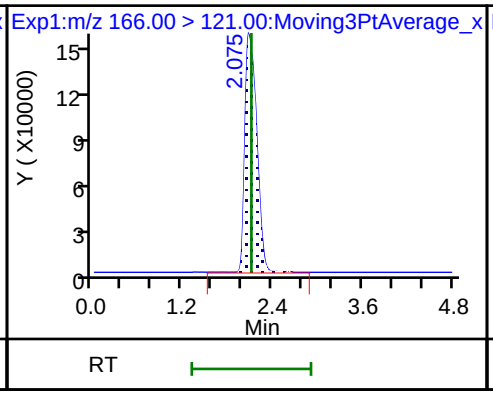
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

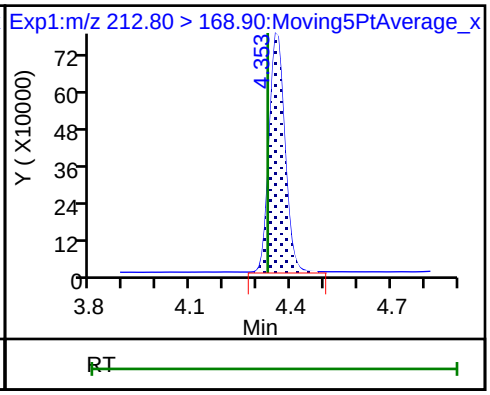
1 Perfluoropropionic acid (M)



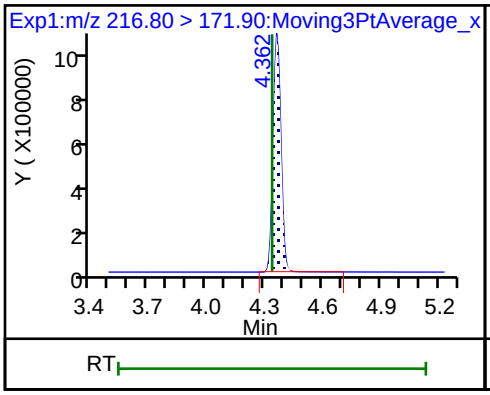
D 2 13C3PFPrA



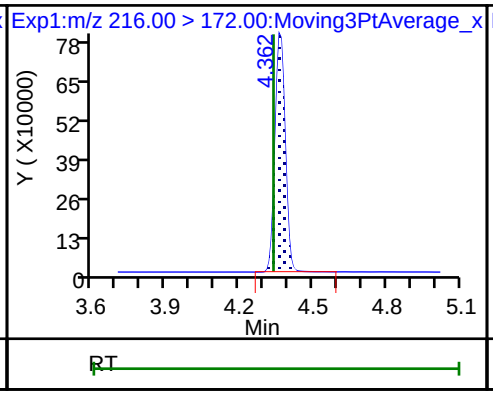
5 PFBA



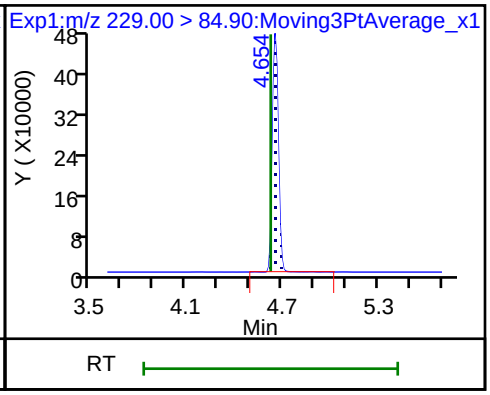
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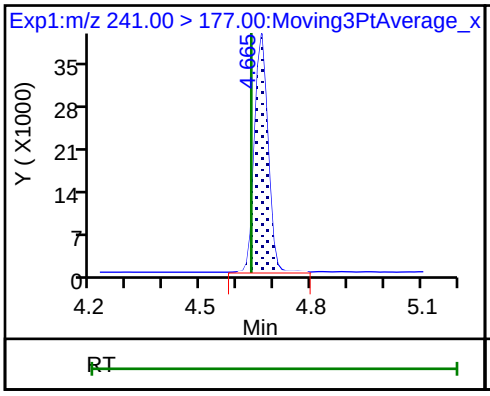
* 7 13C3PFBA



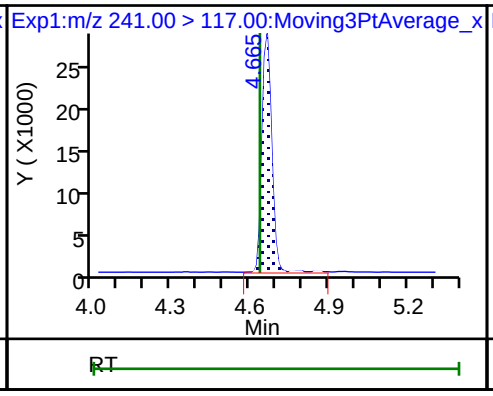
9 PFMPA



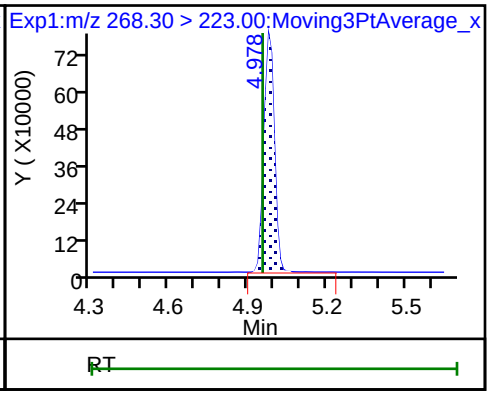
10 3:3 FTCA



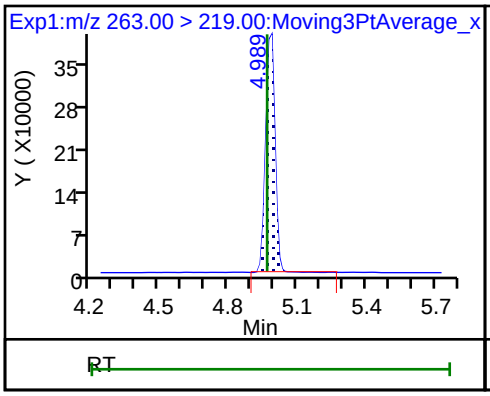
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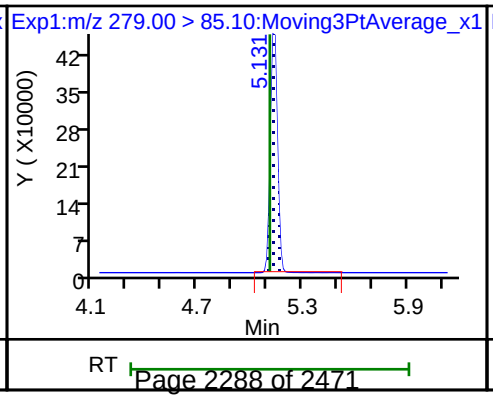
D 11 13C5 PFPeA



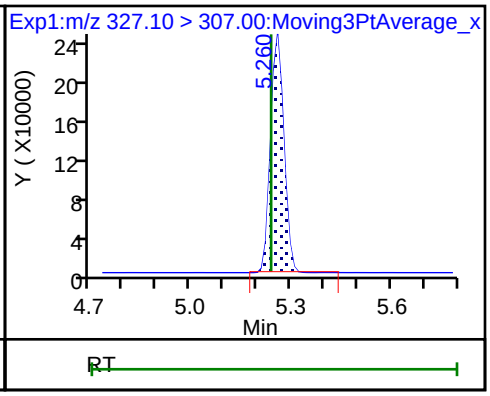
12 PFPA



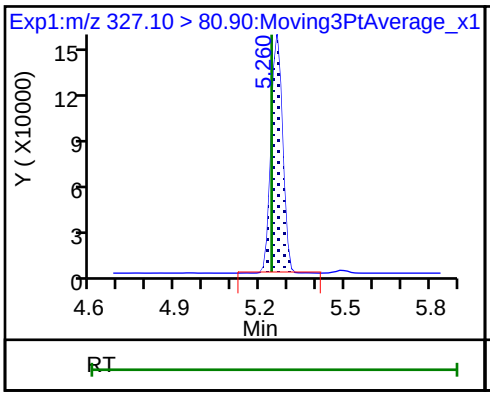
13 PFMBA



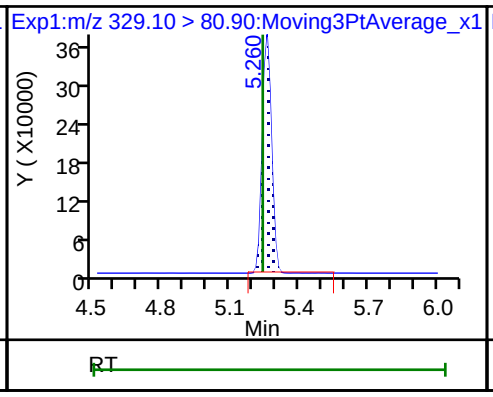
15 4:2FTS



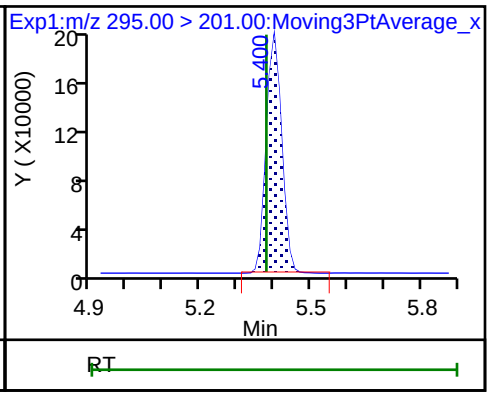
15 4:2FTS



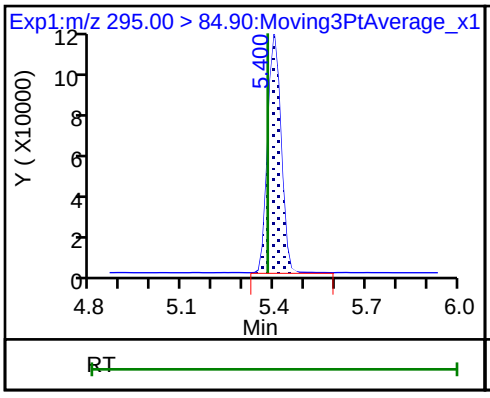
D 14 13C2-4:2FTS



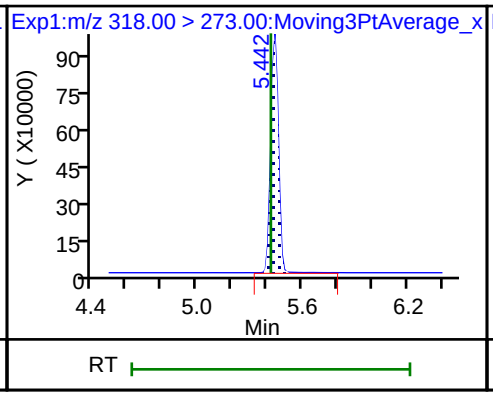
16 NFDHA



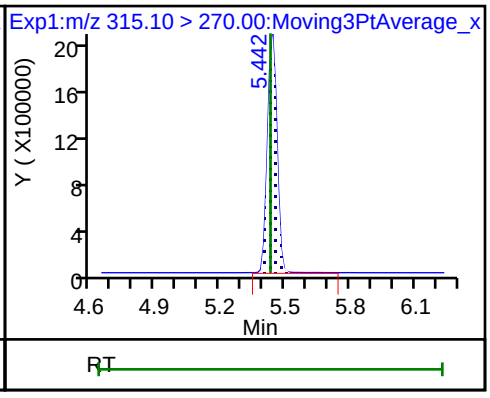
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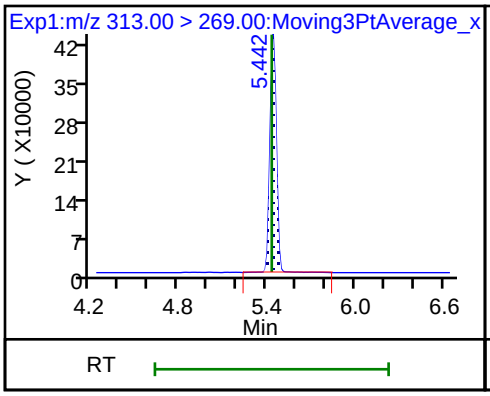
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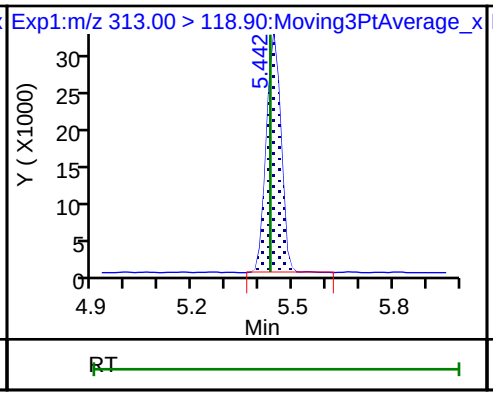
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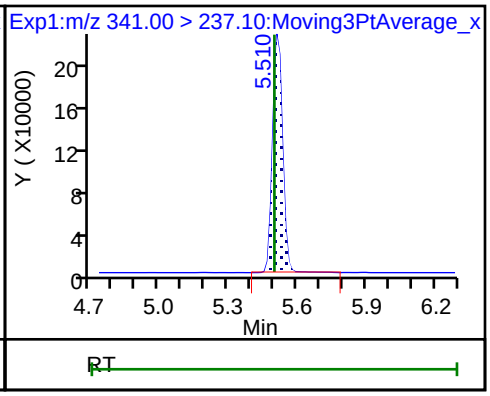
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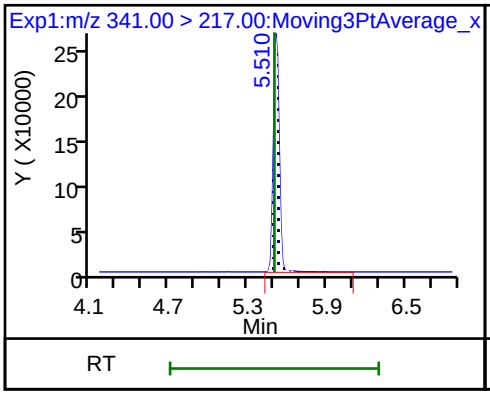
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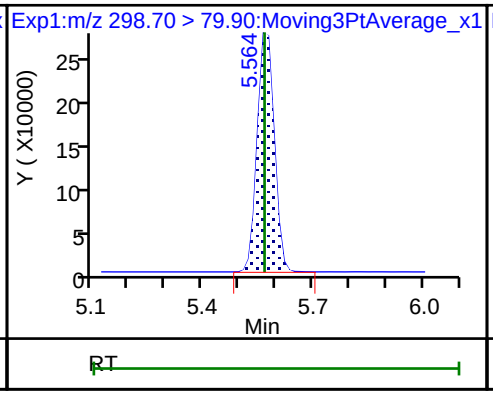
22 5:3 FTCA



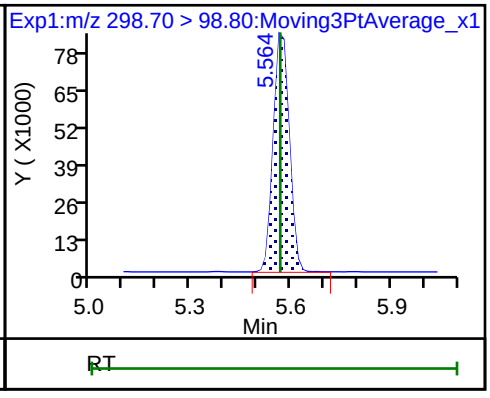
22 5:3 FTCA



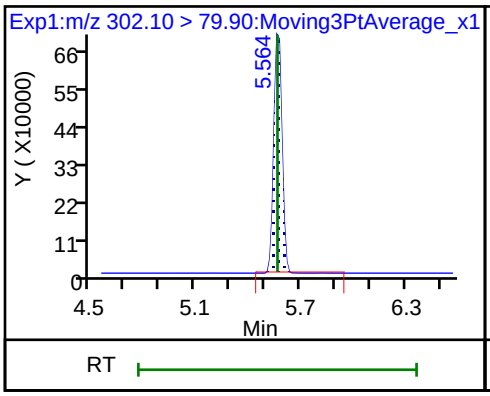
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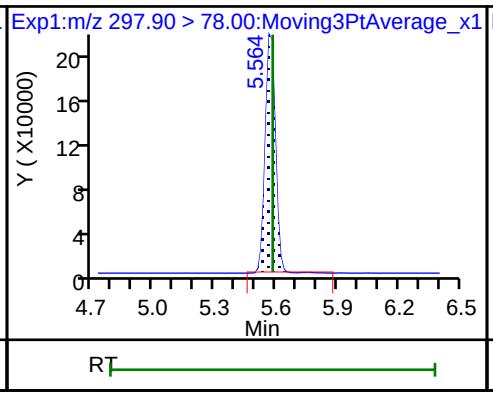
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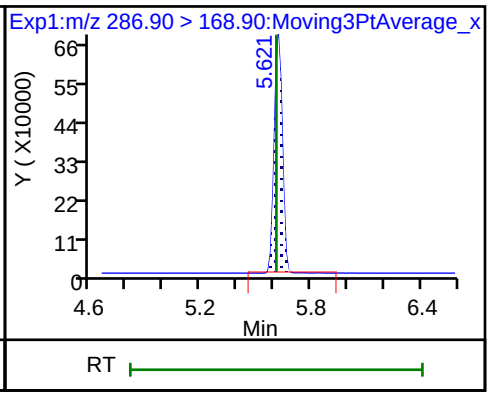
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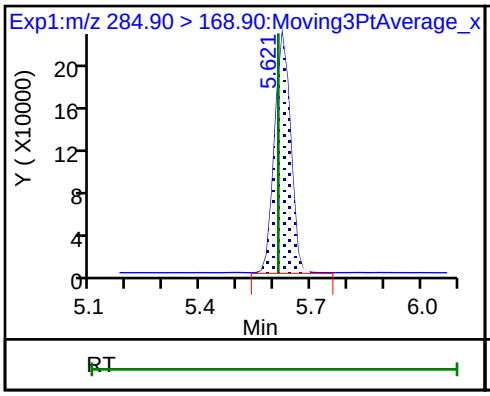
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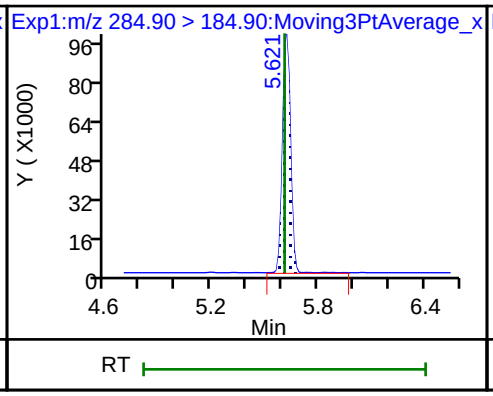
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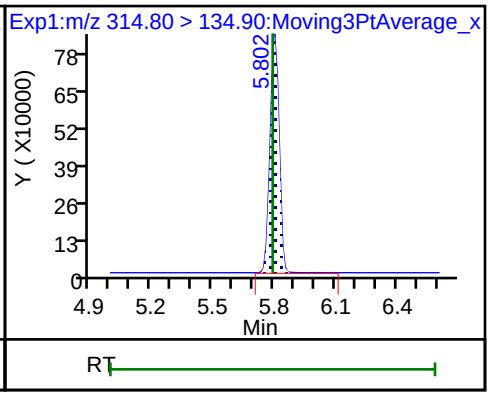
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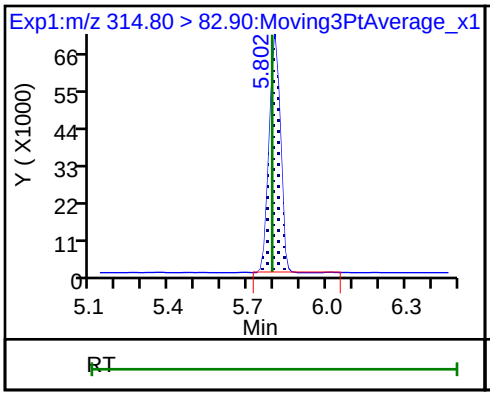
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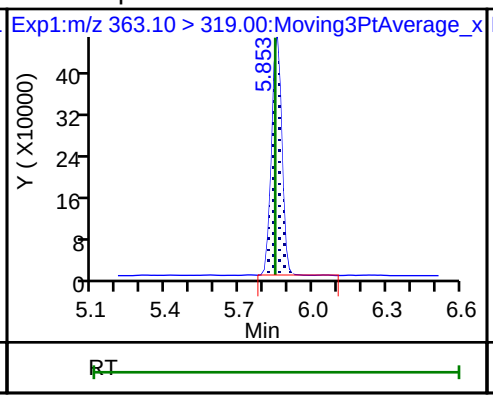
25 PFEESA



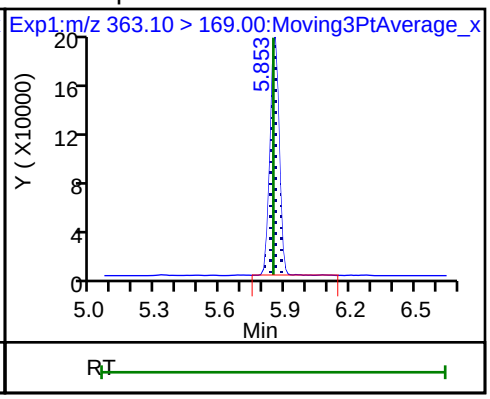
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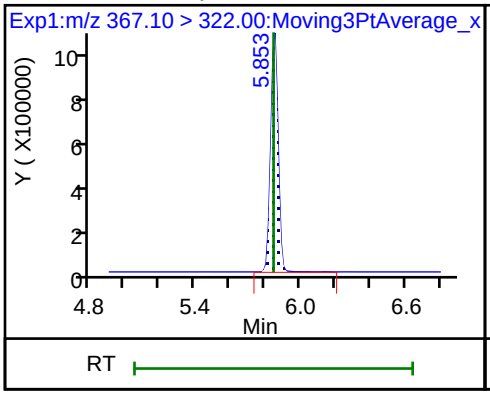
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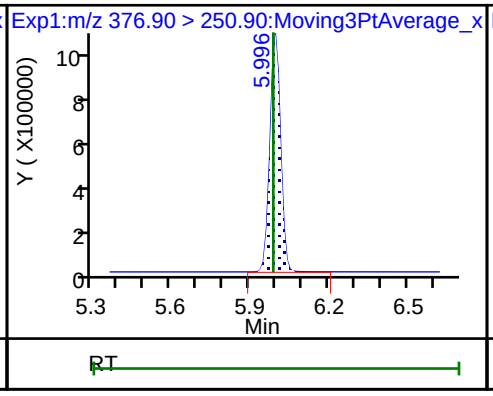
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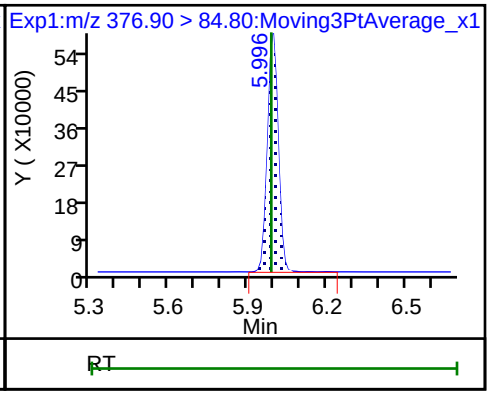
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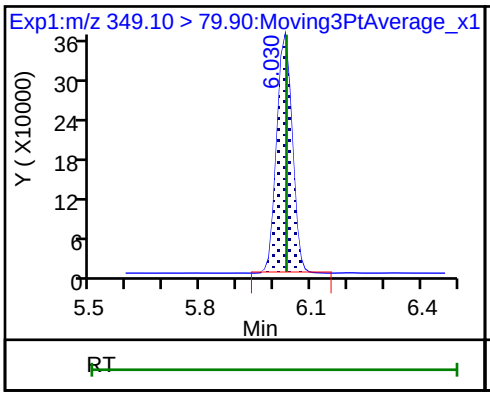
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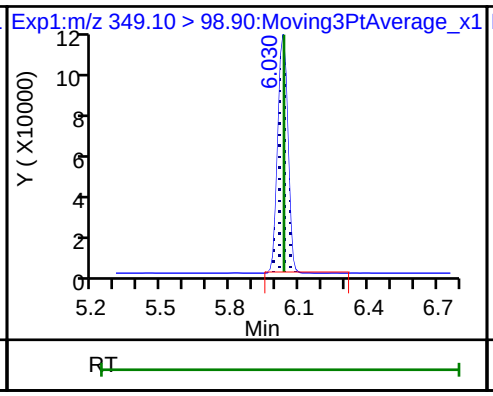
29 ADONA



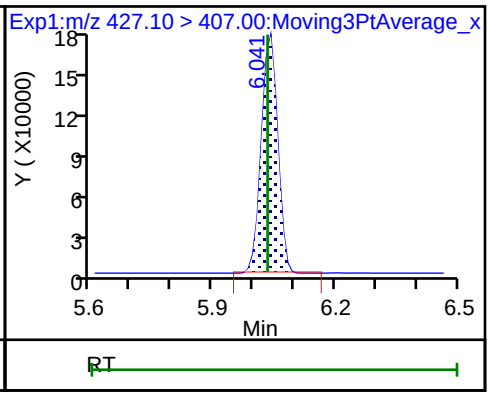
32 PFPeS



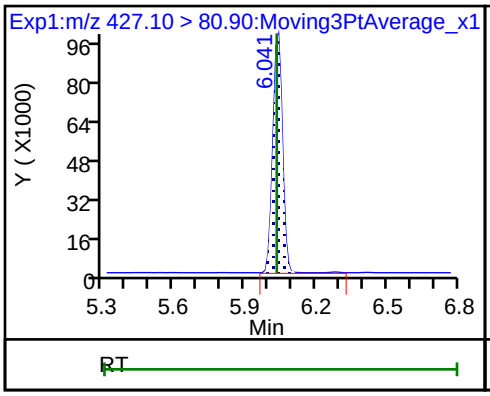
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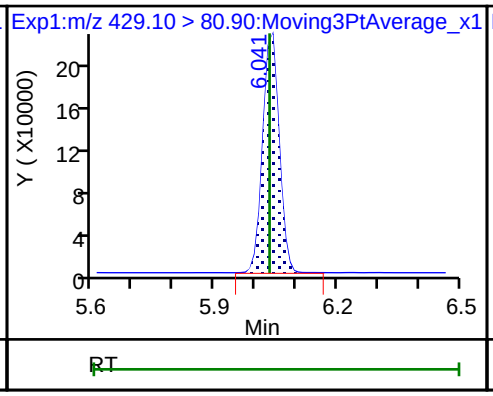
31 6:2FTS



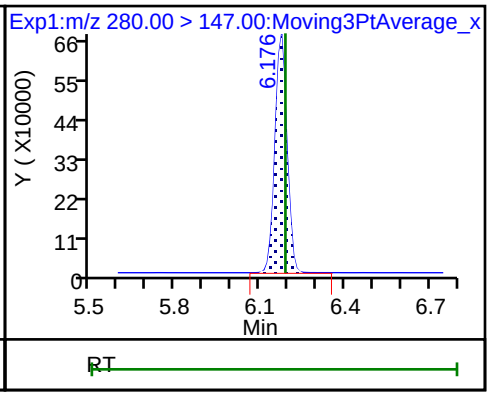
31 6:2FTS



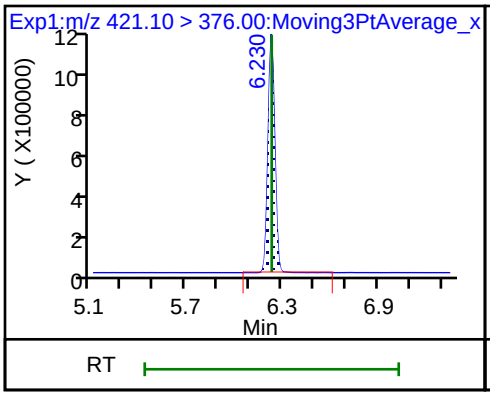
D 30 13C2-6:2FTS



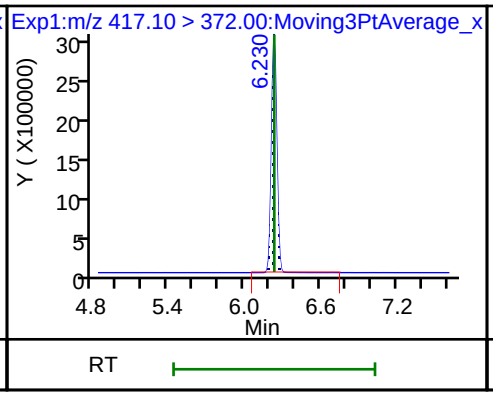
33 BTS



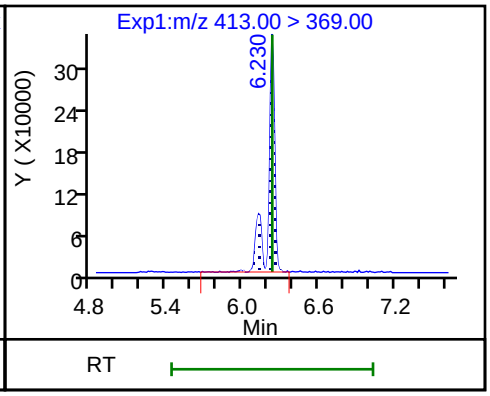
D 35 13C8 PFOA



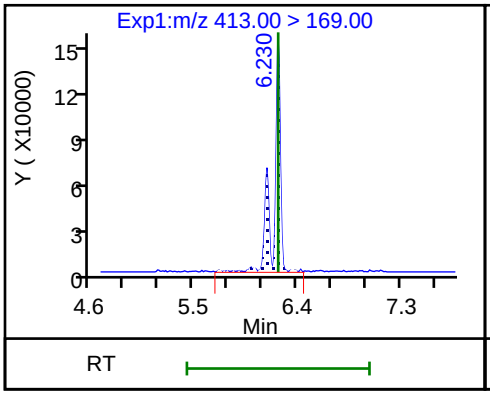
* 34 13C4 PFOA



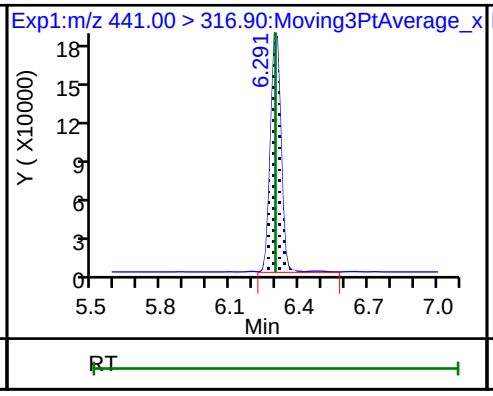
36 PFOA



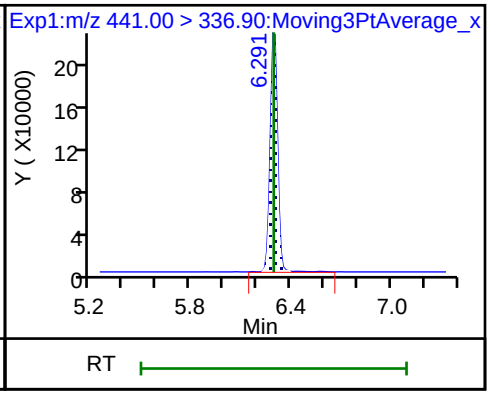
36 PFOA



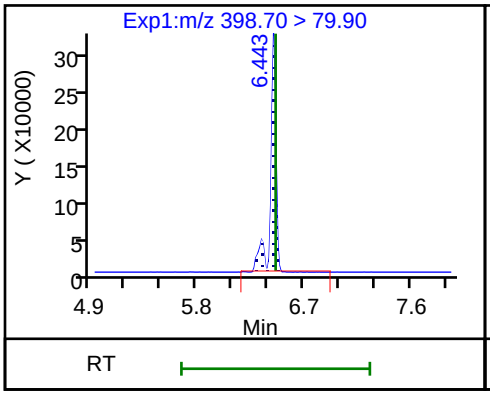
39 7:3 FTCA



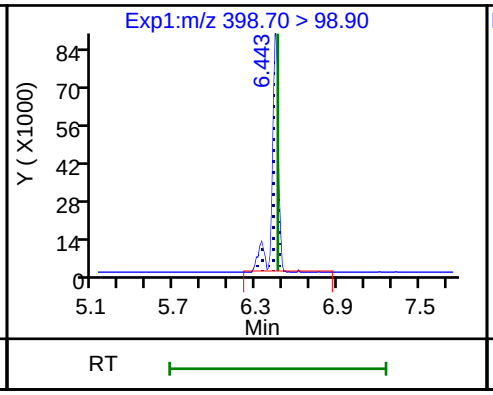
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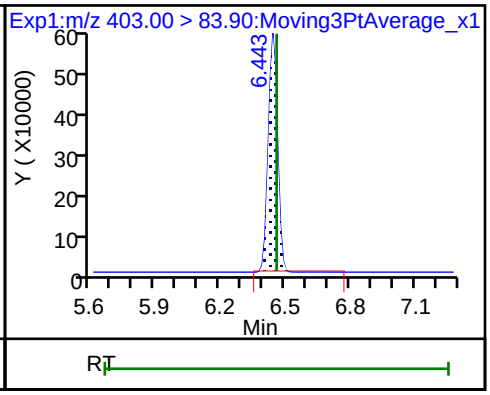
40 PFHxS



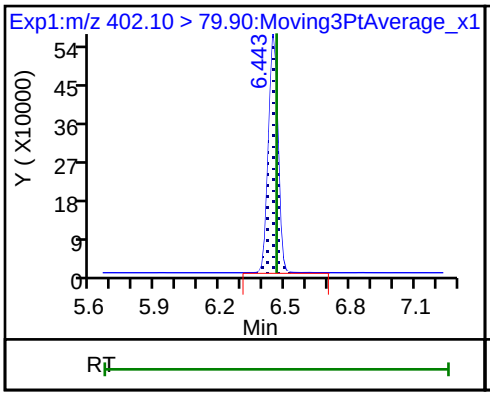
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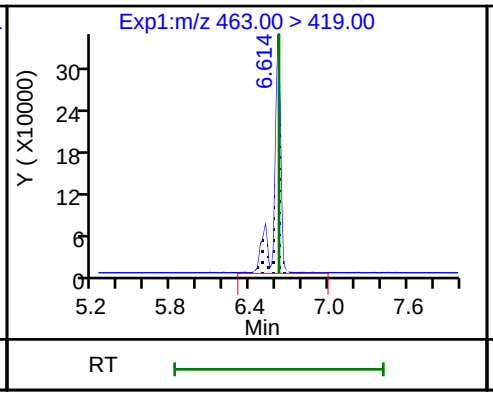
* 38 18O2 PFHxS



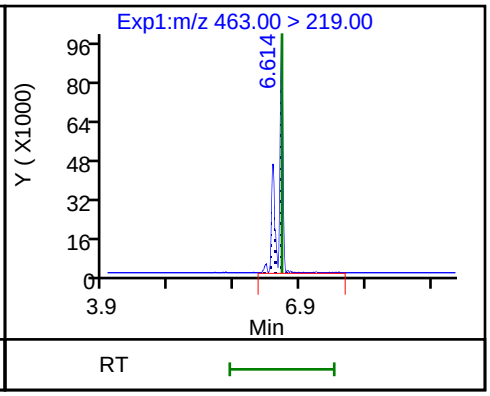
D 37 13C3 PFHxS



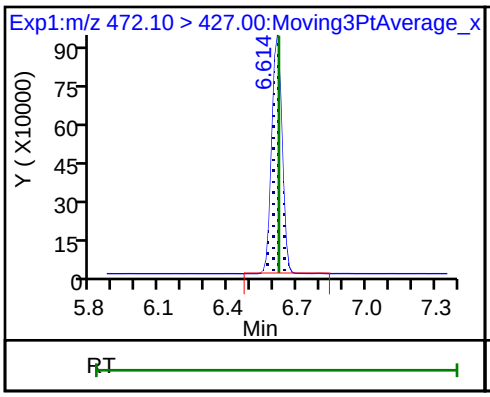
43 PFNA



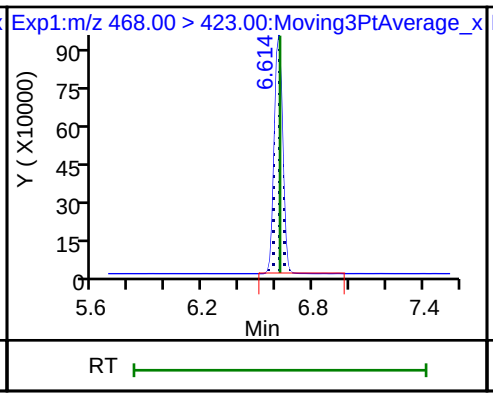
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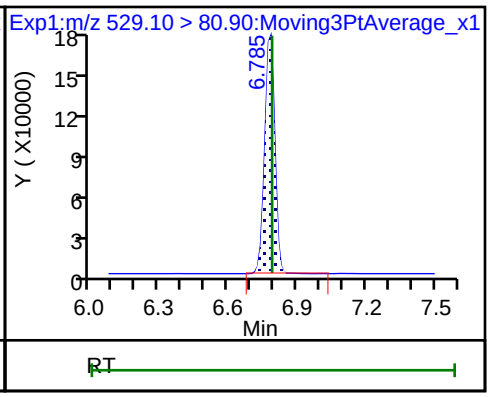
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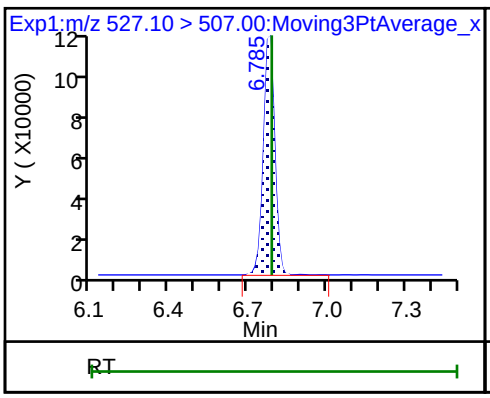
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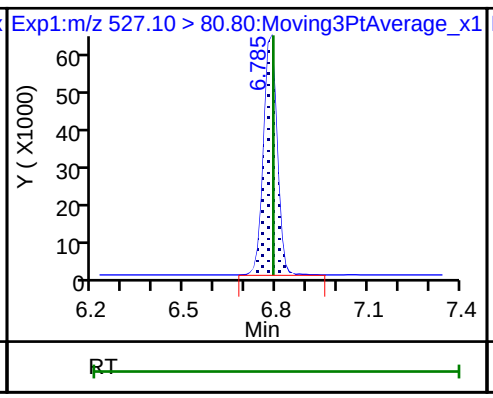
D 44 13C2-8:2FTS



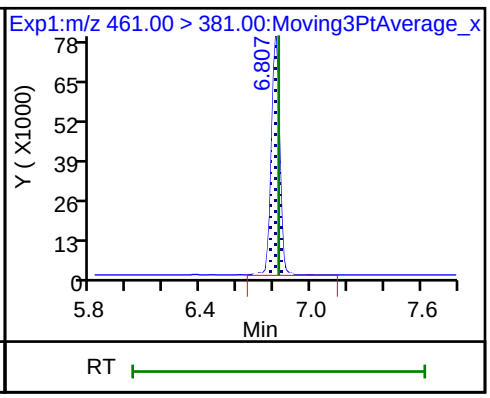
45 8:2FTS



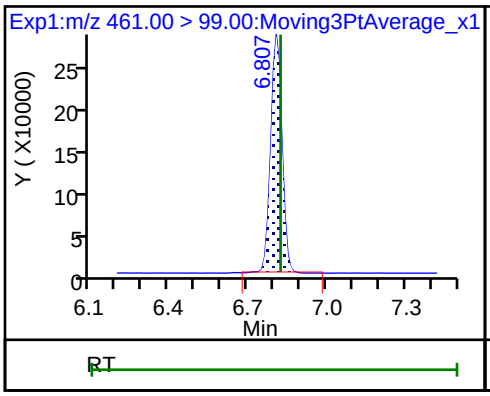
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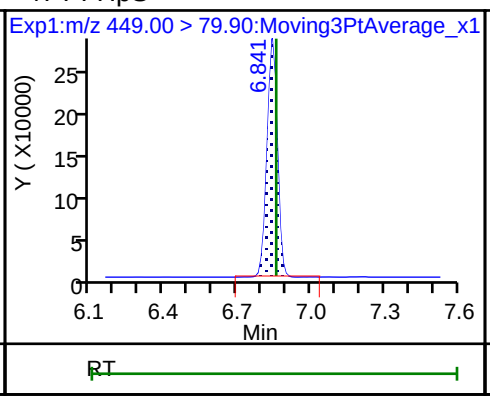
46 PFECHS



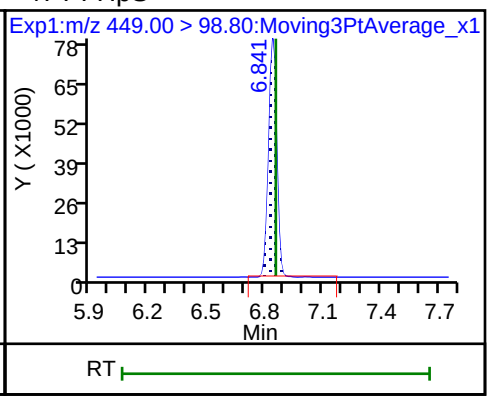
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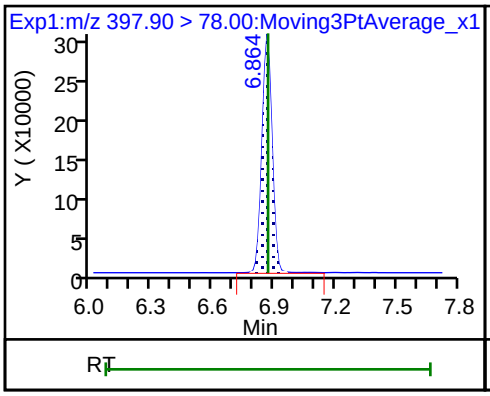
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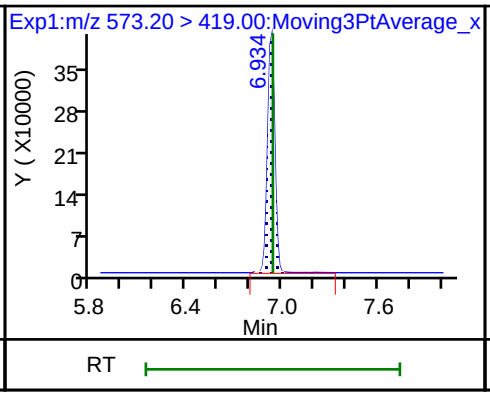
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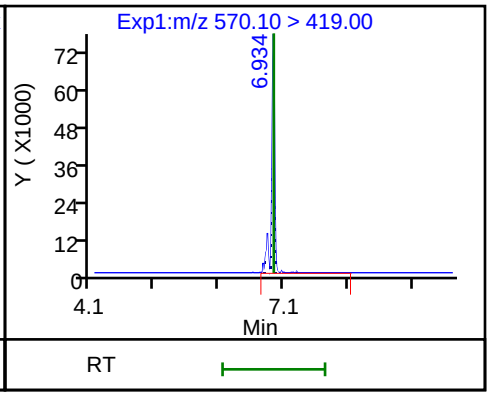
53 FHxSA



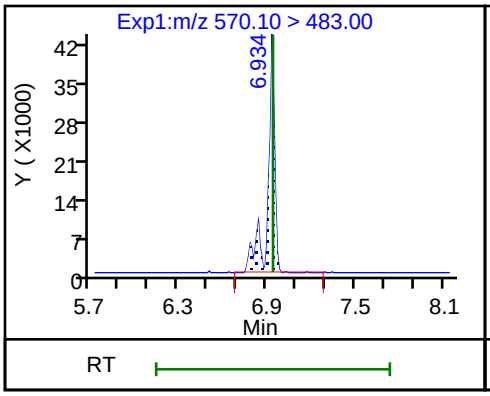
D 48 d3-NMeFOSAA



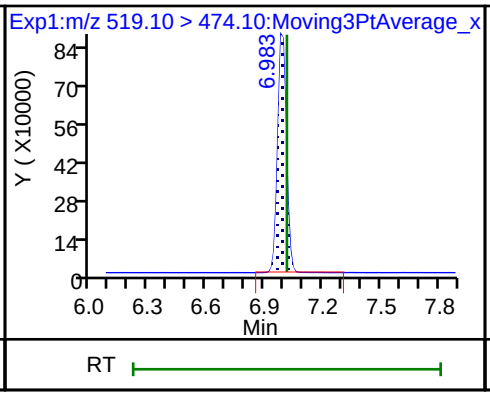
49 NMeFOSAA



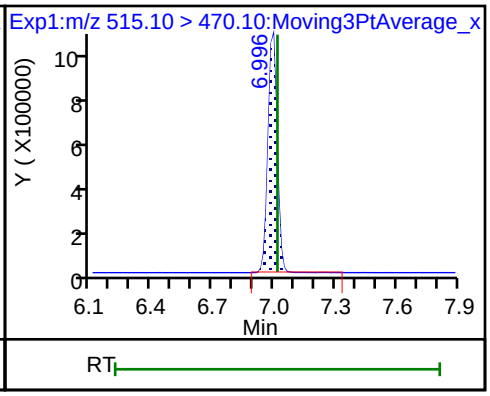
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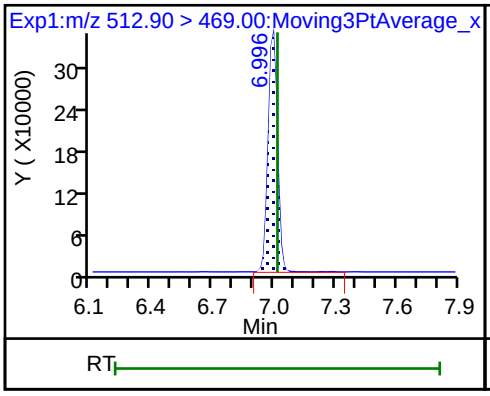
D 50 13C6 PFDA



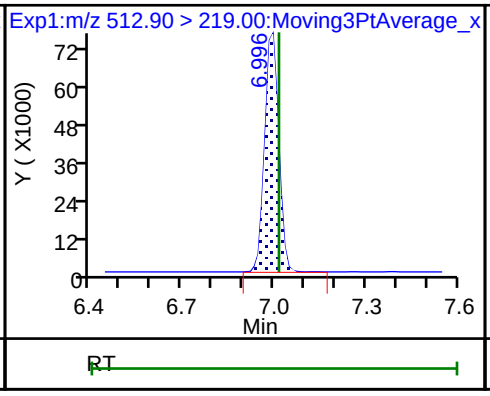
* 52 13C2 PFDA



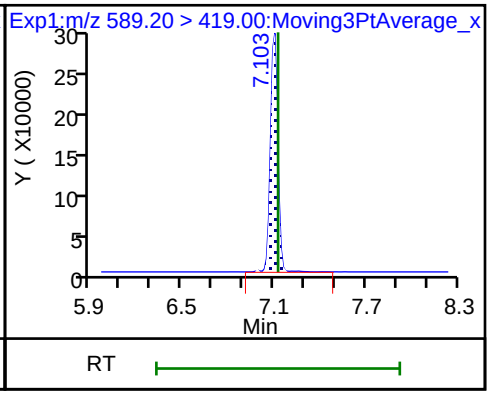
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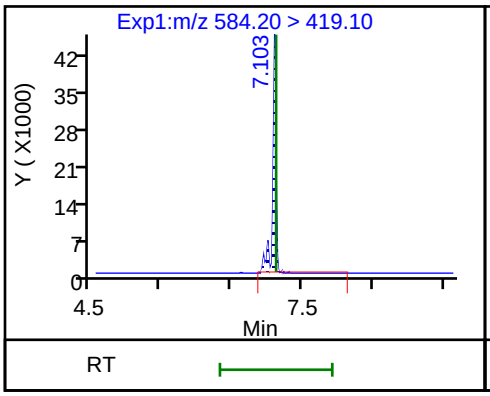
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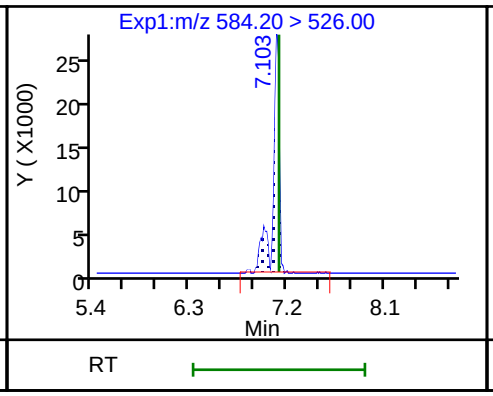
D 54 d5-NEtFOSAA



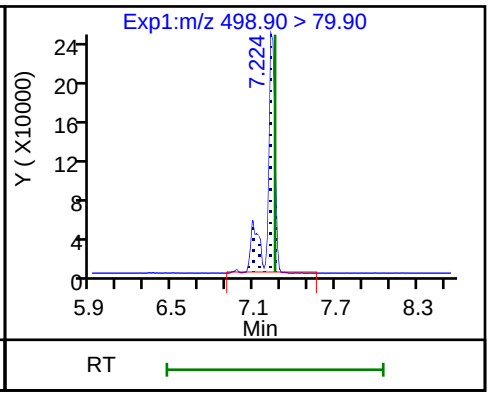
55 NEtFOSAA



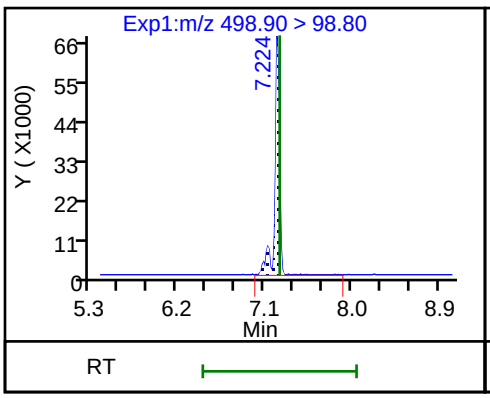
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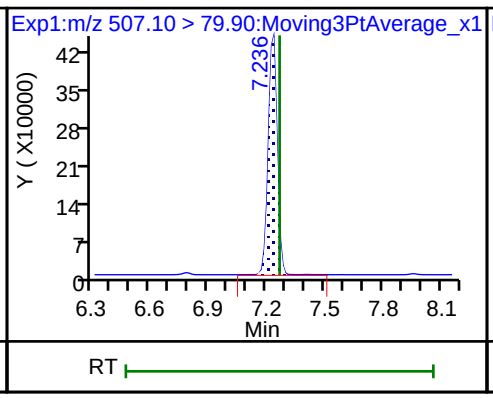
58 PFOS



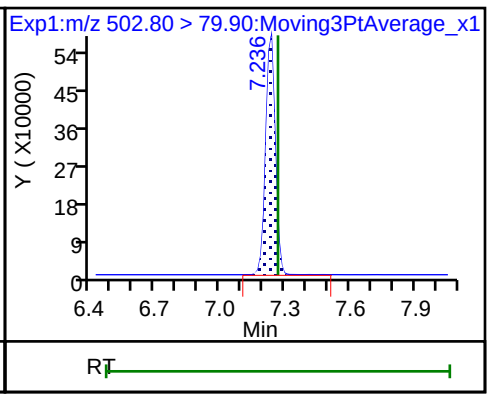
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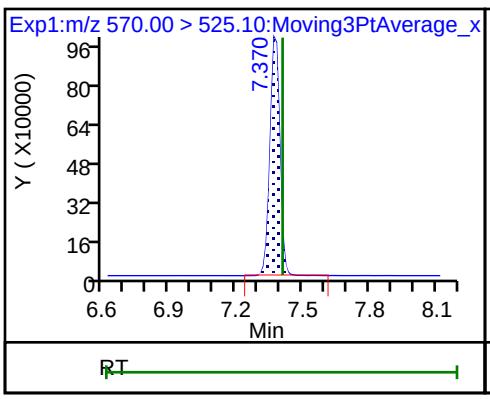
D 56 13C8 PFOS



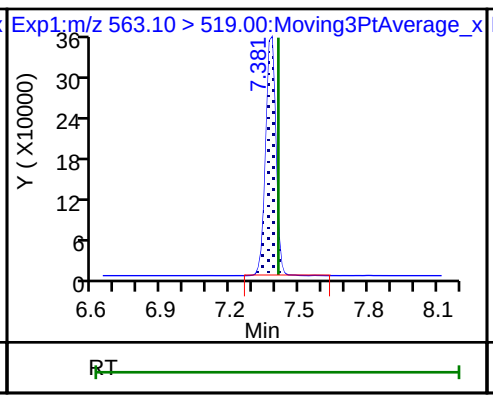
* 57 13C4 PFOS



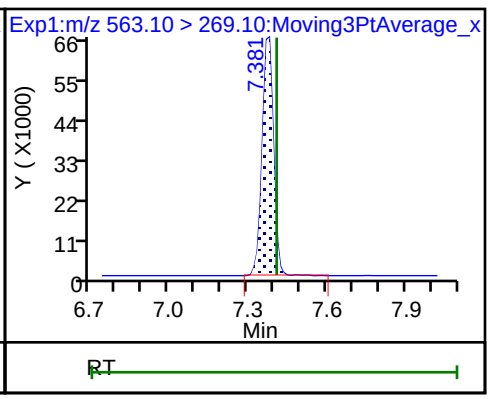
D 59 13C7 PFUnA



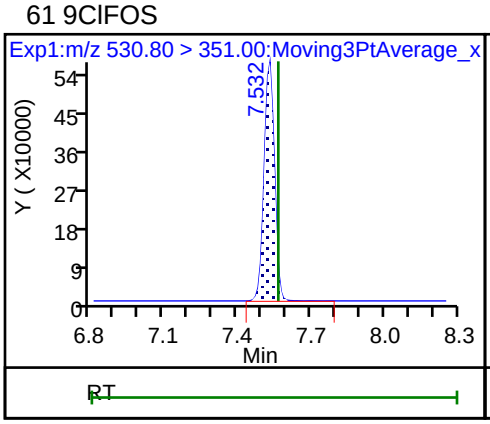
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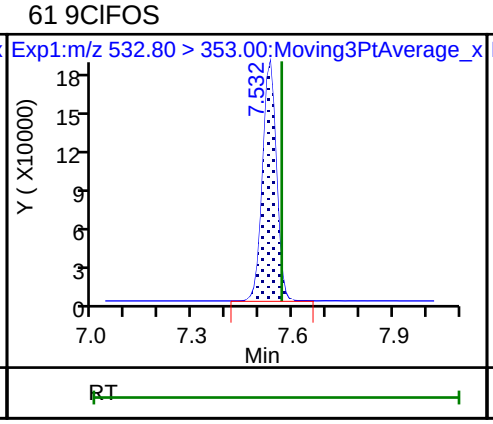
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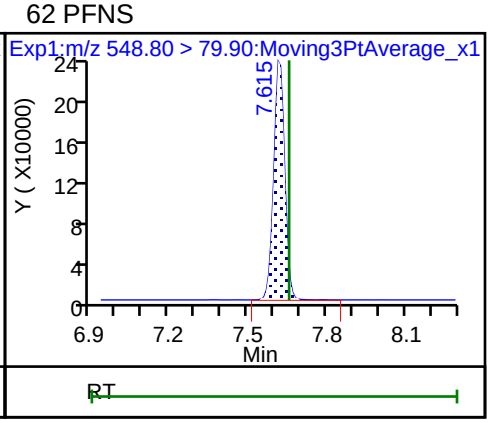
61 9ClFOS



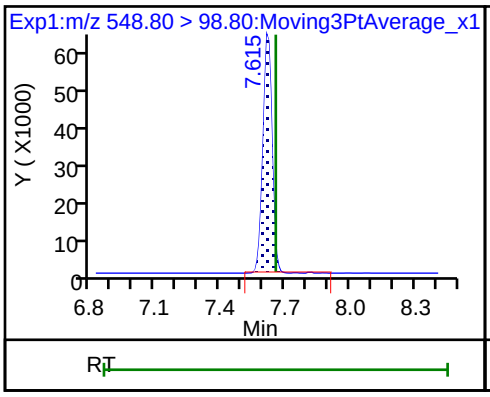
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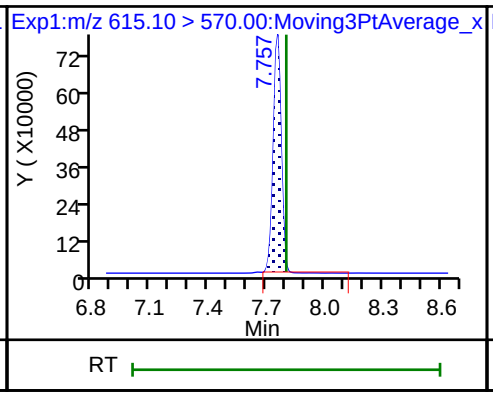
62 PFNS



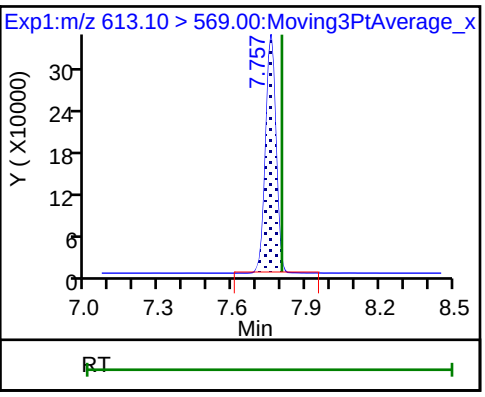
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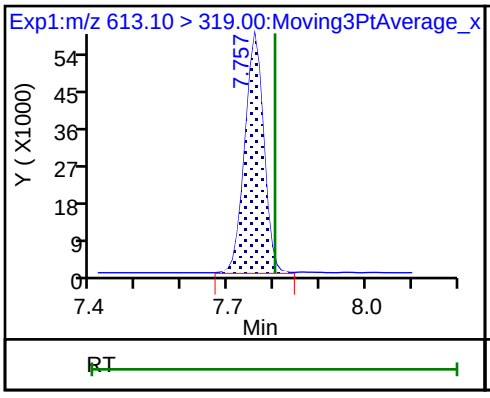
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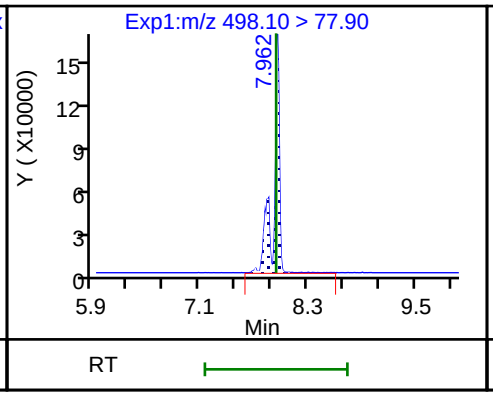
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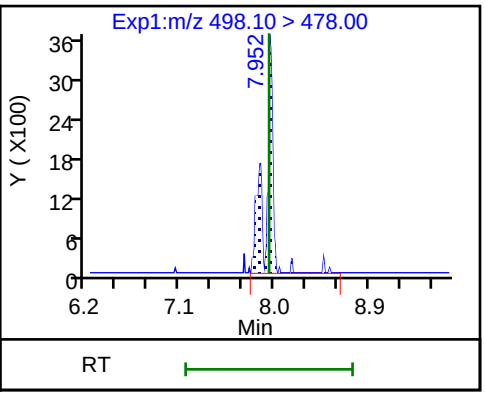
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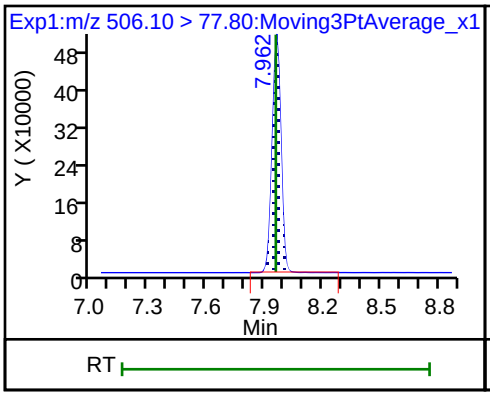
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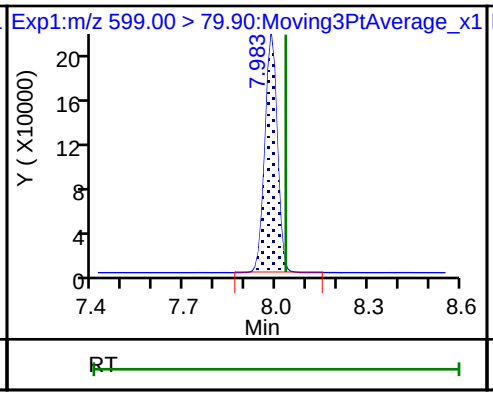
64 PFOSA



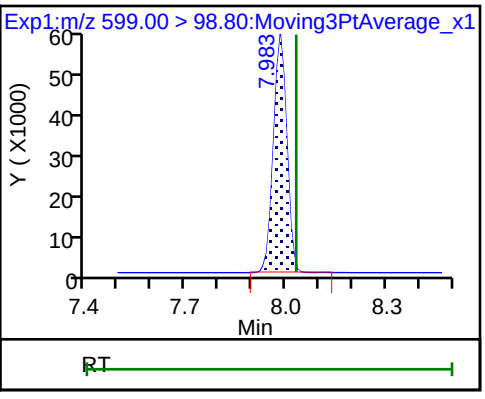
D 65 13C8 FOSA



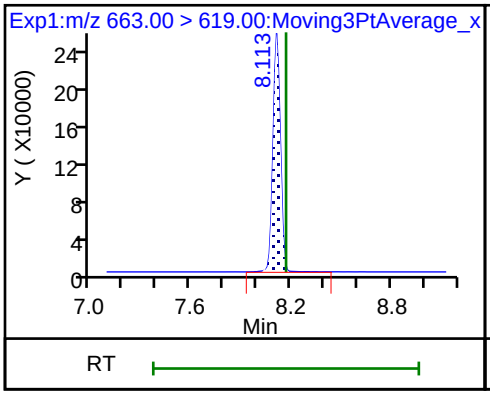
66 PFDS



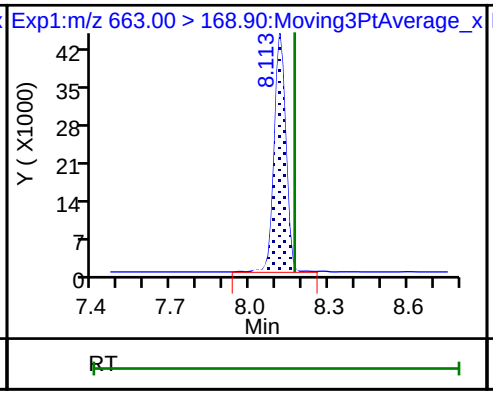
66 PFDS



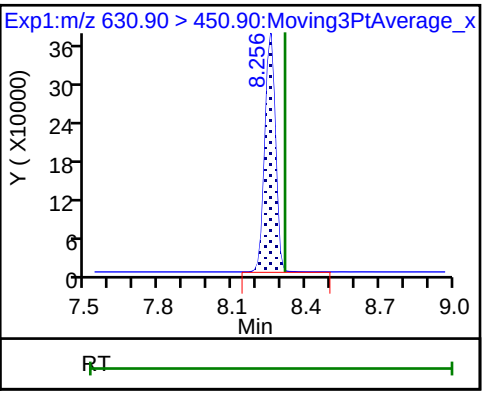
67 PFTrDA



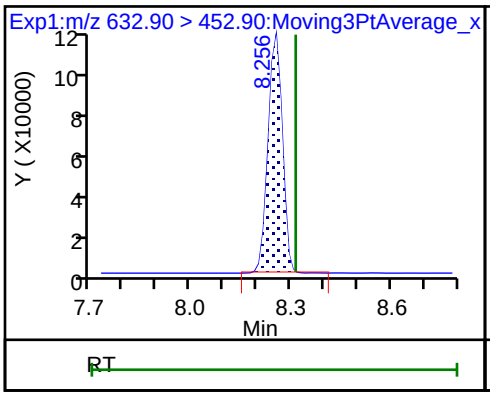
67 PFTrDA



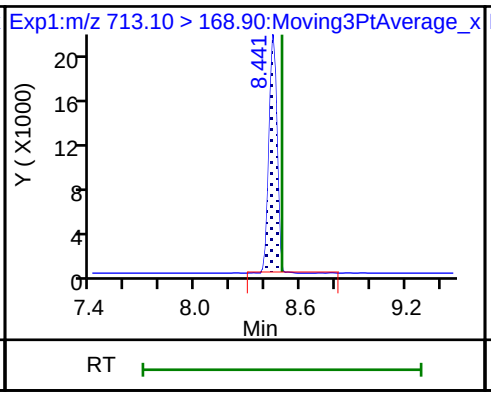
68 11ClFOS



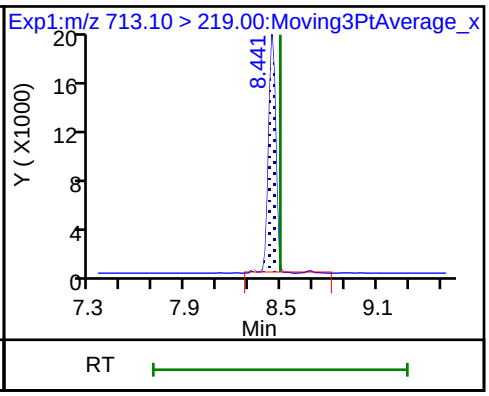
68 11ClFOS



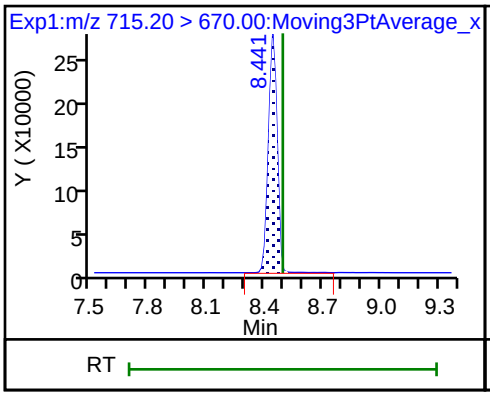
70 PFTeDA



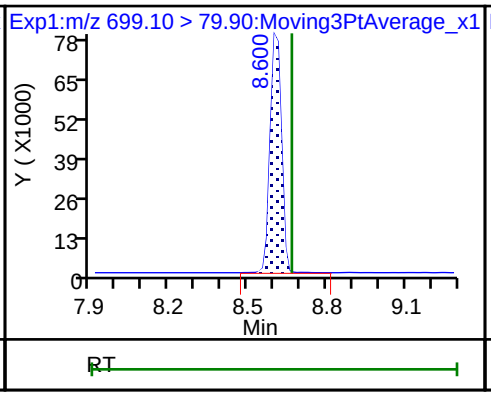
70 PFTeDA



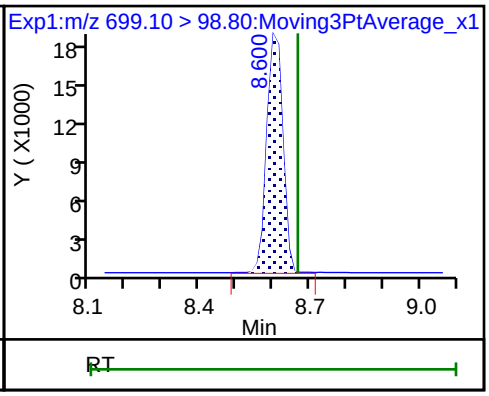
D 69 13C2 PFTeDA



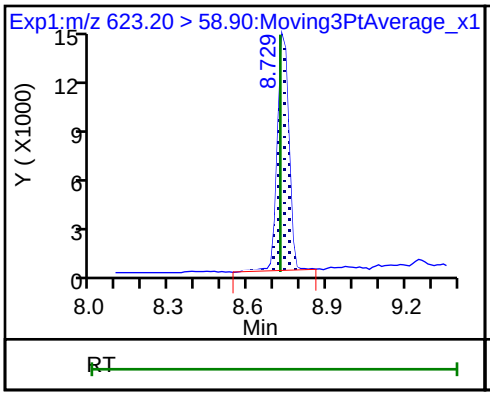
73 PFDoS



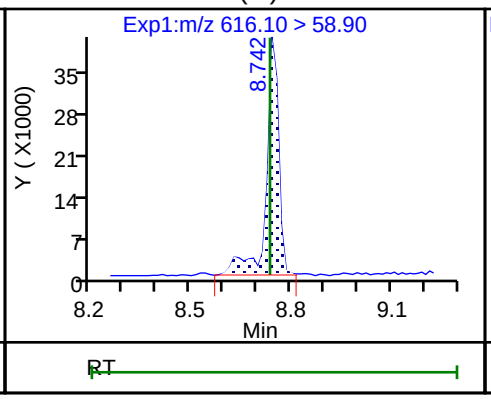
73 PFDoS



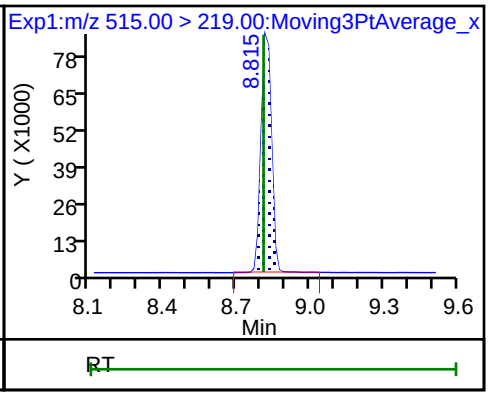
D 71 d7-N-Me-FOSE



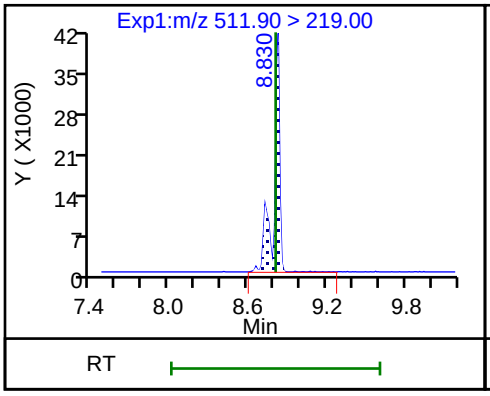
72 N-MeFOSE-M (M)



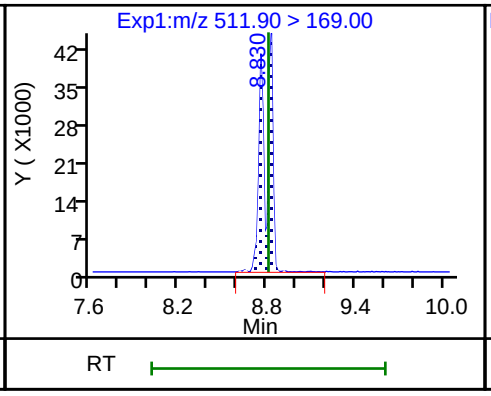
D 74 d3-NMePFOSA



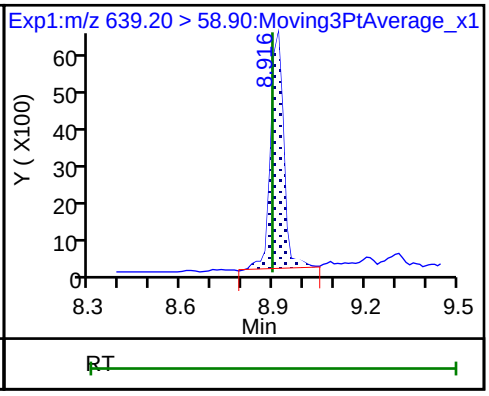
75 NMeFOSA



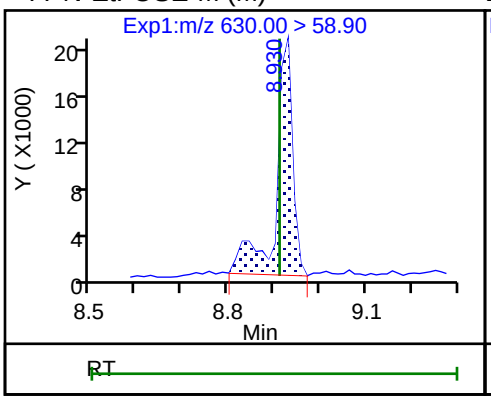
75 NMeFOSA



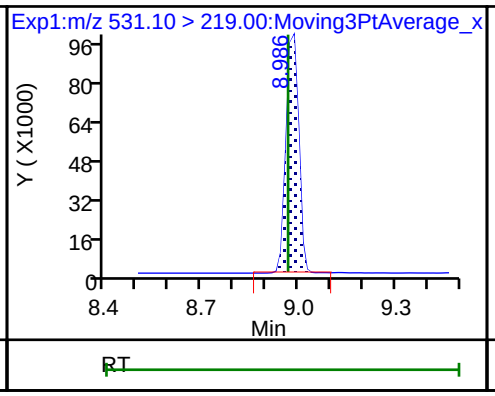
D 76 d9-N-EtFOSE



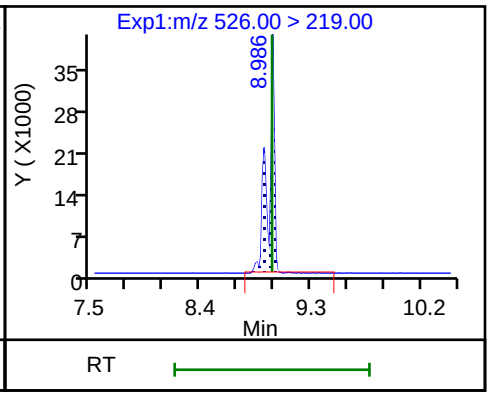
77 N-EtFOSE-M (M)



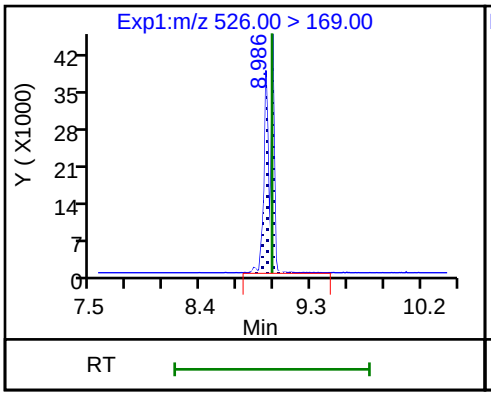
D 78 d5-NEtPFOSA



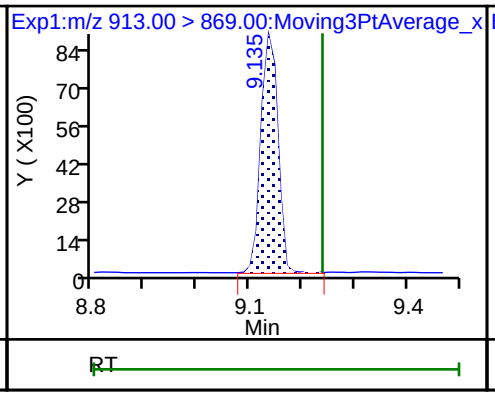
79 N-EtFOSA-M



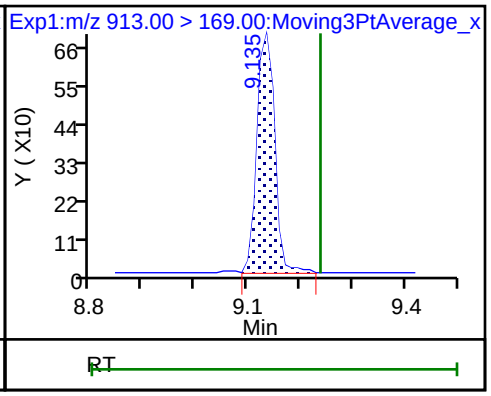
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

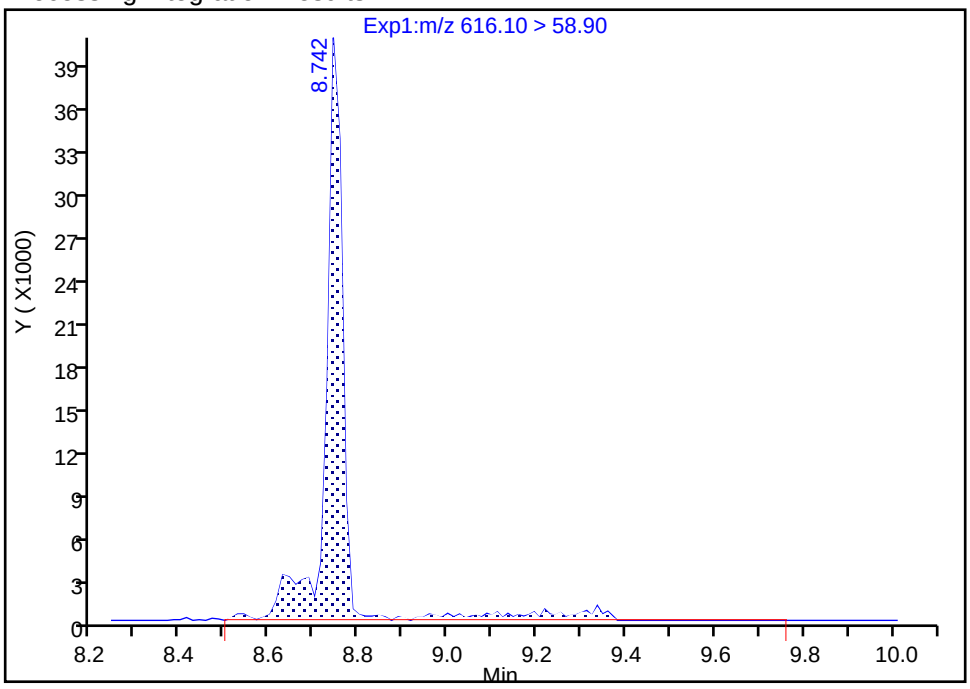
Data File:	\\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-54.d				
Injection Date:	04-Feb-2026 18:37:56	Instrument ID:	30575		
Lims ID:	LCS 410-764041/2-A				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	37	Worklist Smp#:	137
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

72 N-MeFOSE-M, CAS: 24448-09-7

Signal: 1

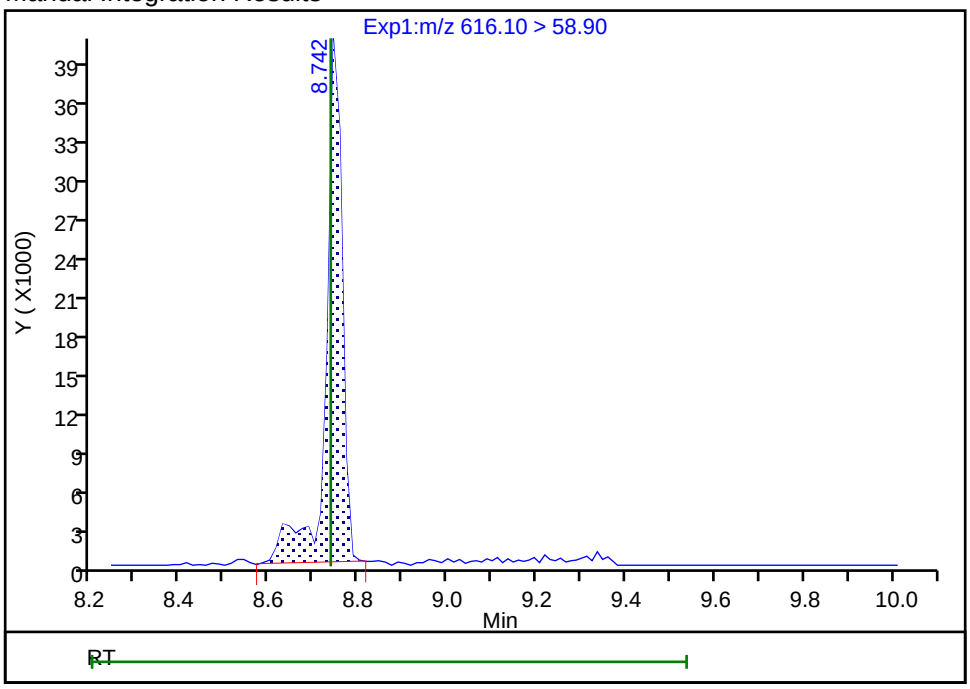
Processing Integration Results

RT: 8.74
Area: 119033
Amount: 5.049079
Amount Units: ng/ml



Manual Integration Results

RT: 8.74
Area: 103104
Amount: 4.373411
Amount Units: ng/ml



Reviewer: LDU5, 04-Feb-2026 19:23:29 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

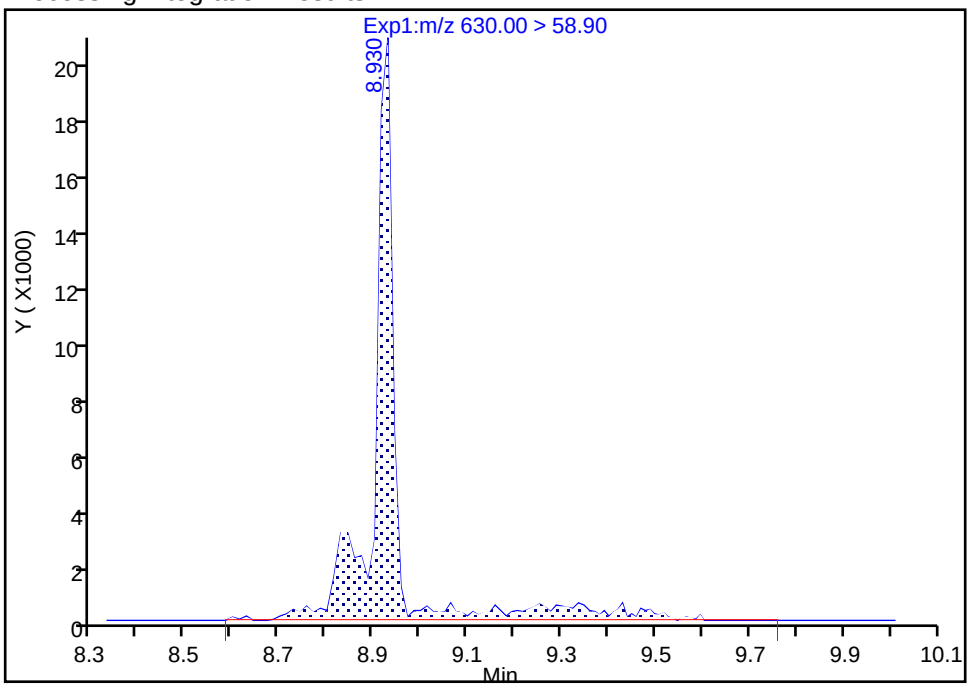
Data File:	\\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-54.d				
Injection Date:	04-Feb-2026 18:37:56	Instrument ID:	30575		
Lims ID:	LCS 410-764041/2-A				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	37	Worklist Smp#:	137
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

77 N-EtFOSE-M, CAS: 1691-99-2

Signal: 1

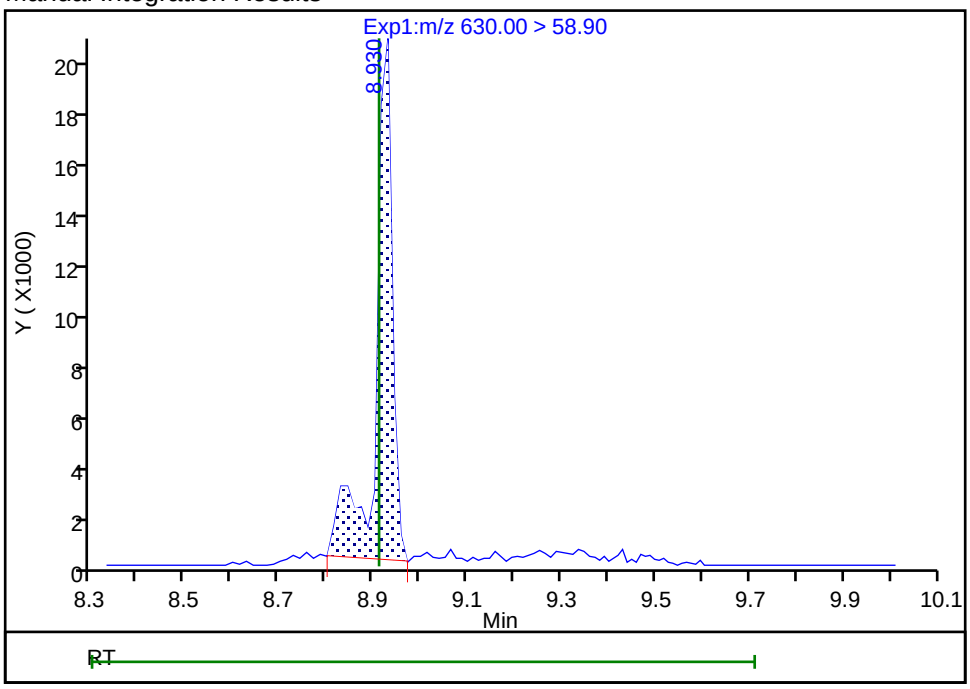
Processing Integration Results

RT: 8.93
Area: 67740
Amount: 4.508269
Amount Units: ng/ml



Manual Integration Results

RT: 8.93
Area: 50987
Amount: 3.393314
Amount Units: ng/ml



Reviewer: LDU5, 04-Feb-2026 19:24:14 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-765112/2-A

Matrix: Solid
Lab File ID: 26FEB05JO-29.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.05(g)
Date Analyzed: 02/05/2026 20:18

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.971		0.39	0.098
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.446		0.20	0.098
307-24-4	Perfluorohexanoic acid (PFHxA)	2.216		0.20	0.098
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.257		0.20	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	2.405		0.20	0.059
375-95-1	Perfluorononanoic acid (PFNA)	2.244		0.20	0.098
335-76-2	Perfluorodecanoic acid (PFDA)	2.180		0.20	0.059
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.246		0.20	0.098
307-55-1	Perfluorododecanoic acid (PFDoA)	2.554		0.20	0.098
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	2.477		0.20	0.098
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	2.429		0.20	0.098
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.210		0.20	0.098
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	2.289		0.20	0.098
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.245		0.20	0.098
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.262		0.20	0.098
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.115		0.20	0.098
68259-12-1	Perfluorononanesulfonic acid (PFNS)	2.087		0.20	0.098
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.823		0.20	0.098
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.798		0.20	0.098
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.608		0.39	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.496		0.39	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.509		0.39	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.334		0.20	0.098
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	2.495		0.20	0.098
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.464		0.20	0.098

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-765112/2-A

Matrix: Solid
Lab File ID: 26FEB05JO-29.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.05(g)
Date Analyzed: 02/05/2026 20:18

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.269		0.20	0.098
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.517		0.20	0.098
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.67		0.98	0.49
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	11.76		0.98	0.49
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.902		0.20	0.098
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.315		0.20	0.098
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	2.609		0.20	0.098
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	2.269		0.20	0.098
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.262		0.20	0.098
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	2.016		0.20	0.098
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	1.951		0.20	0.098
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.071		0.20	0.098
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.961		0.39	0.20
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	10.36		0.98	0.49
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	9.515		0.98	0.49

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-765112/2-A

Matrix: Solid
Lab File ID: 26FEB05JO-29.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.05(g)
Date Analyzed: 02/05/2026 20:18

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	72.9		8-130
2283397-79-3	13C5 PFPeA	72.2		35-130
2328024-54-8	13C5 PFHxA	73.5		40-130
2328024-55-9	13C4 PFHpA	76.5		40-130
1350614-84-4	13C8 PFOA	73.1		40-130
2283397-80-6	13C9 PFNA	68.1		40-130
2328024-56-0	13C6 PFDA	70.0		40-130
STL02580	13C7 PFUnA	74.2		40-130
STL02116	13C2 PFTeDA	62.4		20-130
2708218-83-9	13C3 PFBS	73.1		40-135
2708218-85-1	13C3 PFHxS	75.8		40-130
2265893-05-6	13C8 PFOS	71.6		40-130
STL01056	13C8 FOSA	60.2		40-130
1400690-70-1	d3-NMeFOSAA	55.0		40-135
1265205-97-7	d5-NEtFOSAA	54.0		40-150
STL02395	13C2 4:2 FTS	71.8		40-165
STL02279	13C2 6:2 FTS	77.2		40-215
STL02280	13C2 8:2 FTS	62.3		40-275
STL02255	13C3 HFPO-DA	71.0		40-130
STL02277	d7-N-MeFOSE-M	8.35	*	20-130
STL02278	d9-N-EtFOSE-M	5.13	*	15-130
STL02704	d5-NEtPFOSA	43.5		10-130
STL02705	d3-NMePFOSA	45.0		10-130
960315-52-0	13C2 PFDoA	67.6		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-29.d
Lims ID: LCS 410-765112/2-A
Client ID:
Sample Type: LCS
Inject. Date: 05-Feb-2026 20:18:29 ALS Bottle#: 14 Worklist Smp#: 133
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-765112/2-A
Misc. Info.: Plate: 1 Rack: 1 410-0174796-133
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:36:52
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.993	2.018	-0.025	0.476	1110999	1.39		69.5	1437	
2 Perfluoropropionic acid										
163.00 > 119.00	1.993	2.018	-0.025	1.000	2667274	5.23		105	5306	
3 PFBA										
212.80 > 168.90	4.180	4.180	0.0	0.998	1476052	2.04		102	12635	
D 4 13C4-PFBA										
216.80 > 171.90	4.187	4.187	0.0	1.000	1576579	1.46		72.9	5201	
* 5 13C3PFBA										
216.00 > 172.00	4.187	4.187	0.0		2108689	2.00			5247	
6 PFMPA										
229.00 > 84.90	4.512	4.513	-0.001	0.932	827719	1.07		107	3562	
7 3:3 FTCA										
241.00 > 177.00	4.522	4.522	0.0	0.934	75739	2.03	Target=1.18	102	1214	
241.00 > 117.00	4.522	4.522	0.0	0.934	62332		1.22(0.59-1.77)		964	
D 8 13C5 PFPeA										
268.30 > 223.00	4.843	4.844	-0.001	0.914	1511755	1.44		72.2	7927	
9 PFPA										
263.00 > 219.00	4.843	4.844	-0.001	1.000	904788	1.00		100	2235	
10 PFMBA										
279.00 > 85.10	4.992	4.996	-0.004	1.031	953016	0.9305		93.0	3967	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.118	5.121	-0.003	0.803	829595	3.37		71.8	4454	
12 4:2FTS										
327.10 > 307.00	5.118	5.121	-0.003	1.000	618140	1.89	Target=1.72	101	2980	
327.10 > 80.90	5.118	5.121	-0.003	1.000	353406		1.75(0.86-2.58)		663	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.257	5.260	-0.003	0.992	216482	0.9275	Target=1.45	92.7	1281	
295.00 > 84.90	5.257	5.260	-0.003	0.992	151395		1.43(0.72-2.17)		746	
D 15 13C5 PFHxA										
318.00 > 273.00	5.300	5.303	-0.003	1.000	1870866	1.47		73.5	3923	
* 16 13C2 PFHxA										
315.10 > 270.00	5.300	5.303	-0.003		6004706	5.00			6821	
17 PFHxA										
313.00 > 269.00	5.300	5.303	-0.003	1.000	734106	0.9084	Target=10.06	90.8	2148	
313.00 > 118.90	5.300	5.303	-0.003	1.000	72011		10.19(5.03-15.10)		344	
18 5:3 FTCA										
341.00 > 237.10	5.375	5.389	-0.014	1.014	479581	4.25	Target=0.78	85.0	1562	
341.00 > 217.00	5.375	5.389	-0.014	1.014	639809		0.75(0.39-1.17)		1746	
D 19 13C3 PFBS										
302.10 > 79.90	5.434	5.437	-0.003	0.852	1802549	1.36		73.1	6503	
20 PFBS										
298.70 > 79.90	5.434	5.446	-0.012	1.000	784853	0.9060	Target=3.14	102	5527	
298.70 > 98.80	5.434	5.446	-0.012	1.000	248963		3.15(1.57-4.71)		1337	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.483	5.486	-0.003	1.035	1231134	1.42		71.0	8076	
23 HFPO-DA										
284.90 > 168.90	5.483	5.486	-0.003	1.000	514122	0.7796	Target=2.75	104	2119	
284.90 > 184.90	5.483	5.486	-0.003	1.000	208353		2.47(1.37-4.12)		1406	
21 FBSA										
297.90 > 78.00	5.504	5.530	-0.026	1.013	749116	0.9747		97.5	1990	
26 PFEESA										
314.80 > 134.90	5.676	5.679	-0.003	1.071	1898069	0.8491	Target=11.75	95.2	6844	
314.80 > 82.90	5.676	5.679	-0.003	1.071	162933		11.65(5.88-17.63)		1003	
27 PFHpA										
363.10 > 319.00	5.719	5.722	-0.003	1.000	738509	0.9252	Target=1.87	92.5	1704	
363.10 > 169.00	5.719	5.722	-0.003	1.000	391176		1.89(0.94-2.81)		1732	
D 28 13C4 PFHpA										
367.10 > 322.00	5.719	5.732	-0.013	1.079	1900869	1.53		76.5	5825	
29 ADONA										
376.90 > 250.90	5.884	5.888	-0.004	1.073	2038389	0.9490	Target=2.13	100	3525	
376.90 > 84.80	5.884	5.888	-0.004	1.073	898913		2.27(1.07-3.20)		2727	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.926	5.930	-0.004	0.929	765915	3.68		77.2	3941	
30 PFPeS										
349.10 > 79.90	5.926	5.930	-0.004	0.931	920575	0.9385	Target=3.24	99.8	5242	
349.10 > 98.90	5.926	5.930	-0.004	0.931	288888		3.19(1.62-4.86)		1730	
31 6:2FTS										
427.10 > 407.00	5.926	5.930	-0.004	1.000	555454	1.84	Target=1.63	96.8	4413	
427.10 > 80.90	5.926	5.930	-0.004	1.000	342844		1.62(0.82-2.45)		1336	
33 BTS										
280.00 > 147.00	6.090	6.093	-0.003	0.957	1901483	1.03		104	5924	
* 34 13C4 PFOA										
417.10 > 372.00	6.140	6.143	-0.003		7786063	5.00			4934	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.140	6.143	-0.003	1.000	2320183	1.46		73.1	6512	
36 PFOA										
413.00 > 369.00	6.140	6.143	-0.003	1.000	709188	0.9860	Target=1.91	98.6	643	
413.00 > 169.00	6.130	6.143	-0.013	0.998	402712		1.76(0.96-2.87)		442	
37 7:3 FTCA										
441.00 > 316.90	6.231	6.234	-0.003	1.176	210961	3.90	Target=0.31	78.0	856	
441.00 > 336.90	6.231	6.234	-0.003	1.176	757099		0.28(0.16-0.47)		2468	
40 PFHxS										
398.70 > 79.90	6.365	6.369	-0.004	1.000	603025	0.9204	Target=3.07	101	1524	
398.70 > 98.90	6.365	6.369	-0.004	1.000	184992		3.26(1.53-4.60)		233	
* 39 18O2 PFHxS										
403.00 > 83.90	6.376	6.379	-0.003		1969250	1.90			8094	
D 38 13C3 PFHxS										
402.10 > 79.90	6.365	6.379	-0.014	0.998	1607549	1.44		75.8	4803	
D 41 13C9 PFNA										
472.10 > 427.00	6.555	6.549	0.006	1.000	1759373	1.36		68.1	4889	
* 42 13C5 PFNA										
468.00 > 423.00	6.555	6.560	-0.005		2494980	2.00			6746	
43 PFNA										
463.00 > 419.00	6.544	6.570	-0.026	0.998	702977	0.9200	Target=2.01	92.0	1183	
463.00 > 219.00	6.555	6.570	-0.015	1.000	344390		2.04(1.01-3.02)		304	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.732	6.737	-0.005	1.056	643115	2.99		62.3	2114	
45 8:2FTS										
527.10 > 507.00	6.732	6.737	-0.005	1.000	430525	1.85	Target=1.99	96.3	2005	
527.10 > 80.80	6.732	6.737	-0.005	1.000	212985		2.02(0.99-2.98)		1084	
46 PFECHS										
461.00 > 381.00	6.770	6.774	-0.004	1.064	164734	0.8644	Target=0.18	93.6	434	
461.00 > 99.00	6.770	6.774	-0.004	1.064	942710		0.17(0.09-0.27)		6661	
47 PFHpS										
449.00 > 79.90	6.806	6.811	-0.005	0.942	862315	0.9274	Target=3.87	97.2	3487	
449.00 > 98.80	6.806	6.811	-0.005	0.942	227897		3.78(1.94-5.81)		717	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.895	6.899	-0.004	0.954	1320676	2.75		55.0	1733	
50 NMeFOSAA										
570.10 > 419.00	6.905	6.909	-0.004	1.001	239249	0.9303	Target=1.74	93.0	76.4	
570.10 > 483.00	6.905	6.909	-0.004	1.001	134274		1.78(0.87-2.61)		331	
48 FHxSA										
397.90 > 78.00	6.955	6.959	-0.004	1.093	1010208	0.9138		91.4	1860	
53 PFDA										
512.90 > 469.00	6.966	6.970	-0.004	1.000	551635	0.8936	Target=3.37	89.4	2121	
512.90 > 219.00	6.966	6.970	-0.004	1.000	163144		3.38(1.69-5.06)		1008	
* 51 13C2 PFDA										
515.10 > 470.10	6.955	6.970	-0.015		2433581	2.00			5695	
D 52 13C6 PFDA										
519.10 > 474.10	6.966	6.970	-0.004	1.001	1679806	1.40		70.0	4171	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.076	7.090	-0.014	0.979	1119293	2.70		54.0	3651	
55 NEtFOSAA										
584.20 > 419.10	7.086	7.100	-0.014	1.001	202687	1.03	Target=1.30	103	607	
584.20 > 526.00	7.086	7.100	-0.014	1.001	152952		1.33(0.65-1.95)		331	
58 PFOS										
498.90 > 79.90	7.228	7.232	-0.004	1.000	871737	0.8672	Target=4.60	93.2	1665	
498.90 > 98.80	7.228	7.232	-0.004	1.000	194485		4.48(2.30-6.91)		315	
* 57 13C4 PFOS										
502.80 > 79.90	7.228	7.241	-0.013		1783950	1.92			7799	
D 56 13C8 PFOS										
507.10 > 79.90	7.228	7.241	-0.013	1.000	1422162	1.37		71.6	6725	
D 59 13C7 PFUnA										
570.00 > 525.10	7.382	7.387	-0.005	1.061	1773855	1.48		74.2	4548	
60 PFUnA										
563.10 > 519.00	7.382	7.397	-0.015	1.000	572978	0.9207	Target=4.93	92.1	1783	
563.10 > 269.10	7.382	7.397	-0.015	1.000	117792		4.86(2.47-7.40)		739	
61 9ClFOS										
530.80 > 351.00	7.550	7.562	-0.012	1.044	1688561	0.8264	Target=3.12	88.5	6336	
532.80 > 353.00	7.550	7.562	-0.012	1.044	578657		2.92(1.56-4.68)		3854	
62 PFNS										
548.80 > 79.90	7.643	7.664	-0.021	1.057	543360	0.8557	Target=3.51	88.9	4063	
548.80 > 98.80	7.643	7.664	-0.021	1.057	147115		3.69(1.75-5.26)		1409	
63 PFDoA										
613.10 > 569.00	7.788	7.791	-0.003		759056	1.05	Target=5.93	105	3922	
613.10 > 319.00	7.788	7.791	-0.003		127209		5.97(2.96-8.89)		900	
D 81 PFDoA										
615.10 > 570.00	7.788	7.806	-0.018	1.120	1552745	1.35		67.6	2578	
64 PFOSA										M
498.10 > 77.90	8.040	8.027	0.013	1.000	680359	0.9570	Target=41.04	95.7	1292	
498.10 > 478.00	8.048	8.027	0.021	1.001	17685		38.47(20.52-61.57)		52.7	M
D 65 13C8 FOSA										
506.10 > 77.80	8.040	8.035	0.005	1.112	1286819	1.20		60.2	3982	
66 PFDS										
599.00 > 79.90	8.048	8.068	-0.020	1.113	632310	0.7474	Target=3.81	77.5	2567	
599.00 > 98.80	8.048	8.068	-0.020	1.113	166025		3.81(1.91-5.72)		718	
67 PFTrDA										
663.00 > 619.00	8.195	8.221	-0.026	0.954	662323	1.02	Target=6.20	102	2375	
663.00 > 168.90	8.195	8.221	-0.026	0.954	98514		6.72(3.10-9.31)		497	
68 11ClFOS										
630.90 > 450.90	8.363	8.388	-0.025	1.157	1126487	0.8001	Target=3.04	84.8	4461	
632.90 > 452.90	8.363	8.388	-0.025	1.157	367245		3.07(1.52-4.56)		3069	
69 PFTeDA										
713.10 > 168.90	8.597	8.611	-0.014	1.001	72029	1.00	Target=1.02	99.6	699	
713.10 > 219.00	8.586	8.611	-0.025	1.000	76888		0.94(0.51-1.53)		539	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.586	8.611	-0.025	1.235	1289897	1.25		62.4	3063	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.797	8.815	-0.018	1.217	613346	0.7374	Target=4.04	76.0	2036	
699.10 > 98.80	8.797	8.815	-0.018	1.217	150168		4.08(2.02-6.05)		1356	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.902	8.889	0.013	1.232	35831	0.4174		8.3	128	
73 N-MeFOSE-M										
616.10 > 58.90	8.916	8.904	0.012	1.002	95321	5.19		104	252	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.014	9.002	0.012	1.247	305050	0.9000		45.0	2002	
74 NMeFOSA										
511.90 > 219.00	9.014	9.017	-0.003	1.000	148037	1.02	Target=0.72	102	712	
511.90 > 169.00	9.014	9.017	-0.003	1.000	209433		0.71(0.36-1.08)		588	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.136	9.125	0.011	1.264	23733	0.2565		5.1	74.5	
77 N-EtFOSE-M										
630.00 > 58.90	9.149	9.152	-0.003	1.001	75599	4.82		96.5	180	
79 N-EtFOSA-M										
526.00 > 219.00	9.225	9.215	0.010	1.001	166334	1.01	Target=0.87	101	991	
526.00 > 169.00	9.225	9.215	0.010	1.001	196855		0.84(0.44-1.31)		829	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.213	9.215	-0.002	1.275	378796	0.8695		43.5	2498	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.497	9.542	-0.045	1.106	73593	0.1238	Target=17.02	12.4	1971	
913.00 > 169.00	9.497	9.542	-0.045	1.106	4373		16.83(8.51-25.52)		379	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00591 Amount Added: 50.00 Units: uL

Report Date: 05-Feb-2026 22:56:08 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-29.d

Injection Date: 05-Feb-2026 20:18:29 Instrument ID: 30577

Lims ID: LCS 410-765112/2-A

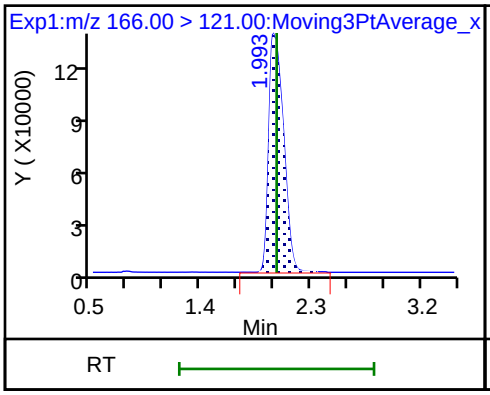
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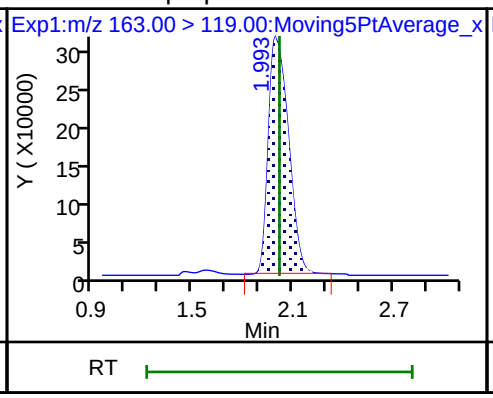
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Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

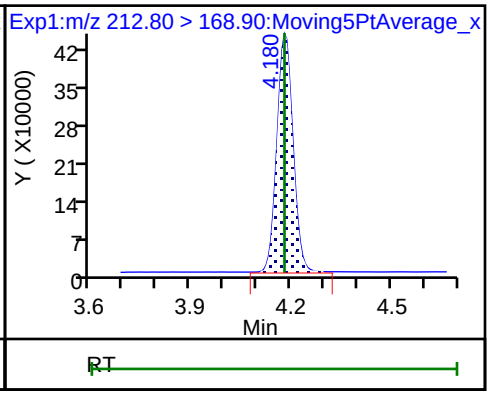
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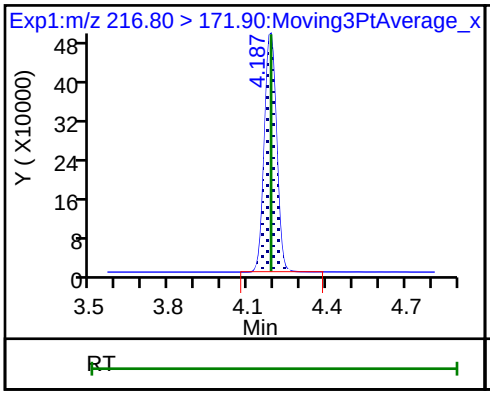
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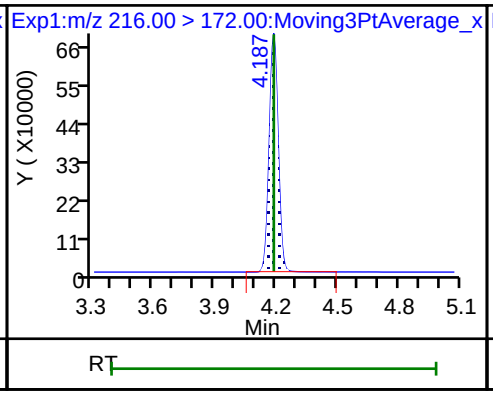
3 PFBA



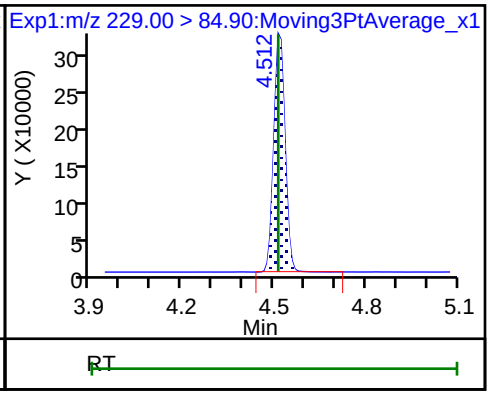
D 4 13C4-PFBA



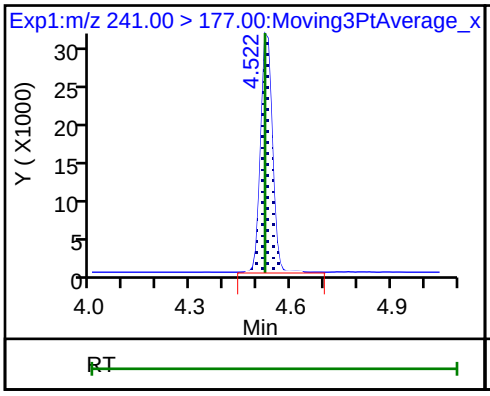
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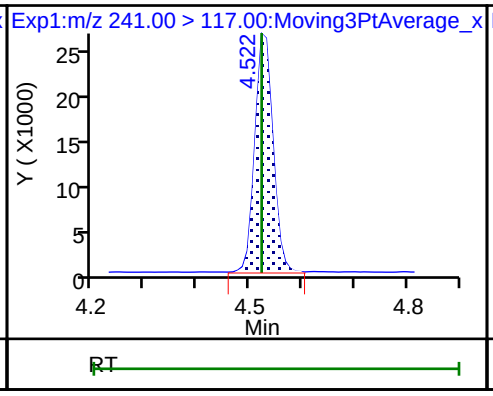
6 PFMPA



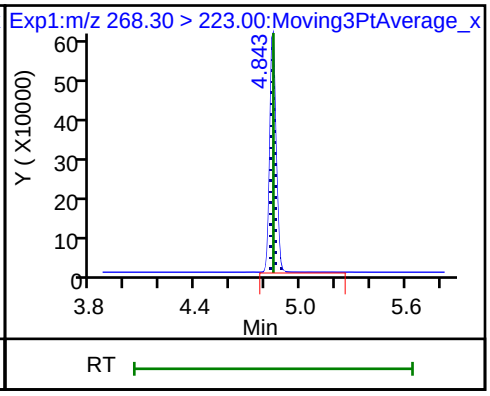
7 3:3 FTCA



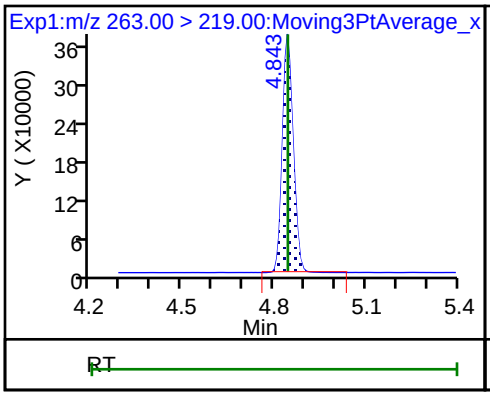
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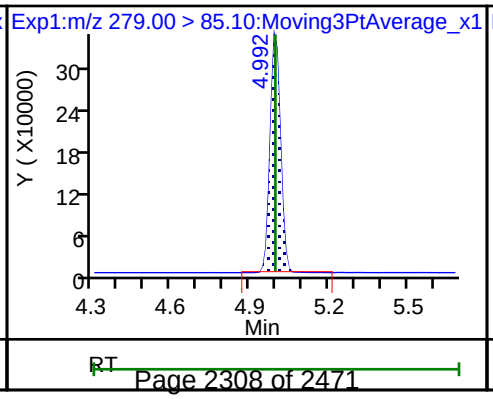
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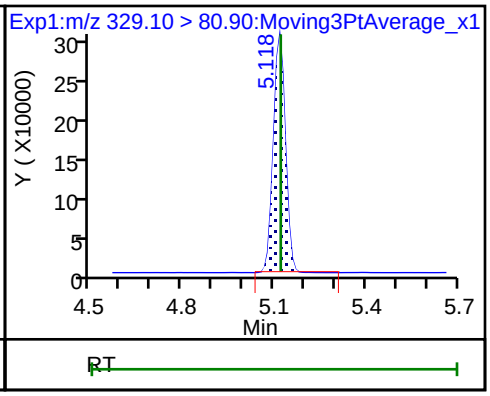
9 PFPA



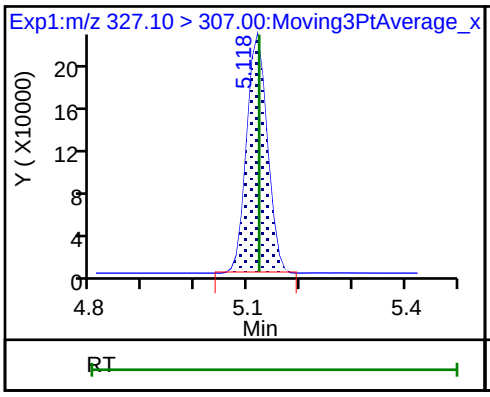
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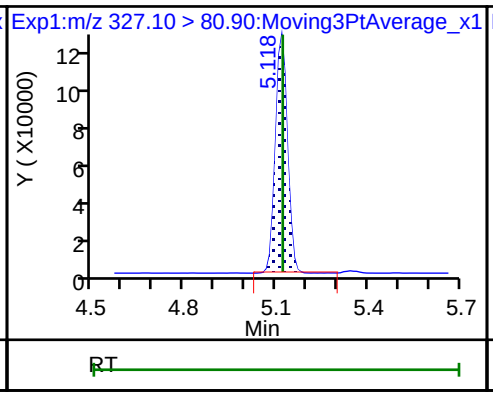
D 11 13C2-4:2FTS



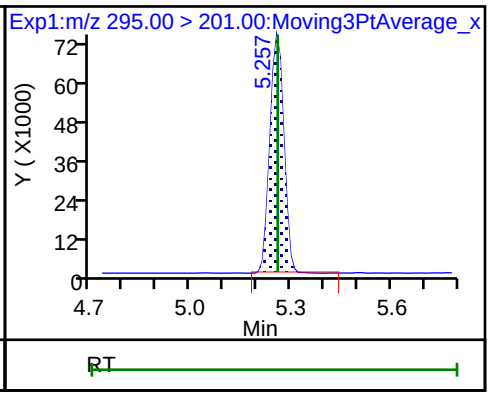
12 4:2FTS



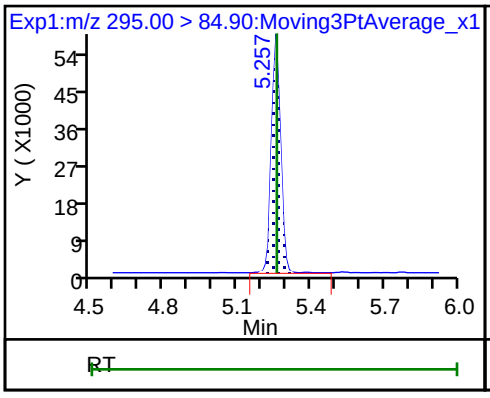
12 4:2FTS



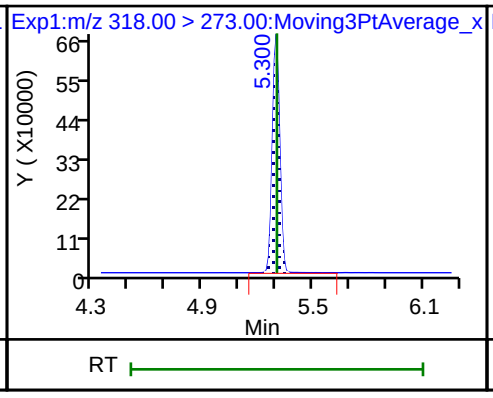
14 NFDHA



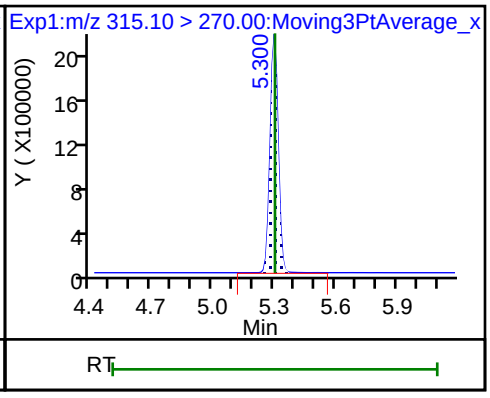
14 NFDHA



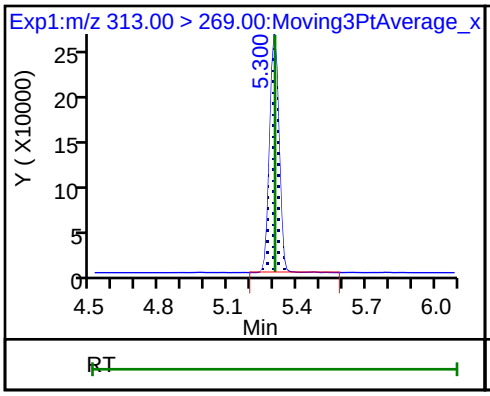
D 15 13C5 PFHxA



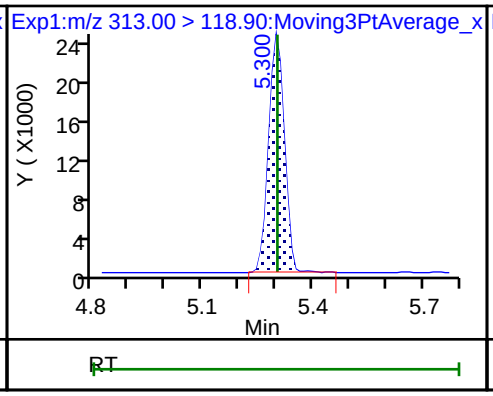
* 16 13C2 PFHxA



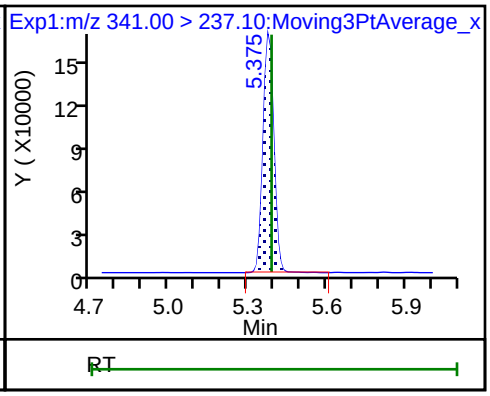
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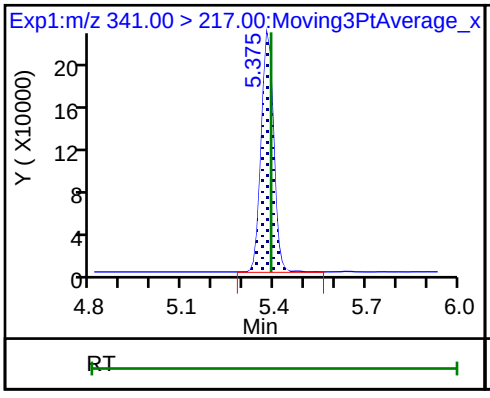
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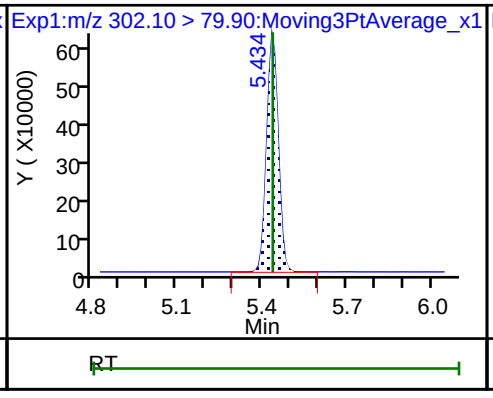
18 5:3 FTCA



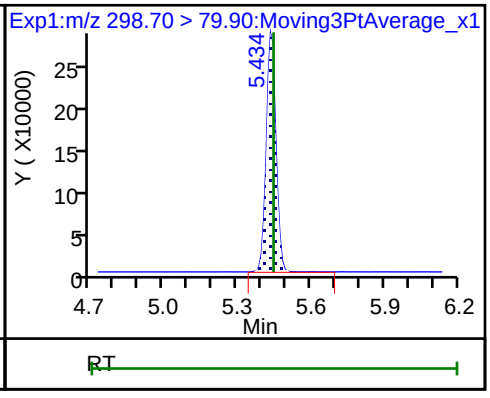
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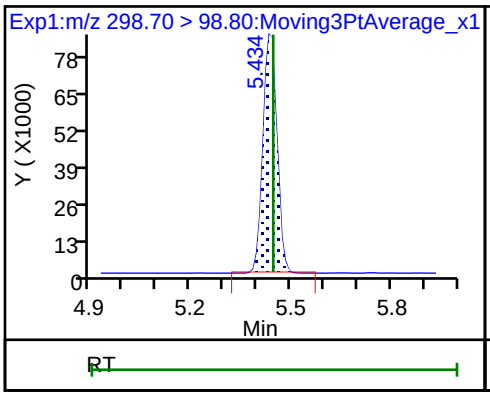
D 19 13C3 PFBS



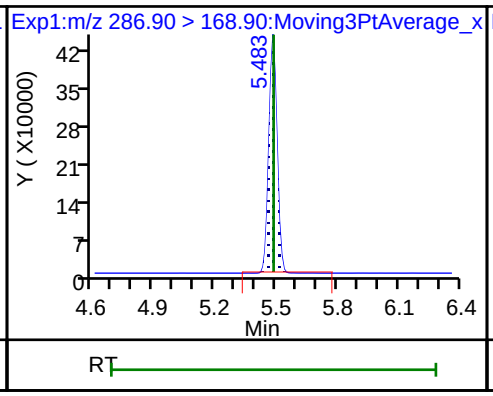
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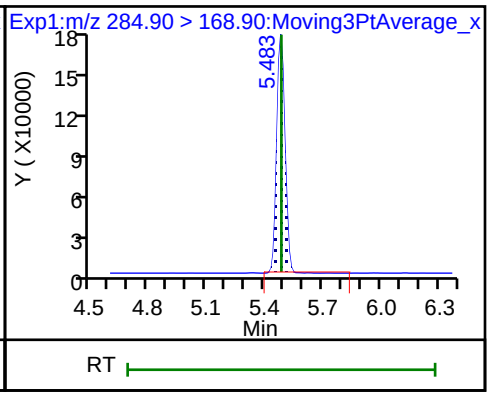
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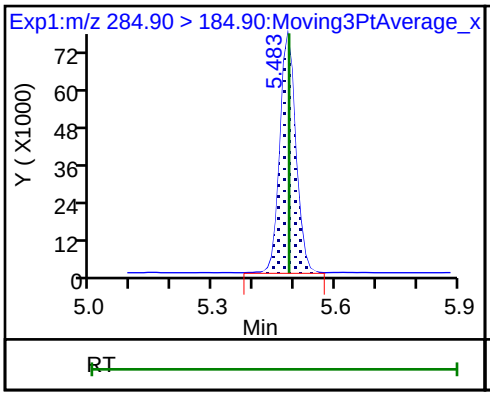
D 22 13C3 HFPO-DA



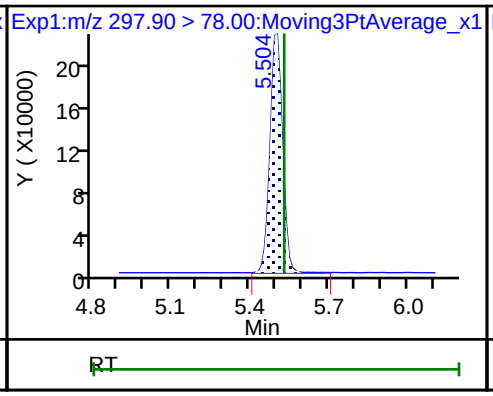
23 HFPO-DA



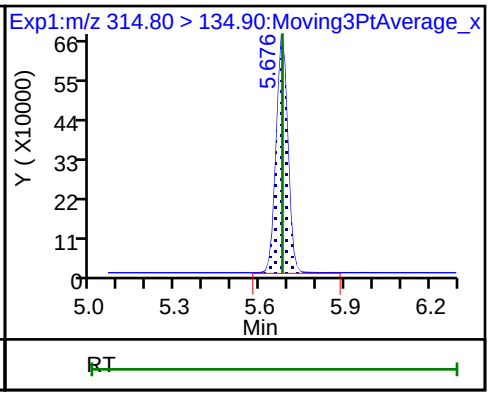
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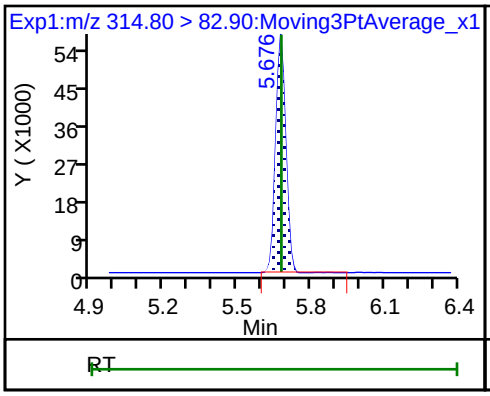
21 FBSA



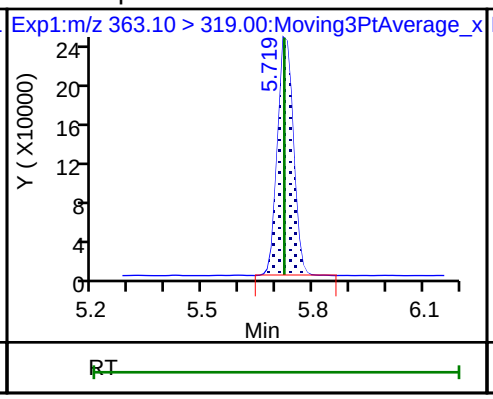
26 PFEESA



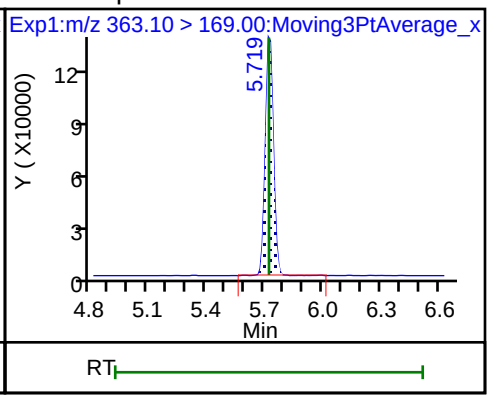
26 PFEESA



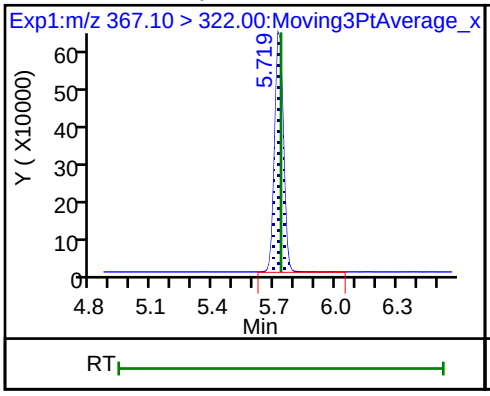
27 PFHpA



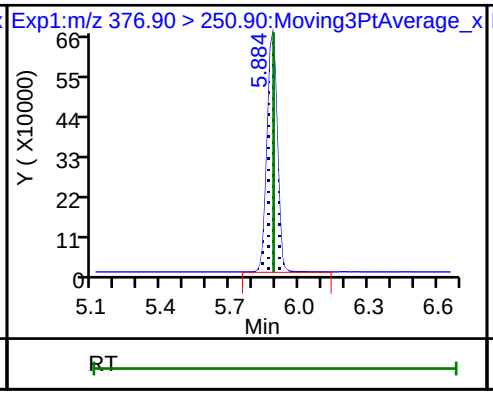
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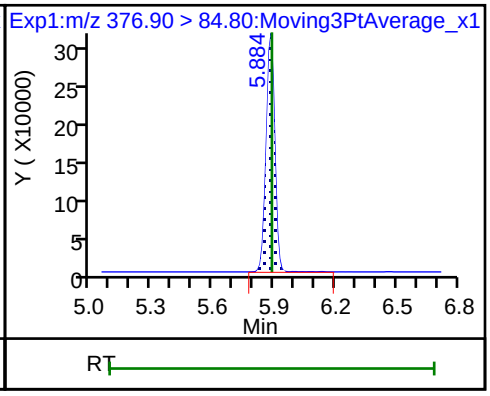
D 28 13C4 PFHpA



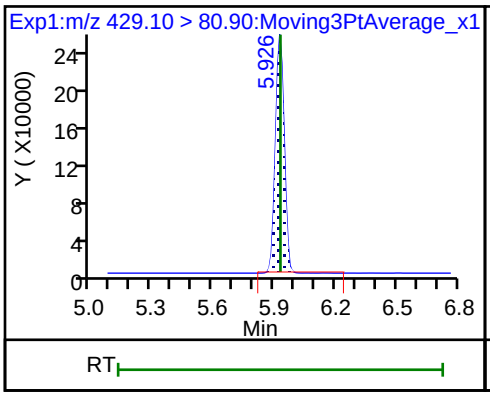
29 ADONA



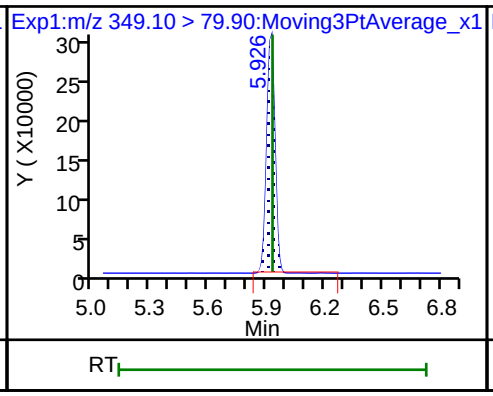
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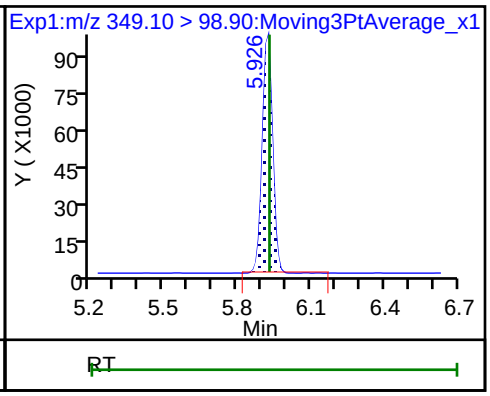
D 32 13C2-6:2FTS



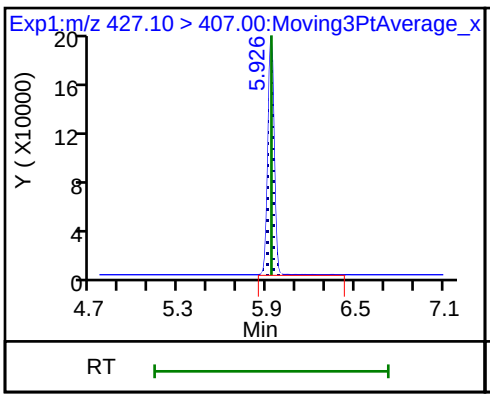
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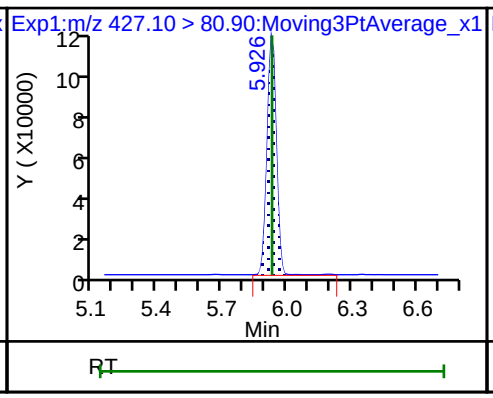
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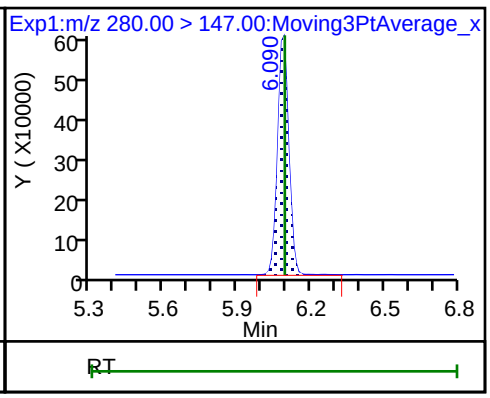
31 6:2FTS



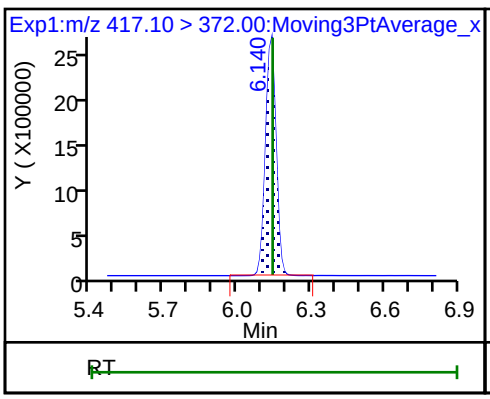
31 6:2FTS



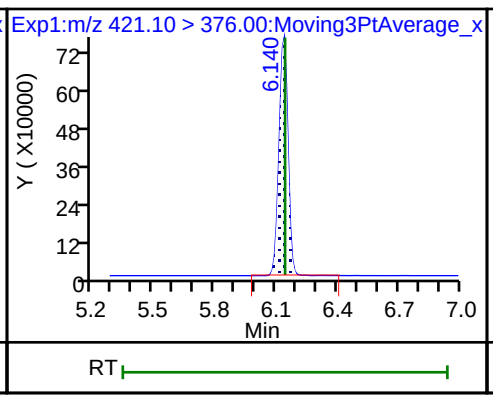
33 BTS



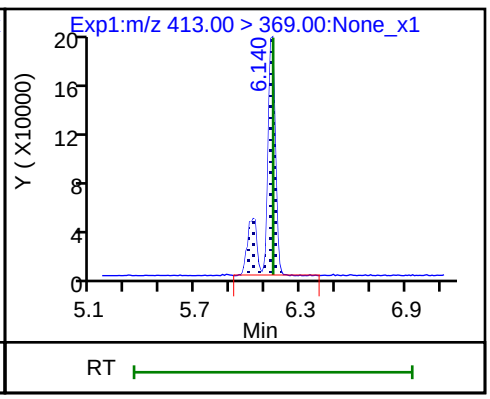
* 34 13C4 PFOA



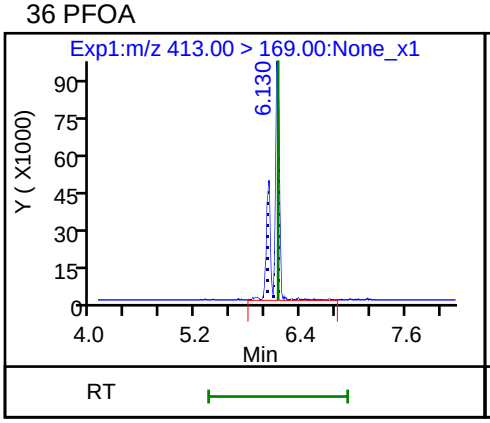
D 35 13C8 PFOA



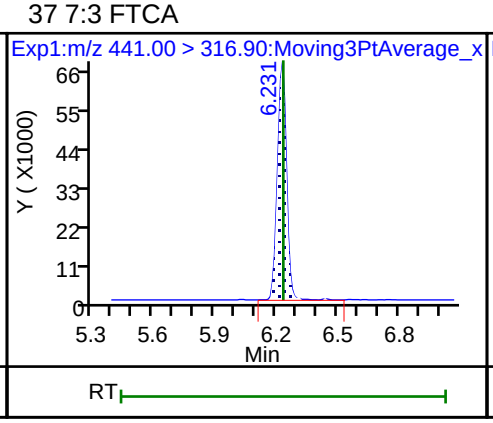
36 PFOA



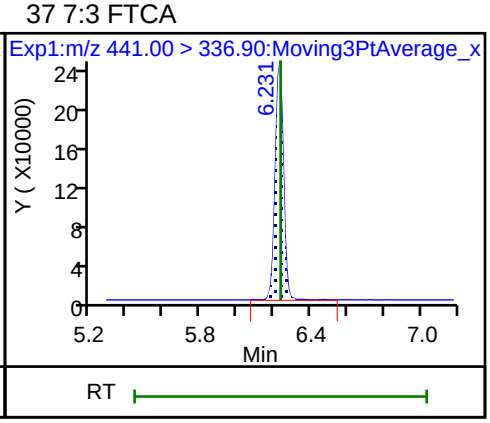
36 PFOA



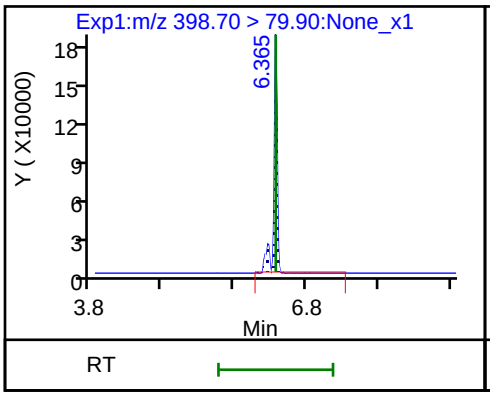
37 7:3 FTCA



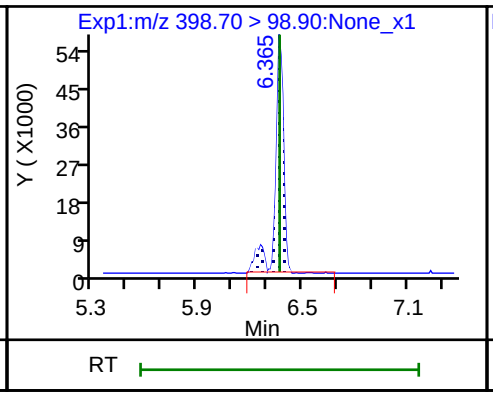
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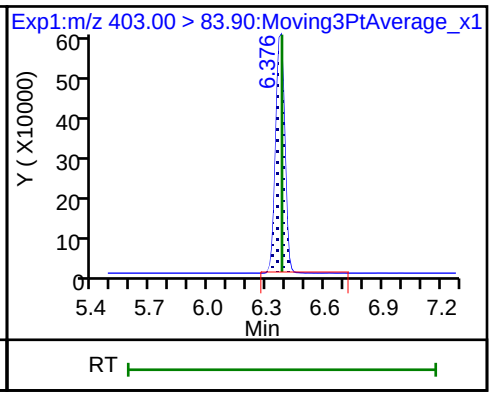
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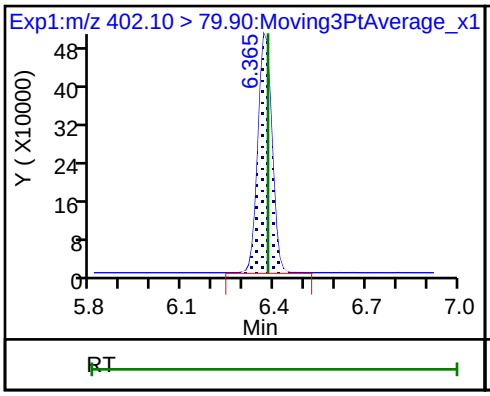
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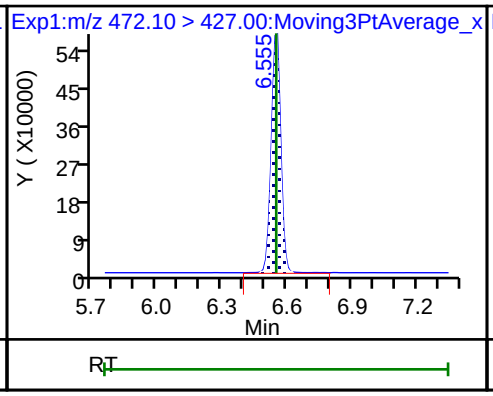
* 39 18O2 PFHxS



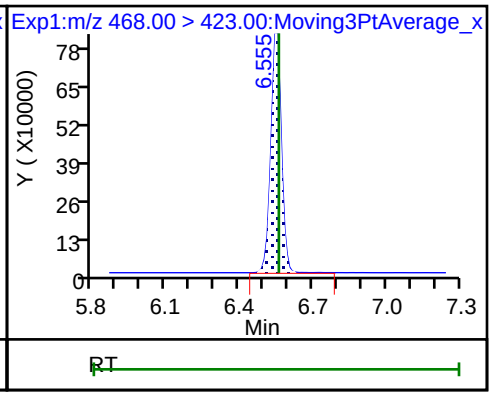
D 38 13C3 PFHxS



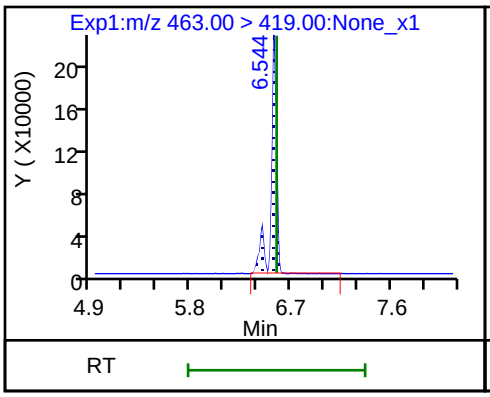
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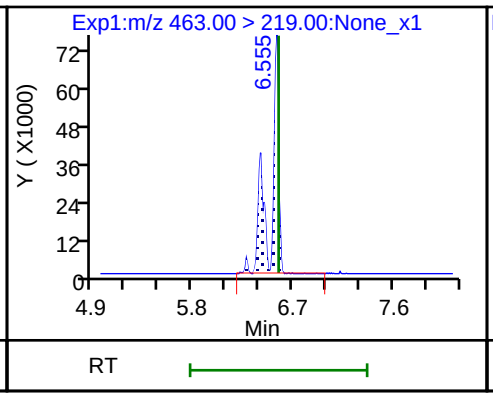
* 42 13C5 PFNA



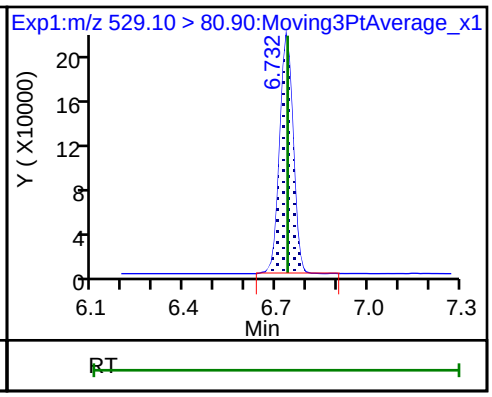
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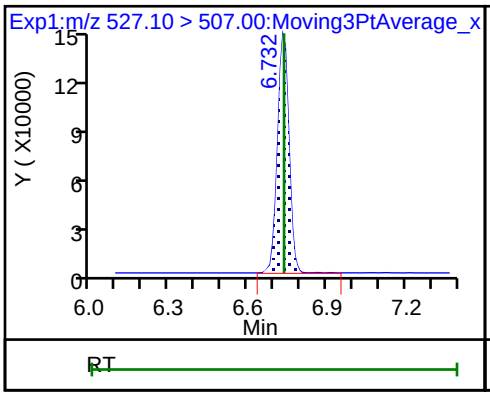
43 PFNA



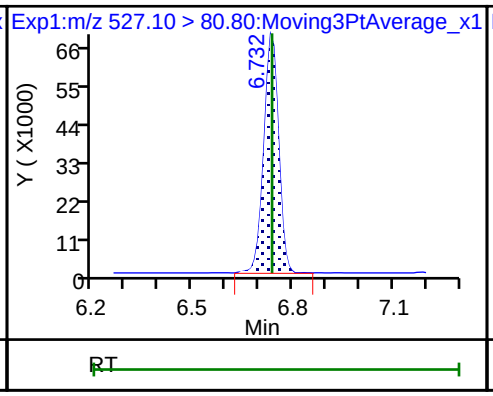
D 44 13C2-8:2FTS



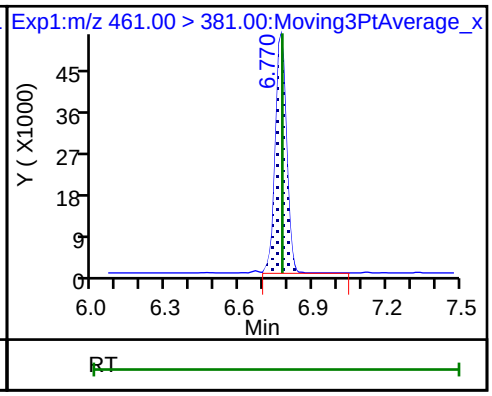
45 8:2FTS



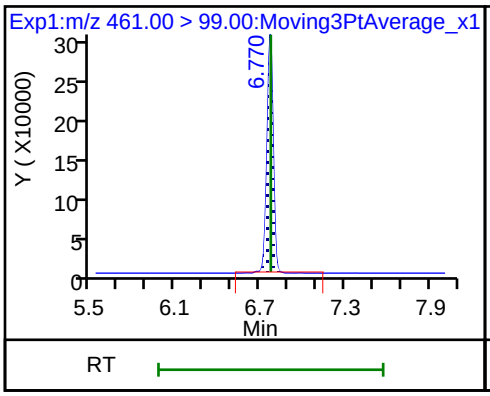
45 8:2FTS



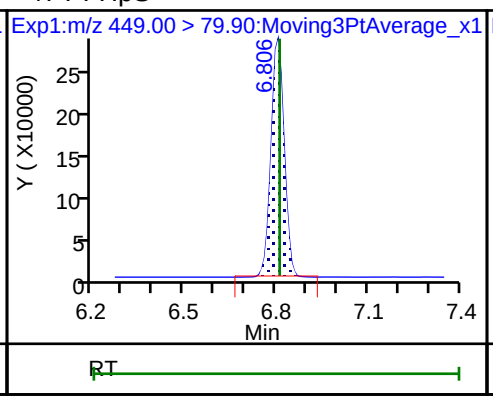
46 PFECHS



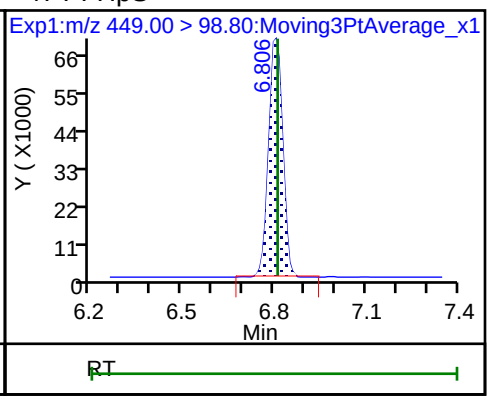
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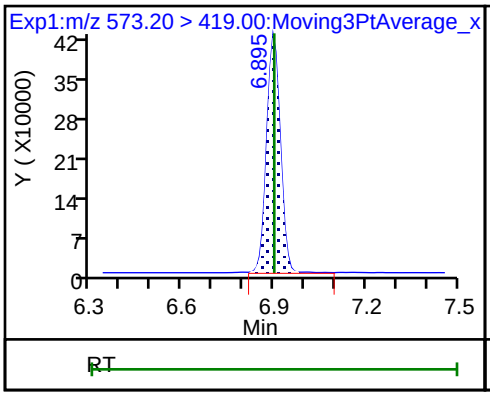
47 PFHpS



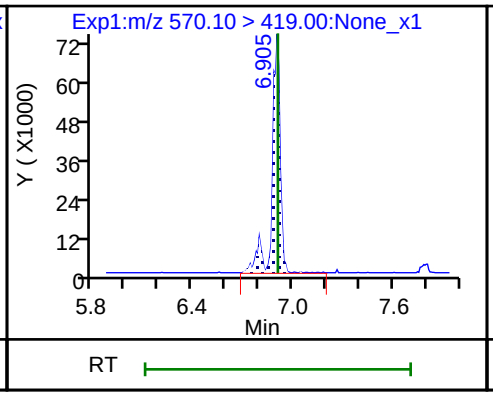
47 PFHpS



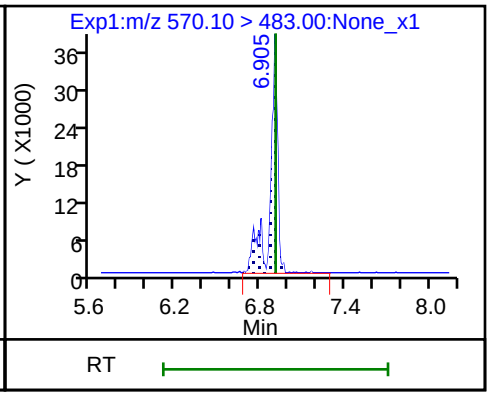
D 49 d3-NMeFOSAA



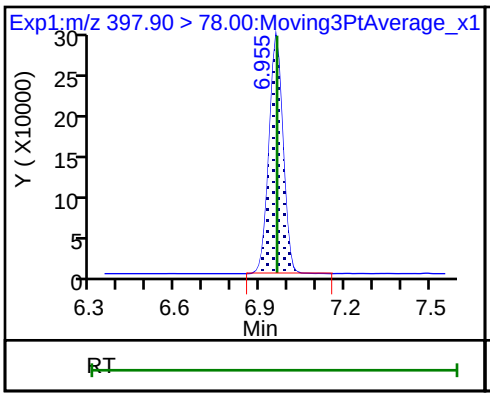
50 NMeFOSAA



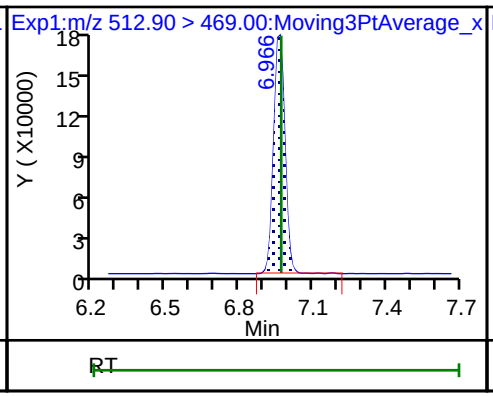
50 NMeFOSAA



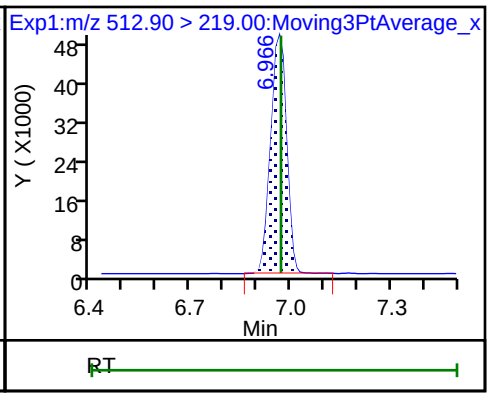
48 FHxSA



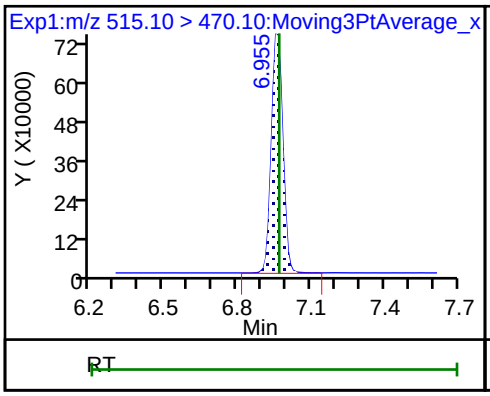
53 PFDA



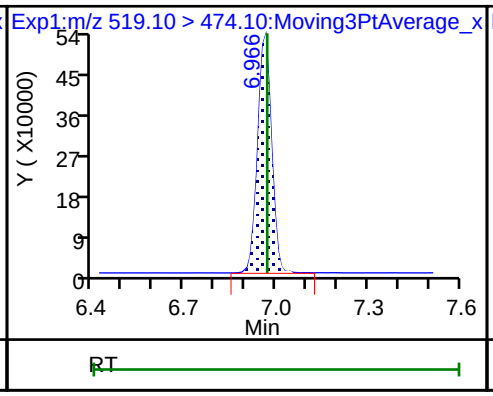
53 PFDA



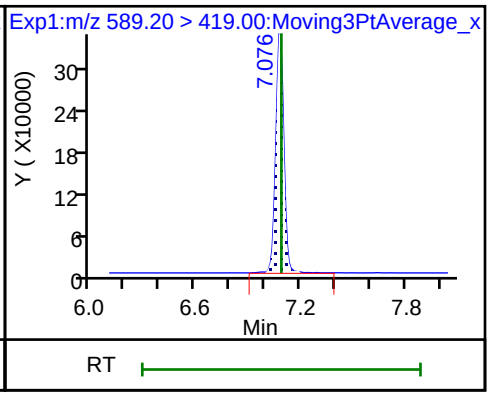
* 51 13C2 PFDA



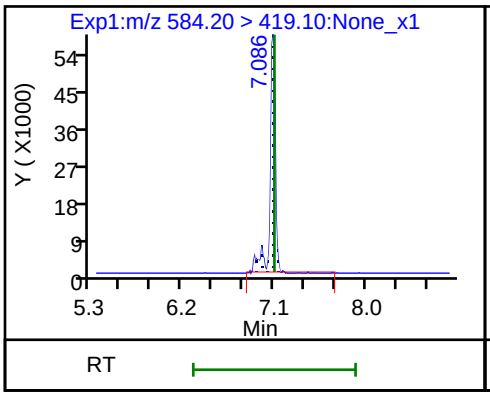
D 52 13C6 PFDA



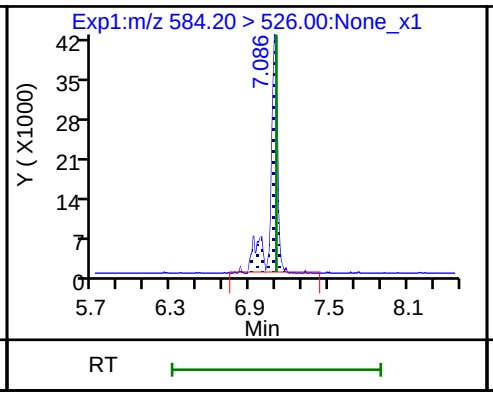
D 54 d5-NEtFOSAA



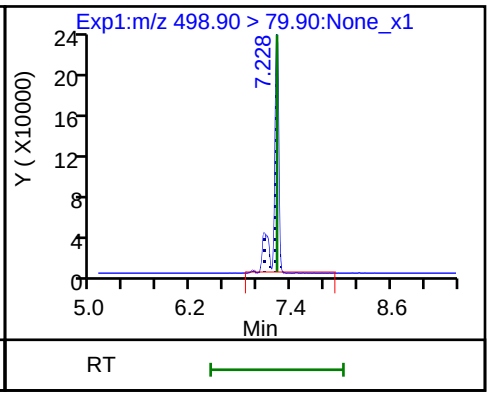
55 NEtFOSAA



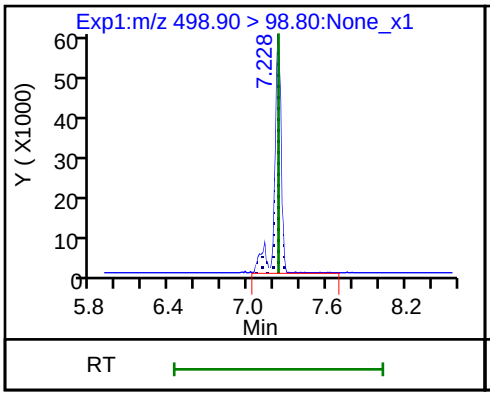
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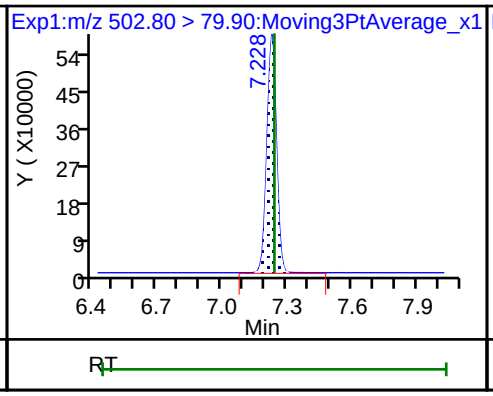
58 PFOS



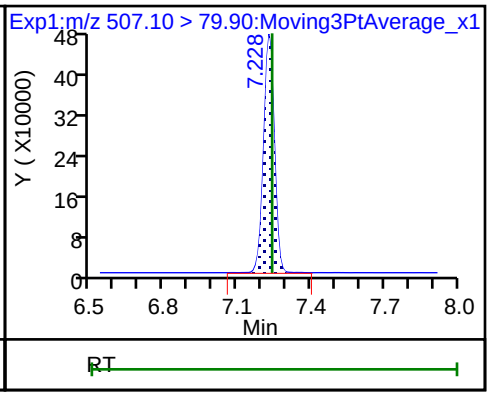
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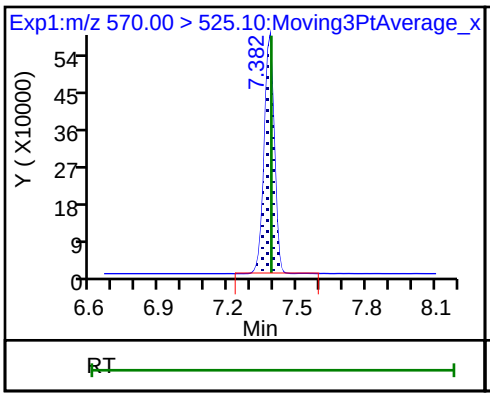
* 57 13C4 PFOS



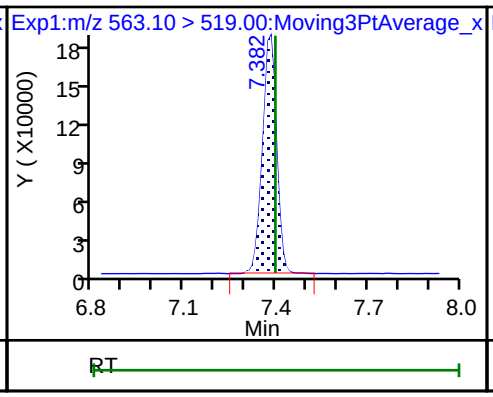
D 56 13C8 PFOS



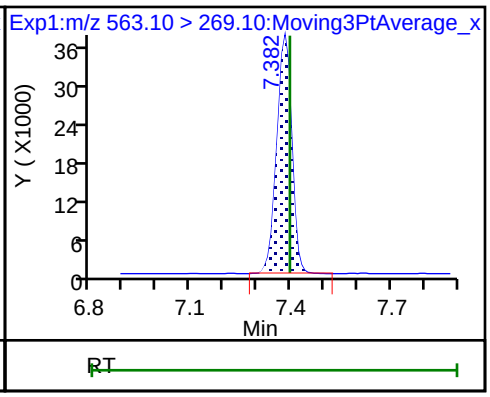
D 59 13C7 PFUnA



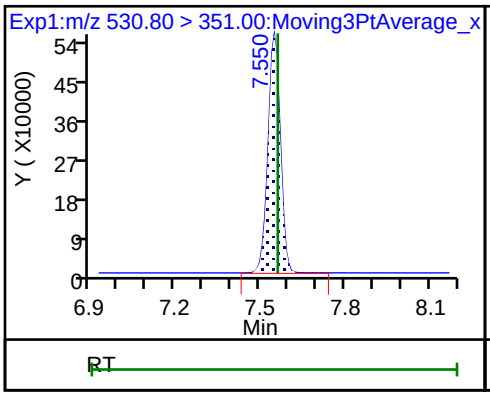
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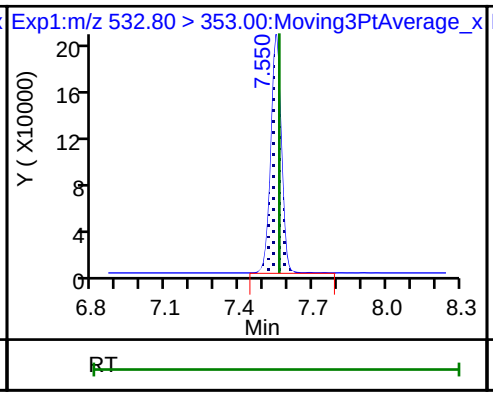
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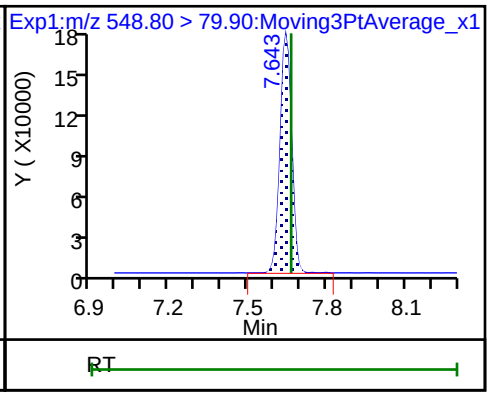
61 9ClFOS



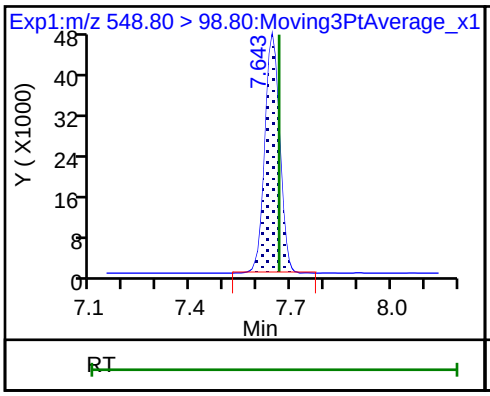
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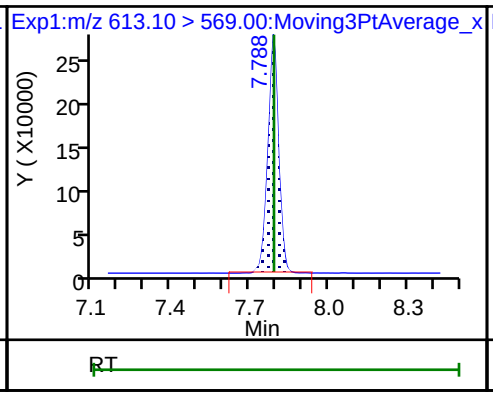
62 PFNS



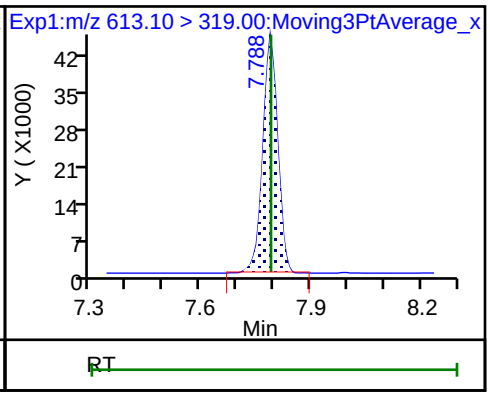
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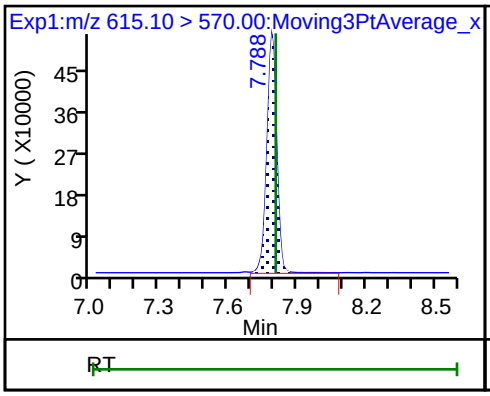
63 PFDoA



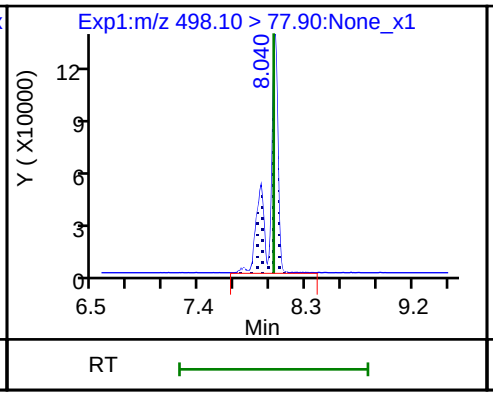
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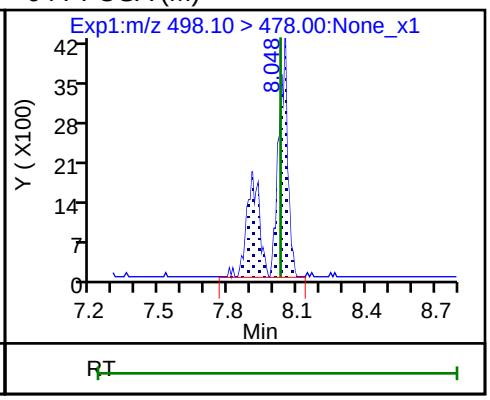
D 81 PFDoA



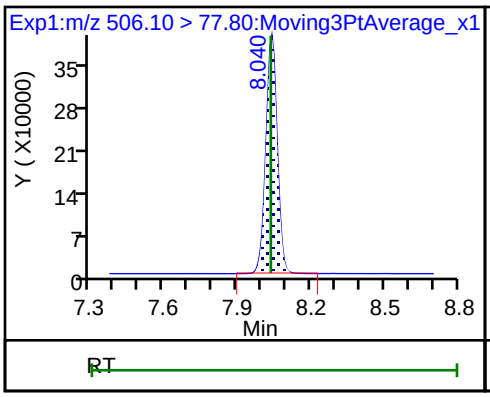
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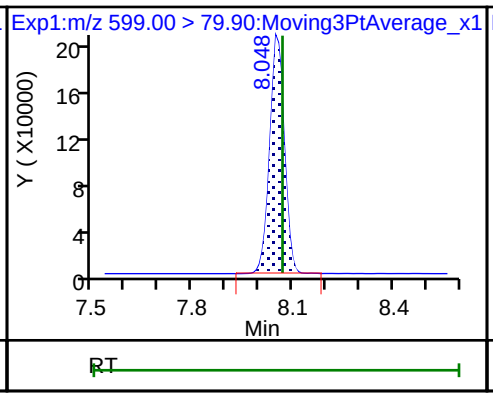
64 PFOSA (M)



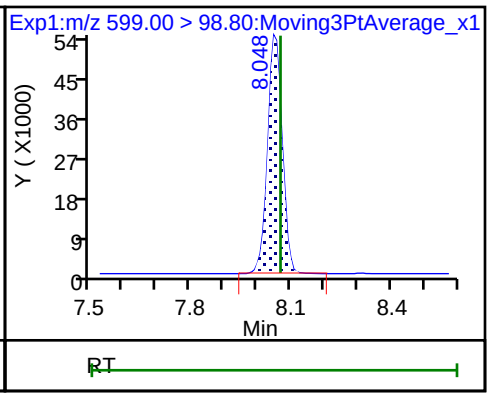
D 65 13C8 FOSA



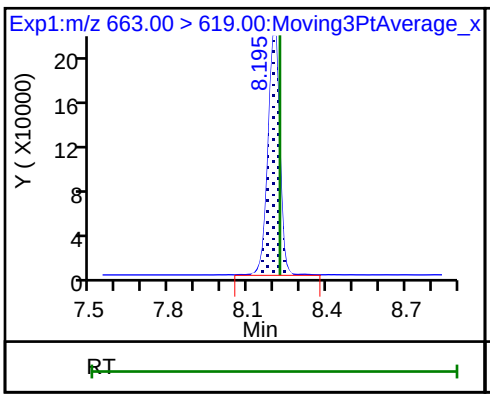
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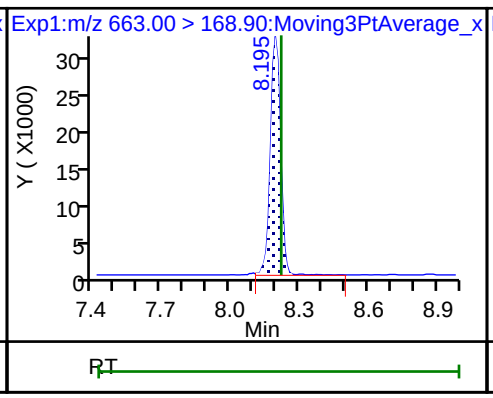
66 PFDS



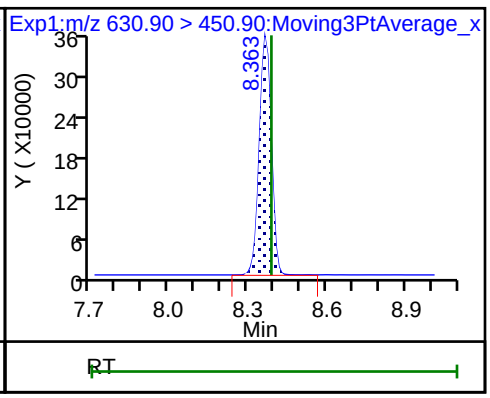
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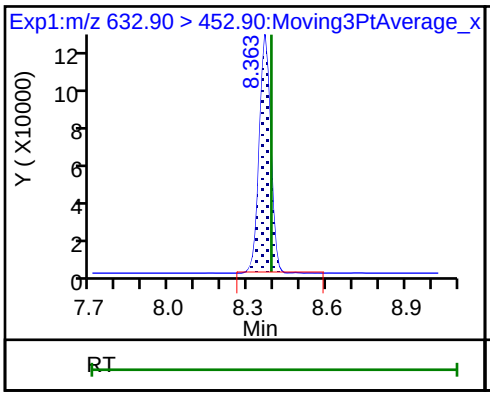
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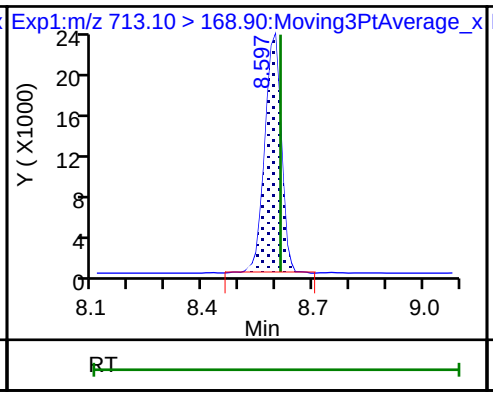
68 11ClFOS



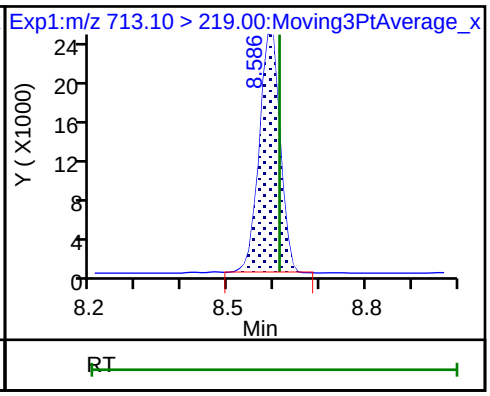
68 11ClFOS



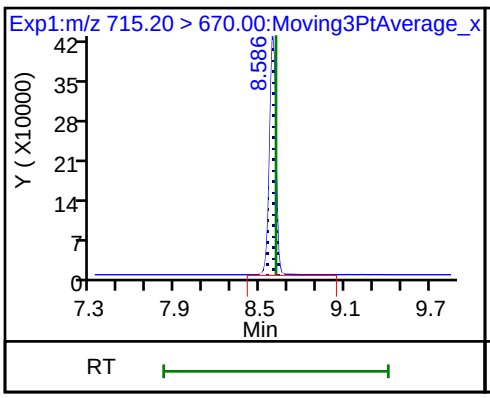
69 PFTeDA



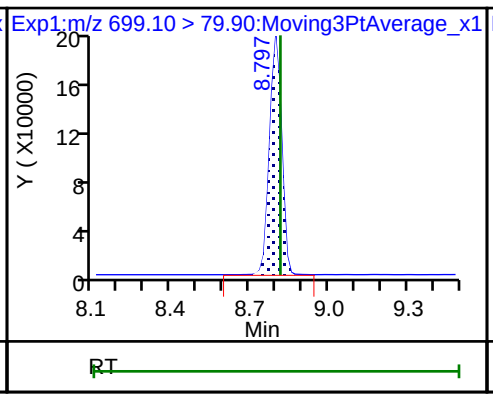
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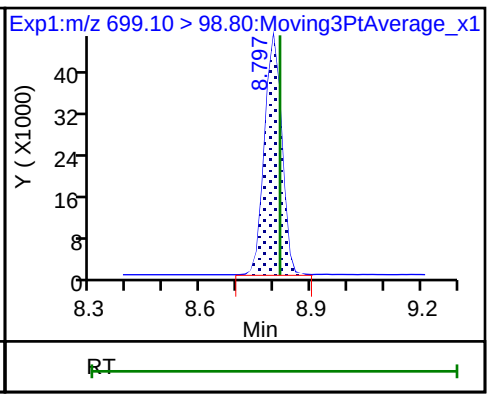
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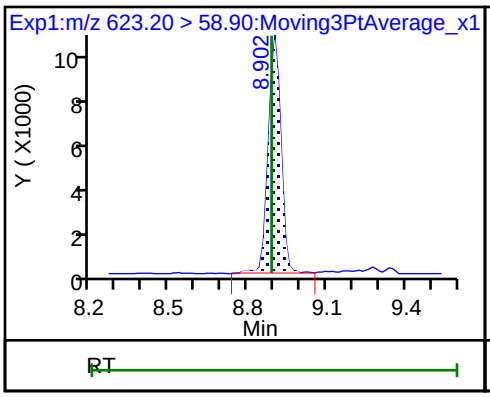
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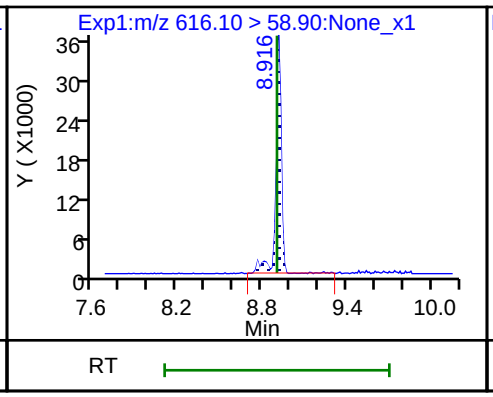
71 PFDoS



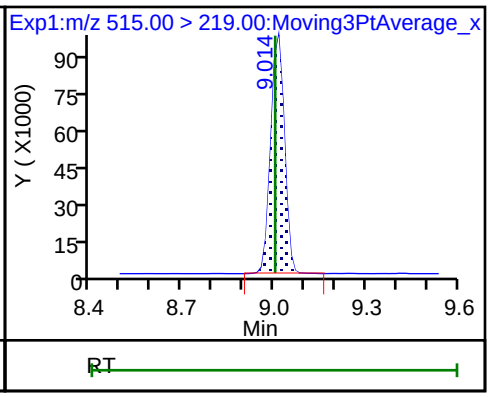
D 72 d7-N-Me-FOSE



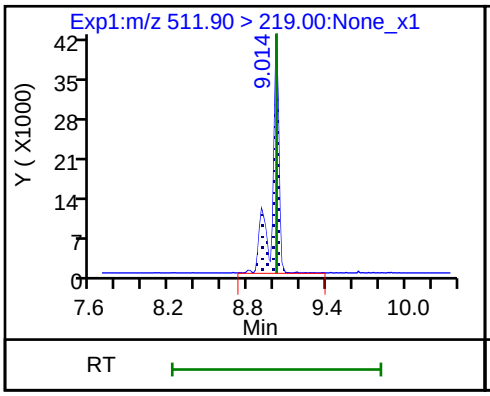
73 N-MeFOSE-M



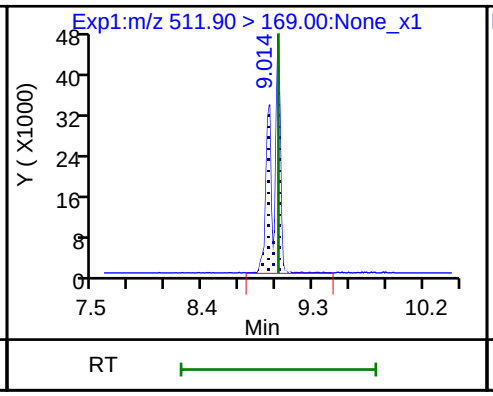
D 75 d3-NMePFOSA



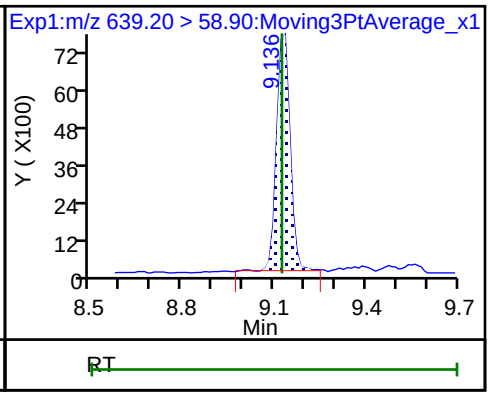
74 NMeFOSA



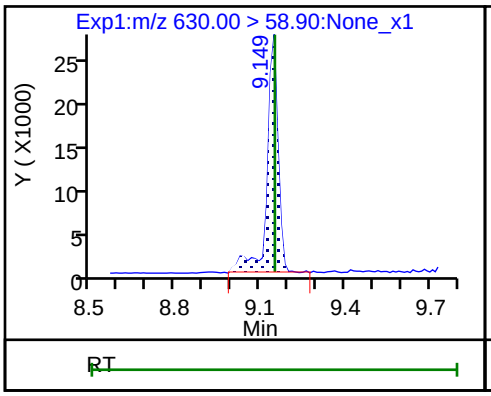
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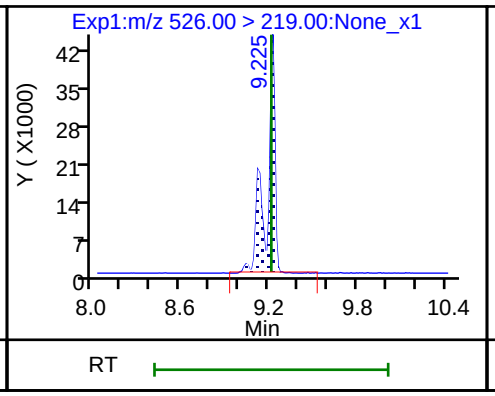
D 76 d9-N-EtFOSE



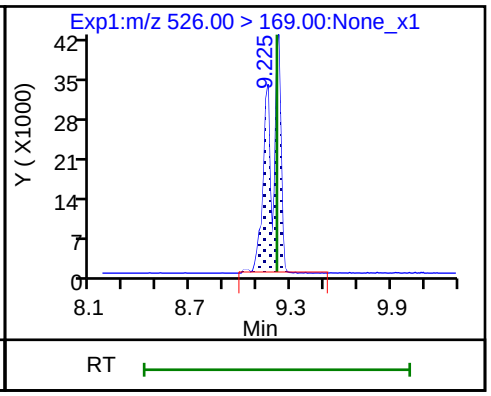
77 N-EtFOSE-M



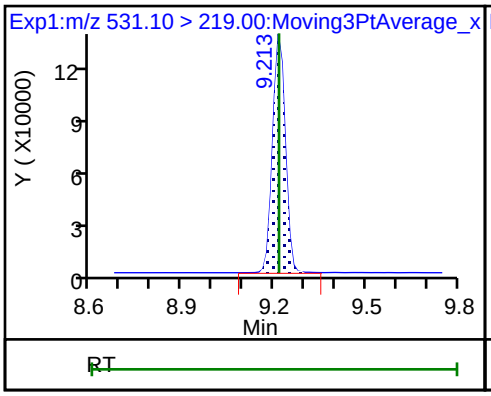
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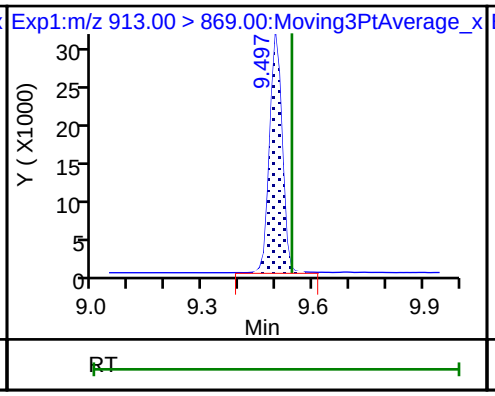
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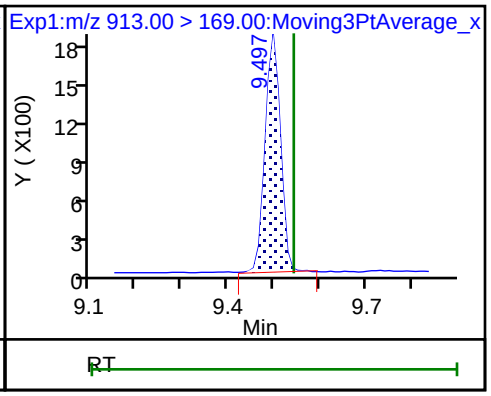
D 78 d5-NEtPFOSA



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

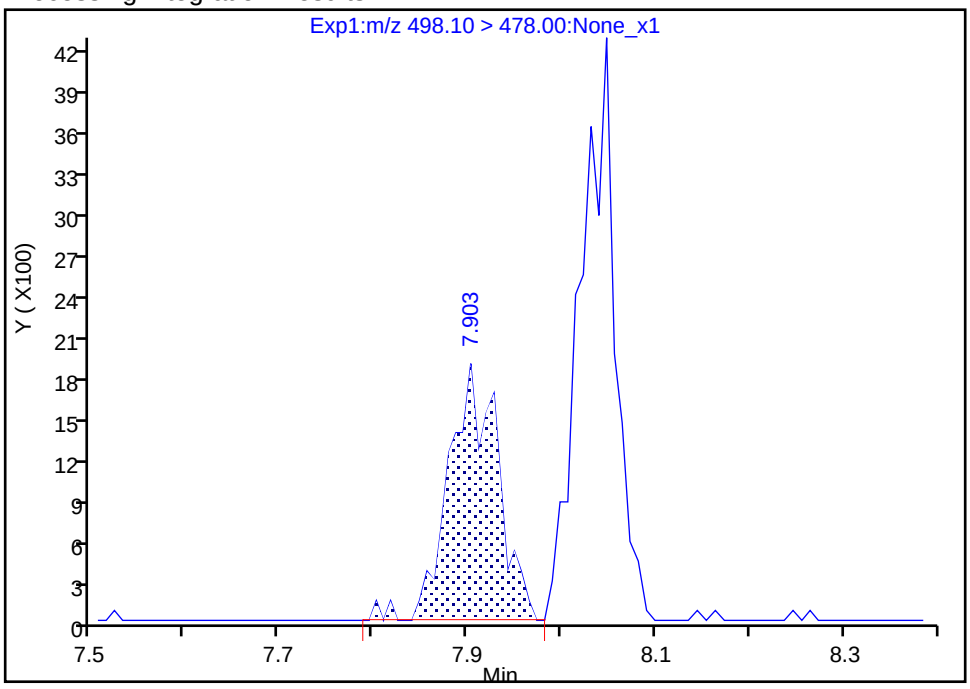
Data File:	\\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-29.d				
Injection Date:	05-Feb-2026 20:18:29	Instrument ID:	30577		
Lims ID:	LCS 410-765112/2-A				
Client ID:					
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	14	Worklist Smp#:	133
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

64 PFOSA, CAS: 754-91-6

Signal: 2

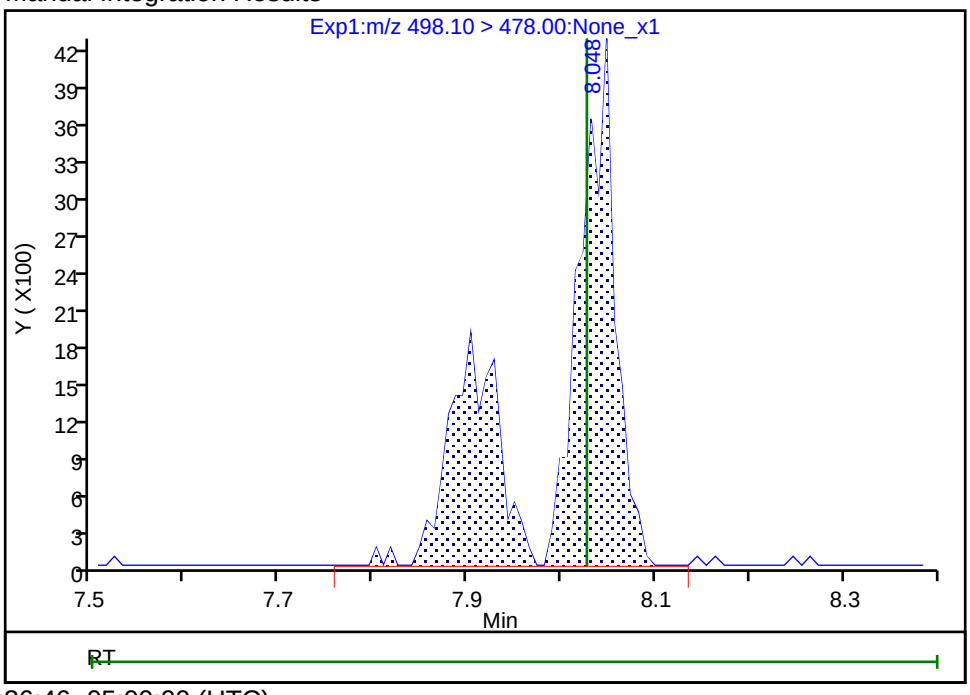
Processing Integration Results

RT: 7.90
Area: 6726
Amount: 0.956956
Amount Units: ng/ml



Manual Integration Results

RT: 8.05
Area: 17685
Amount: 0.956956
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:36:46 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-763508/10-A

Matrix: Water
Lab File ID: 26Feb02n-03.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 125(mL)
Date Analyzed: 02/02/2026 21:57

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	81.56		4.00	1.10
2706-90-3	Perfluoropentanoic acid (PFPeA)	38.96		2.00	0.60
307-24-4	Perfluorohexanoic acid (PFHxA)	37.27		2.00	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	39.55		2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	38.80		2.00	0.90
375-95-1	Perfluorononanoic acid (PFNA)	36.66		2.00	0.50
335-76-2	Perfluorodecanoic acid (PFDA)	38.69		2.00	0.50
2058-94-8	Perfluoroundecanoic acid (PFUnA)	38.90		2.00	0.50
307-55-1	Perfluorododecanoic acid (PFDoA)	37.58		2.00	0.50
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	38.84		2.00	0.50
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	39.92		2.00	0.50
375-73-5	Perfluorobutanesulfonic acid (PFBS)	34.61		2.00	0.50
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	35.18		2.00	0.50
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	31.69		2.00	0.80
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	38.59		2.00	0.50
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36.21		2.00	1.30
68259-12-1	Perfluorononanesulfonic acid (PFNS)	37.58		2.00	0.50
335-77-3	Perfluorodecanesulfonic acid (PFDS)	34.69		2.00	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	25.04		2.00	0.60
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.99		4.00	1.00
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	78.84		4.00	1.00
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	73.08		4.00	1.00
754-91-6	Perfluorooctanesulfonamide (PFOSA)	39.83		2.00	0.50
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	40.04		2.00	0.50
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	41.25		2.00	1.10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-763508/10-A

Matrix: Water
Lab File ID: 26Feb02n-03.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 125(mL)
Date Analyzed: 02/02/2026 21:57

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	37.68		2.00	0.50
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	43.20		2.00	0.50
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	199.1		10.0	4.00
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	188.3		10.0	4.00
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	28.34		2.00	1.40
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	36.47		2.00	0.50
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	41.09		2.00	0.50
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	37.73		2.00	0.50
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	37.99		2.00	0.50
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	35.57		2.00	0.50
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	33.21		2.00	0.50
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	36.68		2.00	0.50
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	73.06		4.00	1.00
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	176.5		10.0	2.80
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	157.3		10.0	2.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-763508/10-A

Matrix: Water
Lab File ID: 26Feb02n-03.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 125(mL)
Date Analyzed: 02/02/2026 21:57

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	85.0		5-130
2283397-79-3	13C5 PFPeA	88.3		40-130
2328024-54-8	13C5 PFHxA	88.0		40-130
2328024-55-9	13C4 PFHpA	98.0		40-130
1350614-84-4	13C8 PFOA	89.2		40-130
2283397-80-6	13C9 PFNA	89.1		40-130
2328024-56-0	13C6 PFDA	83.8		40-130
STL02580	13C7 PFUnA	85.7		30-130
STL02116	13C2 PFTeDA	63.0		10-130
2708218-83-9	13C3 PFBS	92.6		40-135
2708218-85-1	13C3 PFHxS	91.2		40-130
2265893-05-6	13C8 PFOS	81.8		40-130
STL01056	13C8 FOSA	67.9		40-130
1400690-70-1	d3-NMeFOSAA	74.9		40-170
1265205-97-7	d5-NEtFOSAA	77.7		25-135
STL02395	13C2 4:2 FTS	93.5		40-200
STL02279	13C2 6:2 FTS	95.7		40-200
STL02280	13C2 8:2 FTS	90.2		40-300
STL02255	13C3 HFPO-DA	98.0		40-130
STL02277	d7-N-MeFOSE-M	40.1		10-130
STL02278	d9-N-EtFOSE-M	35.7		10-130
STL02704	d5-NEtPFOSA	54.8		10-130
STL02705	d3-NMePFOSA	56.8		10-130
960315-52-0	13C2 PFDoA	92.4		10-130

Report Date: 03-Feb-2026 11:39:09 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-03.d
Lims ID: LCSD 410-763508/10-A
Client ID:
Sample Type: LCSD
Inject. Date: 02-Feb-2026 21:57:21 ALS Bottle#: 44 Worklist Smp#: 44
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-763508/10-A
Misc. Info.: Plate: 1 Rack: 1 410-0174324-044
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 03-Feb-2026 11:37:01 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1674

First Level Reviewer: VGQ7 Date: 03-Feb-2026 11:15:32
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.983	1.992	-0.009	0.476	1015969	1.62		81.0	492	
2 Perfluoropropionic acid										
163.00 > 119.00	1.967	2.001	-0.034	0.992	2431335	5.24		105	2401	
5 PFBA										
212.80 > 168.90	4.156	4.161	-0.005	0.998	1199496	2.04		102	3961	
D 3 13C4-PFBA										
216.80 > 171.90	4.164	4.161	0.003	1.000	1286713	1.70		85.0	4751	
* 4 13C3PFBA										
216.00 > 172.00	4.164	4.169	-0.005		1448751	2.00			950	
6 PFMPA										
229.00 > 84.90	4.491	4.496	-0.005	0.931	716279	1.03		103	3484	
7 3:3 FTCA										
241.00 > 177.00	4.501	4.496	0.005	0.933	69191	1.83	Target=1.24	91.3	1481	
241.00 > 117.00	4.501	4.496	0.005	0.933	54872		1.26(0.62-1.86)		476	
D 8 13C5 PFPeA										
268.30 > 223.00	4.826	4.822	0.004	0.913	835380	1.77		88.3	4740	
9 PFPA										
263.00 > 219.00	4.826	4.822	0.004	1.000	756074	0.9741		97.4	1101	
10 PFMBA										
279.00 > 85.10	4.981	4.978	0.003	1.032	836754	0.9433		94.3	3955	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.102	5.099	0.004	0.804	575043	4.38		93.5	2677	
12 4:2FTS										
327.10 > 307.00	5.102	5.099	0.004	1.000	387649	1.90	Target=1.50	101	2626	
327.10 > 80.90	5.102	5.099	0.004	1.000	233933		1.66(0.75-2.24)		567	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.245	5.242	0.003	0.992	272666	0.9498	Target=1.53	95.0	1482	
295.00 > 84.90	5.245	5.242	0.003	0.992	189729		1.44(0.76-2.29)		1335	
17 PFHxA										
313.00 > 269.00	5.286	5.282	0.004	1.000	657781	0.9317	Target=12.38	93.2	1282	
313.00 > 118.90	5.286	5.282	0.004	1.000	54642		12.04(6.19-18.57)		461	
D 15 13C5 PFHxA										
318.00 > 273.00	5.286	5.282	0.004	1.000	1635767	1.76		88.0	4389	
* 16 13C2 PFHxA										
315.10 > 270.00	5.286	5.282	0.004		4069226	5.00			7817	
20 5:3 FTCA										
341.00 > 237.10	5.351	5.347	0.004	1.012	402574	4.41	Target=0.84	88.3	2100	
341.00 > 217.00	5.351	5.347	0.004	1.012	464720		0.87(0.42-1.25)		1327	
D 18 13C3 PFBS										
302.10 > 79.90	5.415	5.410	0.005	0.853	1670516	1.73		92.6	8444	
19 PFBS										
298.70 > 79.90	5.415	5.424	-0.009	1.000	816490	0.8651	Target=3.07	97.4	4524	
298.70 > 98.80	5.415	5.424	-0.009	1.000	256939		3.18(1.54-4.61)		764	
25 FBSA										
297.90 > 78.00	5.402	5.424	-0.022	0.998	813240	0.8610		86.1	1876	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.469	5.464	0.005	1.035	1576349	1.96		98.0	5428	
22 HFPO-DA										
284.90 > 168.90	5.469	5.464	0.005	1.000	556280	0.7085	Target=2.35	94.5	1633	
284.90 > 184.90	5.469	5.464	0.005	1.000	230844		2.41(1.17-3.52)		706	
24 PFEESA										
314.80 > 134.90	5.668	5.665	0.003	1.072	1973853	0.9171	Target=11.61	103	5451	
314.80 > 82.90	5.668	5.665	0.003	1.072	188202		10.49(5.81-17.42)		700	
28 PFHpA										
363.10 > 319.00	5.711	5.707	0.004	1.000	747541	0.9887	Target=2.31	98.9	1385	
363.10 > 169.00	5.711	5.707	0.004	1.000	303151		2.47(1.16-3.47)		1107	
D 26 13C4 PFHpA										
367.10 > 322.00	5.711	5.707	0.004	1.080	1798079	1.96		98.0	4147	
30 ADONA										
376.90 > 250.90	5.861	5.857	0.004	1.072	1711814	0.9116	Target=1.93	96.4	9493	
376.90 > 84.80	5.861	5.857	0.004	1.072	850523		2.01(0.97-2.90)		3511	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.907	5.903	0.004	0.930	492019	4.56		95.7	1918	
32 6:2FTS										
427.10 > 407.00	5.907	5.903	0.004	1.000	337548	1.97	Target=1.49	104	198	
427.10 > 80.90	5.907	5.903	0.004	1.000	227390		1.48(0.75-2.24)		205	
29 PFPeS										
349.10 > 79.90	5.907	5.903	0.004	0.930	788158	0.8796	Target=3.10	93.6	3437	
349.10 > 98.90	5.907	5.903	0.004	0.930	236019		3.34(1.55-4.65)		750	
33 BTS										
280.00 > 147.00	6.067	6.063	0.004	0.956	1964352	0.9383		94.3	7470	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.121	6.104	0.017	1.000	645789	0.9701	Target=1.86	97.0	816	
413.00 > 169.00	6.121	6.104	0.017	1.000	338106		1.91(0.93-2.79)		276	
* 35 13C4 PFOA										
417.10 > 372.00	6.121	6.117	0.004		5858567	5.00			13339	
D 34 13C8 PFOA										
421.10 > 376.00	6.121	6.117	0.004	1.000	2092154	1.78		89.2	5529	
39 7:3 FTCA										
441.00 > 316.90	6.173	6.182	-0.009	1.168	184779	3.93	Target=0.34	78.7	844	
441.00 > 336.90	6.173	6.182	-0.009	1.168	564867		0.33(0.17-0.51)		2361	
40 PFHxS										
398.70 > 79.90	6.348	6.345	0.003	1.000	550762	0.7922	Target=3.30	86.9	656	
398.70 > 98.90	6.348	6.345	0.003	1.000	168778		3.26(1.65-4.96)		379	
D 38 13C3 PFHxS										
402.10 > 79.90	6.348	6.345	0.003	1.000	1526929	1.73		91.2	7648	
* 37 18O2 PFHxS										
403.00 > 83.90	6.348	6.345	0.003		1630621	1.90			7805	
* 42 13C5 PFNA										
468.00 > 423.00	6.530	6.525	0.005		2076735	2.00			8283	
D 41 13C9 PFNA										
472.10 > 427.00	6.530	6.525	0.005	1.000	1733499	1.78		89.1	4426	
43 PFNA										
463.00 > 419.00	6.530	6.525	0.005	1.000	768175	0.9165	Target=2.61	91.7	893	
463.00 > 219.00	6.530	6.525	0.005	1.000	306214		2.51(1.31-3.92)		392	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.710	6.707	0.003	1.057	446009	4.33		90.2	1575	
46 8:2FTS										
527.10 > 507.00	6.710	6.707	0.003	1.000	226418	1.83	Target=1.36	95.2	892	
527.10 > 80.80	6.710	6.707	0.003	1.000	175694		1.29(0.68-2.04)		713	
44 PFECHS										
461.00 > 381.00	6.746	6.742	0.004	1.063	230837	0.9526	Target=0.26	103	1453	
461.00 > 99.00	6.746	6.742	0.004	1.063	875074		0.26(0.13-0.39)		2187	
47 PFHpS										
449.00 > 79.90	6.782	6.779	0.003	0.940	786524	0.9649	Target=4.06	101	4950	
449.00 > 98.80	6.782	6.779	0.003	0.940	195689		4.02(2.03-6.09)		1204	
48 FHxSA										
397.90 > 78.00	6.820	6.841	-0.021	1.074	967860	0.8672		86.7	2310	
50 NMeFOSAA										
570.10 > 419.00	6.868	6.877	-0.009	1.000	188437	0.9420	Target=1.95	94.2	403	
570.10 > 483.00	6.880	6.877	0.003	1.002	97404		1.93(0.98-2.93)		119	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.868	6.877	-0.009	0.952	864134	3.74		74.9	1495	
D 51 13C6 PFDA										
519.10 > 474.10	6.941	6.938	0.003	1.000	1572230	1.68		83.8	3794	
53 PFDA										
512.90 > 469.00	6.941	6.938	0.003	1.000	488395	0.9672	Target=3.17	96.7	2197	
512.90 > 219.00	6.941	6.938	0.003	1.000	147099		3.32(1.58-4.75)		387	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 52 13C2 PFDA										
515.10 > 470.10	6.941	6.938	0.003		1856687	2.00			4423	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.048	7.057	-0.009	0.977	774953	3.88		77.7	1454	
55 NEtFOSAA										
584.20 > 419.10	7.060	7.057	0.003	1.002	133505	1.08	Target=1.64	108	159	
584.20 > 526.00	7.060	7.057	0.003	1.002	84263		1.58(0.82-2.47)		109	
D 56 13C8 PFOS										
507.10 > 79.90	7.212	7.208	0.004	1.000	1234849	1.57		81.8	1378	
* 57 13C4 PFOS										
502.80 > 79.90	7.212	7.208	0.004		1486725	1.92			8640	
58 PFOS										
498.90 > 79.90	7.212	7.221	-0.009	1.000	825525	0.9054	Target=4.98	97.4	1251	
498.90 > 98.80	7.212	7.221	-0.009	1.000	161234		5.12(2.49-7.47)		442	
60 PFUnA										
563.10 > 519.00	7.358	7.353	0.005	1.000	362188	0.9725	Target=2.89	97.2	941	
563.10 > 269.10	7.358	7.353	0.005	1.000	122338		2.96(1.45-4.34)		835	
D 59 13C7 PFUnA										
570.00 > 525.10	7.358	7.353	0.005	1.060	1603362	1.71		85.7	3117	
61 9ClFOS										
530.80 > 351.00	7.531	7.540	-0.009	1.044	1590900	0.8892	Target=3.11	95.2	8485	
532.80 > 353.00	7.531	7.540	-0.009	1.044	516896		3.08(1.55-4.66)		3904	
62 PFNS										
548.80 > 79.90	7.630	7.637	-0.007	1.058	658794	0.9396	Target=4.37	97.7	2737	
548.80 > 98.80	7.630	7.637	-0.007	1.058	158091		4.17(2.19-6.56)		1449	
63 PFDoA										
613.10 > 569.00	7.782	7.777	0.005	1.000	399211	0.9396	Target=3.23	94.0	2360	
613.10 > 319.00	7.782	7.777	0.005	1.000	119594		3.34(1.61-4.84)		895	
D 82 PFDoA										
615.10 > 570.00	7.782	7.777	0.005	1.121	1218266	1.85		92.4	5206	
65 PFOSA										
498.10 > 77.90	7.957	7.951	0.006	1.000	624051	1.00	Target=44.84	99.6	1155	
498.10 > 478.00	7.957	7.951	0.006	1.000	14074		44.34(22.42-67.27)		9.4	
D 64 13C8 FOSA										
506.10 > 77.80	7.957	7.965	-0.008	1.103	1198949	1.36		67.9	5394	
66 PFDS										
599.00 > 79.90	8.037	8.032	0.005	1.114	644639	0.8673	Target=4.49	90.0	3619	
599.00 > 98.80	8.037	8.032	0.005	1.114	142389		4.53(2.24-6.73)		1555	
67 PFTrDA										
663.00 > 619.00	8.161	8.169	-0.008	0.958	417066	0.9710	Target=4.04	97.1	1945	
663.00 > 168.90	8.161	8.169	-0.008	0.958	87651		4.76(2.02-6.05)		746	
68 11ClFOS										
630.90 > 450.90	8.320	8.329	-0.009	1.154	815564	0.8303	Target=2.75	88.0	5545	
632.90 > 452.90	8.320	8.329	-0.009	1.154	285593		2.86(1.37-4.12)		980	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.515	8.510	0.005	1.227	689425	1.26		63.0	3033	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
70 PFTeDA										
713.10 > 168.90	8.515	8.510	0.005	1.000	51170	1.00	Target=0.87	99.8	122	
713.10 > 219.00	8.515	8.510	0.005	1.000	60445		0.85(0.44-1.31)		504	
73 PFDoS										
699.10 > 79.90	8.700	8.695	0.005	1.206	429303	0.6261	Target=4.76	64.5	2849	
699.10 > 98.80	8.700	8.695	0.005	1.206	87372		4.91(2.38-7.13)		718	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.742	8.738	0.004	1.212	278941	2.00		40.1	175	
72 N-MeFOSE-M										
616.10 > 58.90	8.756	8.752	0.004	1.002	531024	4.98		99.5	961	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.837	8.834	0.003	1.225	283494	1.14		56.8	2521	
75 NMeFOSA										
511.90 > 219.00	8.837	8.834	0.003	1.000	141248	1.00	Target=0.73	100	921	
511.90 > 169.00	8.837	8.834	0.003	1.000	185748		0.76(0.37-1.10)		639	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.930	8.926	0.004	1.238	330010	1.78		35.7	350	
77 N-EtFOSE-M										
630.00 > 58.90	8.943	8.939	0.004	1.001	655409	4.71		94.1	1053	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.995	8.991	0.003	1.247	332533	1.10		54.8	2146	
79 N-EtFOSA-M										
526.00 > 219.00	9.007	9.004	0.003	1.001	168173	1.03	Target=0.85	103	1416	
526.00 > 169.00	9.007	9.004	0.003	1.001	197072		0.85(0.43-1.28)		1113	
80 Perfluorooctadecanoic acid										R
913.00 > 869.00	9.311	9.319	-0.008	1.093	331222	1.59	Target=10.32	159	8662	R
913.00 > 169.00	9.311	9.319	-0.008	1.093	20040		16.53(5.16-15.48)		1045	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

1633_125_IS_V_00579 Amount Added: 50.00 Units: uL

Report Date: 03-Feb-2026 11:39:09 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-03.d

Injection Date: 02-Feb-2026 21:57:21 Instrument ID: 30576

Lims ID: LCSD 410-763508/10-A

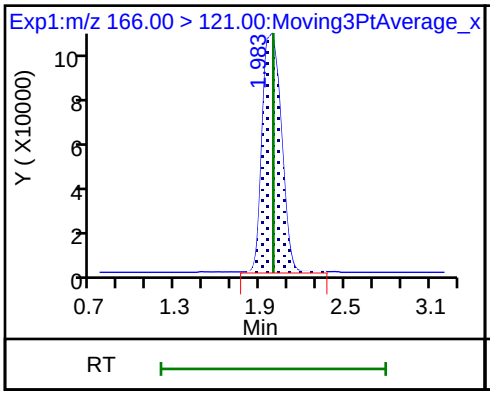
Client ID:

Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 44 Worklist Smp#: 44

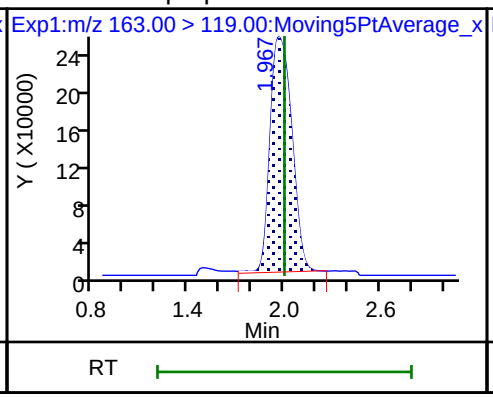
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

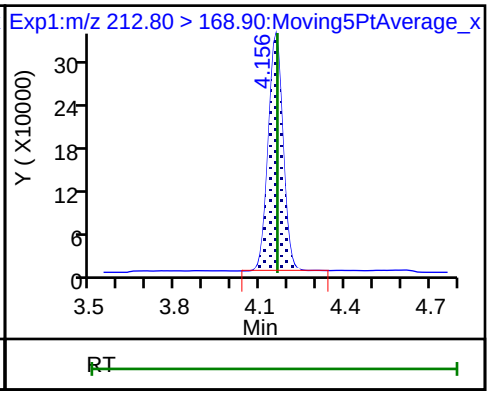
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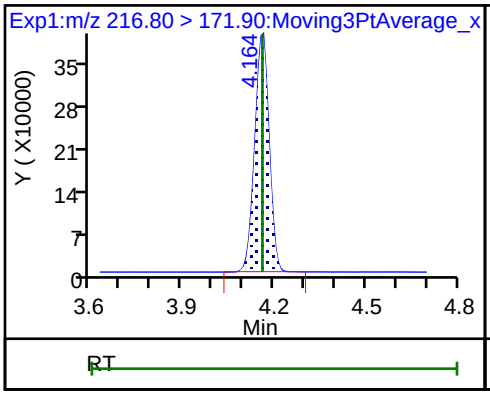
2 Perfluoropropionic acid



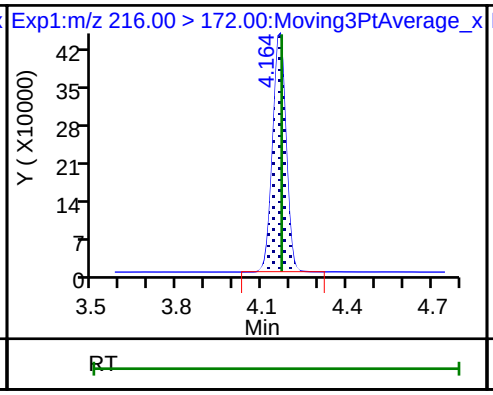
5 PFBA



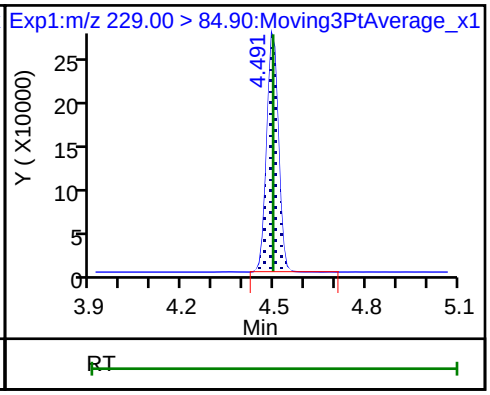
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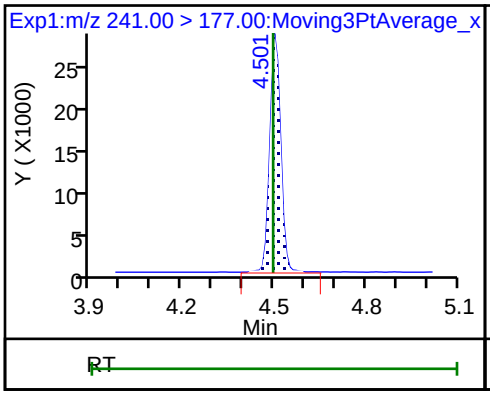
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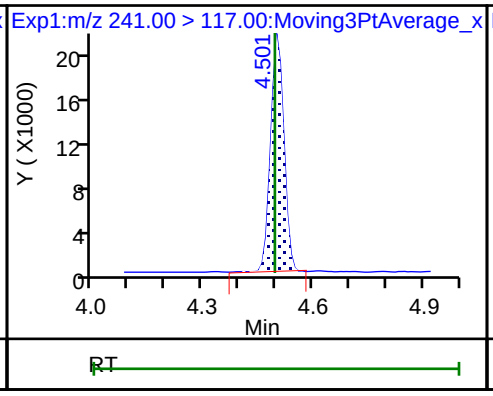
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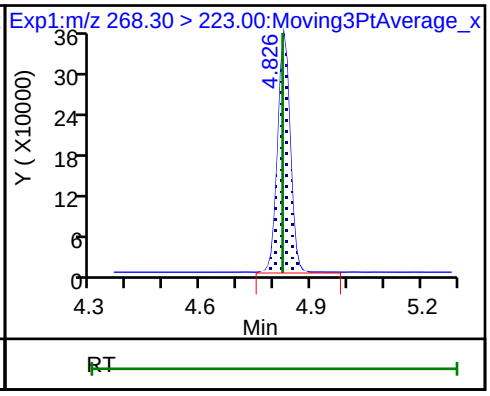
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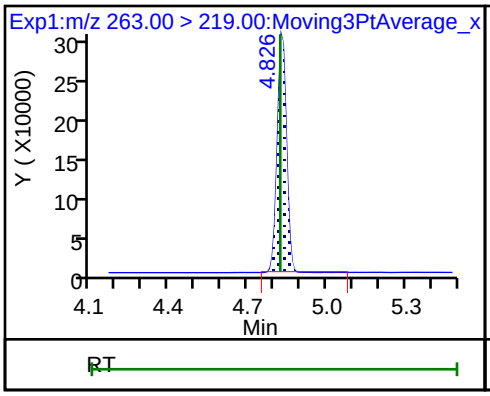
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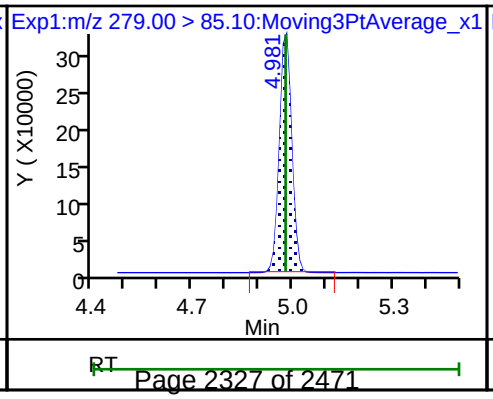
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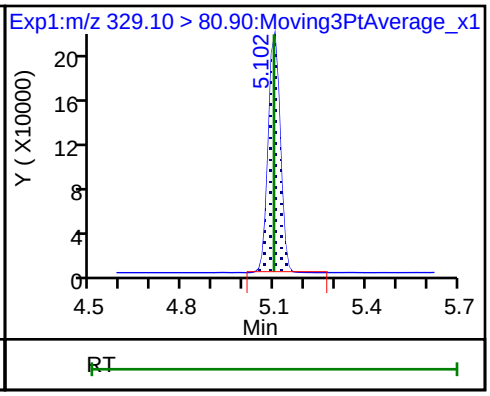
9 PFPA



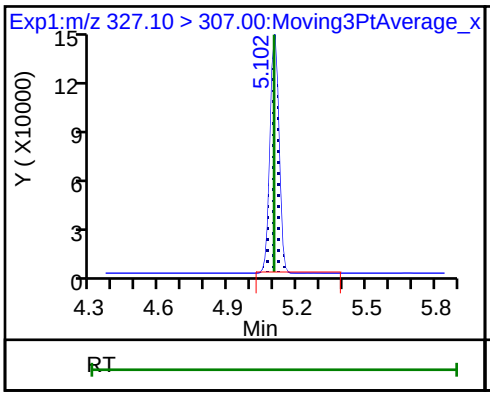
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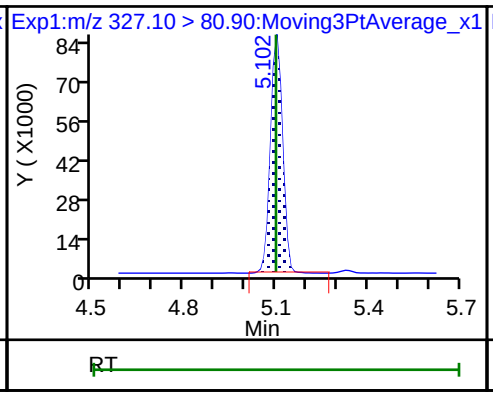
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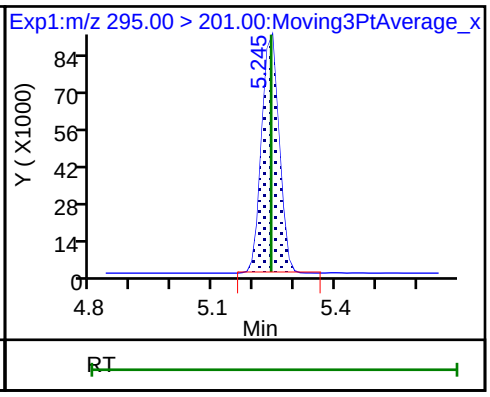
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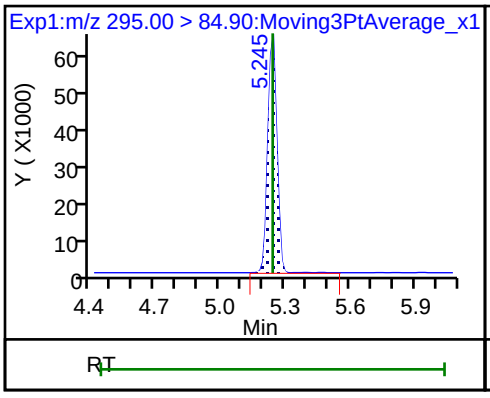
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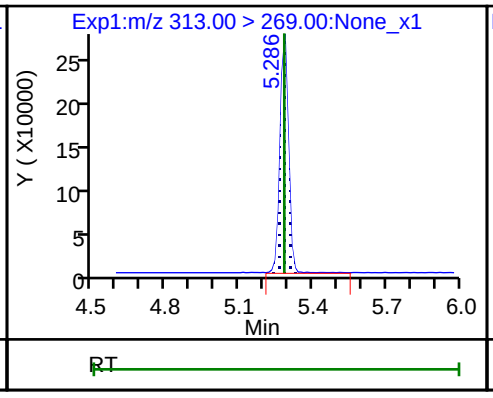
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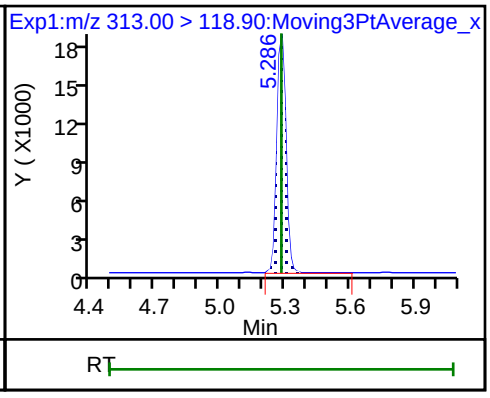
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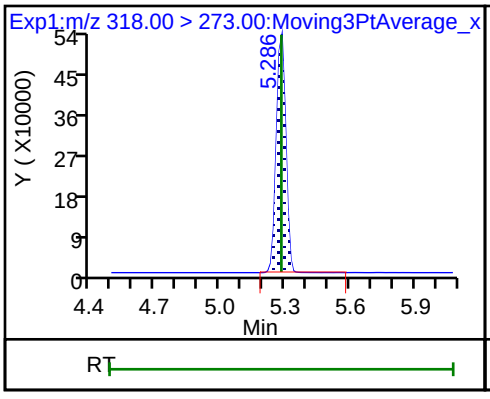
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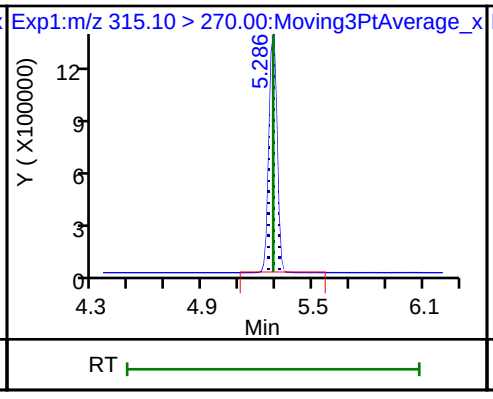
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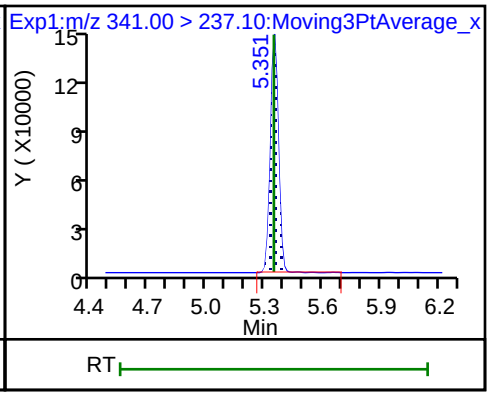
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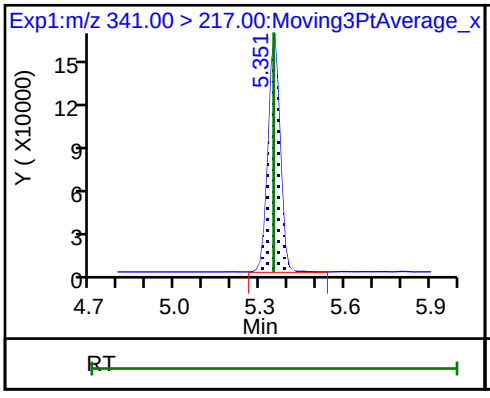
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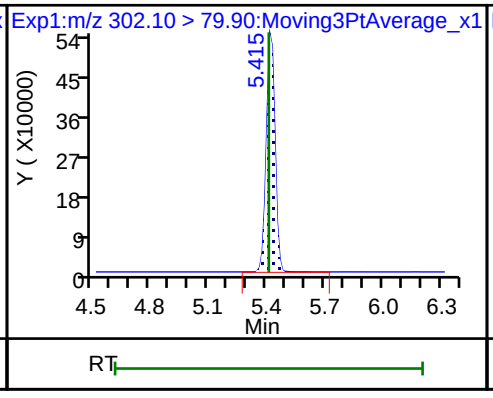
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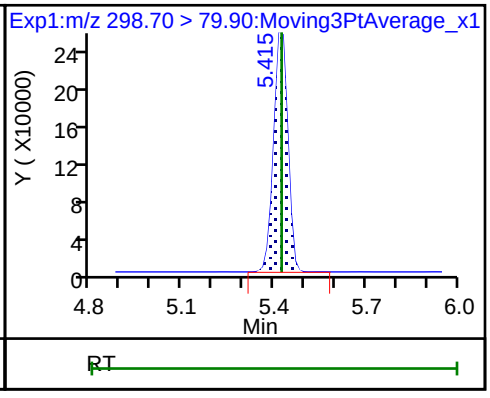
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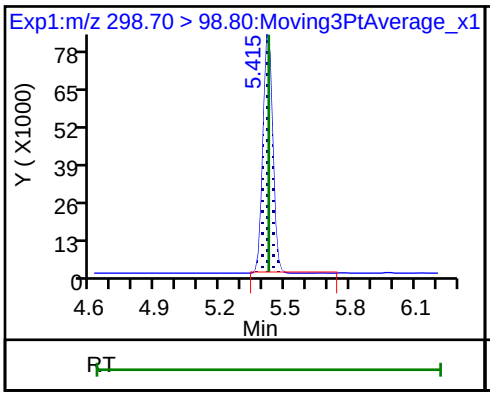
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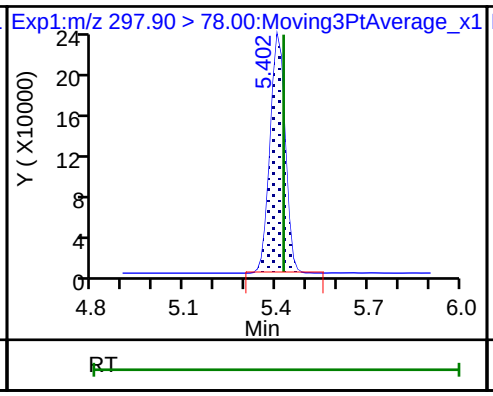
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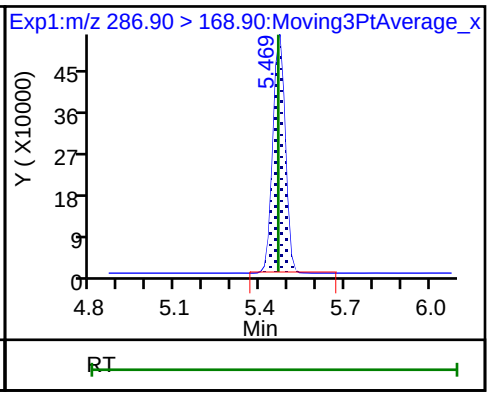
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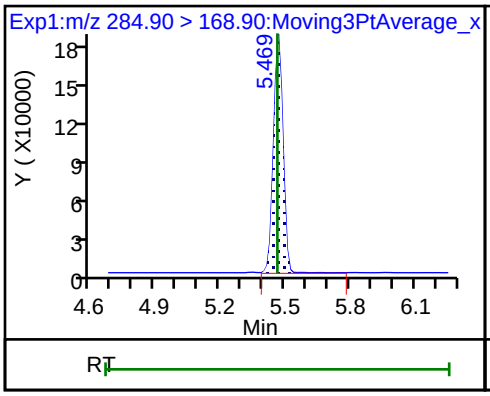
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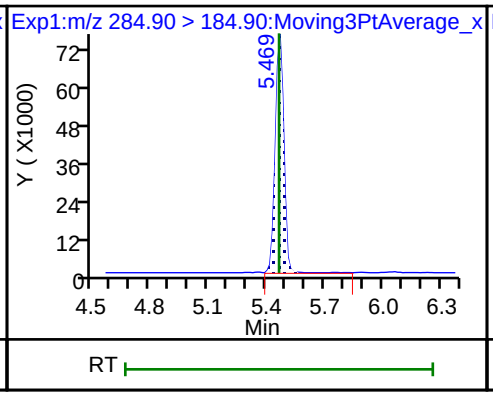
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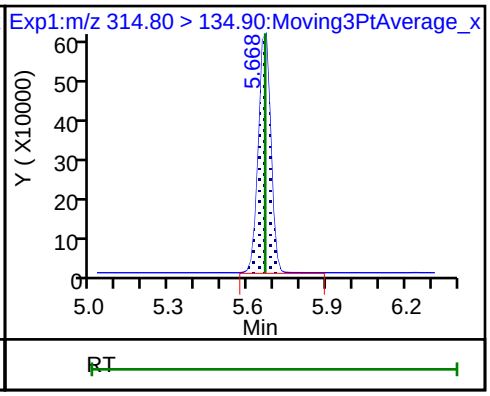
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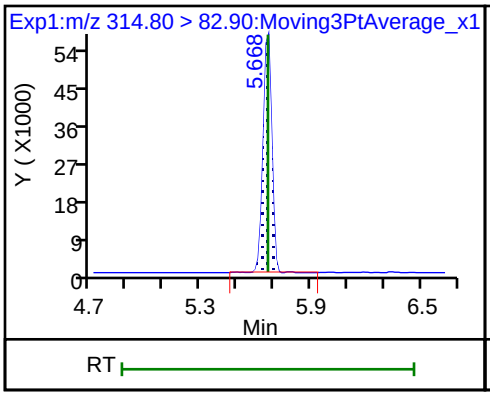
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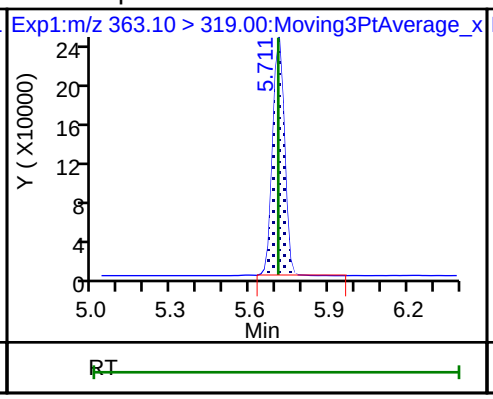
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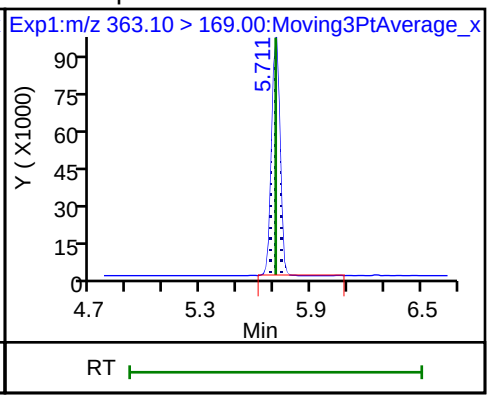
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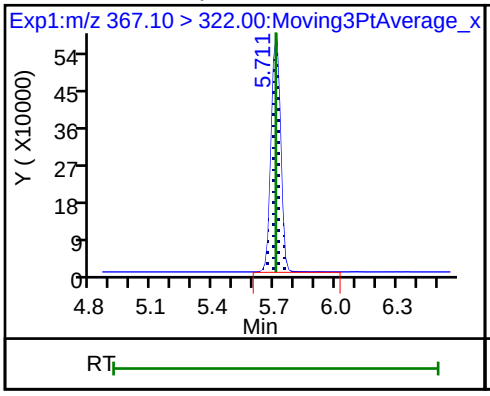
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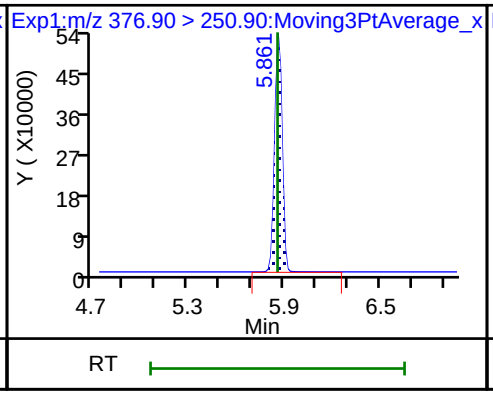
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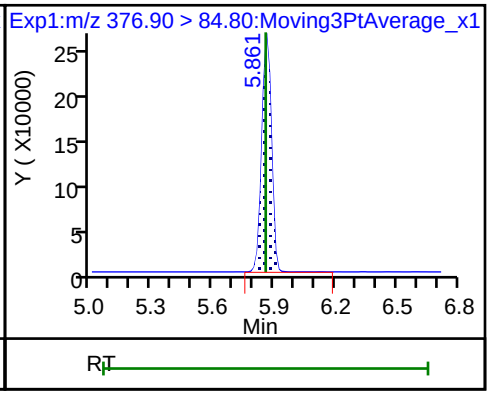
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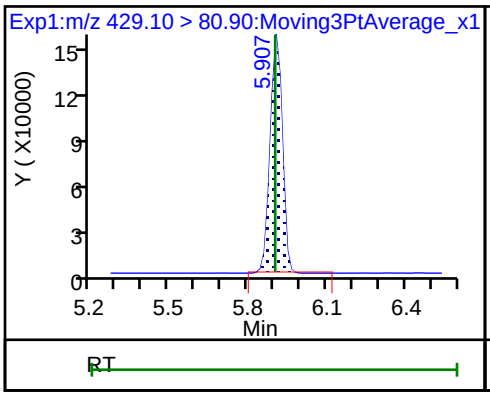
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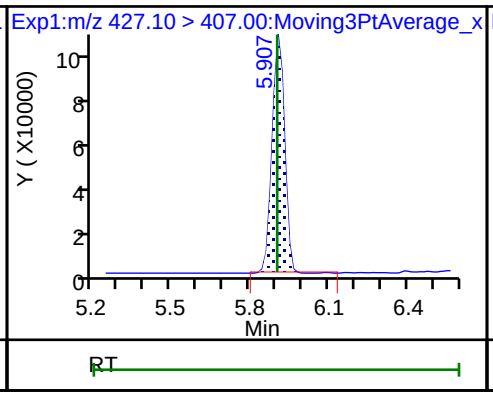
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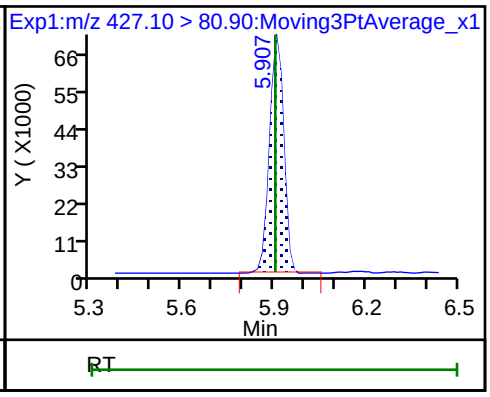
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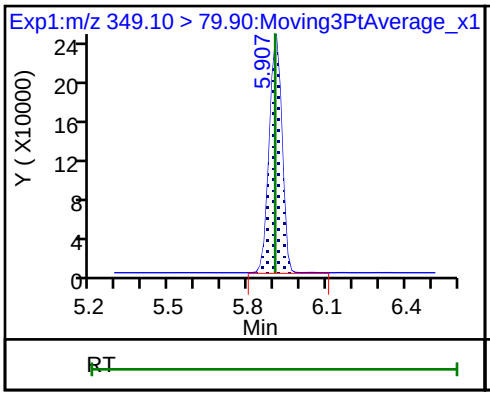
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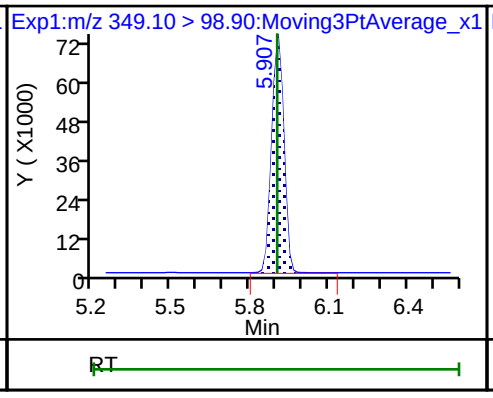
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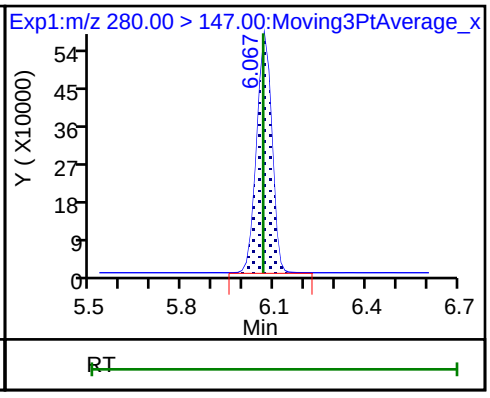
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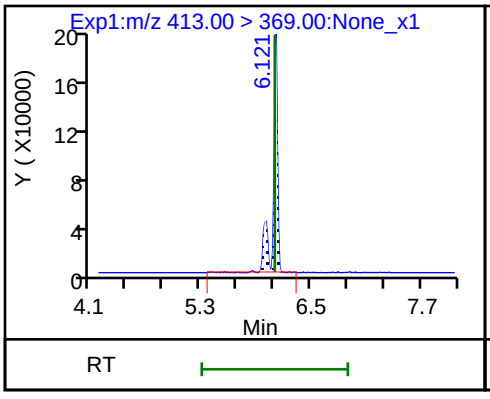
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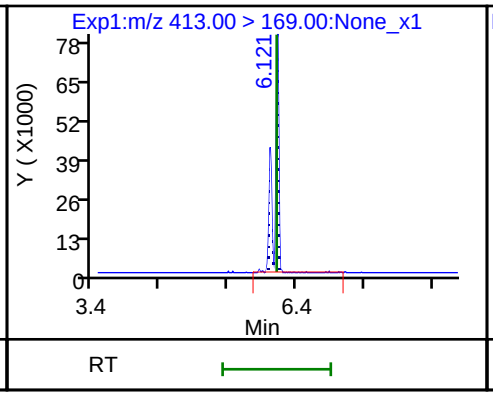
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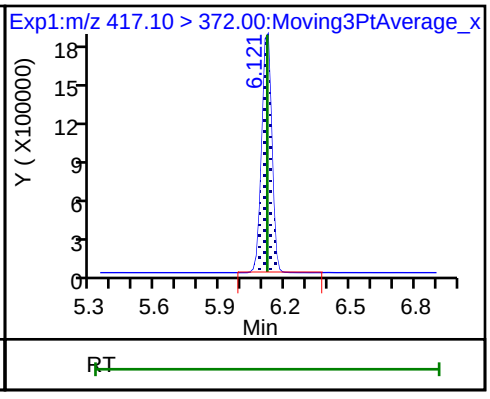
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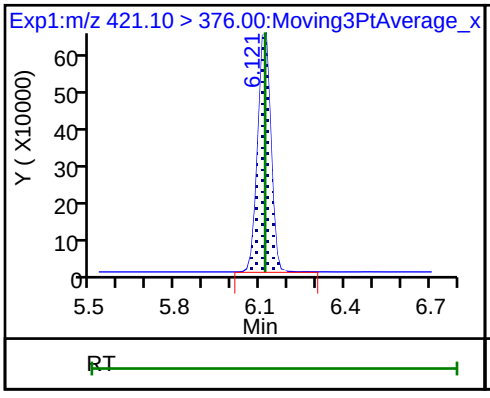
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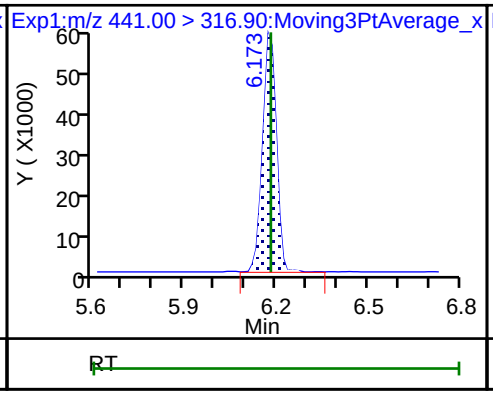
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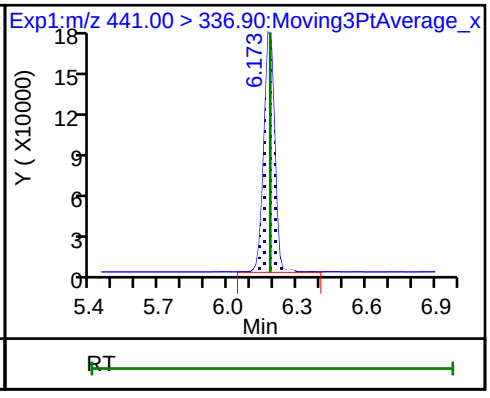
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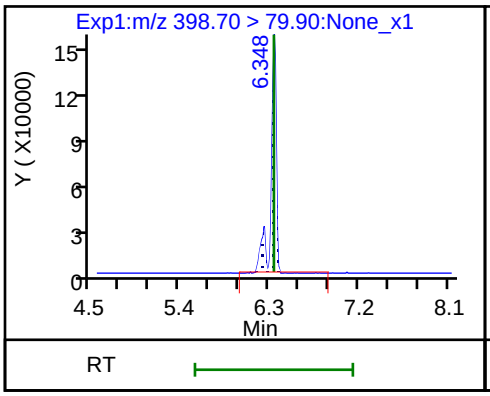
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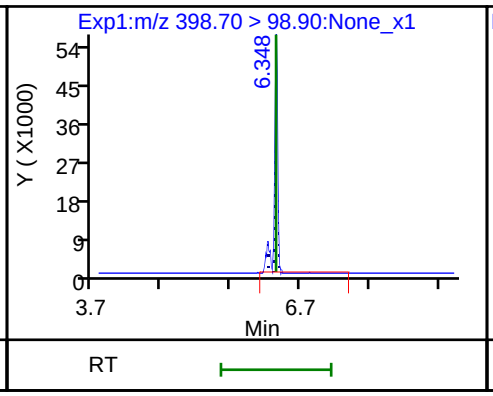
39 7:3 FTCA



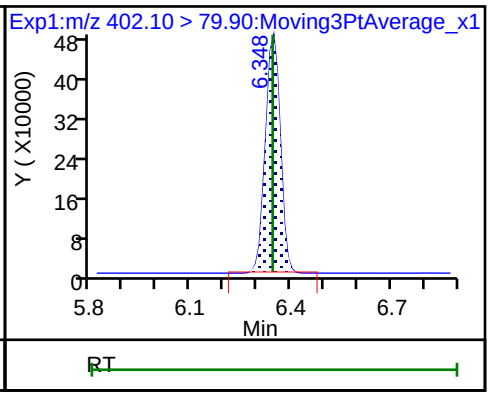
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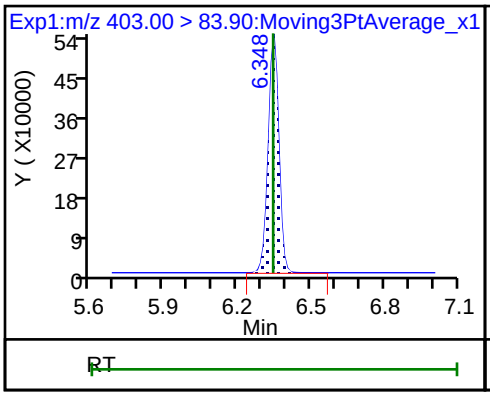
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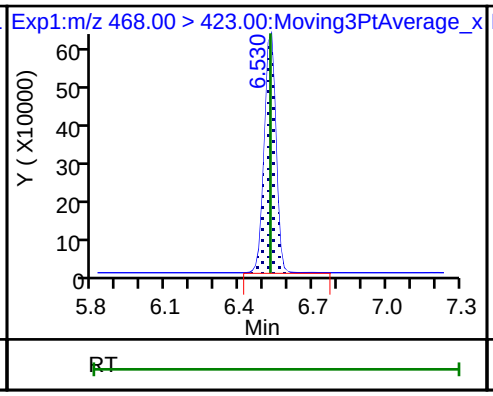
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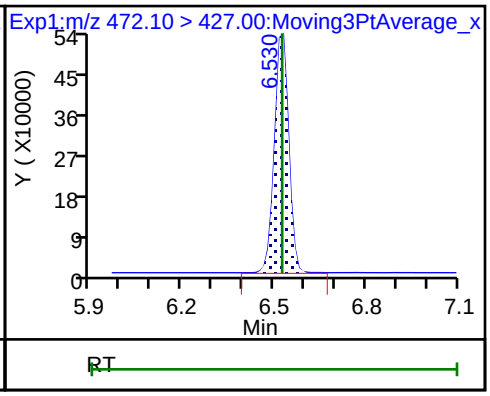
* 37 18O2 PFHxS



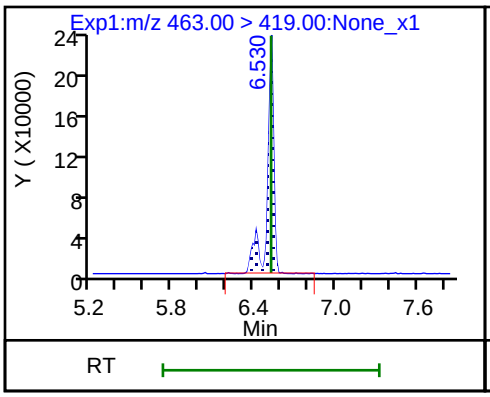
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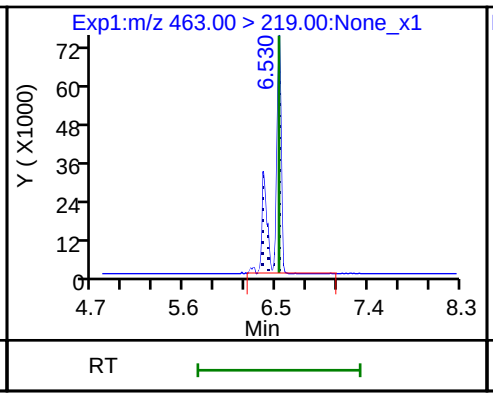
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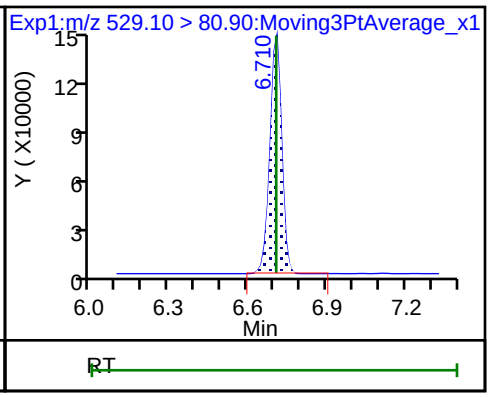
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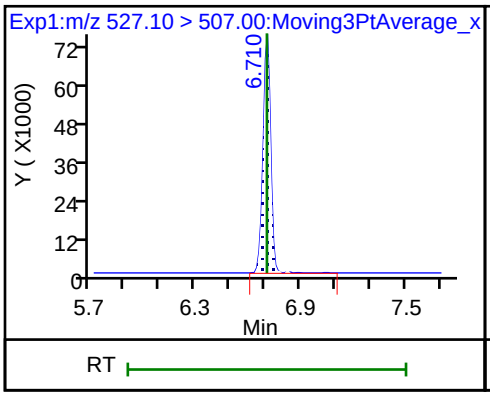
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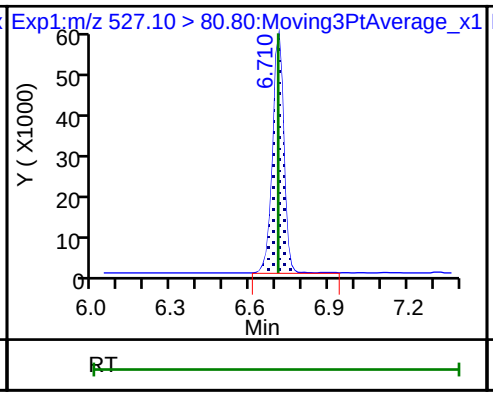
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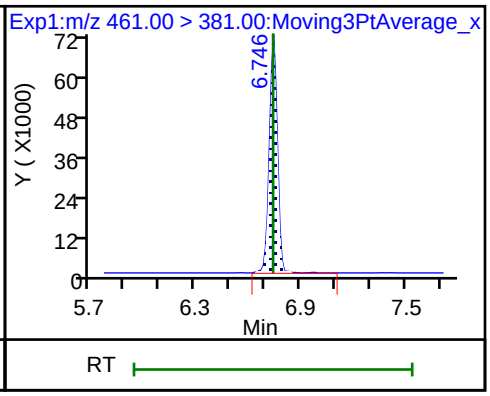
46 8:2FTS



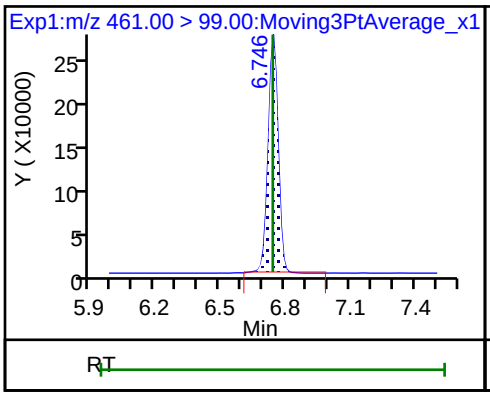
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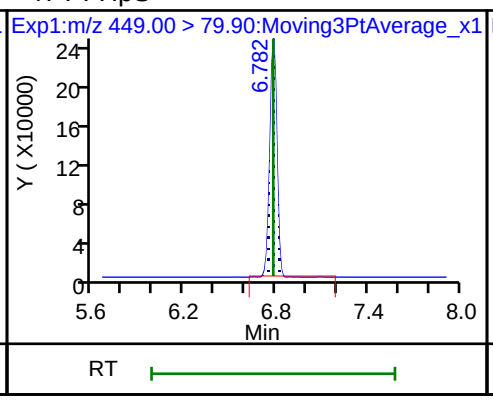
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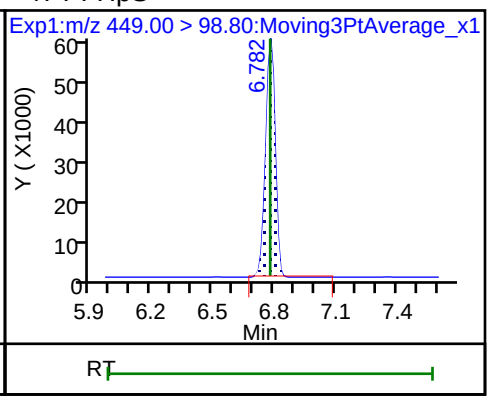
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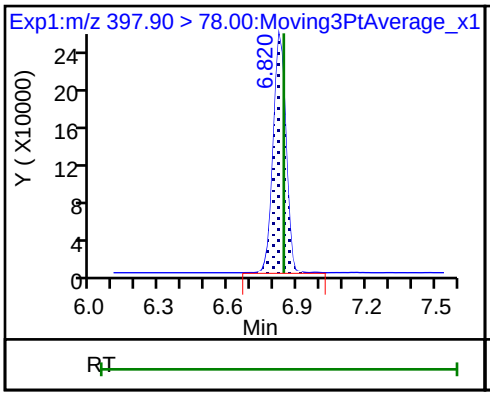
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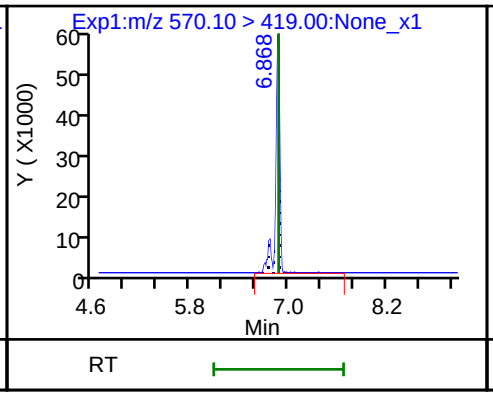
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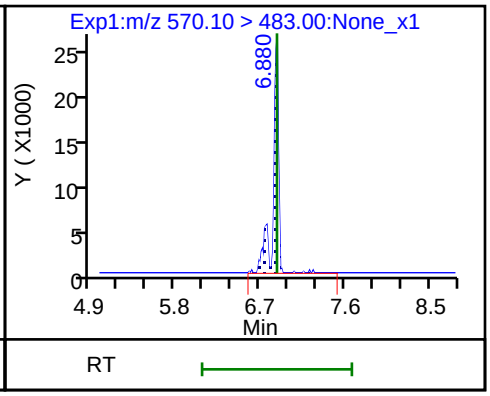
48 FHxSA



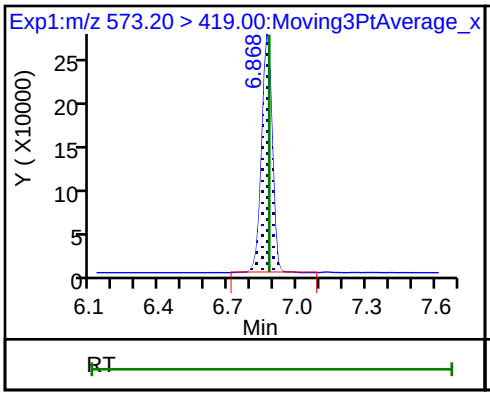
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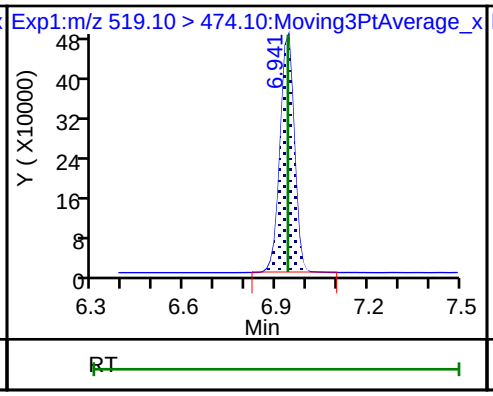
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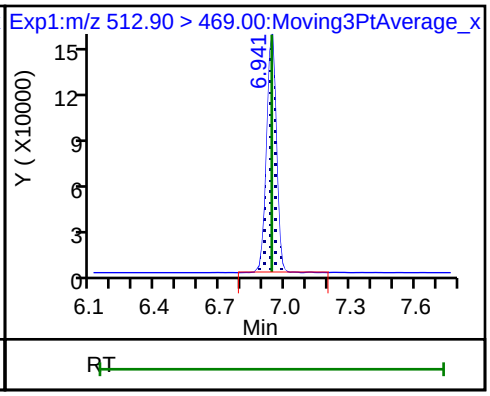
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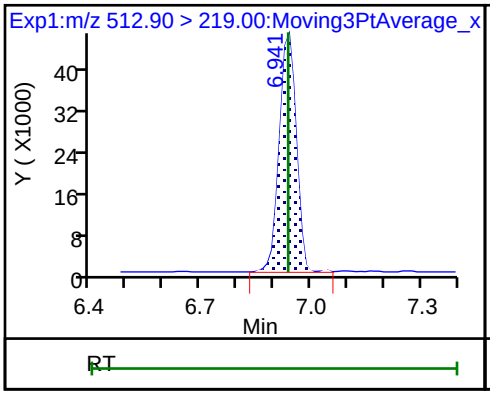
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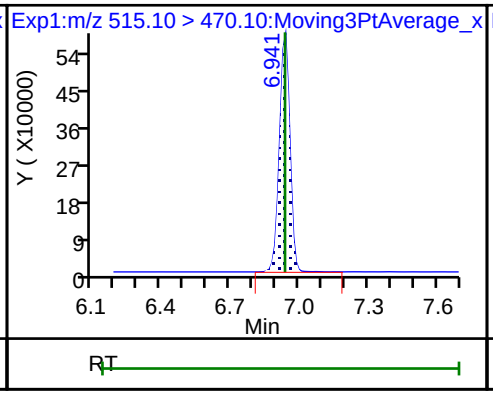
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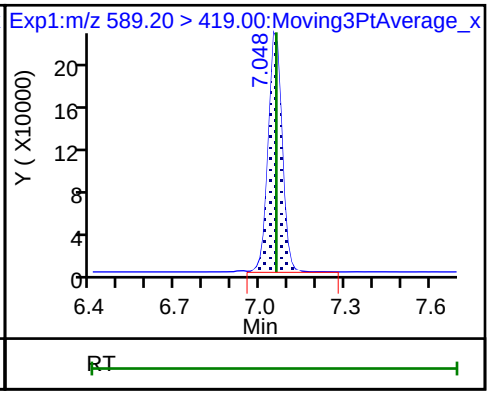
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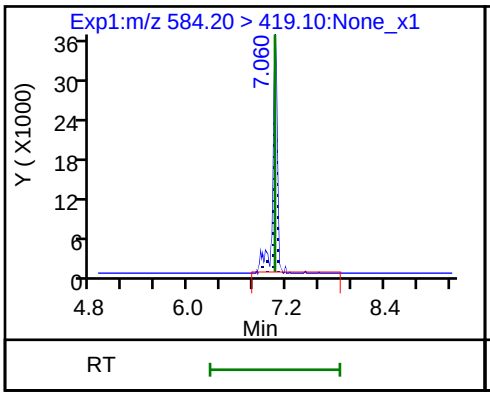
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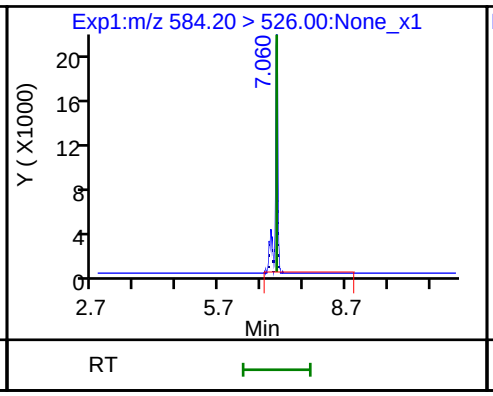
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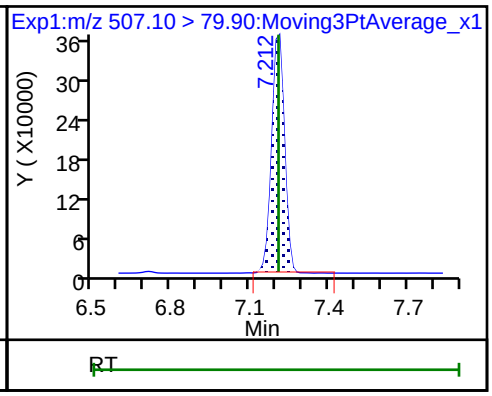
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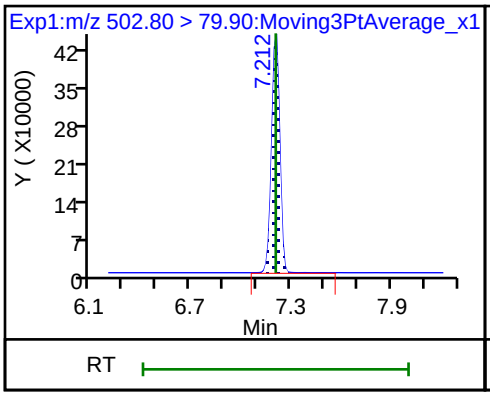
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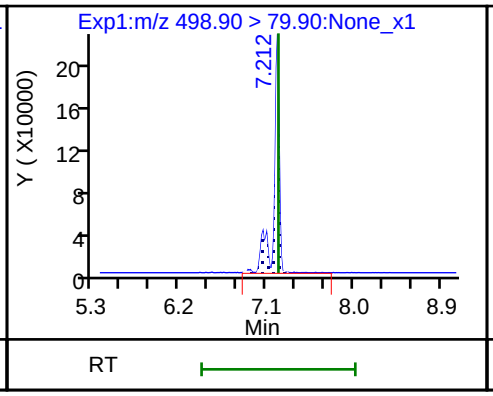
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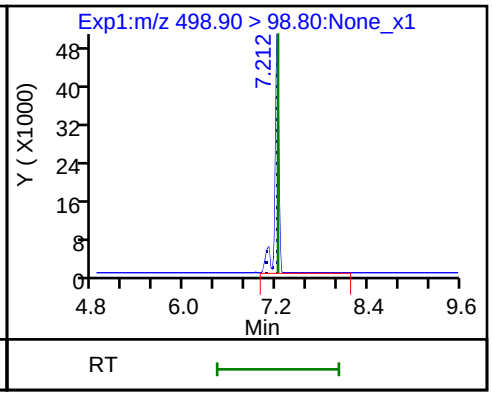
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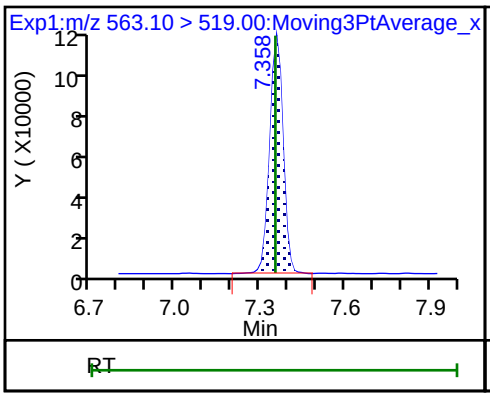
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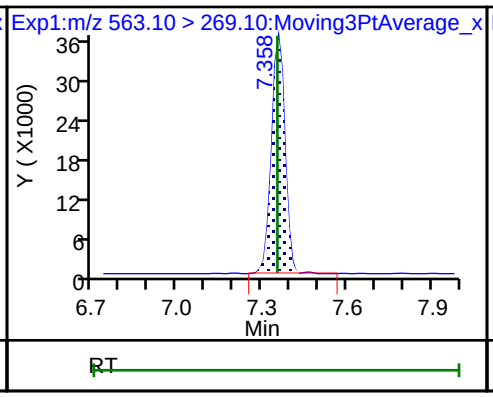
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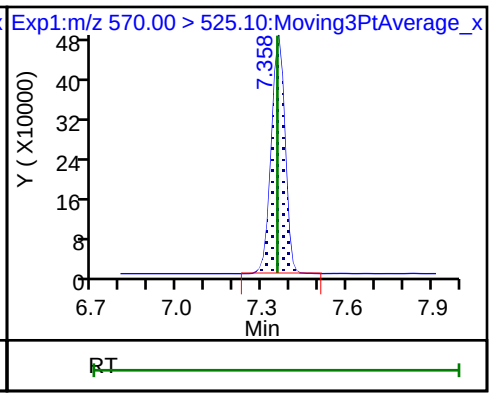
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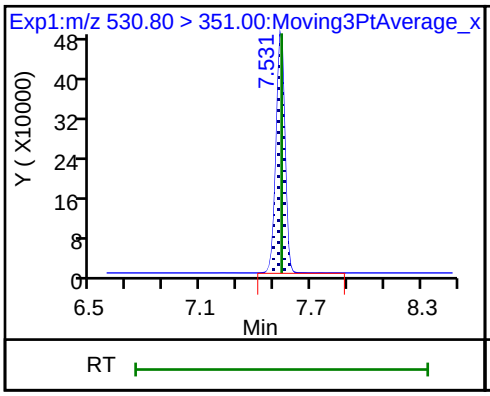
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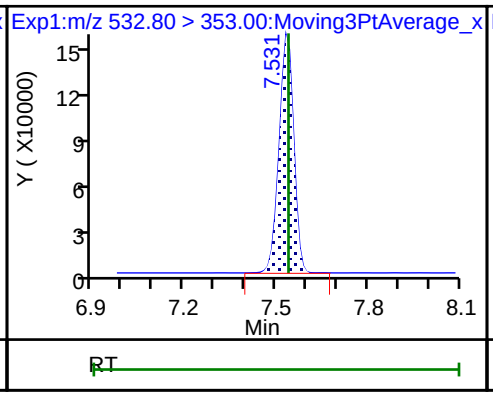
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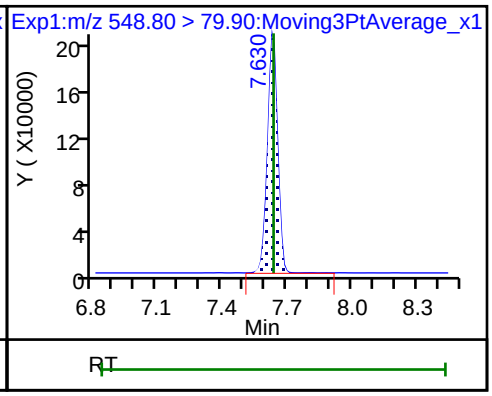
61 9ClFOS



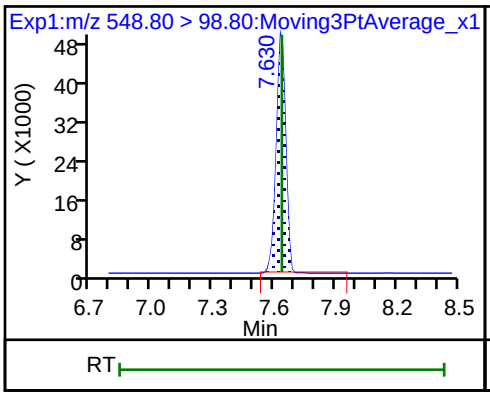
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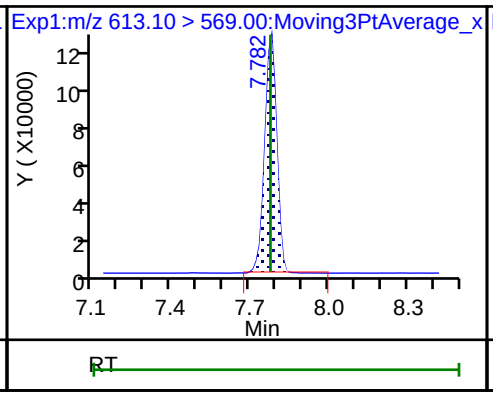
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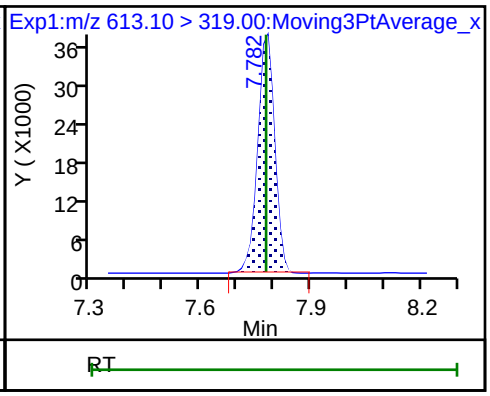
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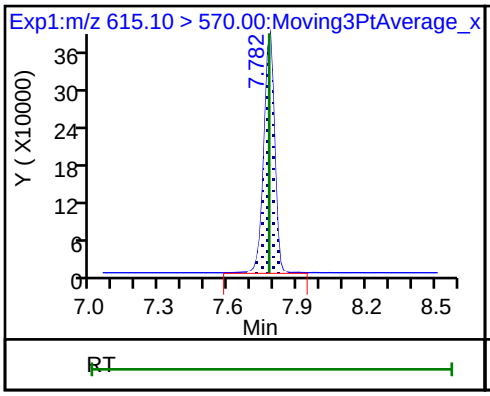
63 PFDoA



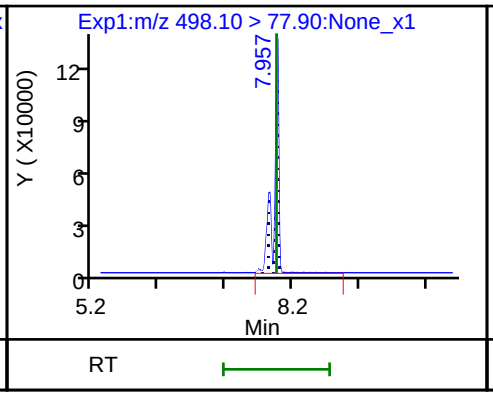
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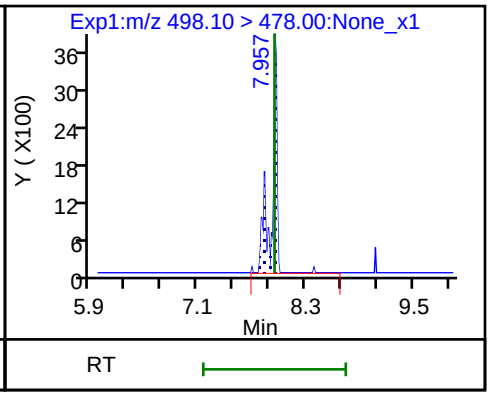
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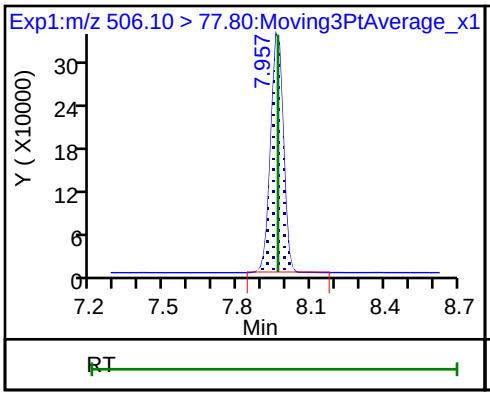
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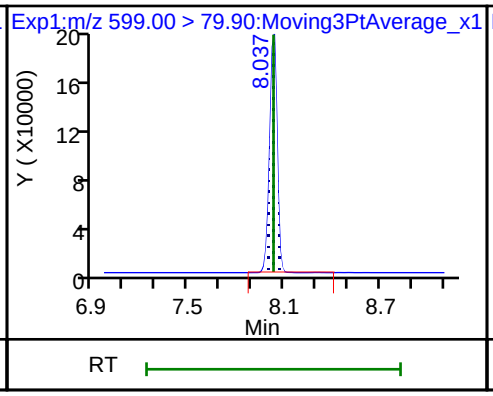
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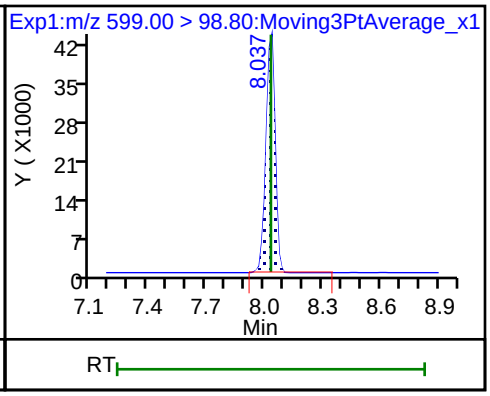
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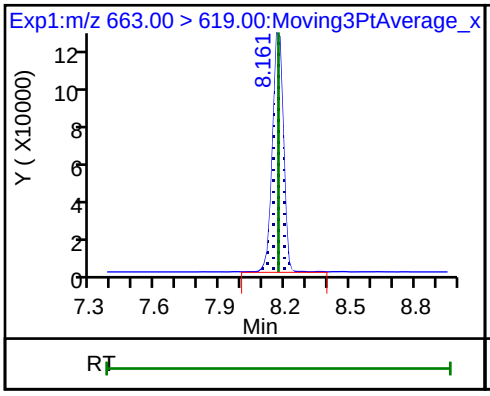
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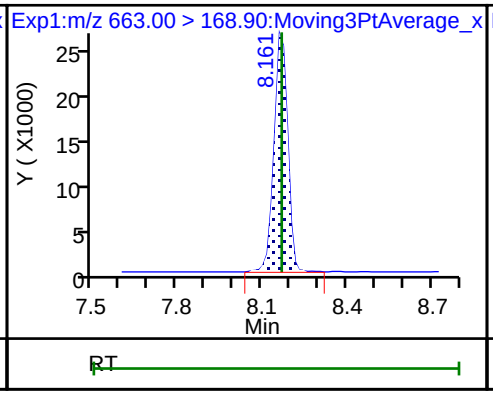
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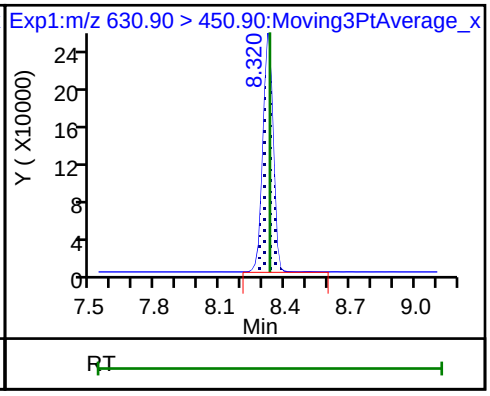
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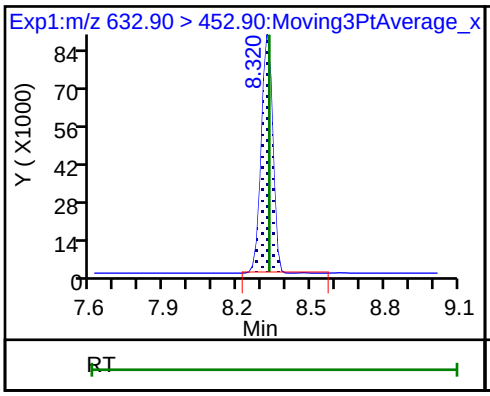
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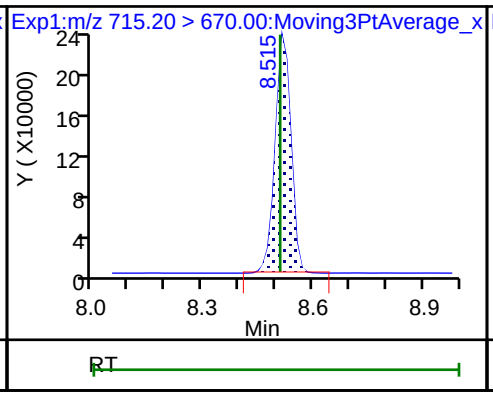
68 11ClFOS



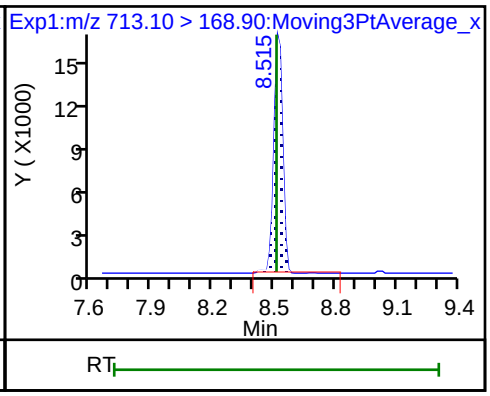
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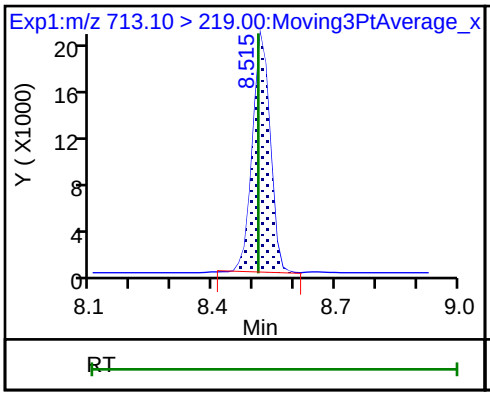
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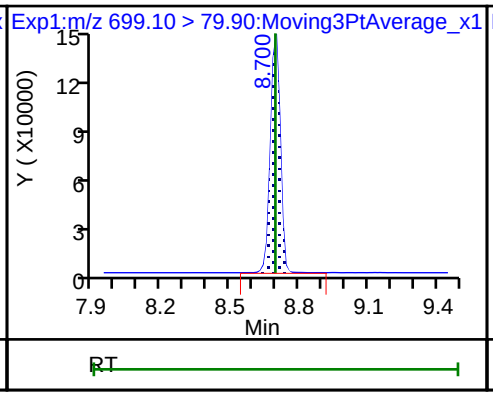
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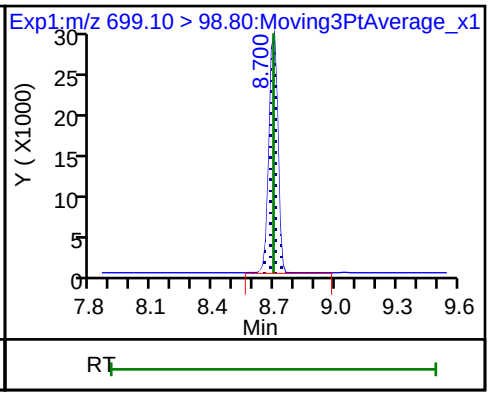
70 PFTeDA



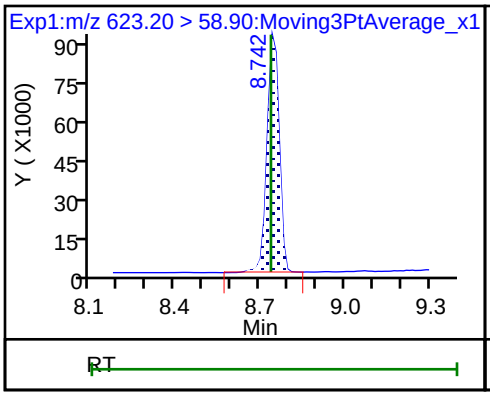
73 PFDoS



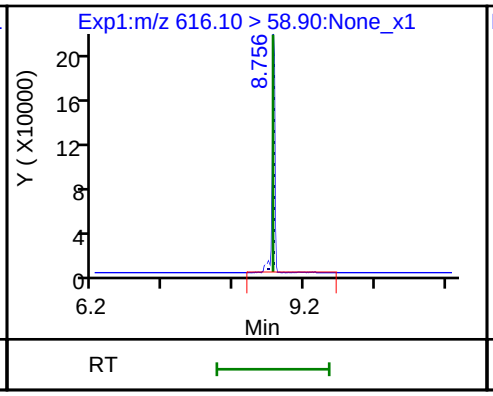
73 PFDoS



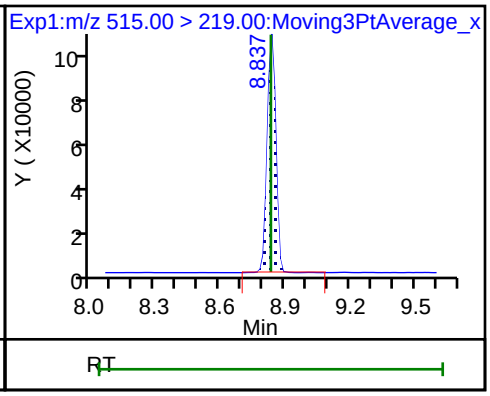
D 71 d7-N-Me-FOSE



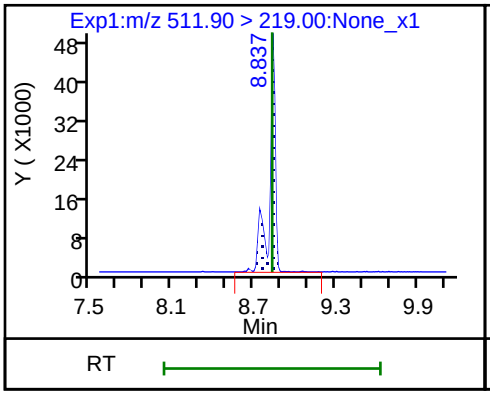
72 N-MeFOSE-M



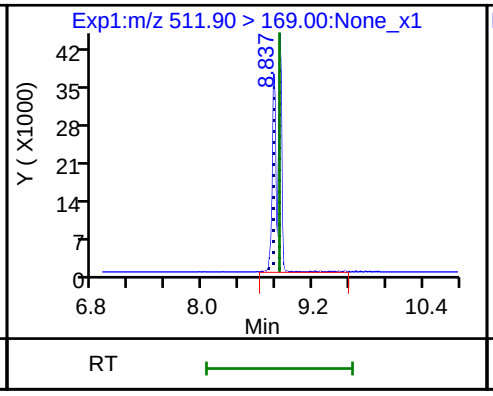
D 74 d3-NMePFOSA



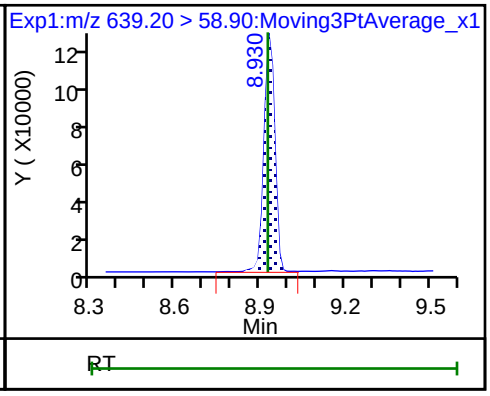
75 NMeFOSA



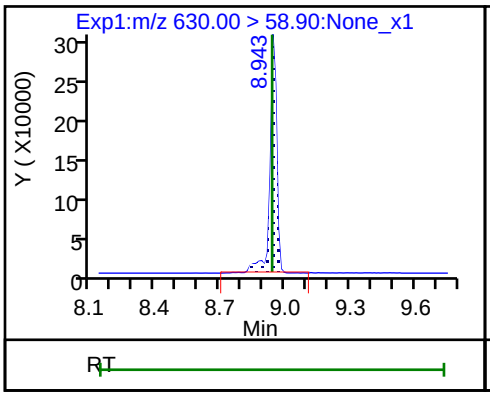
75 NMeFOSA



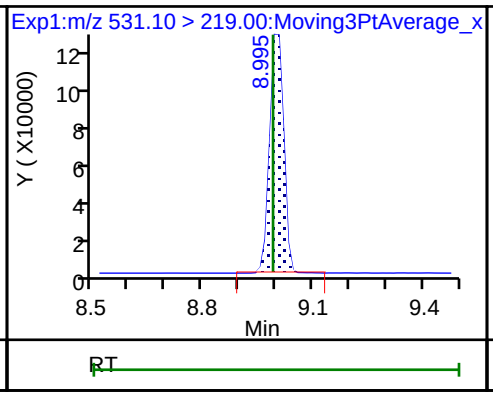
D 76 d9-N-EtFOSE



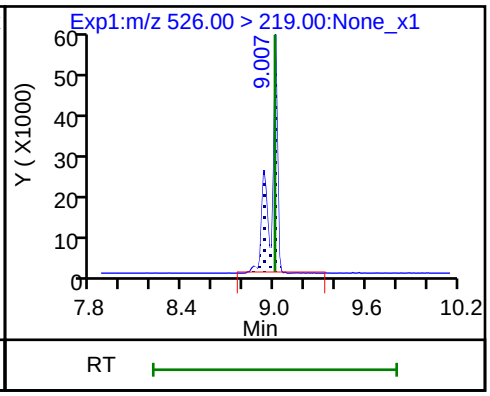
77 N-EtFOSE-M



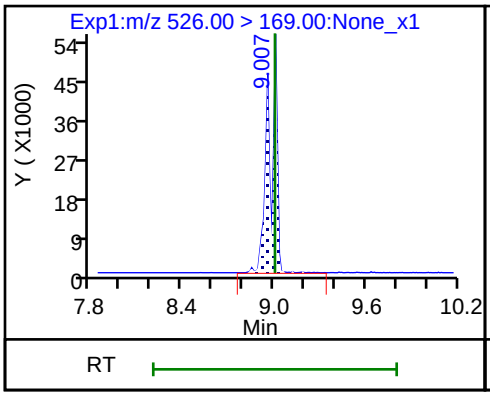
D 78 d5-NEtPFOSA



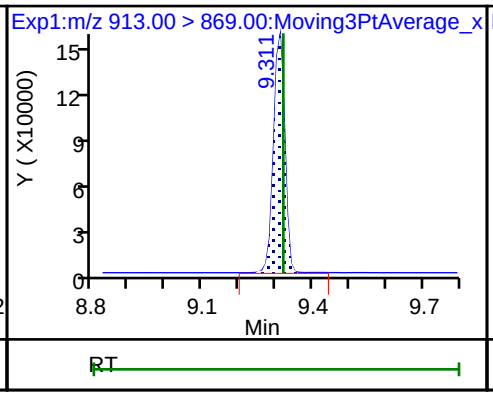
79 N-EtFOSA-M



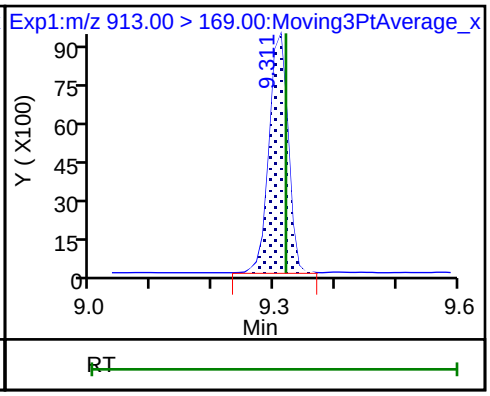
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-763508/11-A

Matrix: Water
Lab File ID: 26Feb02n-04.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 125(mL)
Date Analyzed: 02/02/2026 22:10

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	7.782		4.00	1.10
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.966		2.00	0.60
307-24-4	Perfluorohexanoic acid (PFHxA)	4.280		2.00	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.788		2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	3.847		2.00	0.90
375-95-1	Perfluorononanoic acid (PFNA)	3.528		2.00	0.50
335-76-2	Perfluorodecanoic acid (PFDA)	3.740		2.00	0.50
2058-94-8	Perfluoroundecanoic acid (PFUnA)	4.007		2.00	0.50
307-55-1	Perfluorododecanoic acid (PFDoA)	4.241		2.00	0.50
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	3.582		2.00	0.50
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	2.738		2.00	0.50
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.199		2.00	0.50
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	3.561		2.00	0.50
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.751		2.00	0.80
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	3.676		2.00	0.50
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	4.240		2.00	1.30
68259-12-1	Perfluorononanesulfonic acid (PFNS)	3.481		2.00	0.50
335-77-3	Perfluorodecanesulfonic acid (PFDS)	3.157		2.00	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	2.430		2.00	0.60
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	6.948		4.00	1.00
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.853		4.00	1.00
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.153		4.00	1.00
754-91-6	Perfluorooctanesulfonamide (PFOSA)	3.761		2.00	0.50
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	3.989		2.00	0.50
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.581		2.00	1.10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-763508/11-A

Matrix: Water
Lab File ID: 26Feb02n-04.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 125(mL)
Date Analyzed: 02/02/2026 22:10

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.916		2.00	0.50
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.923		2.00	0.50
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	19.18		10.0	4.00
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	23.51		10.0	4.00
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.686		2.00	1.40
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.552		2.00	0.50
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	4.224		2.00	0.50
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.409		2.00	0.50
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.322		2.00	0.50
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	3.119		2.00	0.50
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	2.963		2.00	0.50
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.646		2.00	0.50
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	7.921		4.00	1.00
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	17.84		10.0	2.80
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	17.05		10.0	2.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-763508/11-A

Matrix: Water
Lab File ID: 26Feb02n-04.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/02/2026 14:36

Sample wt/vol: 125(mL)
Date Analyzed: 02/02/2026 22:10

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 763219
Units: ng/L

Preparation Batch No.: 763508
Instrument ID: 30576

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	88.2		5-130
2283397-79-3	13C5 PFPeA	83.2		40-130
2328024-54-8	13C5 PFHxA	82.6		40-130
2328024-55-9	13C4 PFHpA	96.1		40-130
1350614-84-4	13C8 PFOA	95.5		40-130
2283397-80-6	13C9 PFNA	97.2		40-130
2328024-56-0	13C6 PFDA	92.8		40-130
STL02580	13C7 PFUnA	88.7		30-130
STL02116	13C2 PFTeDA	67.5		10-130
2708218-83-9	13C3 PFBS	97.9		40-135
2708218-85-1	13C3 PFHxS	94.4		40-130
2265893-05-6	13C8 PFOS	88.8		40-130
STL01056	13C8 FOSA	73.9		40-130
1400690-70-1	d3-NMeFOSAA	77.0		40-170
1265205-97-7	d5-NEtFOSAA	75.3		25-135
STL02395	13C2 4:2 FTS	99.6		40-200
STL02279	13C2 6:2 FTS	103		40-200
STL02280	13C2 8:2 FTS	95.7		40-300
STL02255	13C3 HFPO-DA	94.4		40-130
STL02277	d7-N-MeFOSE-M	41.6		10-130
STL02278	d9-N-EtFOSE-M	35.2		10-130
STL02704	d5-NEtPFOSA	53.1		10-130
STL02705	d3-NMePFOSA	59.6		10-130
960315-52-0	13C2 PFDoA	87.4		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-04.d
Lims ID: LLCS 410-763508/11-A
Client ID:
Sample Type: LLCS
Inject. Date: 02-Feb-2026 22:10:56 ALS Bottle#: 45 Worklist Smp#: 45
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: LLCS 410-763508/11-A
Misc. Info.: Plate: 1 Rack: 1 410-0174324-045
Operator ID: ETUS023_USR_INS00008 Instrument ID: 30576

Method: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\30576-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 03-Feb-2026 11:37:01 Calib Date: 29-Jan-2026 02:14:05
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30576\20260128-174015.b\26JAN28CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1674

First Level Reviewer: VGQ7 Date: 03-Feb-2026 11:16:21
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.975	1.992	-0.017	0.476	1060446	1.68		84.2	486	
2 Perfluoropropionic acid										
163.00 > 119.00	1.967	2.001	-0.034	0.996	244949	0.5053		101	230	
5 PFBA										
212.80 > 168.90	4.145	4.161	-0.016	0.998	119239	0.1946		97.3	374	
D 3 13C4-PFBA										
216.80 > 171.90	4.153	4.161	-0.008	1.000	1340567	1.76		88.2	4649	
* 4 13C3PFBA										
216.00 > 172.00	4.153	4.169	-0.016		1454530	2.00			1232	
6 PFMPA										
229.00 > 84.90	4.486	4.496	-0.010	0.932	72650	0.1056		106	662	
7 3:3 FTCA										
241.00 > 177.00	4.486	4.496	-0.010	0.932	7401	0.1980	Target=1.24	99.0	205	
241.00 > 117.00	4.496	4.496	0.0	0.934	5863		1.26(0.62-1.86)		52.8	
D 8 13C5 PFPeA										
268.30 > 223.00	4.813	4.822	-0.009	0.914	824238	1.66		83.2	4542	
9 PFPA										
263.00 > 219.00	4.813	4.822	-0.009	1.000	75934	0.0991		99.1	118	
10 PFMBA										
279.00 > 85.10	4.966	4.978	-0.012	1.032	74589	0.0852		85.2	896	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.085	5.099	-0.013	0.803	589437	4.67		99.6	2618	
12 4:2FTS										
327.10 > 307.00	5.085	5.099	-0.013	1.000	36331	0.1737	Target=1.50	92.6	512	
327.10 > 80.90	5.085	5.099	-0.013	1.000	25430		1.43(0.75-2.24)		64.5	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.228	5.242	-0.014	0.993	30501	0.1080	Target=1.53	108	189	
295.00 > 84.90	5.228	5.242	-0.014	0.993	17539		1.74(0.76-2.29)		80.7	
17 PFHxA										
313.00 > 269.00	5.267	5.282	-0.015	1.000	74296	0.1070	Target=12.38	107	121	
313.00 > 118.90	5.267	5.282	-0.015	1.000	5707		13.02(6.19-18.57)		31.0	
D 15 13C5 PFHxA										
318.00 > 273.00	5.267	5.282	-0.015	1.000	1608719	1.65		82.6	5330	
* 16 13C2 PFHxA										
315.10 > 270.00	5.267	5.282	-0.015		4258612	5.00			9241	
20 5:3 FTCA										
341.00 > 237.10	5.334	5.347	-0.013	1.013	40015	0.4460	Target=0.84	89.2	331	
341.00 > 217.00	5.334	5.347	-0.013	1.013	42502		0.94(0.42-1.25)		138	
D 18 13C3 PFBS										
302.10 > 79.90	5.409	5.410	-0.001	0.854	1699445	1.83		97.9	7761	
19 PFBS										
298.70 > 79.90	5.409	5.424	-0.015	1.000	76778	0.0800	Target=3.07	90.1	453	
298.70 > 98.80	5.409	5.424	-0.015	1.000	24291		3.16(1.54-4.61)		111	
25 FBSA										
297.90 > 78.00	5.382	5.424	-0.042	0.995	83687	0.0871		87.1	552	
D 21 13C3 HFPO-DA										
286.90 > 168.90	5.448	5.464	-0.016	1.034	1589454	1.89		94.4	5165	
22 HFPO-DA										
284.90 > 168.90	5.448	5.464	-0.016	1.000	53157	0.0671	Target=2.35	89.5	287	
284.90 > 184.90	5.448	5.464	-0.016	1.000	24402		2.18(1.17-3.52)		103	
24 PFEESA										
314.80 > 134.90	5.648	5.665	-0.017	1.072	192956	0.0912	Target=11.61	102	776	
314.80 > 82.90	5.633	5.665	-0.032	1.069	17998		10.72(5.81-17.42)		56.2	
28 PFHpA										
363.10 > 319.00	5.689	5.707	-0.018	1.000	73452	0.0947	Target=2.31	94.7	175	
363.10 > 169.00	5.689	5.707	-0.018	1.000	30342		2.42(1.16-3.47)		205	
D 26 13C4 PFHpA										
367.10 > 322.00	5.689	5.707	-0.018	1.080	1844446	1.92		96.1	8169	
30 ADONA										
376.90 > 250.90	5.837	5.857	-0.020	1.071	168134	0.0888	Target=1.93	93.9	987	
376.90 > 84.80	5.837	5.857	-0.020	1.071	71176		2.36(0.97-2.90)		434	
D 31 13C2-6:2FTS										
429.10 > 80.90	5.883	5.903	-0.020	0.929	511758	4.92		103	3178	
32 6:2FTS										
427.10 > 407.00	5.883	5.903	-0.020	1.000	34973	0.1963	Target=1.49	103	30.4	
427.10 > 80.90	5.883	5.903	-0.020	1.000	21042		1.66(0.75-2.24)		19.4	
29 PFPeS										
349.10 > 79.90	5.883	5.903	-0.020	0.929	79438	0.0890	Target=3.10	94.7	360	
349.10 > 98.90	5.883	5.903	-0.020	0.929	22734		3.49(1.55-4.65)		137	
33 BTS										
280.00 > 147.00	6.044	6.063	-0.019	0.955	193815	0.0930		92.9	54972	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
36 PFOA										
413.00 > 369.00	6.100	6.104	-0.004	1.000	66591	0.0962	Target=1.86	96.2	68.2	
413.00 > 169.00	6.086	6.104	-0.018	0.998	33096		2.01(0.93-2.79)		49.7	
* 35 13C4 PFOA										
417.10 > 372.00	6.100	6.117	-0.017		5695401	5.00			10475	
D 34 13C8 PFOA										
421.10 > 376.00	6.100	6.117	-0.017	1.000	2176286	1.91		95.5	6914	
39 7:3 FTCA										
441.00 > 316.90	6.152	6.182	-0.030	1.168	19692	0.4262	Target=0.34	85.2	126	
441.00 > 336.90	6.152	6.182	-0.030	1.168	56790		0.35(0.17-0.51)		283	
40 PFHxS										
398.70 > 79.90	6.330	6.345	-0.015	1.000	64914	0.0938	Target=3.30	103	121	
398.70 > 98.90	6.330	6.345	-0.015	1.000	19973		3.25(1.65-4.96)		28.0	
D 38 13C3 PFHxS										
402.10 > 79.90	6.330	6.345	-0.015	1.000	1520521	1.79		94.4	5980	
* 37 18O2 PFHxS										
403.00 > 83.90	6.330	6.345	-0.015		1568893	1.90			10314	
* 42 13C5 PFNA										
468.00 > 423.00	6.508	6.525	-0.017		1983842	2.00			6622	
D 41 13C9 PFNA										
472.10 > 427.00	6.508	6.525	-0.017	1.000	1806727	1.94		97.2	4903	
43 PFNA										
463.00 > 419.00	6.508	6.525	-0.017	1.000	77044	0.0882	Target=2.61	88.2	82.7	
463.00 > 219.00	6.508	6.525	-0.017	1.000	28874		2.67(1.31-3.92)		27.4	
D 45 13C2-8:2FTS										
529.10 > 80.90	6.690	6.707	-0.017	1.057	455466	4.60		95.7	1614	
46 8:2FTS										
527.10 > 507.00	6.690	6.707	-0.017	1.000	19467	0.1538	Target=1.36	80.1	5697	
527.10 > 80.80	6.690	6.707	-0.017	1.000	16205		1.20(0.68-2.04)		104	
44 PFECHS										
461.00 > 381.00	6.726	6.742	-0.016	1.063	17924	0.0743	Target=0.26	80.4	116	
461.00 > 99.00	6.726	6.742	-0.016	1.063	76443		0.23(0.13-0.39)		243	
47 PFHpS										
449.00 > 79.90	6.761	6.779	-0.018	0.940	77973	0.0919	Target=4.06	96.3	304	
449.00 > 98.80	6.761	6.779	-0.018	0.940	20090		3.88(2.03-6.09)		6484	
48 FHxSA										
397.90 > 78.00	6.799	6.841	-0.042	1.074	86326	0.0777		77.7	286	
50 NMeFOSAA										
570.10 > 419.00	6.848	6.877	-0.029	1.000	14386	0.0729	Target=1.95	72.9	6619	
570.10 > 483.00	6.860	6.877	-0.017	1.002	10980		1.31(0.98-2.93)		3236	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.848	6.877	-0.029	0.952	852489	3.85		77.0	1458	
D 51 13C6 PFDA										
519.10 > 474.10	6.920	6.938	-0.018	1.000	1719003	1.86		92.8	4475	
53 PFDA										
512.90 > 469.00	6.920	6.938	-0.018	1.000	51614	0.0935	Target=3.17	93.5	177	
512.90 > 219.00	6.920	6.938	-0.018	1.000	16528		3.12(1.58-4.75)		112	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 52 13C2 PFDA										
515.10 > 470.10	6.920	6.938	-0.018		1831850	2.00			6410	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.039	7.057	-0.018	0.979	720662	3.77		75.3	2755	
55 NEtFOSAA										
584.20 > 419.10	7.039	7.057	-0.018	1.000	11274	0.0981	Target=1.64	98.1	8.9	
584.20 > 526.00	7.039	7.057	-0.018	1.000	6870		1.64(0.82-2.47)		10.8	
D 56 13C8 PFOS										
507.10 > 79.90	7.191	7.208	-0.017	1.000	1285182	1.70		88.8	2750	
* 57 13C4 PFOS										
502.80 > 79.90	7.191	7.208	-0.017		1425231	1.92			5991	
58 PFOS										
498.90 > 79.90	7.191	7.221	-0.030	1.000	100594	0.1060	Target=4.98	114	169	
498.90 > 98.80	7.191	7.221	-0.030	1.000	17626		5.71(2.49-7.47)		47.1	
60 PFUnA										
563.10 > 519.00	7.335	7.353	-0.018	1.000	38120	0.1002	Target=2.89	100	89.8	
563.10 > 269.10	7.348	7.353	-0.005	1.002	11070		3.44(1.45-4.34)		2780	
D 59 13C7 PFUnA										
570.00 > 525.10	7.335	7.353	-0.018	1.060	1638140	1.77		88.7	3694	
61 9ClFOS										
530.80 > 351.00	7.512	7.540	-0.028	1.045	145212	0.0780	Target=3.11	83.5	825	
532.80 > 353.00	7.512	7.540	-0.028	1.045	49699		2.92(1.55-4.66)		454	
62 PFNS										
548.80 > 79.90	7.613	7.637	-0.024	1.059	63500	0.0870	Target=4.37	90.5	609	
548.80 > 98.80	7.613	7.637	-0.024	1.059	14372		4.42(2.19-6.56)		141	
63 PFDoA										
613.10 > 569.00	7.762	7.777	-0.015	1.000	42074	0.1060	Target=3.23	106	140	
613.10 > 319.00	7.762	7.777	-0.015	1.000	12471		3.37(1.61-4.84)		4187	
D 82 PFDoA										
615.10 > 570.00	7.762	7.777	-0.015	1.122	1137710	1.75		87.4	3232	
65 PFOSA										M
498.10 > 77.90	7.947	7.951	-0.004	1.000	61509	0.0940	Target=44.84	94.0	122	M
498.10 > 478.00	7.829	7.951	-0.122	0.985	1063		57.86(22.42-67.27)		4.0	M
D 64 13C8 FOSA										
506.10 > 77.80	7.947	7.965	-0.018	1.105	1251380	1.48		73.9	7347	
66 PFDS										
599.00 > 79.90	8.014	8.032	-0.018	1.115	61050	0.0789	Target=4.49	81.9	495	
599.00 > 98.80	8.014	8.032	-0.018	1.115	13512		4.52(2.24-6.73)		149	
67 PFTrDA										
663.00 > 619.00	8.151	8.169	-0.018	0.960	37633	0.0896	Target=4.04	89.6	157	
663.00 > 168.90	8.136	8.169	-0.033	0.958	7478		5.03(2.02-6.05)		85.9	
68 11ClFOS										
630.90 > 450.90	8.297	8.329	-0.032	1.154	75726	0.0741	Target=2.75	78.5	633	
632.90 > 452.90	8.297	8.329	-0.032	1.154	28650		2.64(1.37-4.12)		9113	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.494	8.510	-0.016	1.227	728649	1.35		67.5	5297	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
70 PFTeDA										
713.10 > 168.90	8.494	8.510	-0.016	1.000	3710	0.0685	Target=0.87	68.5	51.2	
713.10 > 219.00	8.494	8.510	-0.016	1.000	5067		0.73(0.44-1.31)		42.3	
73 PFDoS										
699.10 > 79.90	8.664	8.695	-0.031	1.205	43358	0.0608	Target=4.76	62.6	283	
699.10 > 98.80	8.678	8.695	-0.017	1.207	9597		4.52(2.38-7.13)		78.9	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.734	8.738	-0.004	1.215	277478	2.08		41.6	186	
72 N-MeFOSE-M										
616.10 > 58.90	8.748	8.752	-0.004	1.002	50902	0.4796		95.9	94.0	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.830	8.834	-0.004	1.228	285033	1.19		59.6	2453	
75 NMeFOSA										
511.90 > 219.00	8.830	8.834	-0.004	1.000	14147	0.0997	Target=0.73	99.7	66.8	
511.90 > 169.00	8.762	8.834	-0.072	0.992	19017		0.74(0.37-1.10)		81.2	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.924	8.926	-0.002	1.241	311825	1.76		35.2	345	
77 N-EtFOSE-M										
630.00 > 58.90	8.937	8.939	-0.002	1.001	77331	0.5878		118	509	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.988	8.991	-0.003	1.250	308892	1.06		53.1	2174	
79 N-EtFOSA-M										
526.00 > 219.00	9.001	9.004	-0.003	1.001	17349	0.1145	Target=0.85	115	130	
526.00 > 169.00	9.001	9.004	-0.003	1.001	19103		0.91(0.43-1.28)		85.5	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.277	9.319	-0.042	1.092	37569	0.1706	Target=10.32	171	1213	
913.00 > 169.00	9.277	9.319	-0.042	1.092	2510		14.97(5.16-15.48)		151	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

1633_125_IS_V_00579 Amount Added: 50.00 Units: uL

Report Date: 03-Feb-2026 11:39:16 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-04.d

Injection Date: 02-Feb-2026 22:10:56 Instrument ID: 30576

Lims ID: LLCS 410-763508/11-A

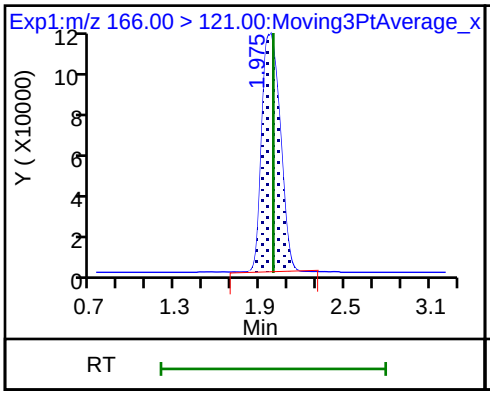
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Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 45 Worklist Smp#: 45

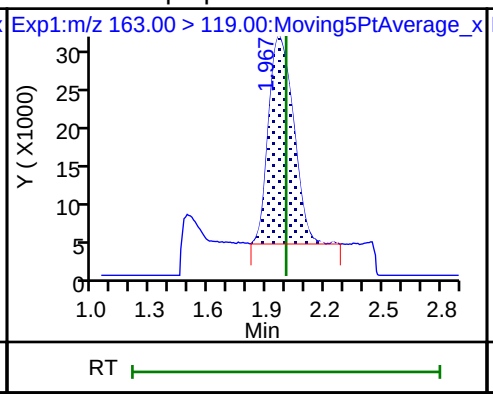
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL

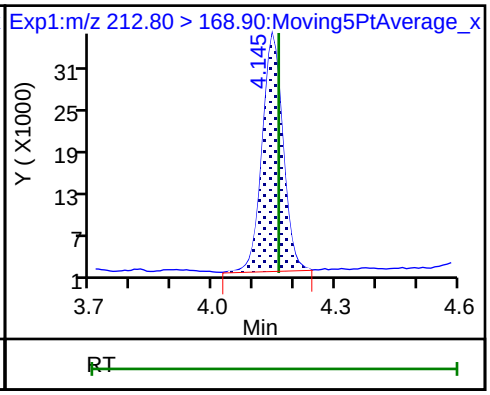
D 1 13C3PFPrA



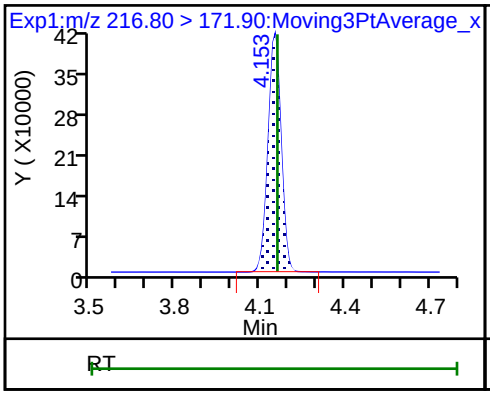
2 Perfluoropropionic acid



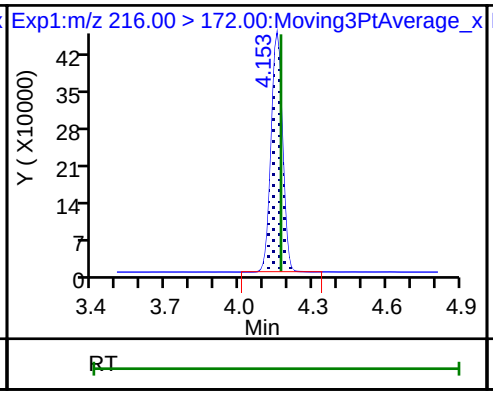
5 PFBA



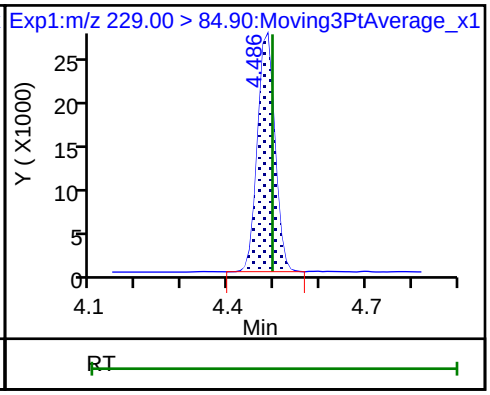
D 3 13C4-PFBA



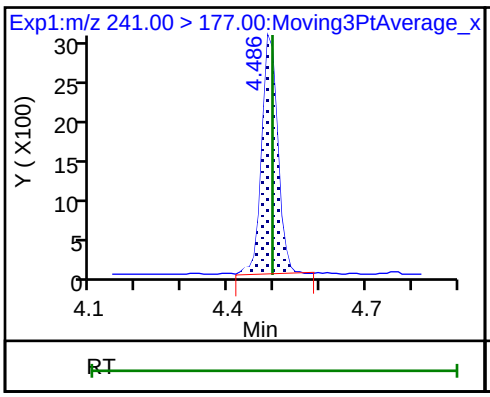
* 4 13C3PFBA



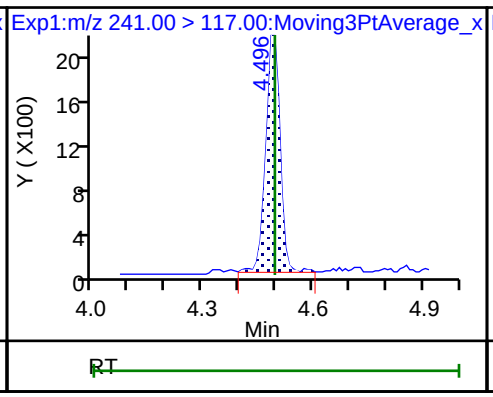
6 PFMPA



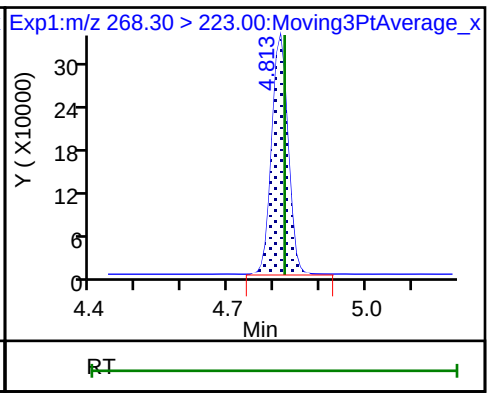
7 3:3 FTCA



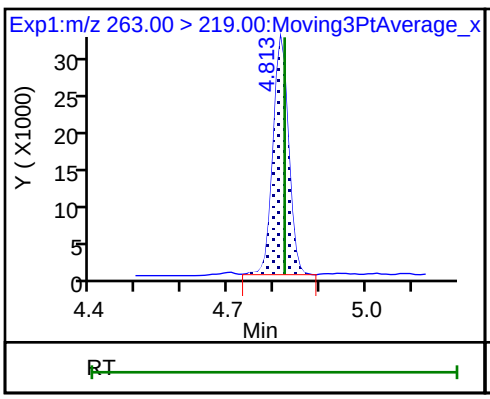
7 3:3 FTCA



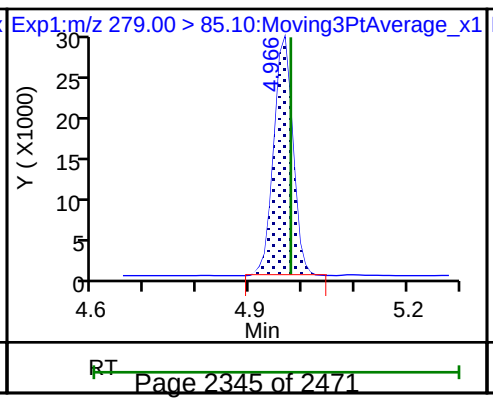
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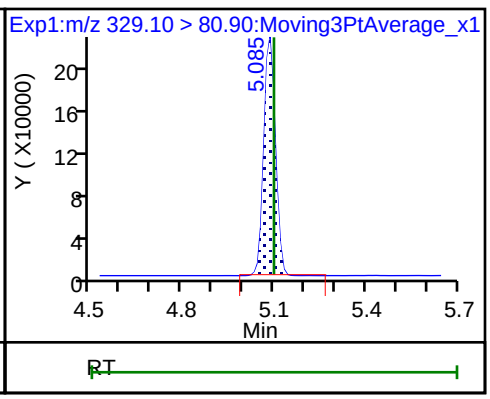
9 PFPA



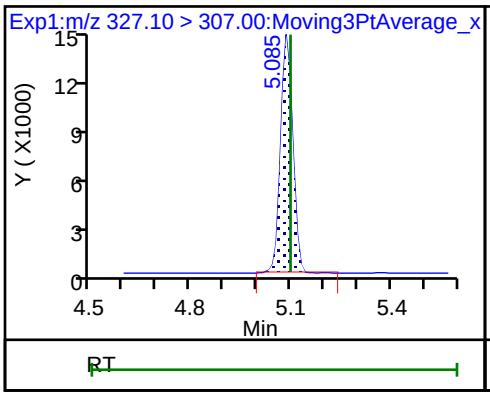
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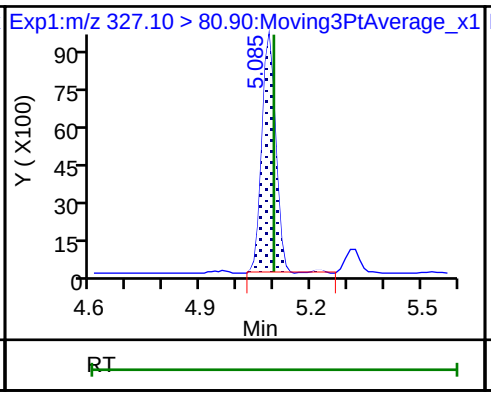
D 11 13C2-4:2FTS



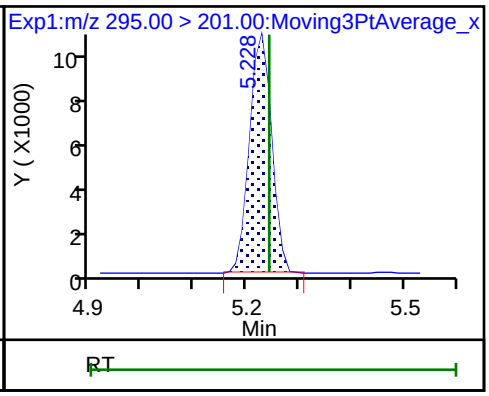
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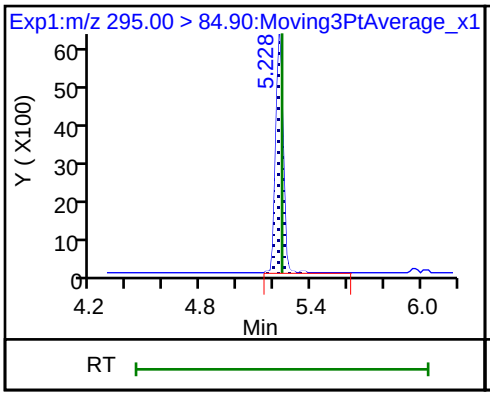
12 4:2FTS



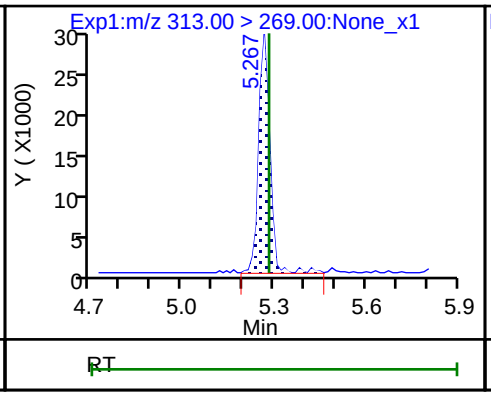
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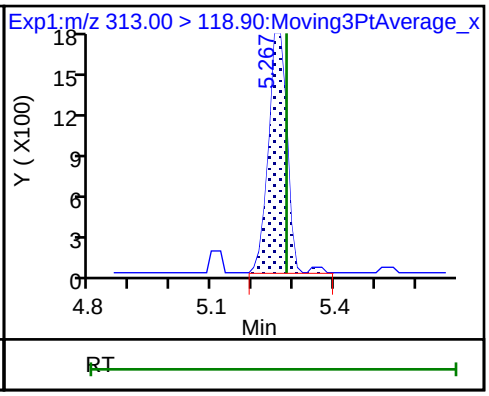
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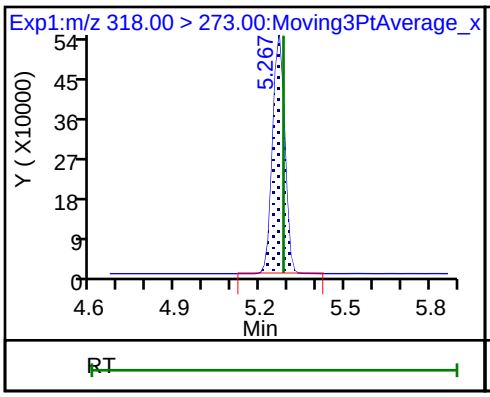
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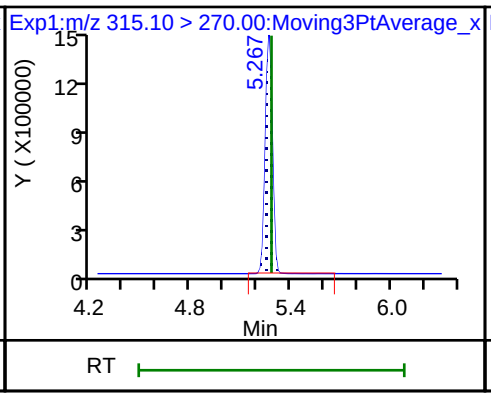
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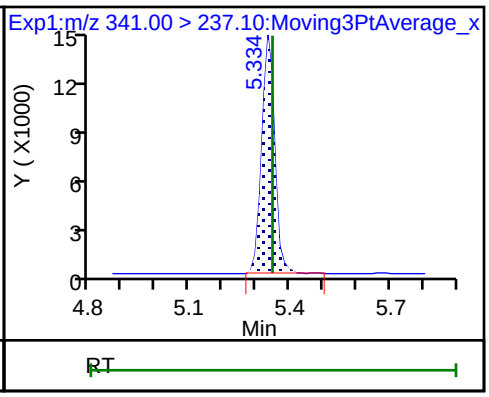
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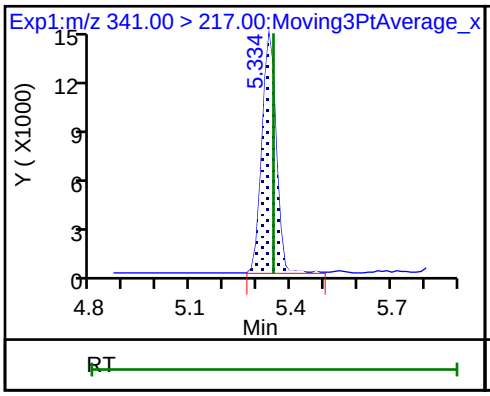
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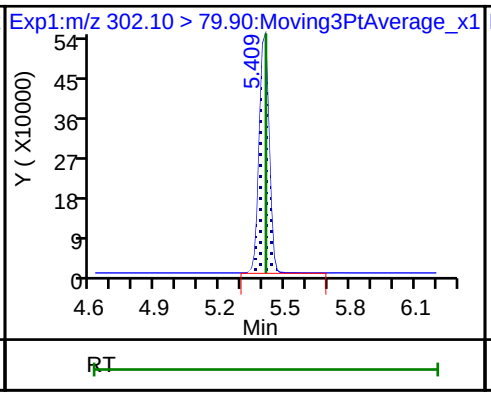
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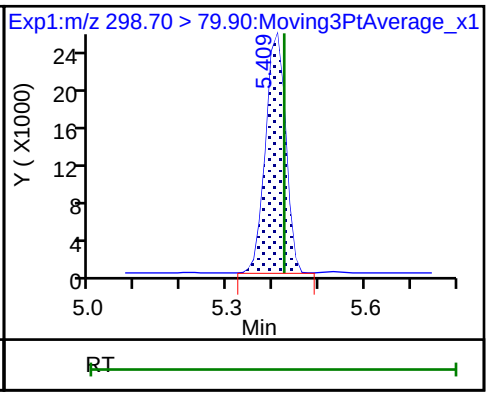
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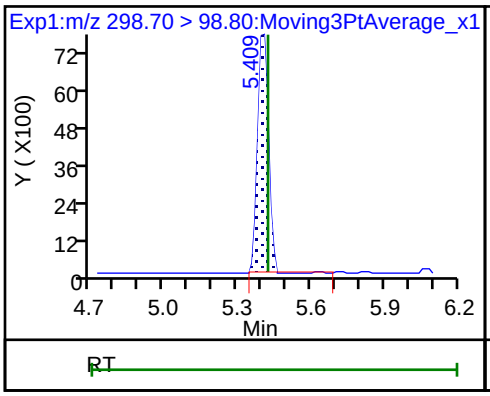
D 18 13C3 PFBS



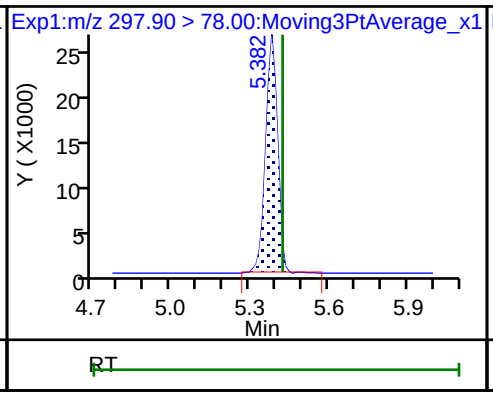
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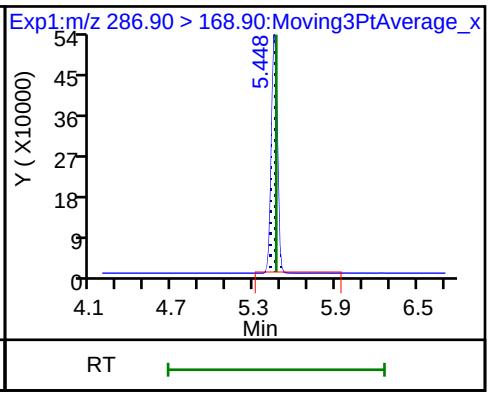
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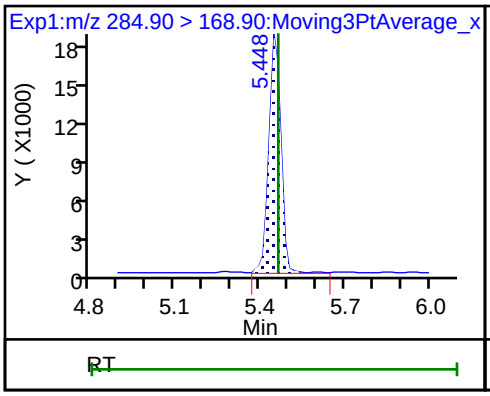
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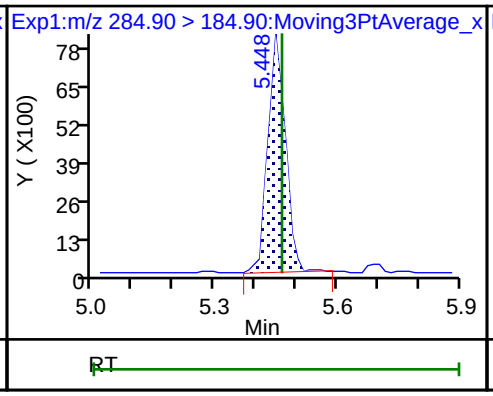
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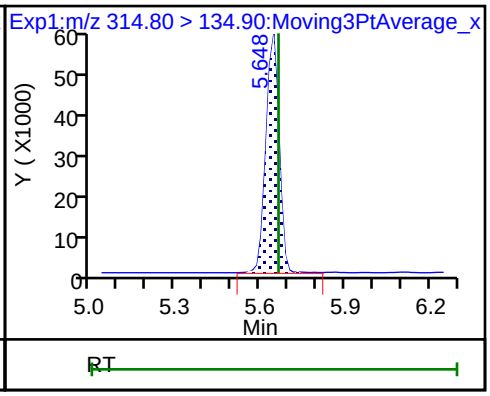
22 HFPO-DA



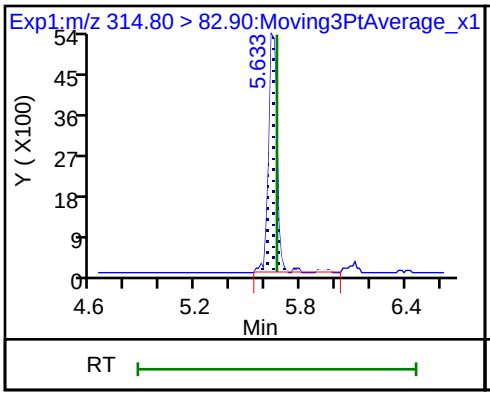
22 HFPO-DA



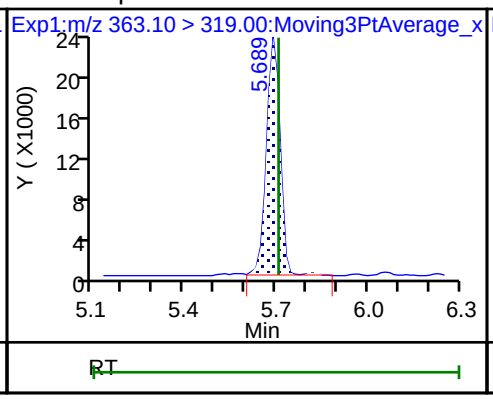
24 PFEESA



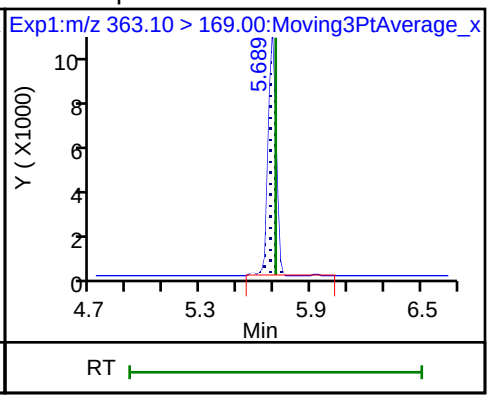
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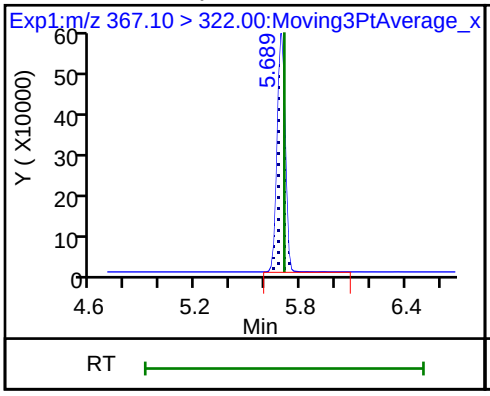
28 PFHpA



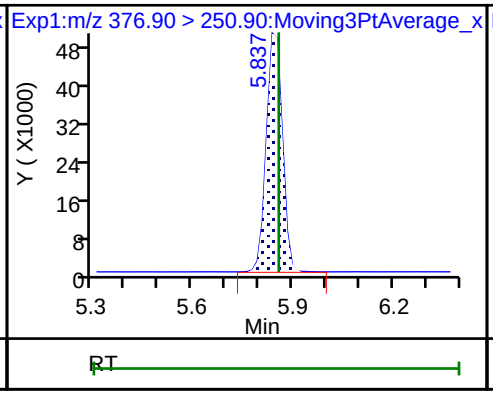
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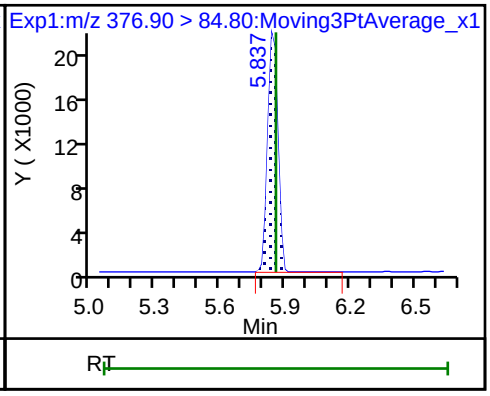
D 26 13C4 PFHpA



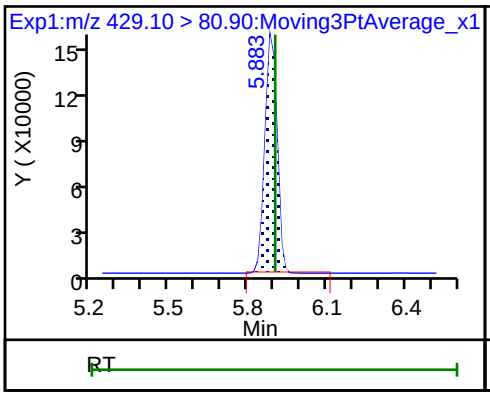
30 ADONA



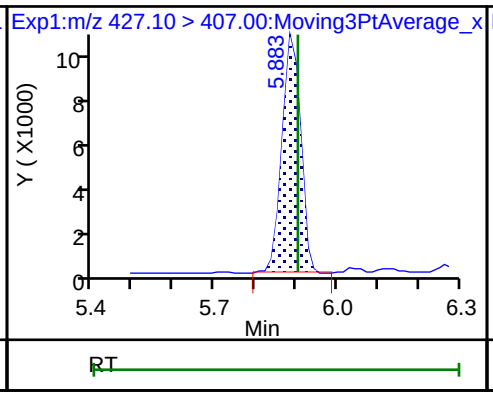
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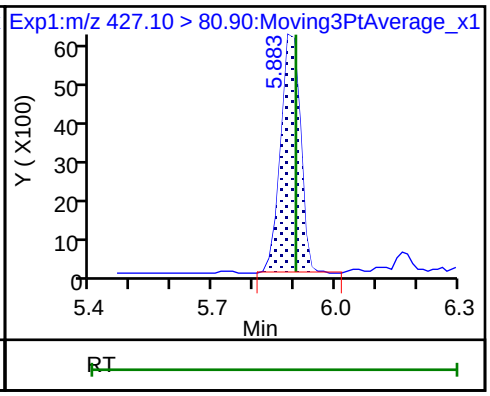
D 31 13C2-6:2FTS



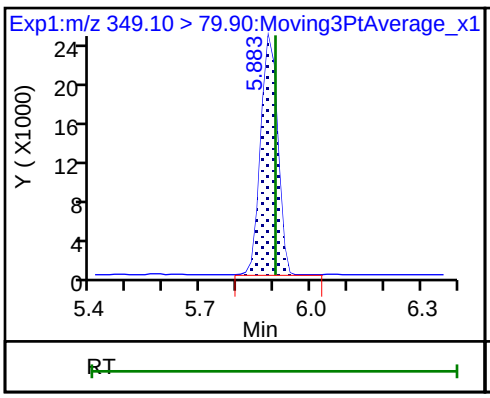
32 6:2FTS



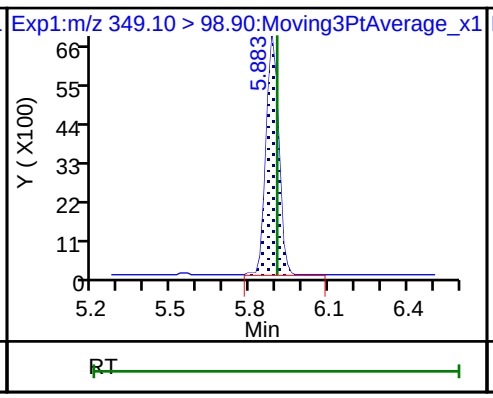
32 6:2FTS



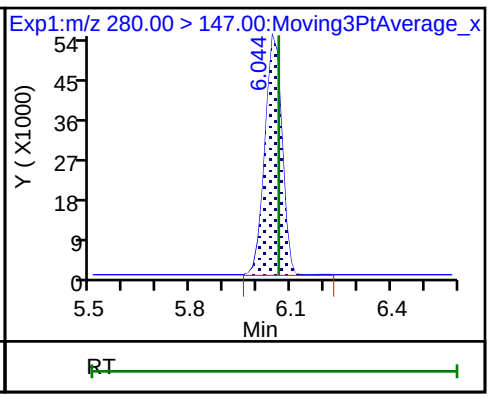
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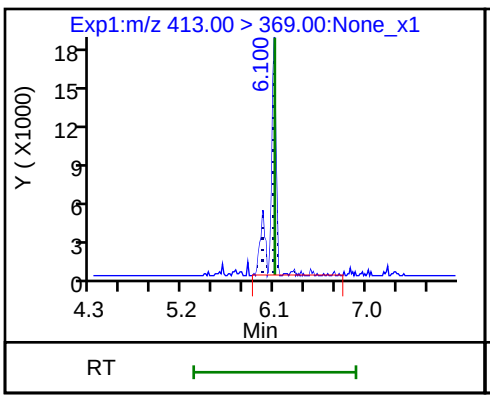
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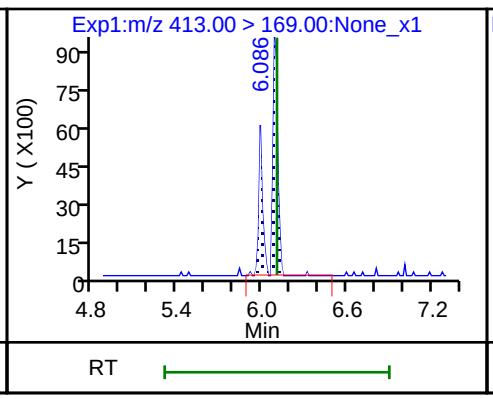
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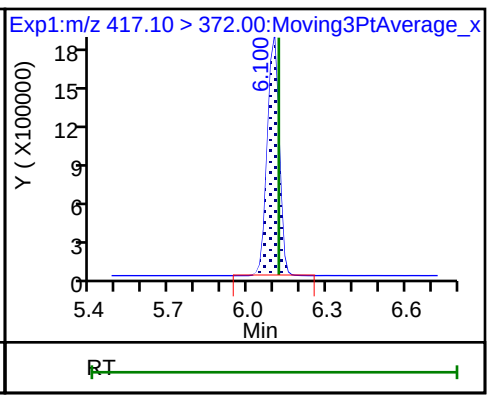
36 PFOA



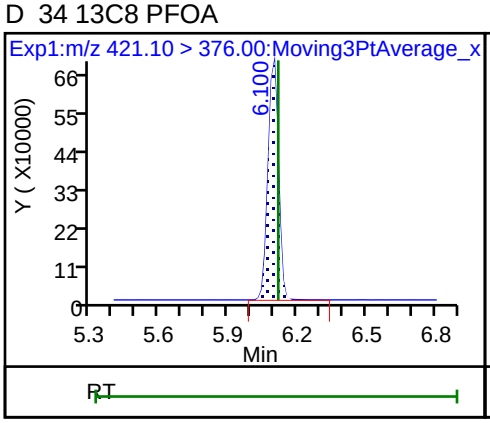
36 PFOA



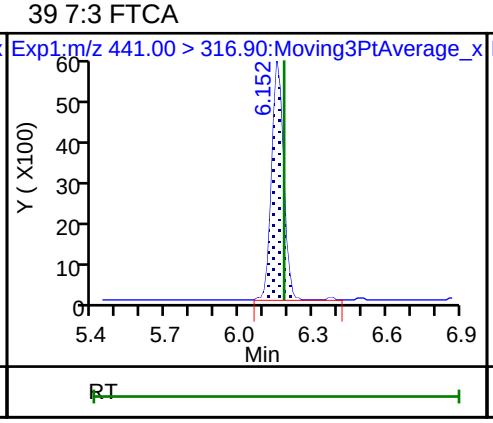
* 35 13C4 PFOA



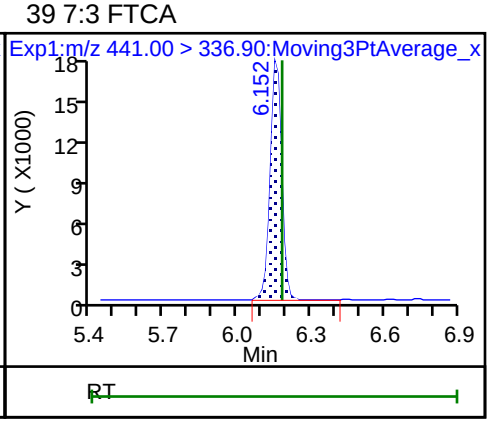
D 34 13C8 PFOA



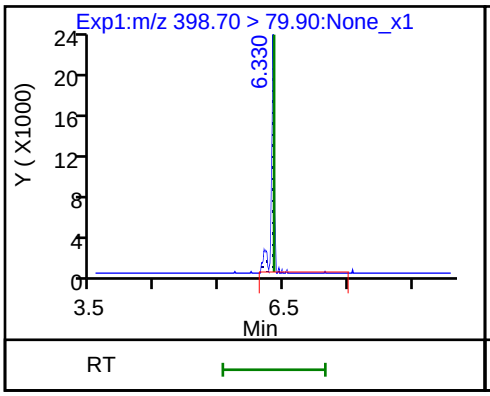
39 7:3 FTCA



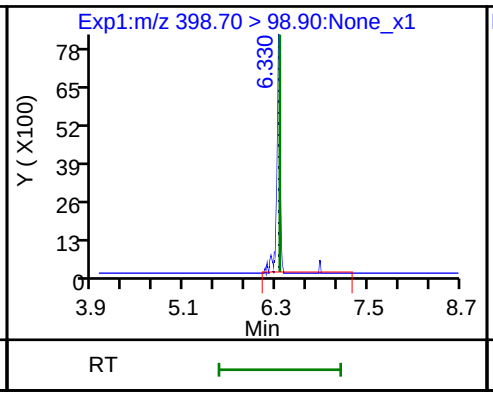
39 7:3 FTCA



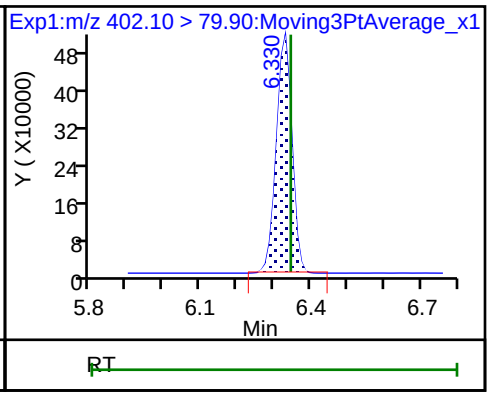
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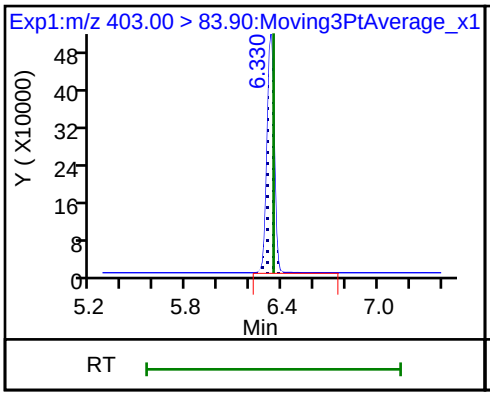
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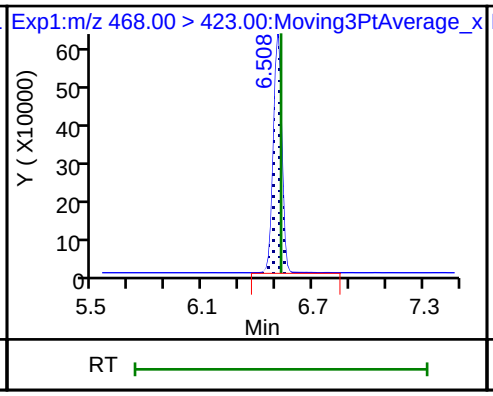
D 38 13C3 PFHxS



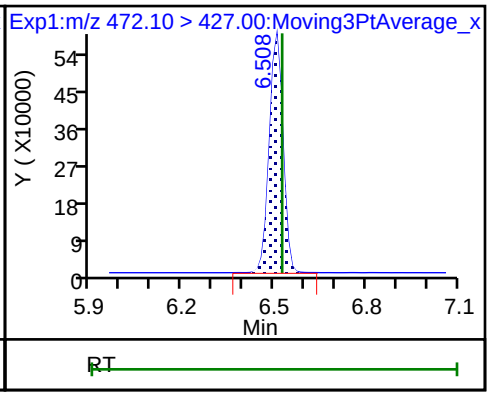
* 37 18O2 PFHxS



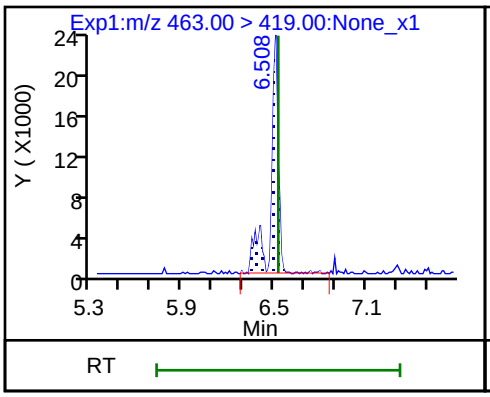
* 42 13C5 PFNA



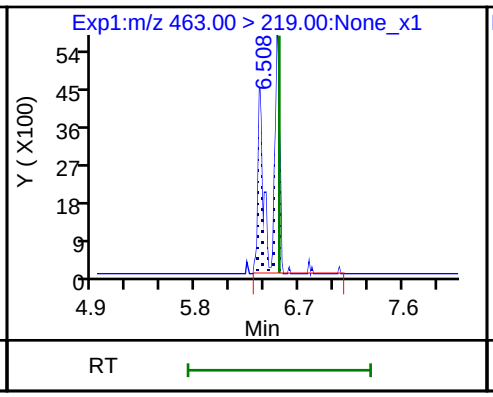
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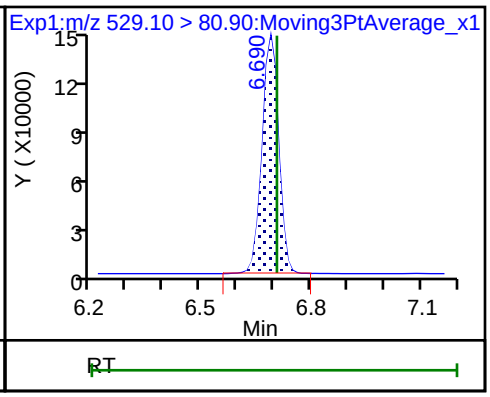
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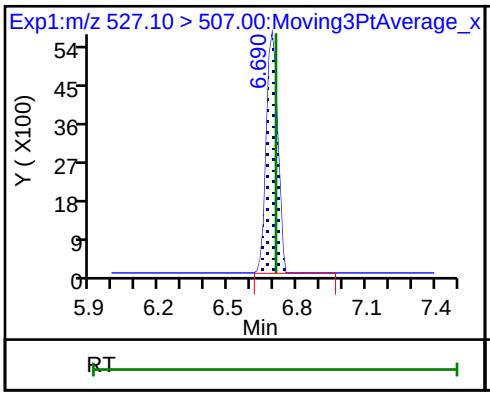
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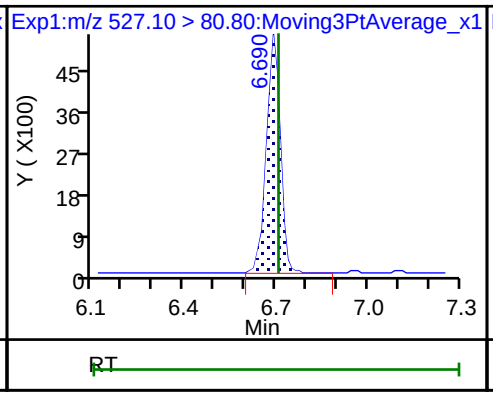
D 45 13C2-8:2FTS



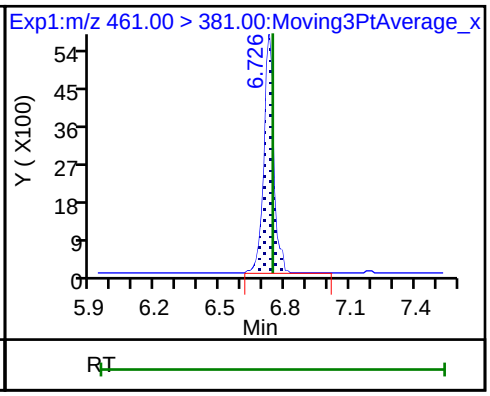
46 8:2FTS



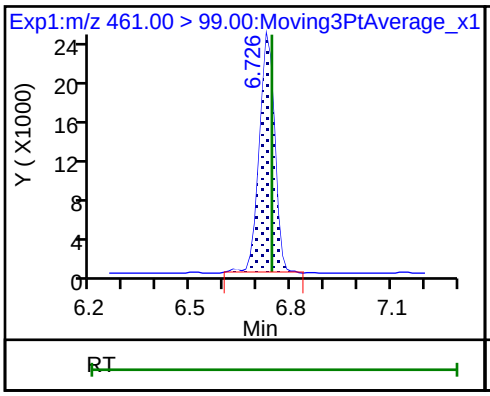
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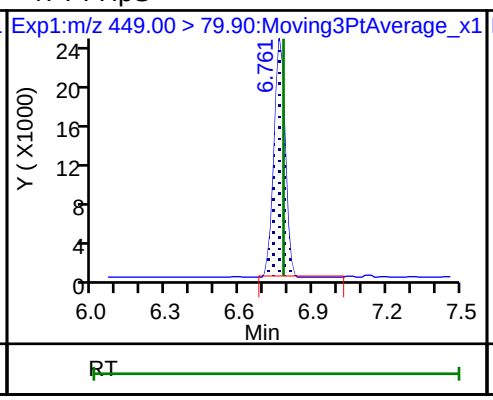
44 PFECHS



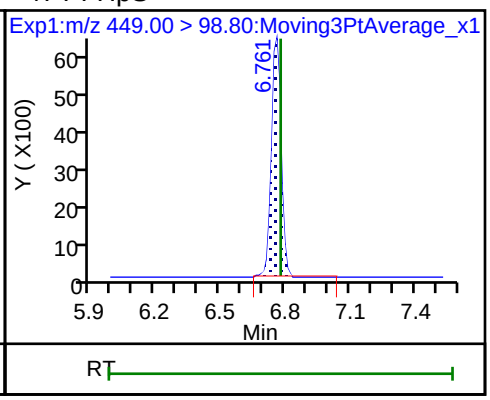
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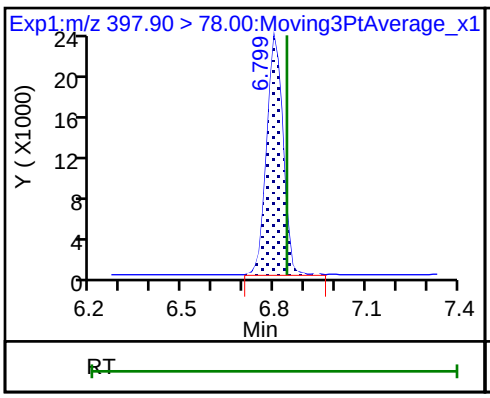
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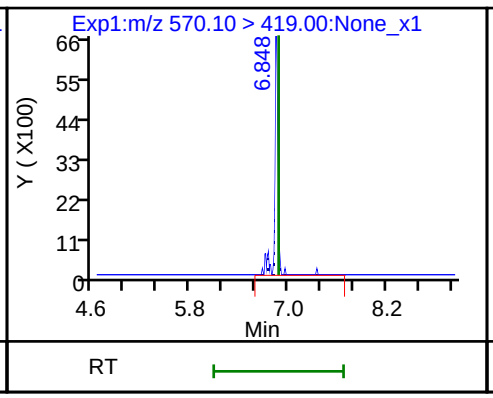
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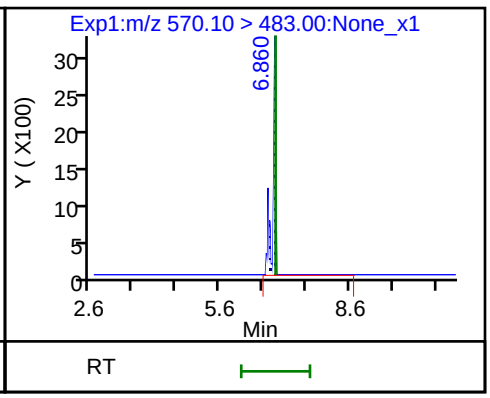
48 FHxSA



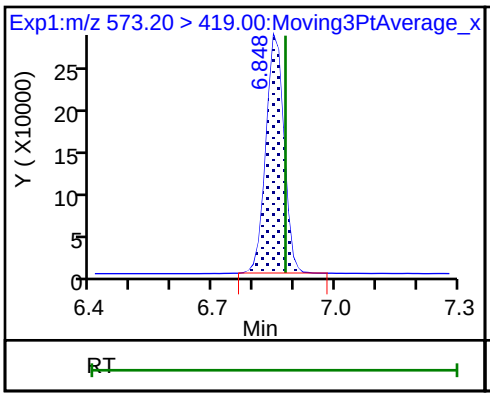
50 NMeFOSAA



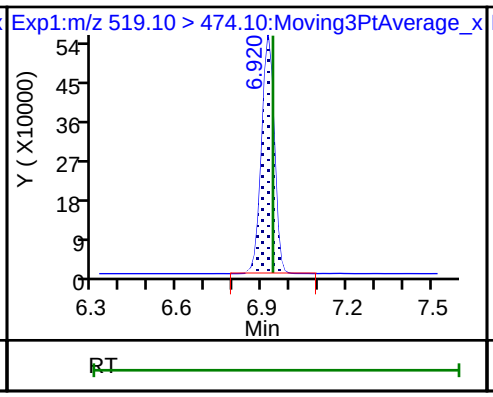
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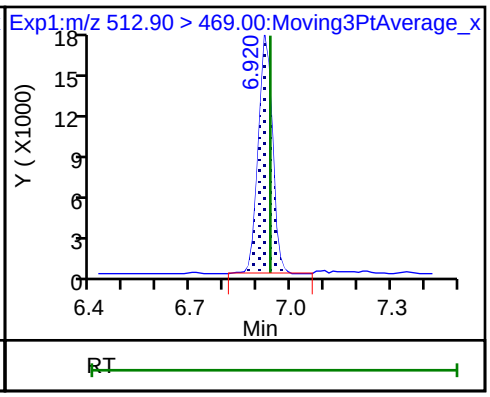
D 49 d3-NMeFOSAA



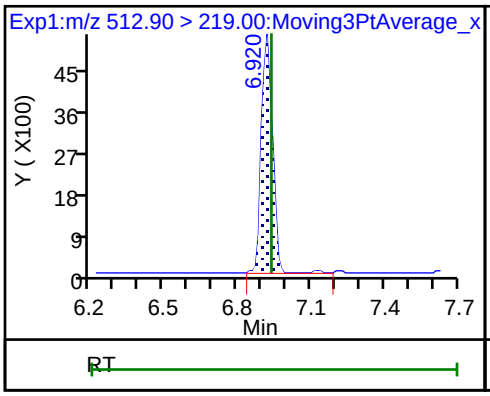
D 51 13C6 PFDA



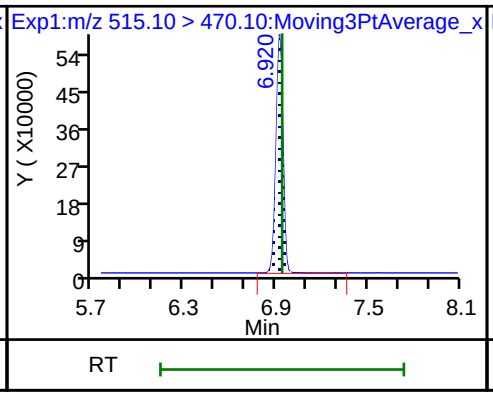
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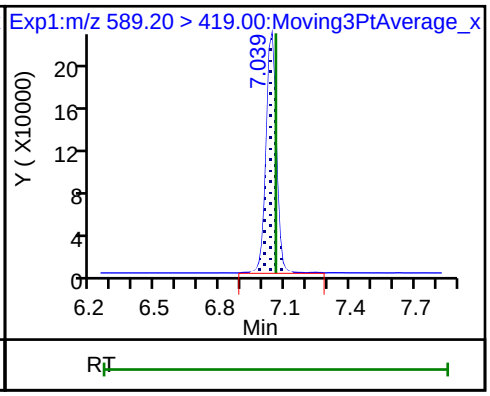
53 PFDA



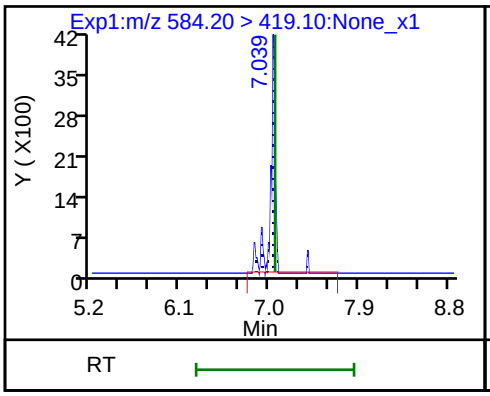
* 52 13C2 PFDA



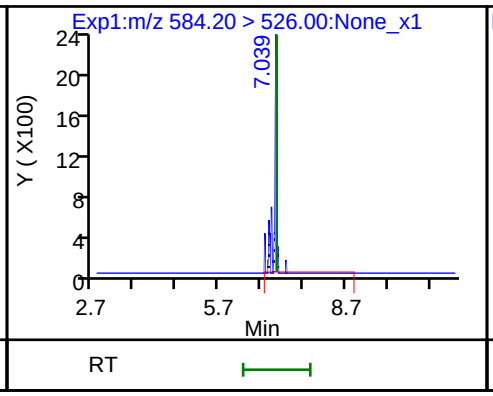
D 54 d5-NEtFOSAA



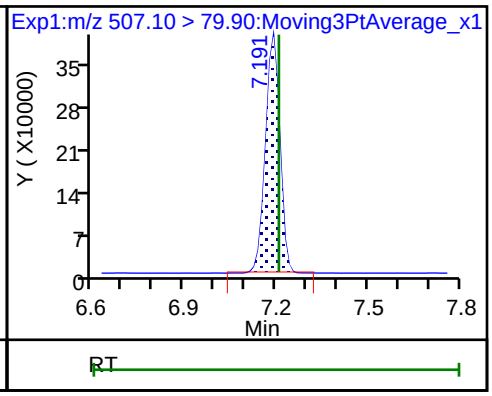
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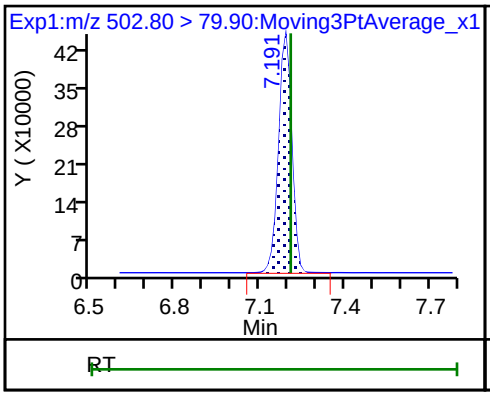
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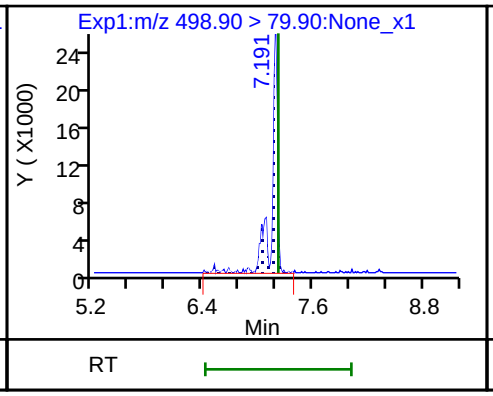
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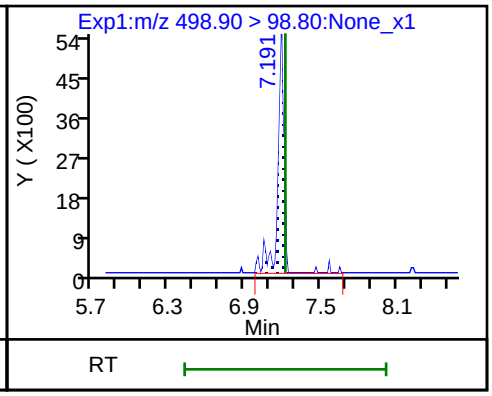
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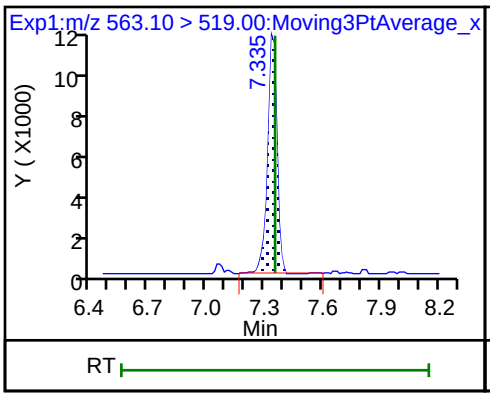
58 PFOS



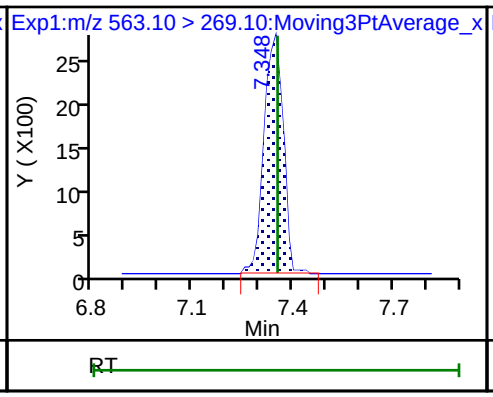
58 PFOS



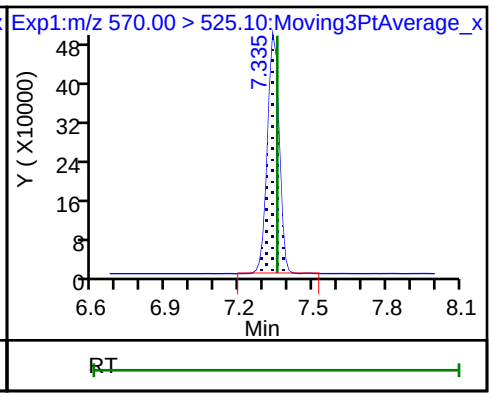
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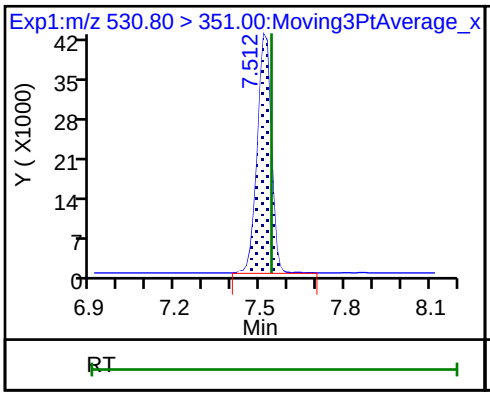
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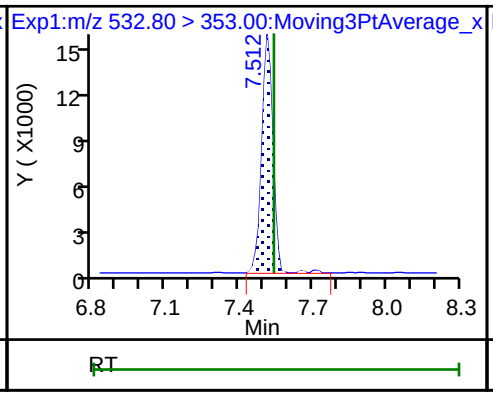
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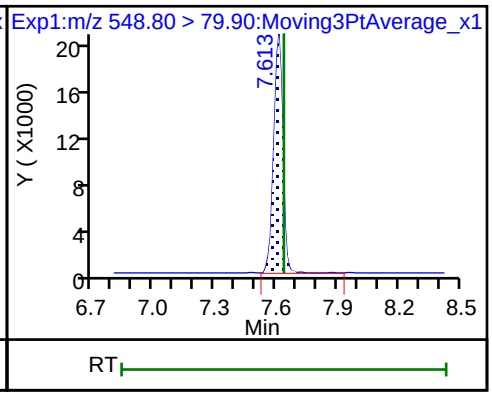
61 9ClFOS



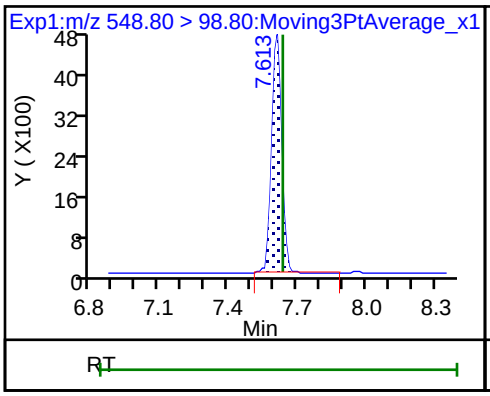
61 9ClFOS



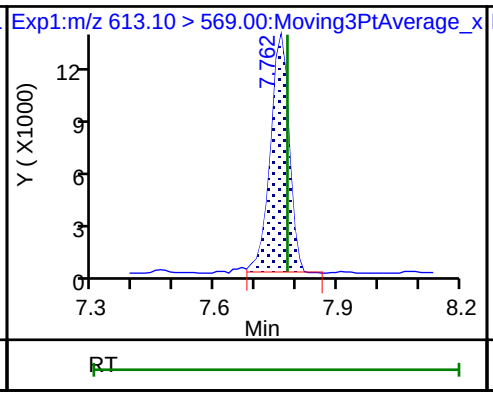
62 PFNS



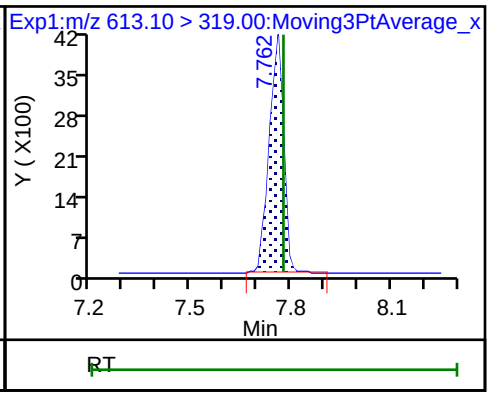
62 PFNS



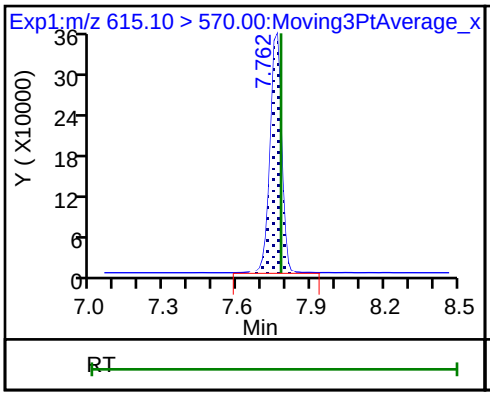
63 PFDoA



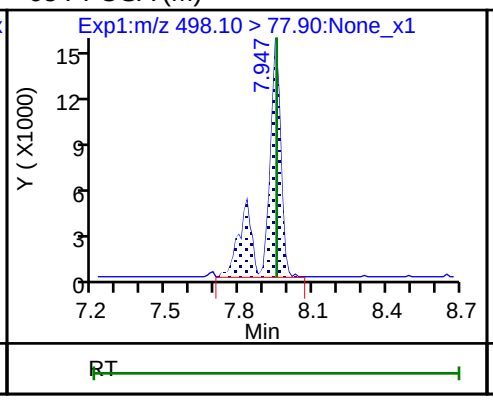
63 PFDoA



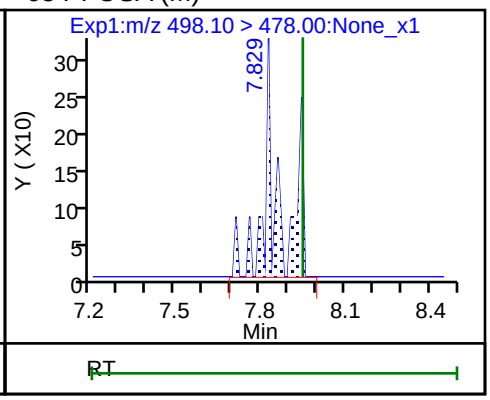
D 82 PFDoA



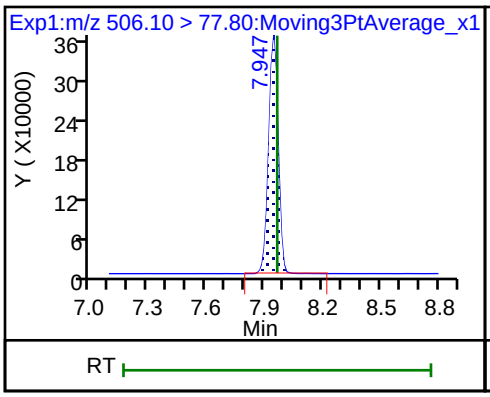
65 PFOSA (M)



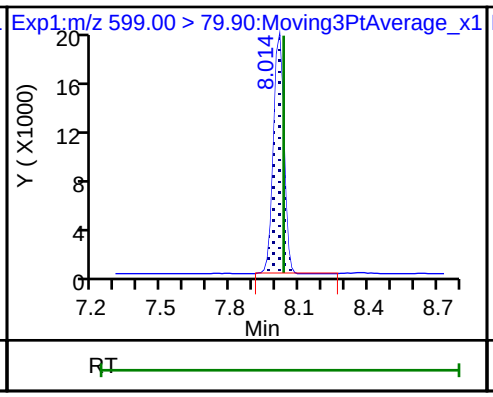
65 PFOSA (M)



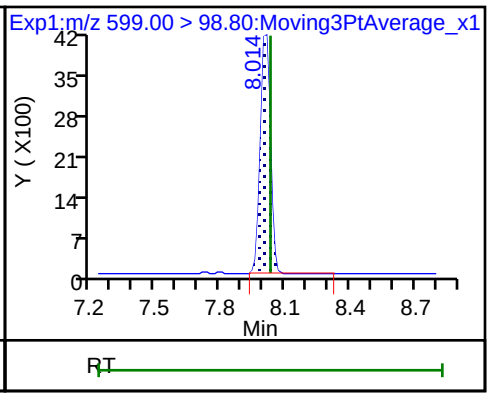
D 64 13C8 FOSA



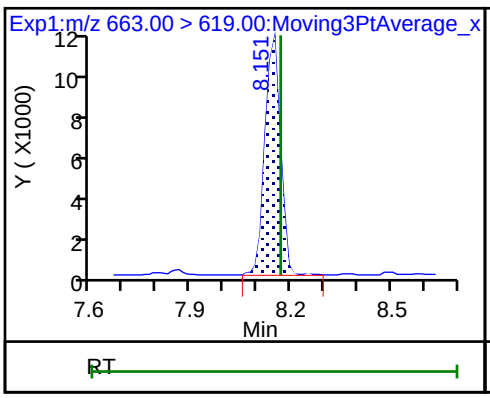
66 PFDS



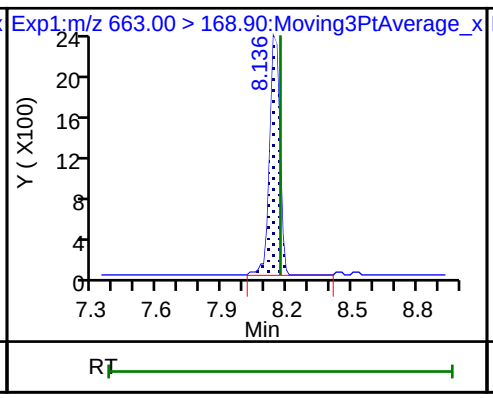
66 PFDS



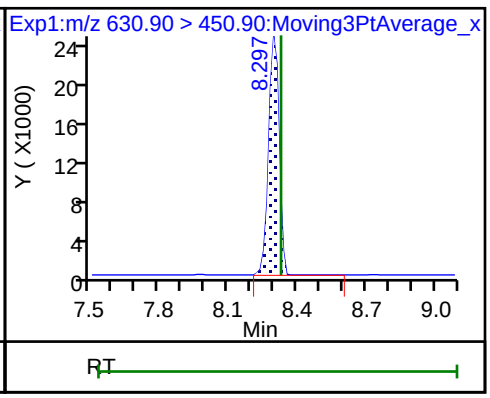
67 PFTrDA



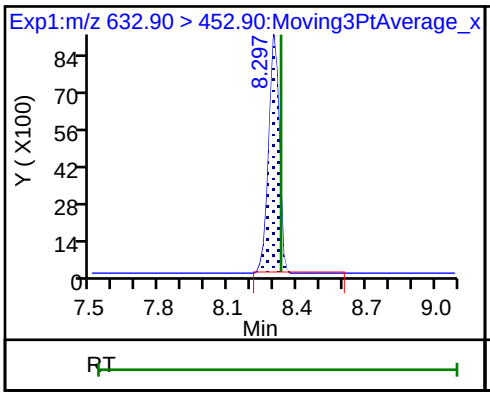
67 PFTrDA



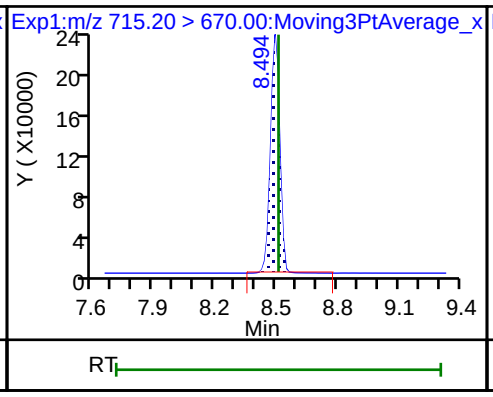
68 11ClFOS



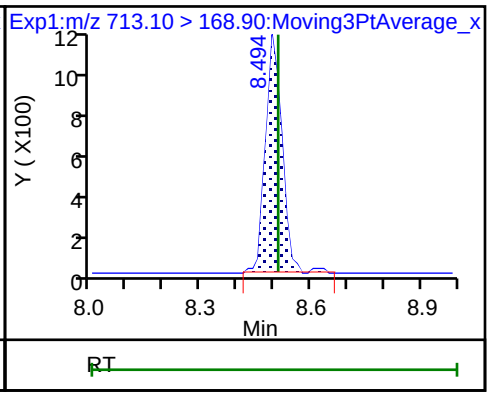
68 11ClFOS



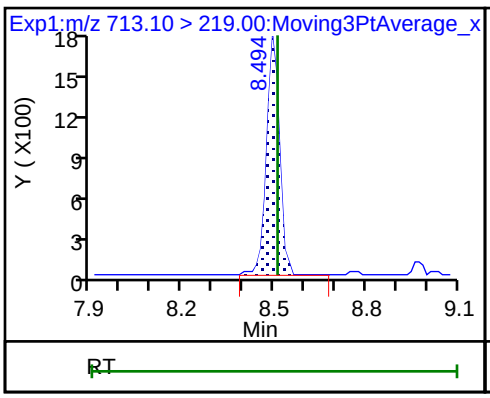
D 69 13C2 PFTeDA



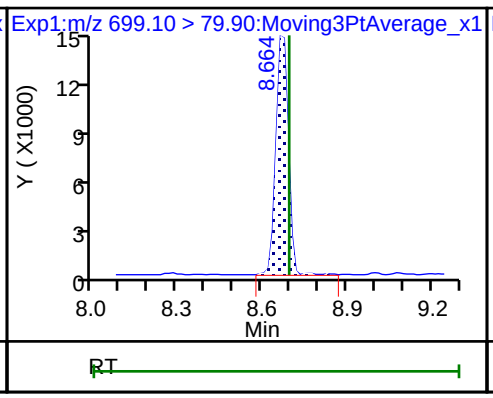
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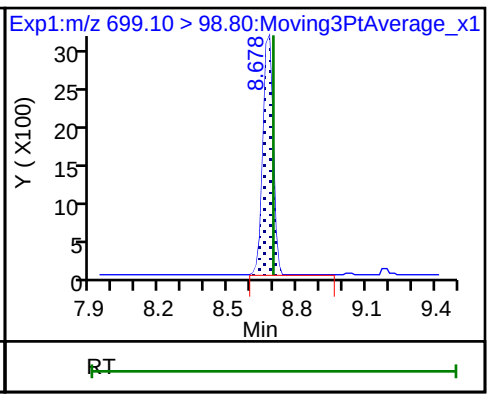
70 PFTeDA



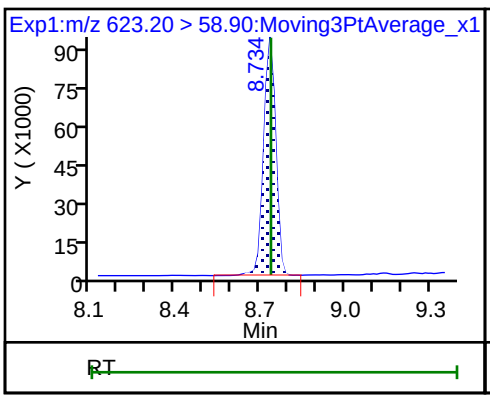
73 PFDoS



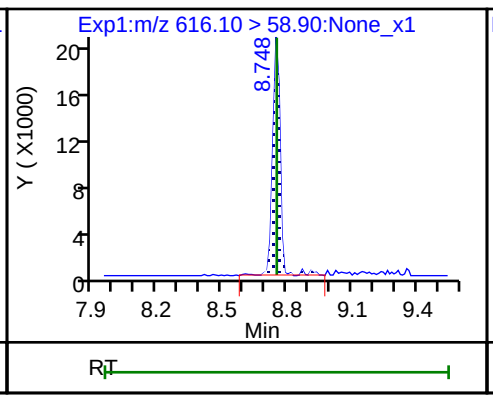
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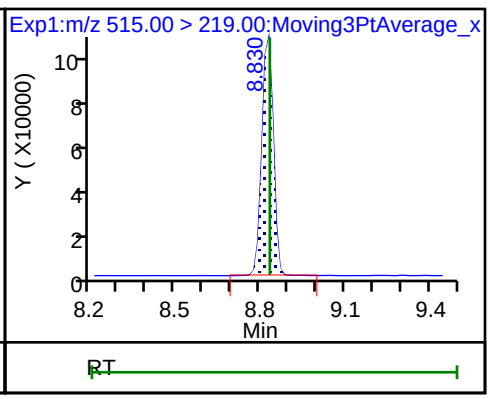
D 71 d7-N-Me-FOSE



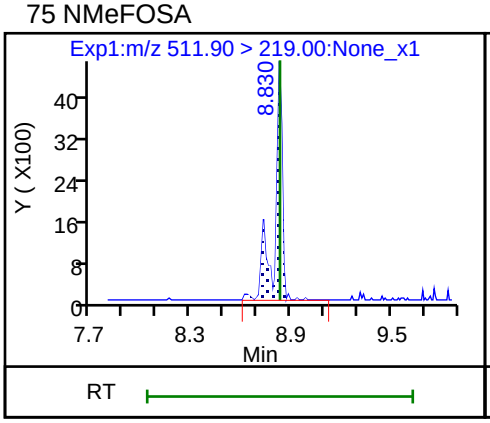
72 N-MeFOSE-M



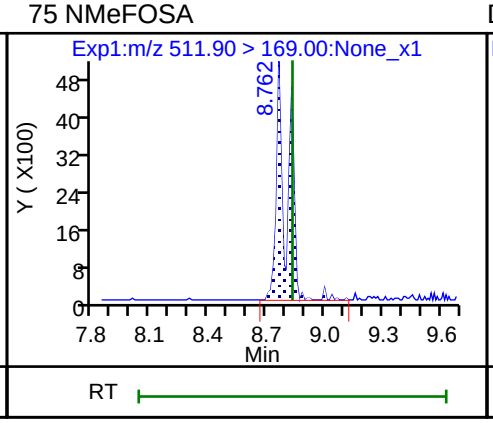
D 74 d3-NMePFOSA



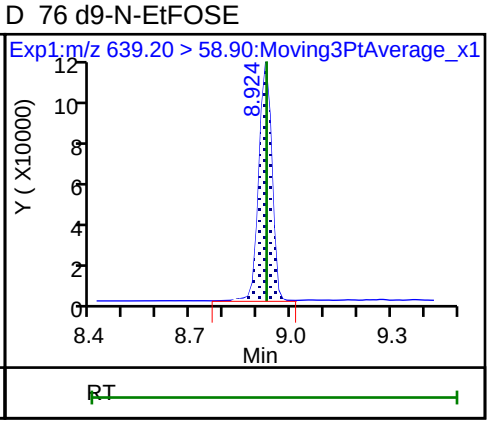
75 NMeFOSA



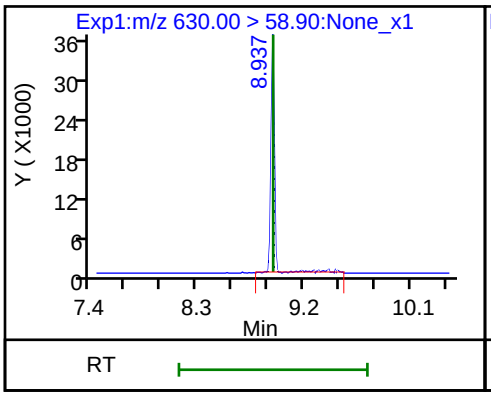
75 NMeFOSA



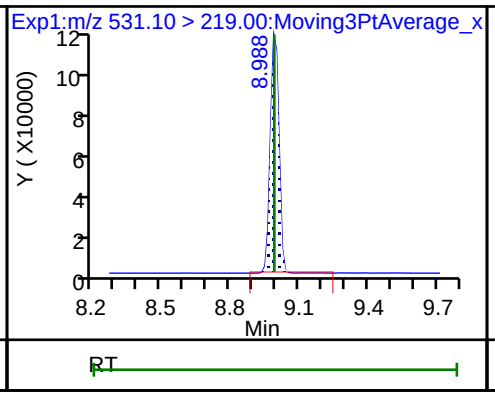
D 76 d9-N-EtFOSE



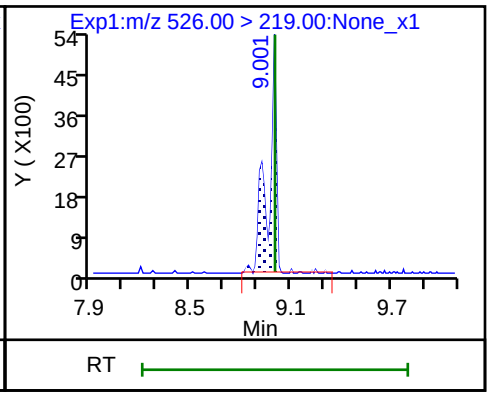
77 N-EtFOSE-M



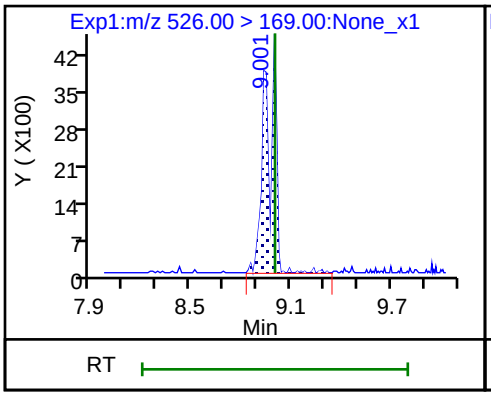
D 78 d5-NEtPFOSA



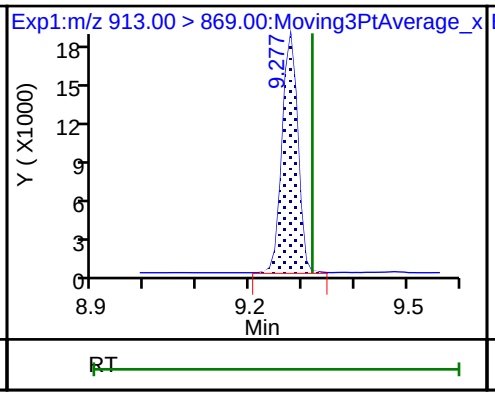
79 N-EtFOSA-M



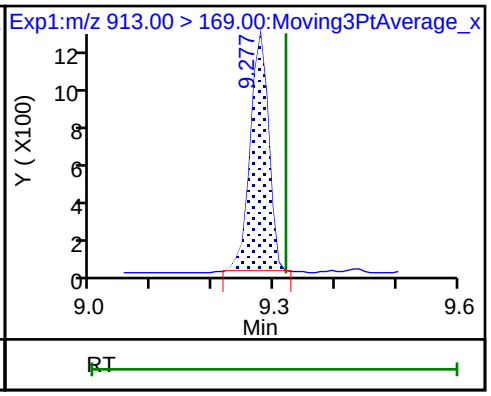
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

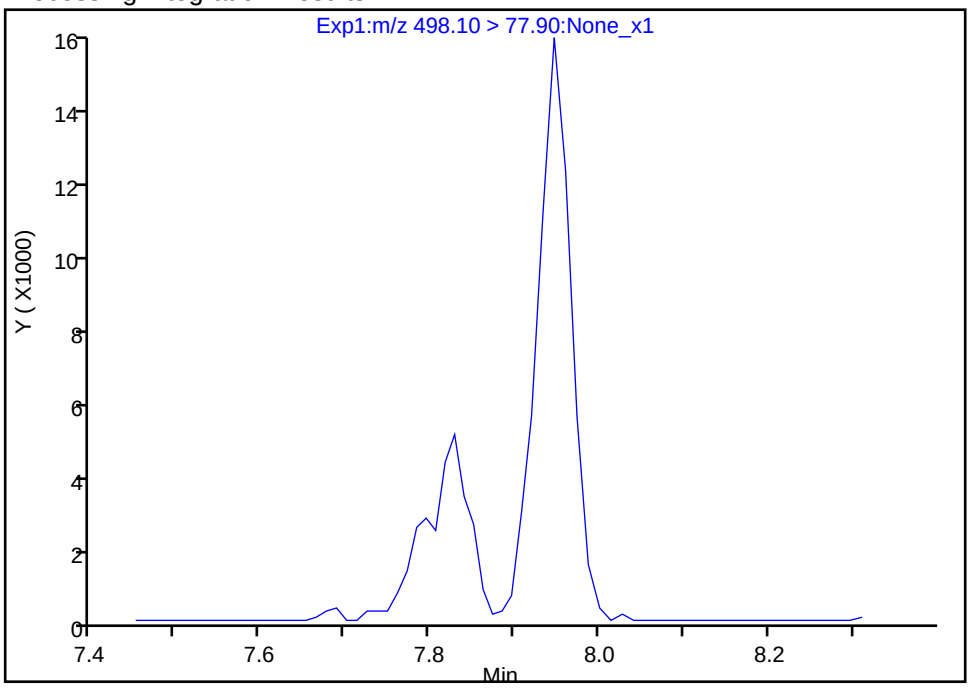
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Injection Date:	02-Feb-2026 22:10:56	Instrument ID:	30576		
Lims ID:	LLCS 410-763508/11-A				
Client ID:					
Operator ID:	ETUS023_USR_INS00008	ALS Bottle#:	45	Worklist Smp#:	45
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30576-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

65 PFOSA, CAS: 754-91-6

Signal: 1

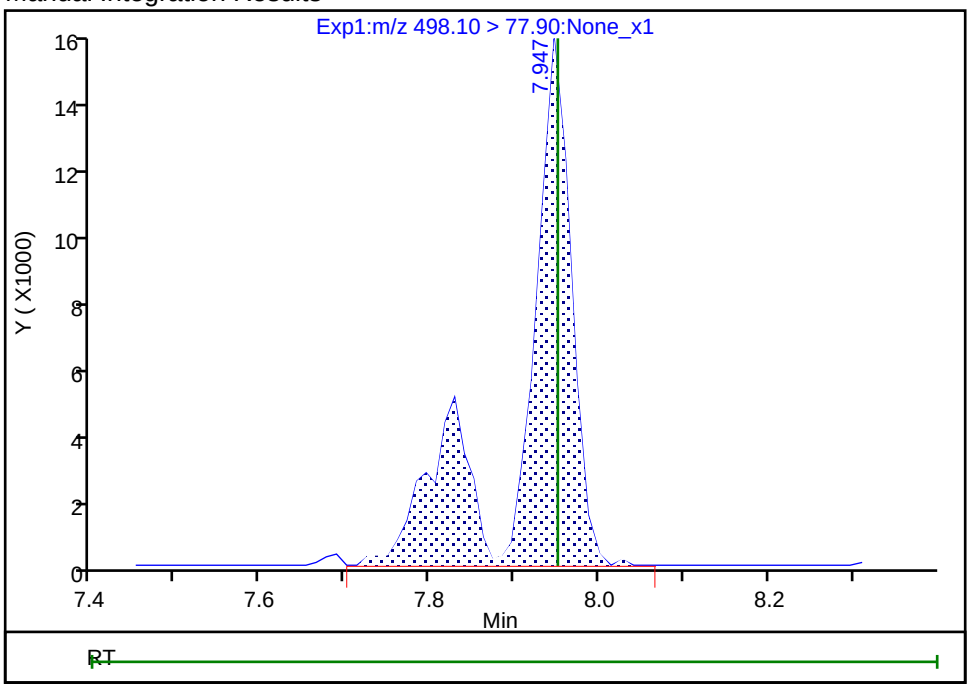
Processing Integration Results

Not Detected
Expected RT: 7.95



Manual Integration Results

RT: 7.95
Area: 61509
Amount: 0.094026
Amount Units: ng/ml



Reviewer: VGQ7, 03-Feb-2026 11:16:10 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

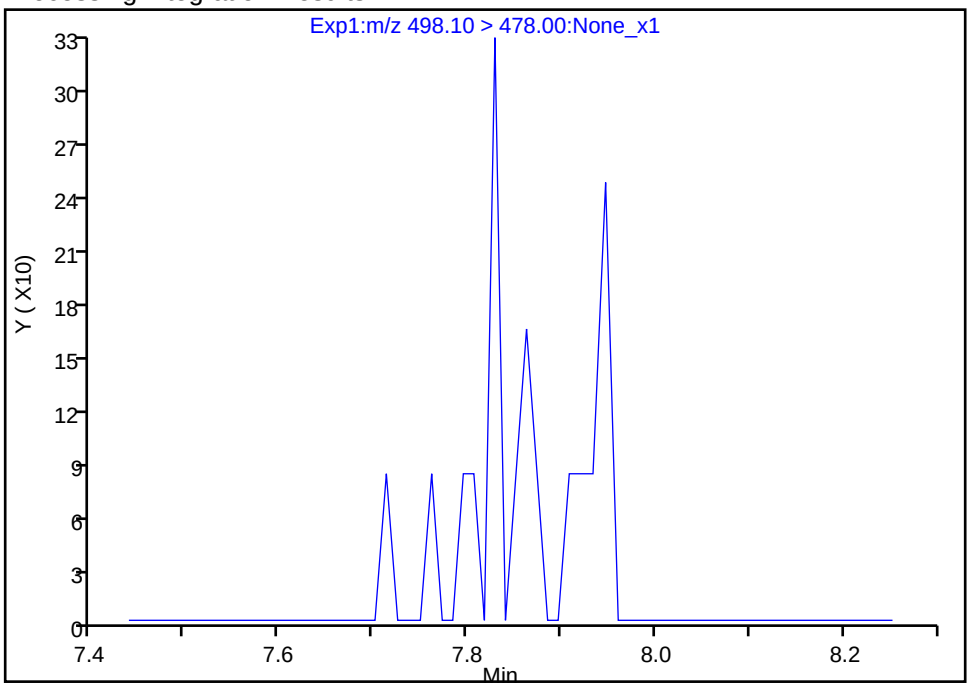
Data File: \\chromfs\Lancaster\ChromData\30576\20260202-174324.b\26Feb02n-04.d
Injection Date: 02-Feb-2026 22:10:56 Instrument ID: 30576
Lims ID: LLCS 410-763508/11-A
Client ID:
Operator ID: ETUS023_USR_INS00008 ALS Bottle#: 45 Worklist Smp#: 45
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Method: 30576-1633-125ml Limit Group: LC - 1633 LVI- ICAL
Column: Detector EXP1

65 PFOSA, CAS: 754-91-6

Signal: 2

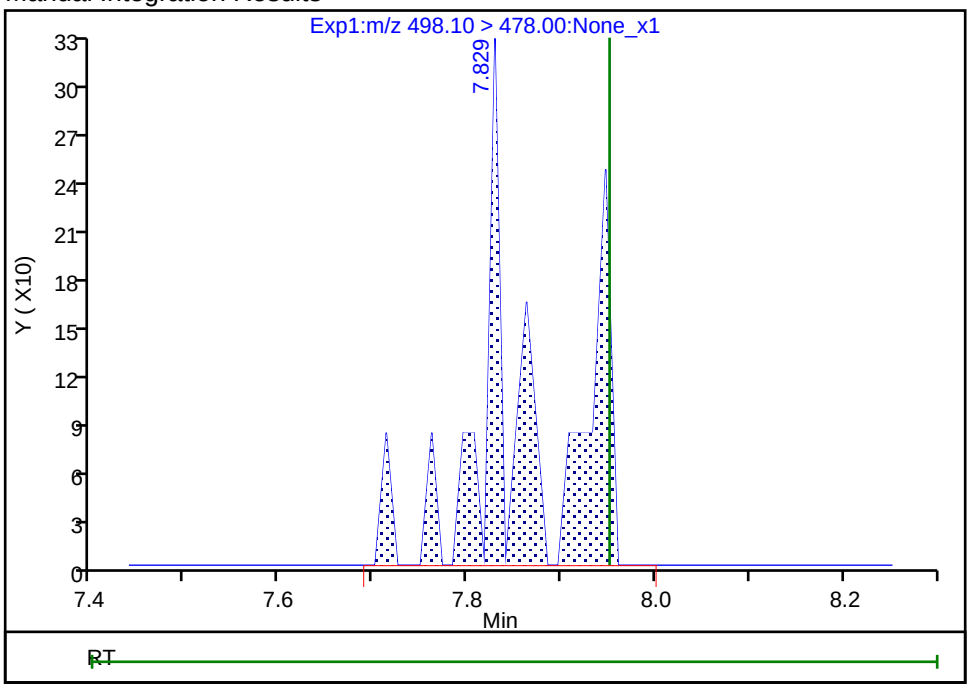
Not Detected
Expected RT: 7.95

Processing Integration Results



Manual Integration Results

RT: 7.83
Area: 1063
Amount: 0.094026
Amount Units: ng/ml



Reviewer: VGQ7, 03-Feb-2026 11:16:14 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-764041/3-A

Matrix: Solid
Lab File ID: 26Feb04SD-55.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.00(g)
Date Analyzed: 02/04/2026 18:51

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.472		0.40	0.10
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.270		0.20	0.10
307-24-4	Perfluorohexanoic acid (PFHxA)	0.216		0.20	0.10
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.252		0.20	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.239		0.20	0.060
375-95-1	Perfluorononanoic acid (PFNA)	0.237		0.20	0.10
335-76-2	Perfluorodecanoic acid (PFDA)	0.240		0.20	0.060
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.254		0.20	0.10
307-55-1	Perfluorododecanoic acid (PFDoA)	0.240		0.20	0.10
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.220		0.20	0.10
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.188	J	0.20	0.10
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.184	J	0.20	0.10
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.201		0.20	0.10
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.219		0.20	0.10
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.223		0.20	0.10
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.216		0.20	0.10
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.213		0.20	0.10
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.203		0.20	0.10
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.147	J	0.20	0.10
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.450		0.40	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.417		0.40	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.418		0.40	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.232		0.20	0.10
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.223		0.20	0.10
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.255		0.20	0.10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-764041/3-A

Matrix: Solid
Lab File ID: 26Feb04SD-55.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.00(g)
Date Analyzed: 02/04/2026 18:51

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.242		0.20	0.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.251		0.20	0.10
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.960	J	1.00	0.50
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.936	J	1.00	0.50
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.164	J	0.20	0.10
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.218		0.20	0.10
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.279		0.20	0.10
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.216		0.20	0.10
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.227		0.20	0.10
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.205		0.20	0.10
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.192	J	0.20	0.10
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.208		0.20	0.10
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.565		0.40	0.20
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.100		1.00	0.50
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.067		1.00	0.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-764041/3-A

Matrix: Solid
Lab File ID: 26Feb04SD-55.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.00(g)
Date Analyzed: 02/04/2026 18:51

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	103		8-130
2283397-79-3	13C5 PFPeA	90.1		35-130
2328024-54-8	13C5 PFHxA	93.4		40-130
2328024-55-9	13C4 PFHpA	98.2		40-130
1350614-84-4	13C8 PFOA	102		40-130
2283397-80-6	13C9 PFNA	92.9		40-130
2328024-56-0	13C6 PFDA	94.1		40-130
STL02580	13C7 PFUnA	85.5		40-130
STL02116	13C2 PFTeDA	58.0		20-130
2708218-83-9	13C3 PFBS	109		40-135
2708218-85-1	13C3 PFHxS	104		40-130
2265893-05-6	13C8 PFOS	87.8		40-130
STL01056	13C8 FOSA	80.8		40-130
1400690-70-1	d3-NMeFOSAA	84.5		40-135
1265205-97-7	d5-NEtFOSAA	72.4		40-150
STL02395	13C2 4:2 FTS	93.5		40-165
STL02279	13C2 6:2 FTS	100		40-215
STL02280	13C2 8:2 FTS	100		40-275
STL02255	13C3 HFPO-DA	94.3		40-130
STL02277	d7-N-MeFOSE-M	10.1	*	20-130
STL02278	d9-N-EtFOSE-M	5.25	*	15-130
STL02704	d5-NEtPFOSA	51.9		10-130
STL02705	d3-NMePFOSA	56.4		10-130
960315-52-0	13C2 PFDoA	80.3		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-55.d
Lims ID: LLCS 410-764041/3-A
Client ID:
Sample Type: LLCS
Inject. Date: 04-Feb-2026 18:51:31 ALS Bottle#: 38 Worklist Smp#: 138
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: LLCS 410-764041/3-A
Misc. Info.: Plate: 1 Rack: 1 410-0174617-138
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 21:19:45 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 19:26:27
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										M
163.00 > 119.00	2.073	2.098	-0.025	0.996	349667	0.4708		94.2	119	M
D 2 13C3PFPrA										
166.00 > 121.00	2.081	2.114	-0.033	0.478	1599492	1.90		95.1	1125	
5 PFBA										
212.80 > 168.90	4.349	4.330	0.019	1.000	254919	0.1886		94.3	513	
D 6 13C4-PFBA										
216.80 > 171.90	4.349	4.338	0.011	0.998	2878963	2.05		103	19579	
* 7 13C3PFBA										
216.00 > 172.00	4.357	4.338	0.019		2320124	2.00			5500	
9 PFMPA										
229.00 > 84.90	4.649	4.627	0.022	0.935	116926	0.1116		112	540	
10 3:3 FTCA										
241.00 > 177.00	4.649	4.637	0.012	0.935	11432	0.2261	Target=1.28	113	192	
241.00 > 117.00	4.649	4.637	0.012	0.935	9581		1.19(0.64-1.92)		177	
D 11 13C5 PFPeA										
268.30 > 223.00	4.971	4.955	0.016	0.917	1960127	1.80		90.1	7182	
12 PFPA										
263.00 > 219.00	4.971	4.968	0.003	1.000	120452	0.1079		108	111	
13 PFMBA										
279.00 > 85.10	5.128	5.112	0.016	1.032	109194	0.0864		86.4	771	
15 4:2FTS										
327.10 > 307.00	5.244	5.240	0.004	1.000	68034	0.1799	Target=1.67	95.9	24359	
327.10 > 80.90	5.244	5.240	0.004	1.000	39793		1.71(0.83-2.50)		74.3	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.244	5.240	0.004	0.816	1022745	4.38		93.5	7211	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.395	5.378	0.017	0.995	51053	0.0908	Target=1.57	90.8	293	
295.00 > 84.90	5.382	5.378	0.004	0.992	33634		1.52(0.78-2.35)		203	
D 17 13C5 PFHxA										
318.00 > 273.00	5.423	5.418	0.005	1.000	2863664	1.87		93.4	18674	
* 18 13C2 PFHxA										
315.10 > 270.00	5.423	5.432	-0.009		6634915	5.00			23573	
19 PFHxA										
313.00 > 269.00	5.423	5.432	-0.009	1.000	118612	0.0863	Target=12.08	86.3	60.0	
313.00 > 118.90	5.423	5.432	-0.009	1.000	11388		10.42(6.04-18.11)		42.6	
22 5:3 FTCA										
341.00 > 237.10	5.506	5.500	0.006	1.015	77131	0.4398	Target=0.89	88.0	403	
341.00 > 217.00	5.506	5.500	0.006	1.015	88155		0.87(0.45-1.34)		385	
21 PFBS										
298.70 > 79.90	5.560	5.568	-0.008	1.000	85432	0.0734	Target=3.03	82.7	515	
298.70 > 98.80	5.560	5.568	-0.008	1.000	29348		2.91(1.52-4.55)		123	
D 20 13C3 PFBS										
302.10 > 79.90	5.560	5.568	-0.008	0.865	2395734	2.04		109	4859	
28 FBSA										
297.90 > 78.00	5.560	5.582	-0.022	1.000	75738	0.0740		74.0	224	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.603	5.611	-0.008	1.033	1979309	1.89		94.3	4908	
24 HFPO-DA										
284.90 > 168.90	5.603	5.611	-0.008	1.000	62427	0.0658	Target=2.32	87.7	207	
284.90 > 184.90	5.603	5.611	-0.008	1.000	29293		2.13(1.16-3.48)		153	
25 PFEESA										
314.80 > 134.90	5.783	5.791	-0.008	1.067	249515	0.0832	Target=13.29	93.3	944	
314.80 > 82.90	5.797	5.791	0.006	1.069	21750		11.47(6.64-19.93)		115	
27 PFHpA										
363.10 > 319.00	5.837	5.845	-0.008	1.000	145967	0.1008	Target=2.38	101	68.1	
363.10 > 169.00	5.849	5.845	0.004	1.002	60465		2.41(1.19-3.58)		84.9	
D 26 13C4 PFHpA										
367.10 > 322.00	5.837	5.845	-0.008	1.076	2953623	1.96		98.2	3851	
29 ADONA										
376.90 > 250.90	5.981	5.988	-0.007	1.067	281791	0.0871	Target=1.85	92.1	2873	
376.90 > 84.80	5.981	5.988	-0.007	1.067	156192		1.80(0.92-2.77)		906	
32 PFPeS										
349.10 > 79.90	6.015	6.033	-0.018	0.936	101906	0.0804	Target=3.35	85.6	437	
349.10 > 98.90	6.015	6.033	-0.018	0.936	31486		3.24(1.68-5.03)		228	
31 6:2FTS										
427.10 > 407.00	6.026	6.033	-0.007	1.000	48153	0.1667	Target=1.88	87.5	226	
427.10 > 80.90	6.026	6.033	-0.007	1.000	26582		1.81(0.94-2.83)		143	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.026	6.033	-0.007	0.937	660244	4.77		100	3632	
33 BTS										
280.00 > 147.00	6.163	6.189	-0.026	0.959	211880	0.1020		102	864	
D 35 13C8 PFOA										
421.10 > 376.00	6.216	6.233	-0.017	1.000	3277963	2.04		102	7882	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 34 13C4 PFOA										
417.10 > 372.00	6.216	6.233	-0.017		8029987	5.00			10702	
36 PFOA										M
413.00 > 369.00	6.227	6.233	-0.006	1.002	118777	0.0956	Target=2.16	95.6	1686	M
413.00 > 169.00	6.227	6.233	-0.006	1.002	73174		1.62(1.08-3.25)		2369	
39 7:3 FTCA										
441.00 > 316.90	6.289	6.296	-0.007	1.160	68060	0.4268	Target=0.79	85.4	382	
441.00 > 336.90	6.289	6.296	-0.007	1.160	80465		0.85(0.39-1.18)		326	
40 PFHxS										
398.70 > 79.90	6.428	6.460	-0.032	1.000	108046	0.0875	Target=3.45	95.9	205	
398.70 > 98.90	6.442	6.460	-0.018	1.002	32523		3.32(1.73-5.18)		78.0	
* 38 18O2 PFHxS										
403.00 > 83.90	6.428	6.460	-0.032		1749251	1.90			6946	
D 37 13C3 PFHxS										
402.10 > 79.90	6.428	6.460	-0.032	1.000	1828183	1.98		104	6558	
43 PFNA										
463.00 > 419.00	6.601	6.620	-0.019	1.000	119866	0.0948	Target=2.87	94.8	17451	
463.00 > 219.00	6.601	6.620	-0.019	1.000	37666		3.18(1.44-4.31)		50.0	
D 42 13C9 PFNA										
472.10 > 427.00	6.601	6.620	-0.019	1.000	2882800	1.86		92.9	6444	
* 41 13C5 PFNA										
468.00 > 423.00	6.601	6.620	-0.019		3088599	2.00			7913	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.772	6.790	-0.018	1.054	649766	4.82		100	3529	
45 8:2FTS										
527.10 > 507.00	6.772	6.790	-0.018	1.000	37201	0.1674	Target=1.57	87.2	12800	
527.10 > 80.80	6.772	6.790	-0.018	1.000	25447		1.46(0.79-2.36)		187	
46 PFECHS										
461.00 > 381.00	6.795	6.824	-0.029	1.057	18990	0.0592	Target=0.30	64.1	93.6	
461.00 > 99.00	6.795	6.824	-0.029	1.057	81756		0.23(0.15-0.45)		194	
47 PFHpS										
449.00 > 79.90	6.829	6.857	-0.028	0.945	83128	0.0891	Target=3.53	93.4	422	
449.00 > 98.80	6.829	6.857	-0.028	0.945	22268		3.73(1.76-5.29)		6979	
53 FHxSA										
397.90 > 78.00	6.862	6.869	-0.007	1.068	109553	0.0829		82.9	485	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.921	6.940	-0.019	0.958	1495122	4.22		84.5	2767	
49 NMeFOSAA										
570.10 > 419.00	6.921	6.940	-0.019	1.000	32372	0.0969	Target=1.75	96.9	10128	
570.10 > 483.00	6.921	6.940	-0.019	1.000	15852		2.04(0.87-2.62)		38.9	
D 50 13C6 PFDA										
519.10 > 474.10	6.982	7.015	-0.033	1.000	2960649	1.88		94.1	7167	
* 52 13C2 PFDA										
515.10 > 470.10	6.982	7.015	-0.033		3084122	2.00			8361	
51 PFDA										
512.90 > 469.00	6.982	7.015	-0.033	1.000	119142	0.0961	Target=4.54	96.1	567	
512.90 > 219.00	6.982	7.015	-0.033	1.000	26321		4.53(2.27-6.81)		129	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.088	7.124	-0.036	0.981	1132260	3.62		72.4	4332	
55 NEtFOSAA										
584.20 > 419.10	7.088	7.124	-0.036	1.000	18678	0.1004	Target=1.38	100	7037	
584.20 > 526.00	7.101	7.124	-0.023	1.002	15561		1.20(0.69-2.07)		33.1	
58 PFOS										
498.90 > 79.90	7.224	7.255	-0.031	1.000	96536	0.0866	Target=4.26	93.1	26901	
498.90 > 98.80	7.224	7.255	-0.031	1.000	22480		4.29(2.13-6.40)		79.3	
D 56 13C8 PFOS										
507.10 > 79.90	7.224	7.267	-0.043	1.000	1481405	1.68		87.8	2728	
* 57 13C4 PFOS										
502.80 > 79.90	7.224	7.267	-0.043		1822989	1.92			11580	
D 59 13C7 PFUnA										
570.00 > 525.10	7.369	7.409	-0.040	1.055	3233274	1.71		85.5	9483	
60 PFUnA										
563.10 > 519.00	7.369	7.409	-0.040	1.000	121618	0.1017	Target=5.23	102	910	
563.10 > 269.10	7.358	7.409	-0.051	0.998	22562		5.39(2.62-7.85)		164	
61 9ClFOS										
530.80 > 351.00	7.522	7.566	-0.044	1.041	180289	0.0818	Target=3.05	87.6	2023	
532.80 > 353.00	7.522	7.566	-0.044	1.041	58084		3.10(1.53-4.58)		443	
62 PFNS										
548.80 > 79.90	7.615	7.656	-0.041	1.054	75913	0.0853	Target=3.70	88.7	639	
548.80 > 98.80	7.615	7.656	-0.041	1.054	21079		3.60(1.85-5.56)		6974	
D 81 PFDoA										
615.10 > 570.00	7.747	7.801	-0.054	1.110	2692009	1.61		80.3	6944	
63 PFDoA										
613.10 > 569.00	7.757	7.801	-0.044		115505	0.0962	Target=5.66	96.2	599	
613.10 > 319.00	7.757	7.801	-0.044		19146		6.03(2.83-8.49)		170	
64 PFOSA										
498.10 > 77.90	7.962	7.947	0.015	1.000	74764	0.0927	Target=43.43	92.7	200	
498.10 > 478.00	7.853	7.947	-0.094	0.986	2892		25.85(21.71-65.14)		7.0	
D 65 13C8 FOSA										
506.10 > 77.80	7.962	7.957	0.005	1.102	1757979	1.62		80.8	6122	
66 PFDS										
599.00 > 79.90	7.983	8.031	-0.048	1.105	73286	0.0810	Target=3.54	84.0	848	
599.00 > 98.80	7.972	8.031	-0.059	1.104	19704		3.72(1.77-5.31)		295	
67 PFTrDA										
663.00 > 619.00	8.113	8.170	-0.057	0.961	100639	0.0880	Target=5.76	88.0	631	
663.00 > 168.90	8.113	8.170	-0.057	0.961	17199		5.85(2.88-8.64)		125	
68 11ClFOS										
630.90 > 450.90	8.255	8.314	-0.059	1.143	130837	0.0768	Target=3.06	81.4	1772	
632.90 > 452.90	8.255	8.314	-0.059	1.143	41716		3.14(1.53-4.59)		607	
70 PFTeDA										
713.10 > 168.90	8.441	8.494	-0.053	1.000	7034	0.0752	Target=1.07	75.2	71.9	
713.10 > 219.00	8.441	8.494	-0.053	1.000	7492		0.94(0.54-1.61)		118	
D 69 13C2 PFTeDA										
715.20 > 670.00	8.441	8.494	-0.053	1.209	1072619	1.16		58.0	3511	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
73 PFDoS										
699.10 > 79.90	8.599	8.667	-0.068	1.190	31467	0.0587	Target=4.17	60.5	323	
699.10 > 98.80	8.599	8.667	-0.068	1.190	8339		3.77(2.09-6.26)		2660	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.728	8.723	0.005	1.208	80551	0.5055		10.1	73.6	
72 N-MeFOSE-M										M
616.10 > 58.90	8.742	8.737	0.005	1.002	16618	0.3839		76.8	3934	M
D 74 d3-NMePFOSA										
515.00 > 219.00	8.829	8.809	0.020	1.222	278937	1.13		56.4	2347	
75 NMeFOSA										
511.90 > 219.00	8.829	8.809	0.020	1.000	12722	0.0891	Target=0.69	89.1	78.9	
511.90 > 169.00	8.829	8.809	0.020	1.000	20190		0.63(0.34-1.03)		101	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.916	8.897	0.019	1.234	42563	0.2625		5.3	70.8	
77 N-EtFOSE-M										M
630.00 > 58.90	8.930	8.911	0.019	1.002	12594	0.3744		74.9	3416	M
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.985	8.967	0.018	1.244	312977	1.04		51.9	2591	
79 N-EtFOSA-M										
526.00 > 219.00	8.985	8.981	0.004	1.000	15014	0.1018	Target=0.78	102	139	
526.00 > 169.00	8.944	8.981	-0.037	0.995	20932		0.72(0.39-1.17)		132	
80 Perfluorooctadecanoic acid										7Ma
913.00 > 869.00	9.135	9.238	-0.103	1.082	4818	0.009467	Target=11.85	9.5	264	7a
913.00 > 169.00	9.135	9.238	-0.103	1.082	417		11.55(5.92-17.77)		17.3	M
LOD = 0.0125										

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

1633_125_IS_V_00592 Amount Added: 50.00 Units: uL

Report Date: 04-Feb-2026 21:22:31 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-55.d

Injection Date: 04-Feb-2026 18:51:31 Instrument ID: 30575

Lims ID: LLCS 410-764041/3-A

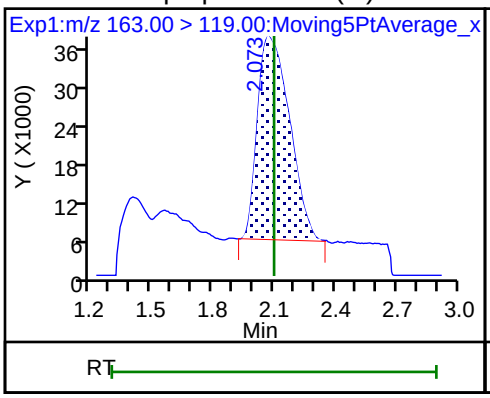
Client ID:

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 38 Worklist Smp#: 138

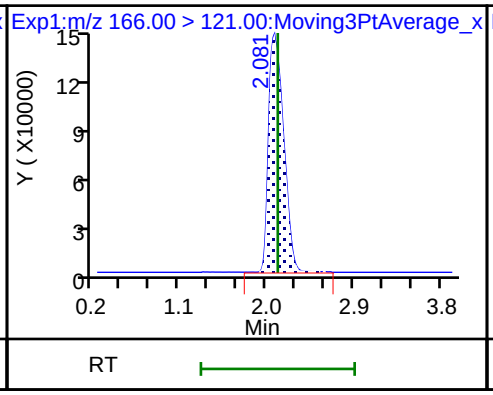
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

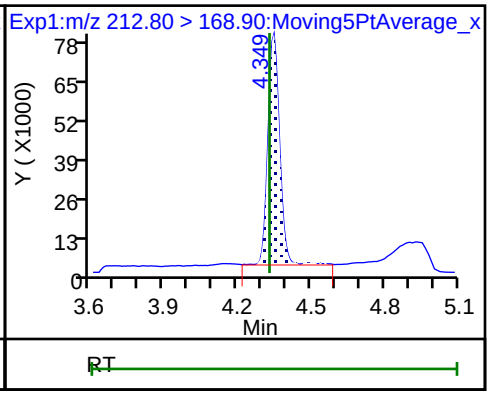
1 Perfluoropropionic acid (M)



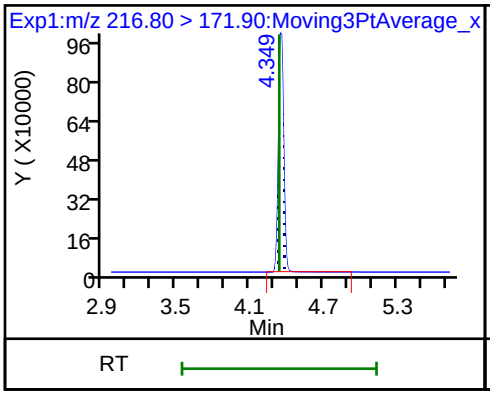
D 2 13C3PFPrA



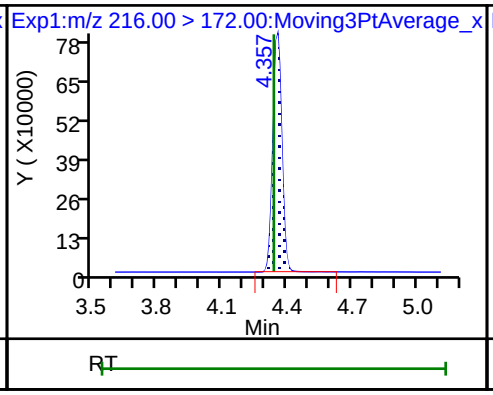
5 PFBA



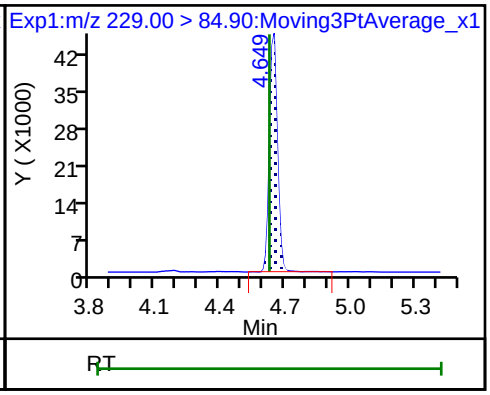
D 6 13C4-PFBA



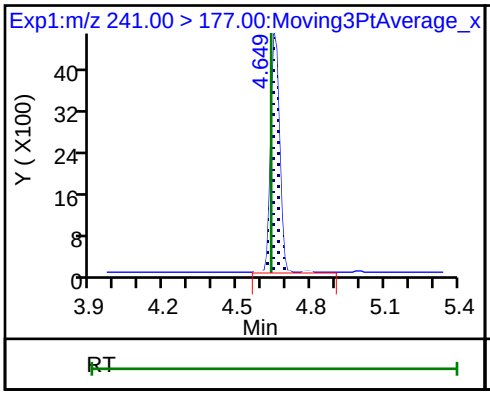
* 7 13C3PFBA



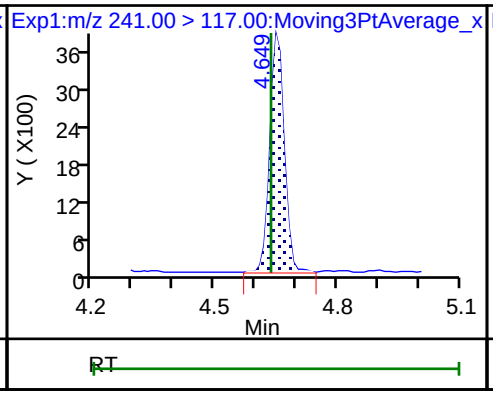
9 PFMPA



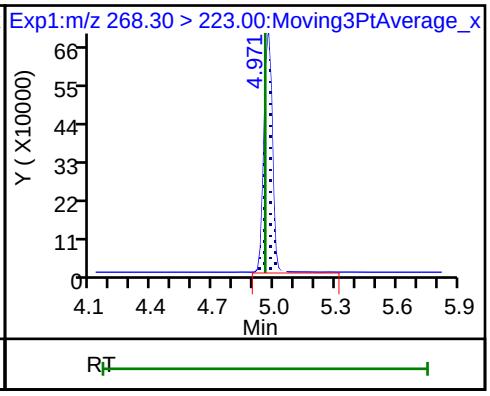
10 3:3 FTCA



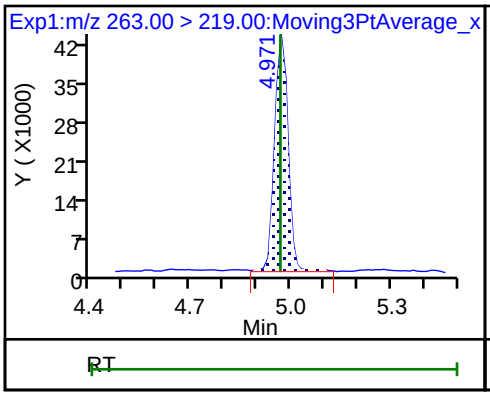
10 3:3 FTCA



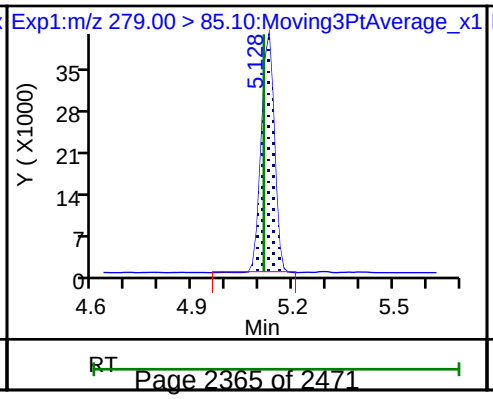
D 11 13C5 PFPeA



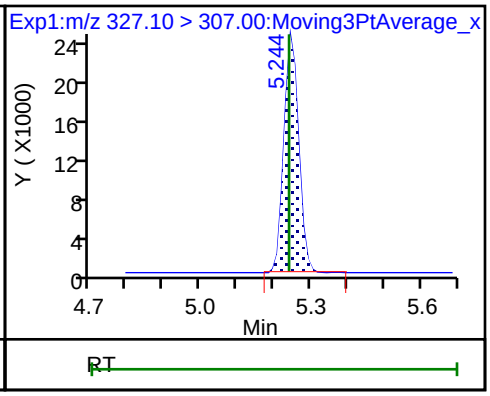
12 PFPA



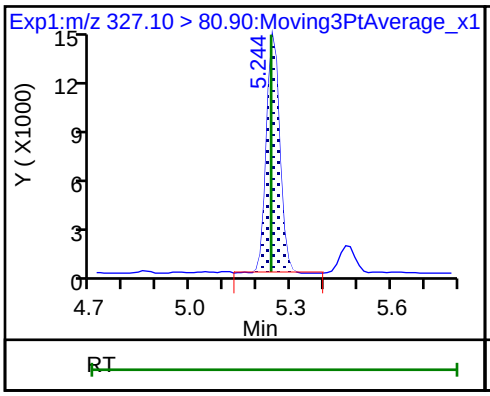
13 PFMBA



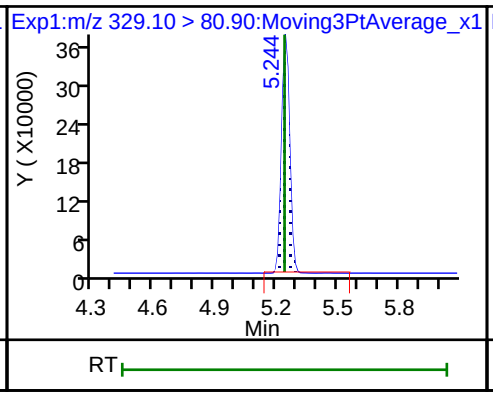
15 4:2FTS



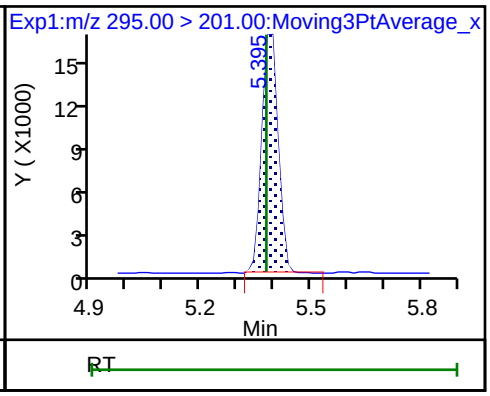
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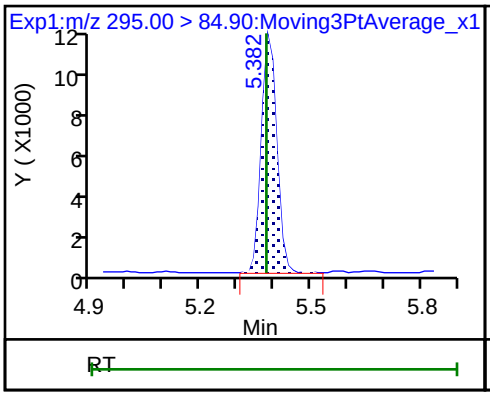
D 14 13C2-4:2FTS



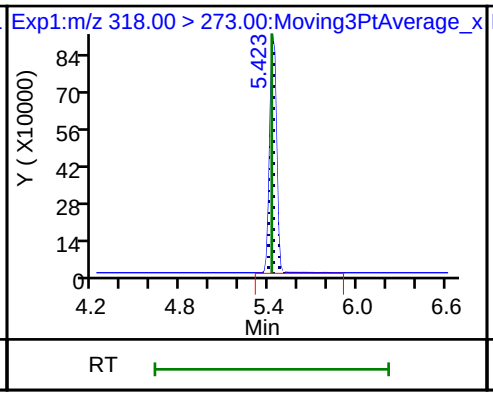
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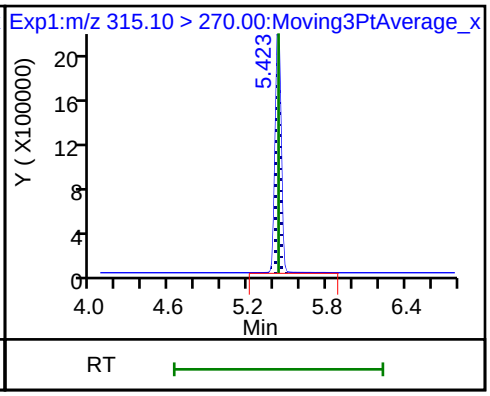
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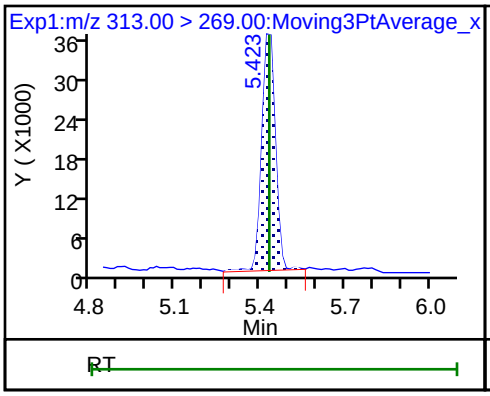
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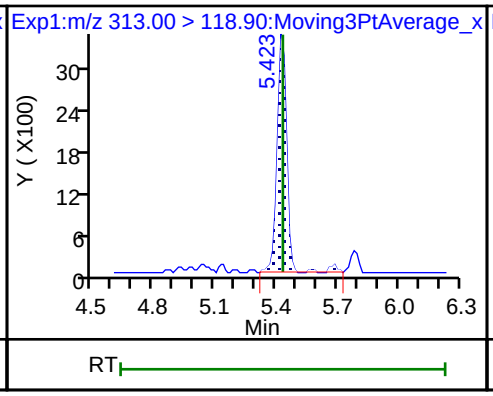
* 18 13C2 PFHxA



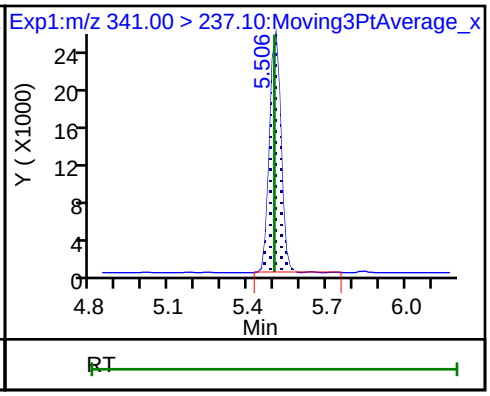
19 PFHxA



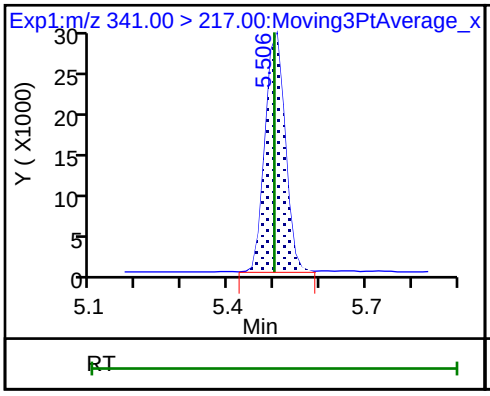
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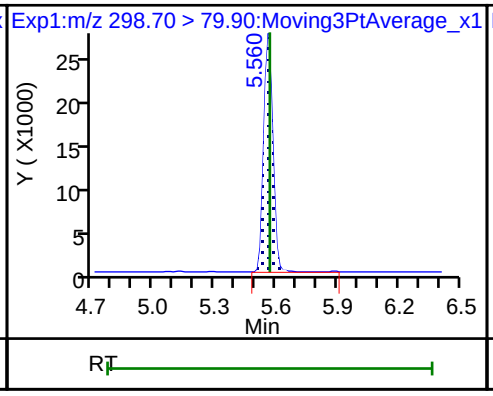
22 5:3 FTCA



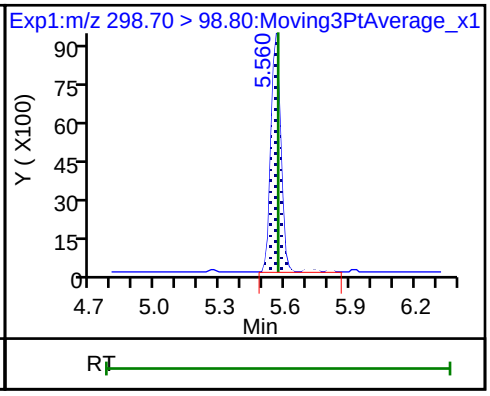
22 5:3 FTCA



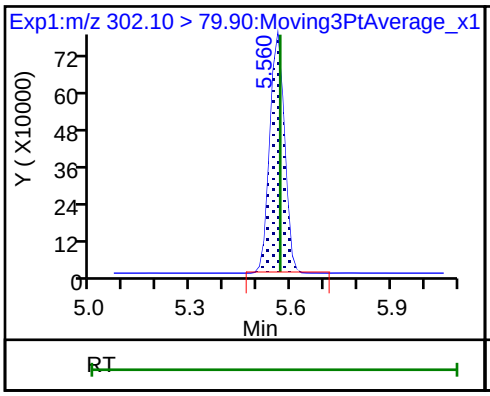
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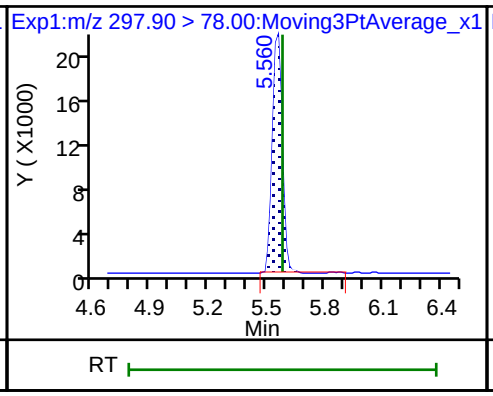
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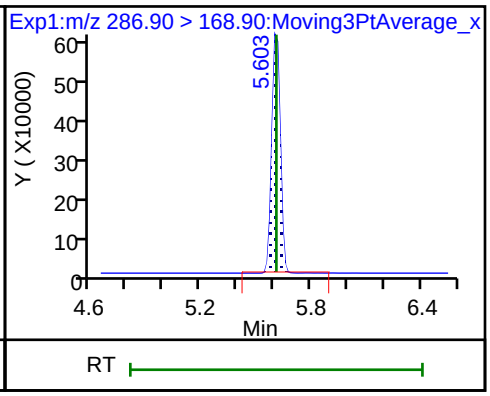
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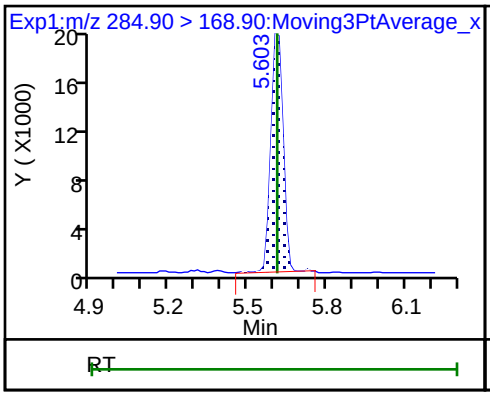
28 FBSA



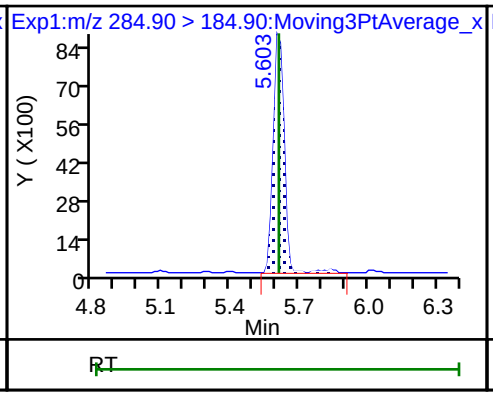
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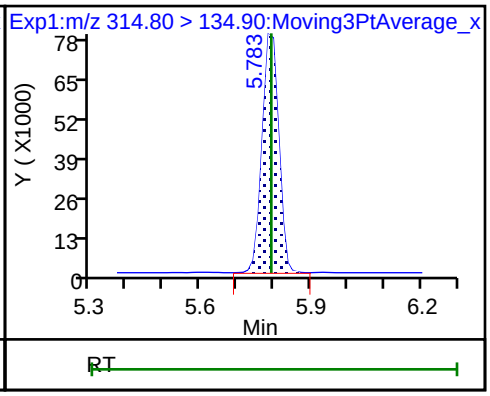
24 HFPO-DA



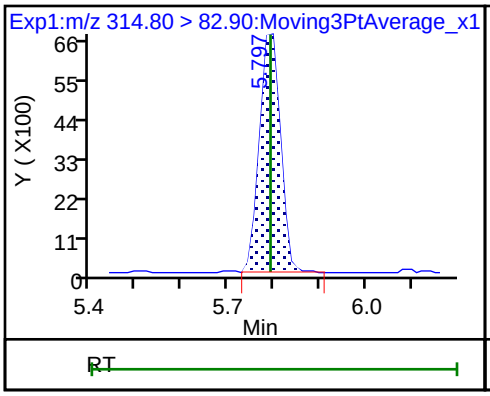
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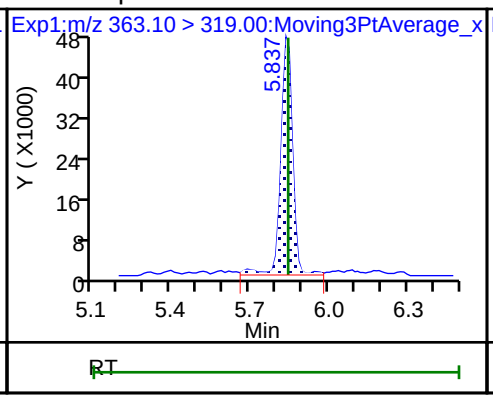
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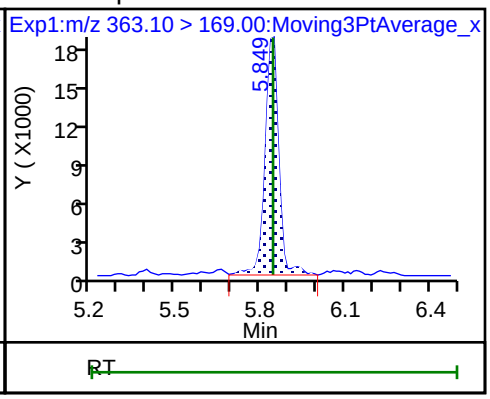
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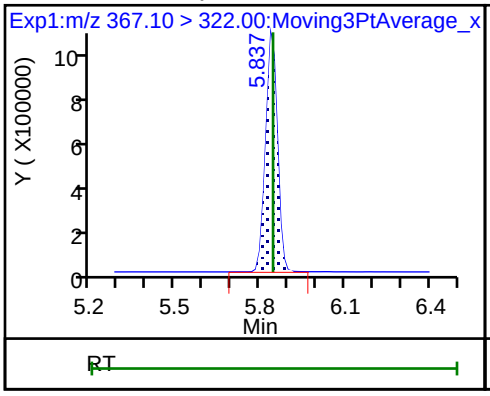
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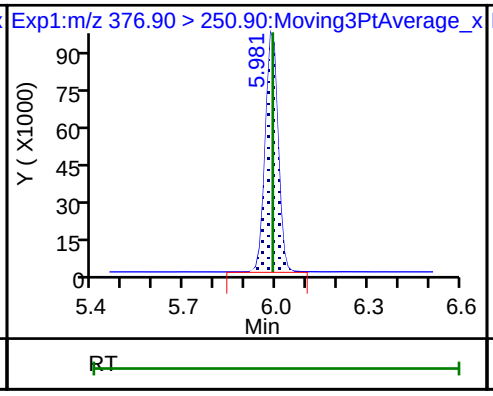
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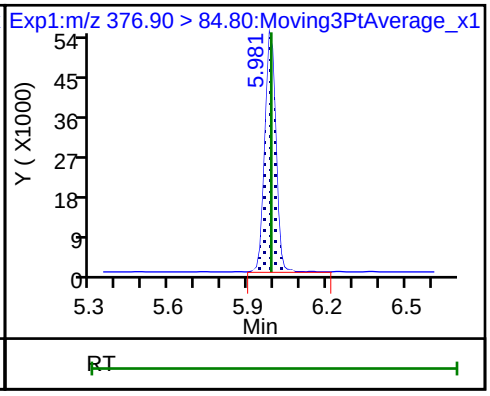
D 26 13C4 PFHpA



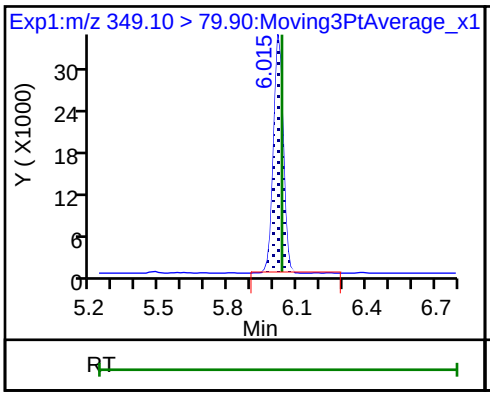
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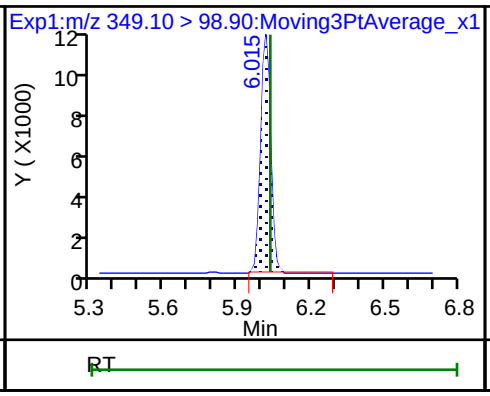
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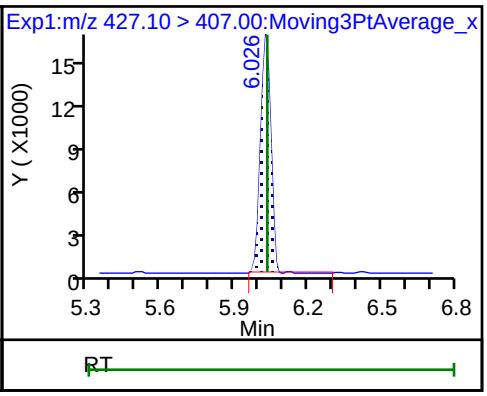
32 PFPeS



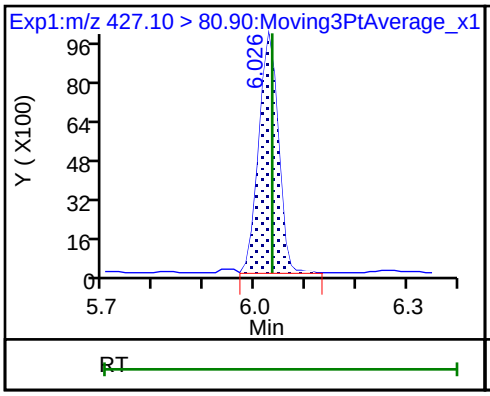
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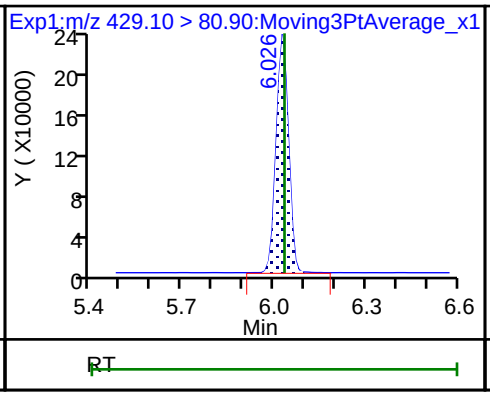
31 6:2FTS



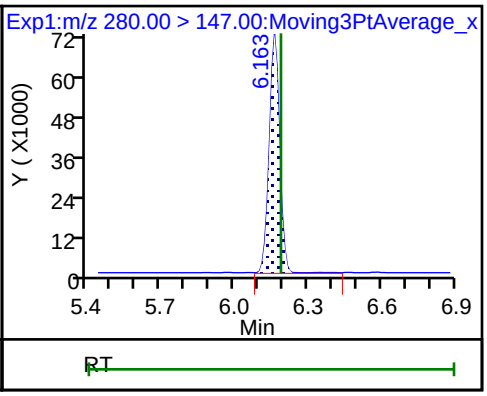
31 6:2FTS



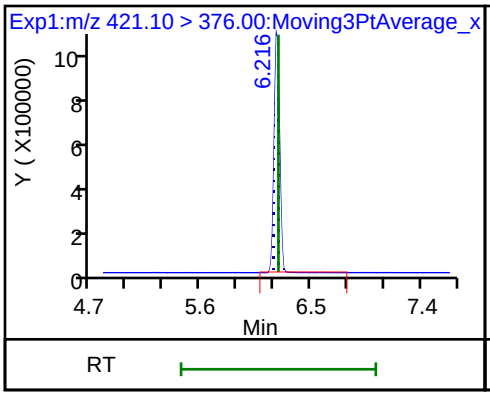
D 30 13C2-6:2FTS



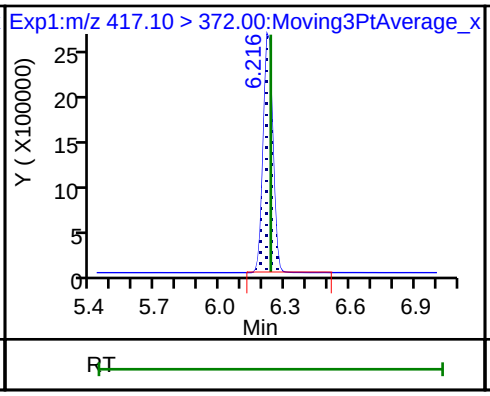
33 BTS



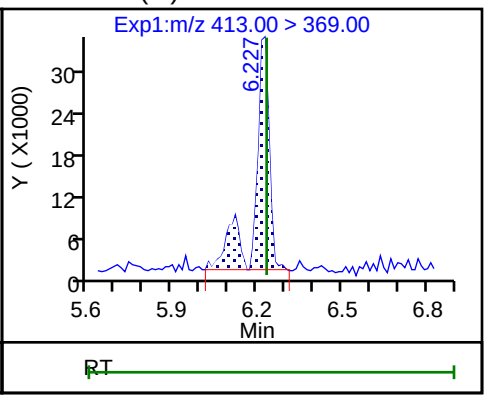
D 35 13C8 PFOA



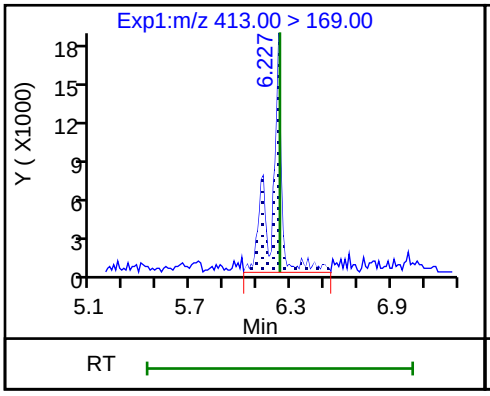
* 34 13C4 PFOA



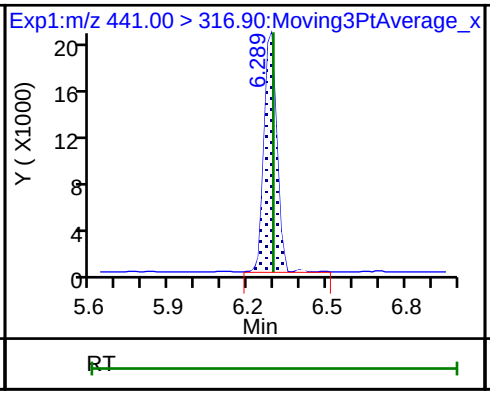
36 PFOA (M)



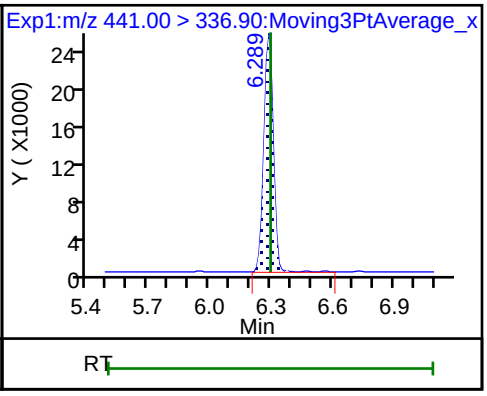
36 PFOA



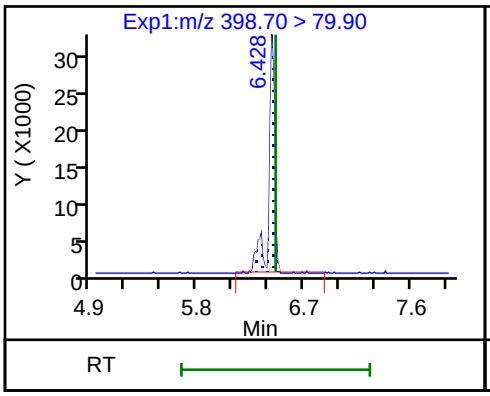
39 7:3 FTCA



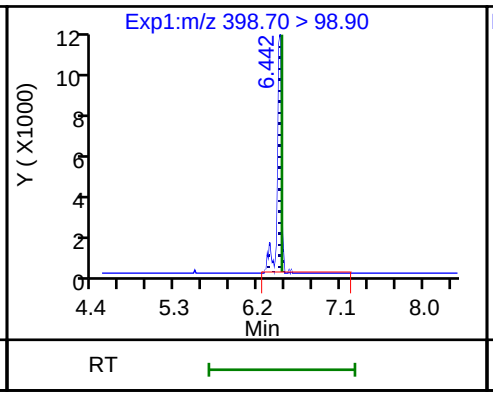
39 7:3 FTCA



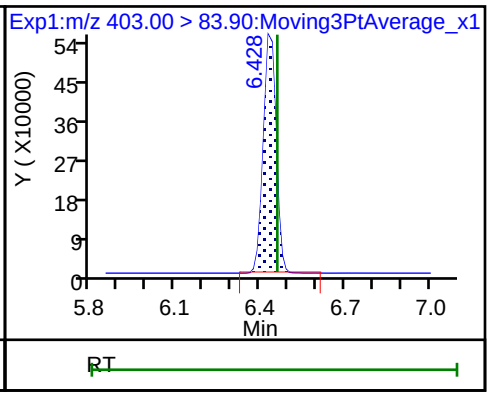
40 PFHxS



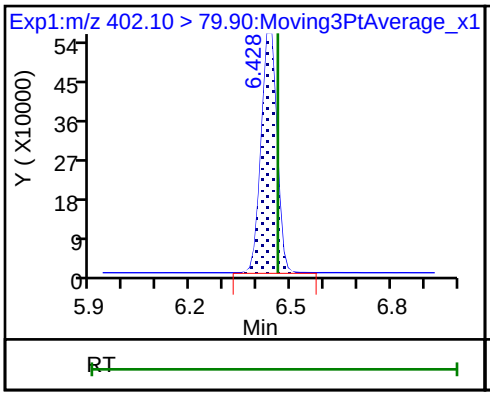
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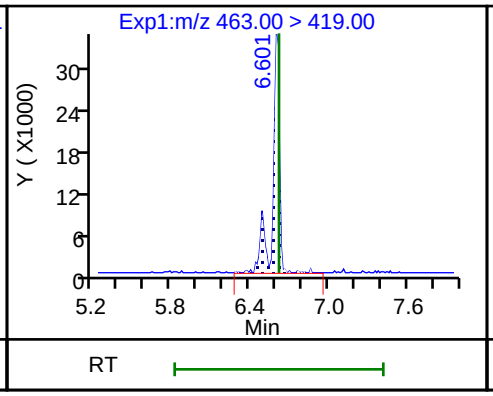
* 38 18O2 PFHxS



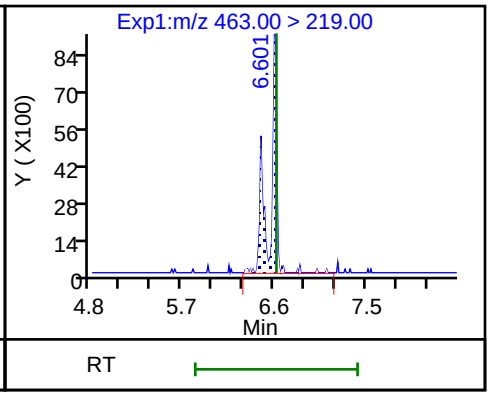
D 37 13C3 PFHxS



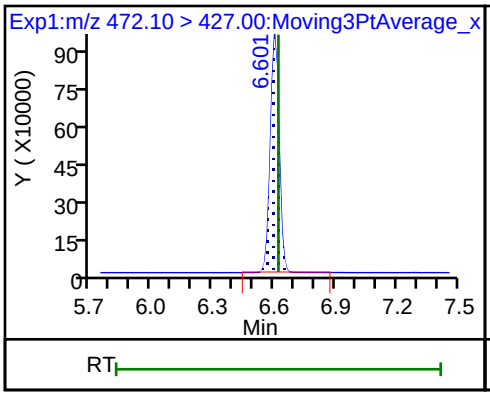
43 PFNA



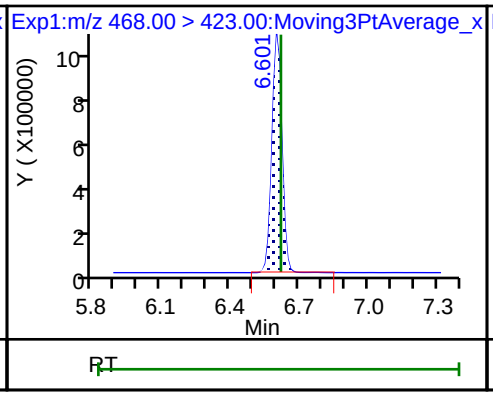
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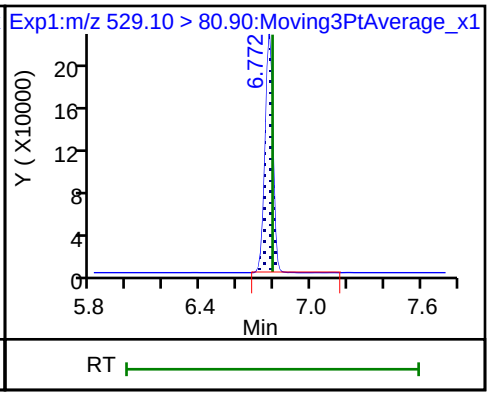
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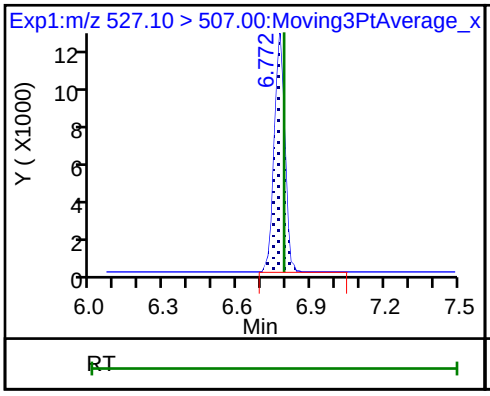
* 41 13C5 PFNA



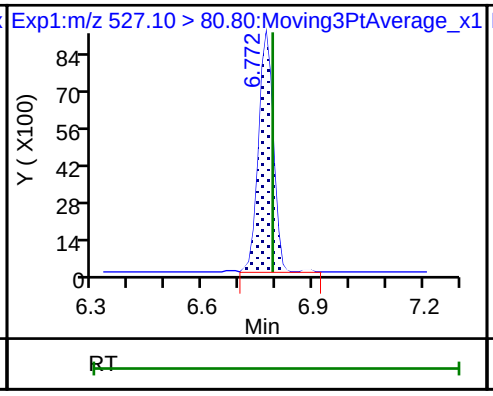
D 44 13C2-8:2FTS



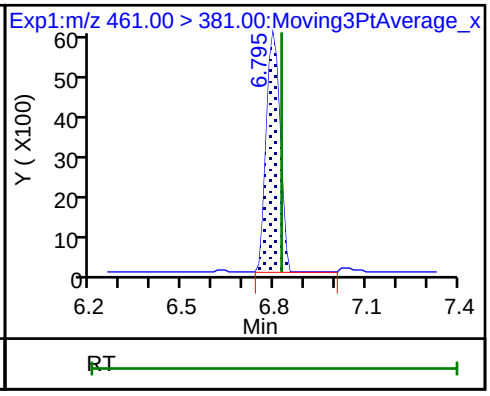
45 8:2FTS



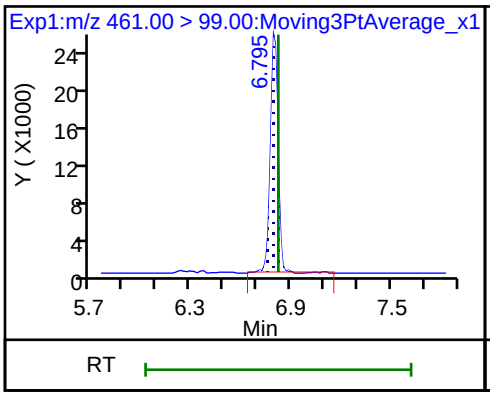
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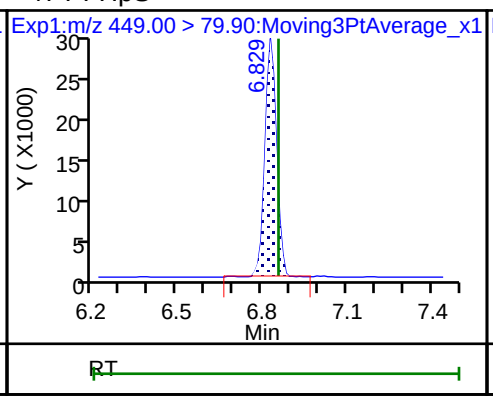
46 PFECHS



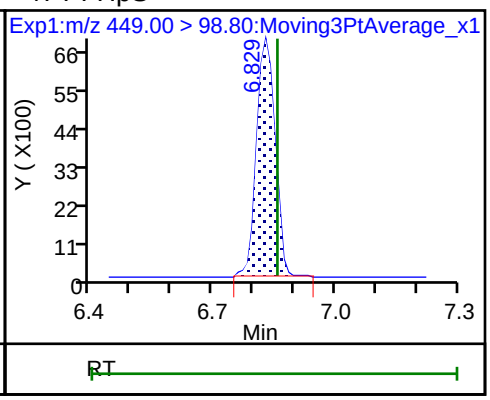
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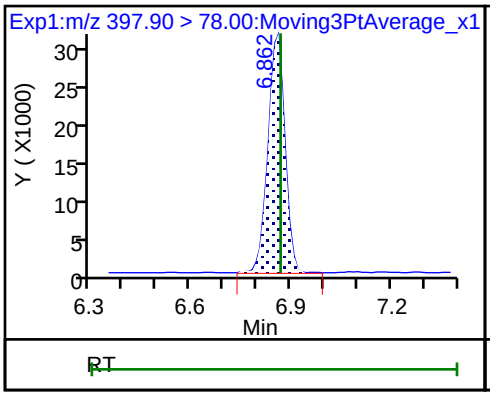
47 PFHpS



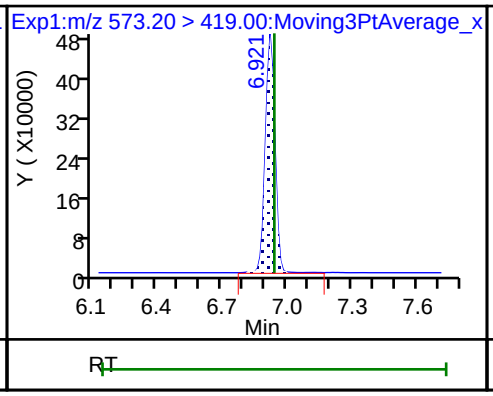
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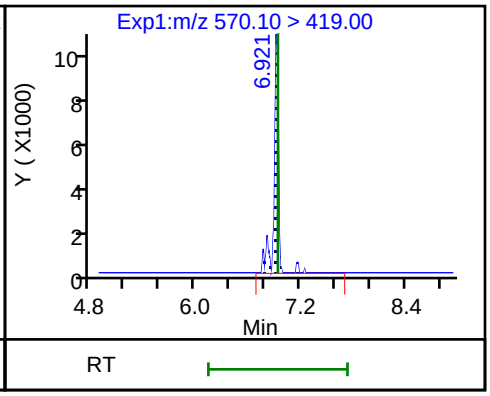
53 FHxSA



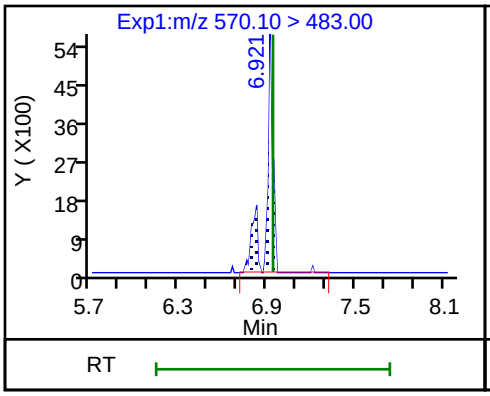
D 48 d3-NMeFOSAA



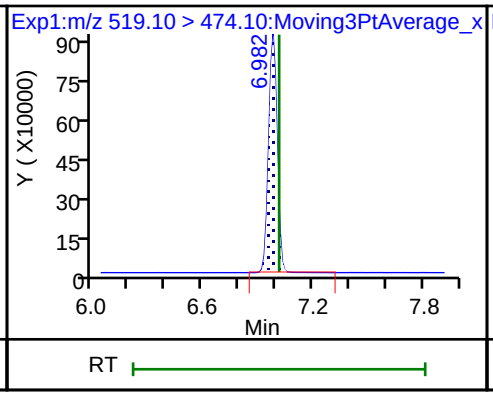
49 NMeFOSAA



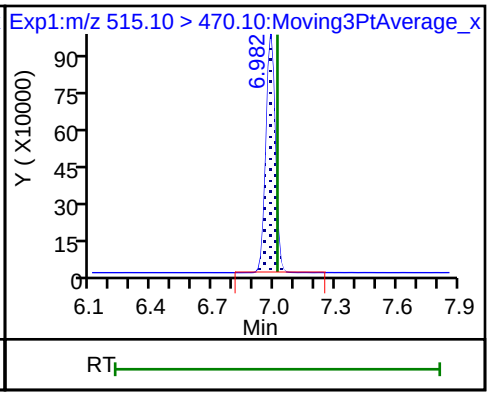
49 NMeFOSAA



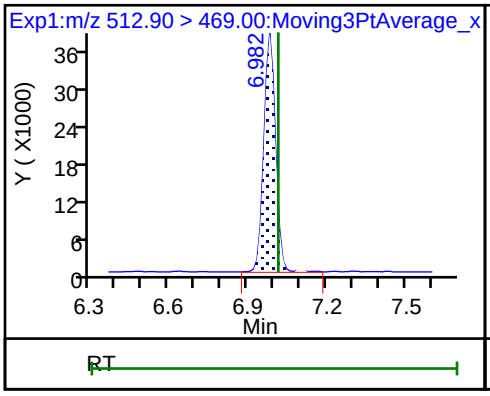
D 50 13C6 PFDA



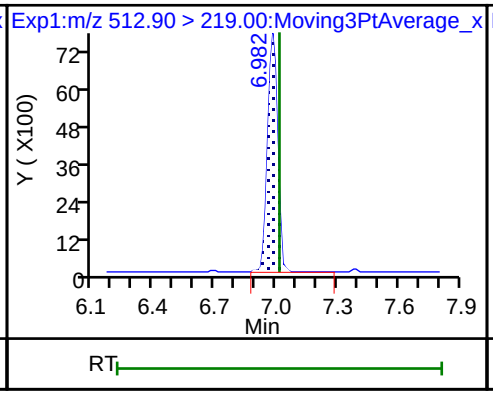
* 52 13C2 PFDA



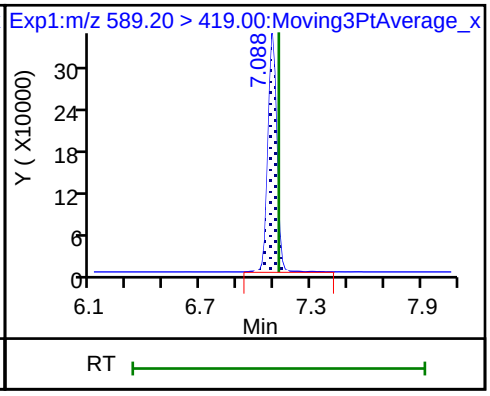
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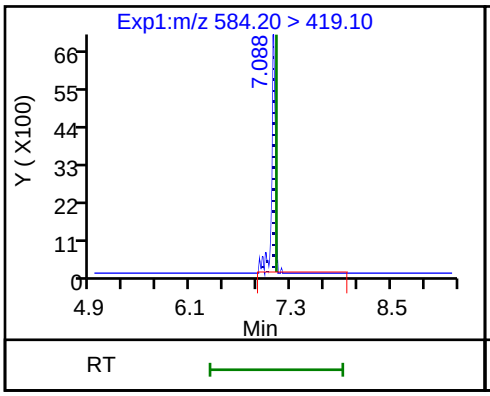
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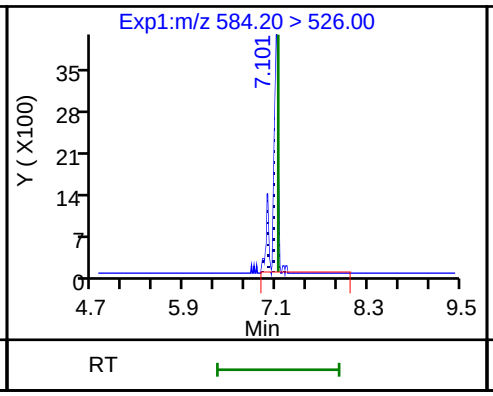
D 54 d5-NEtFOSAA



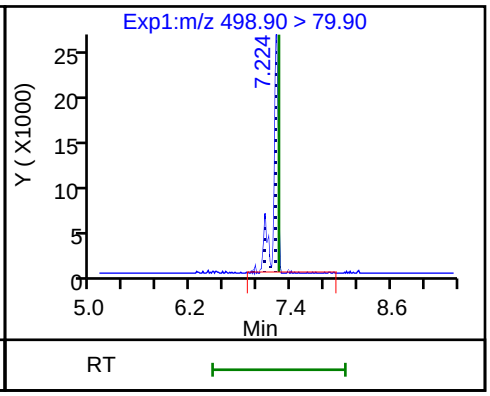
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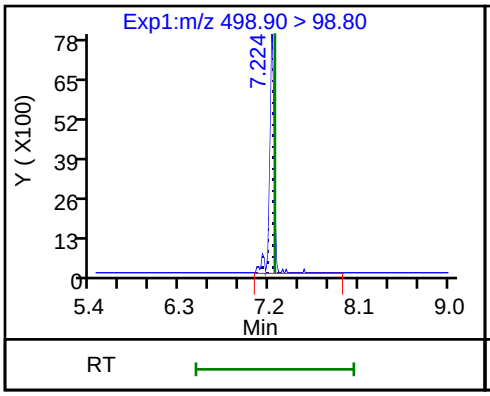
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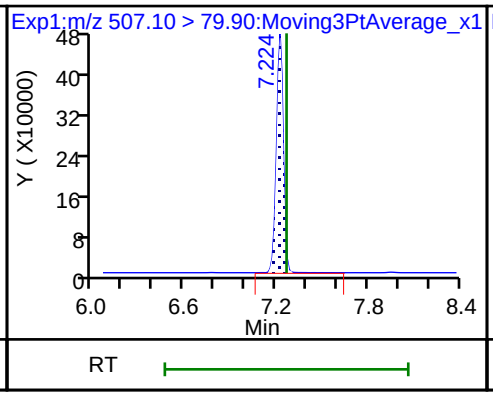
58 PFOS



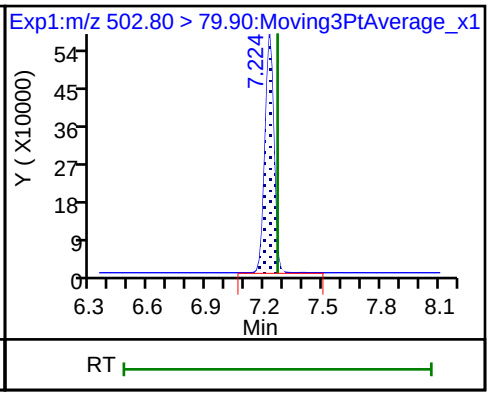
58 PFOS



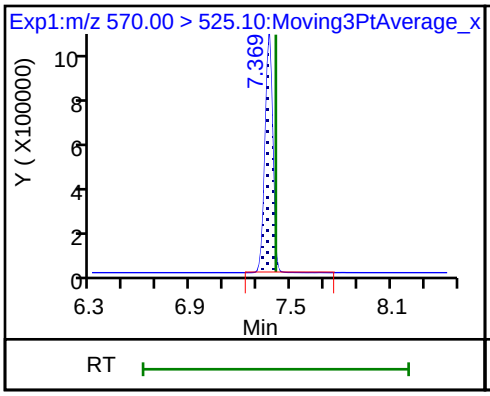
D 56 13C8 PFOS



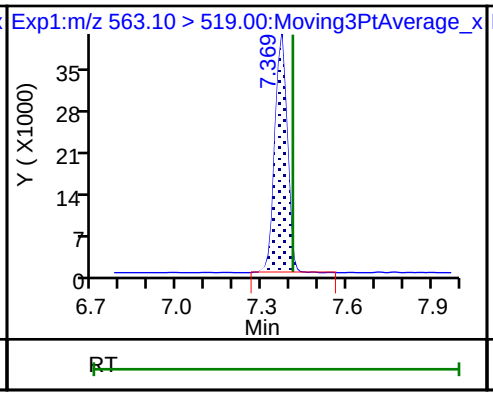
* 57 13C4 PFOS



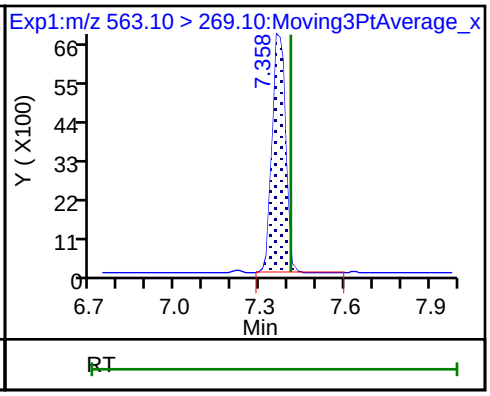
D 59 13C7 PFUnA



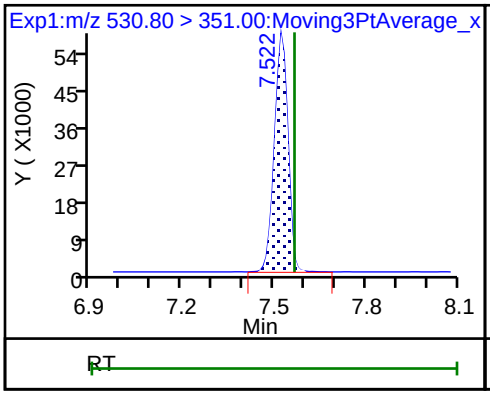
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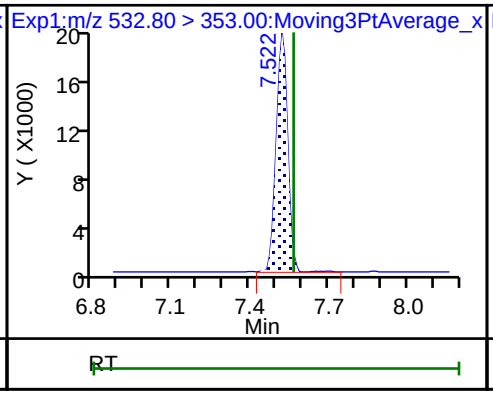
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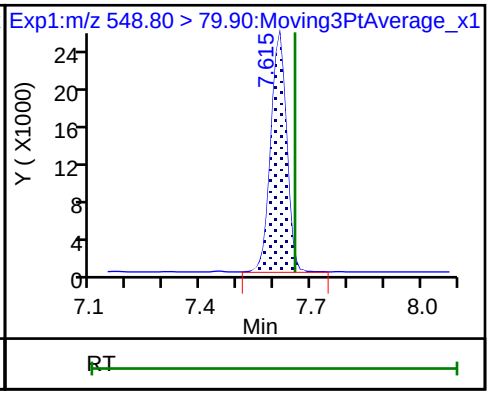
61 9ClFOS



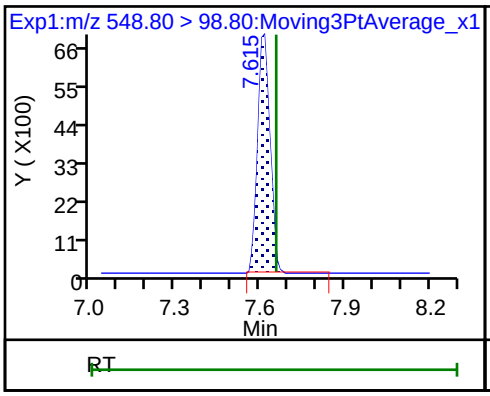
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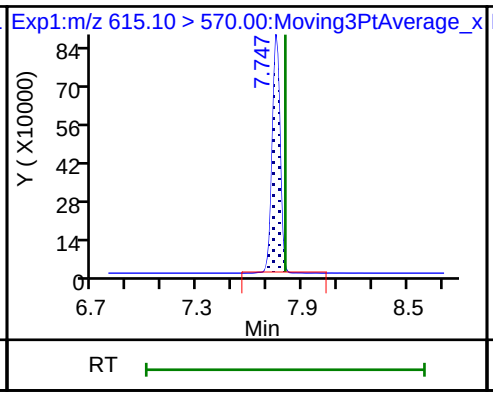
62 PFNS



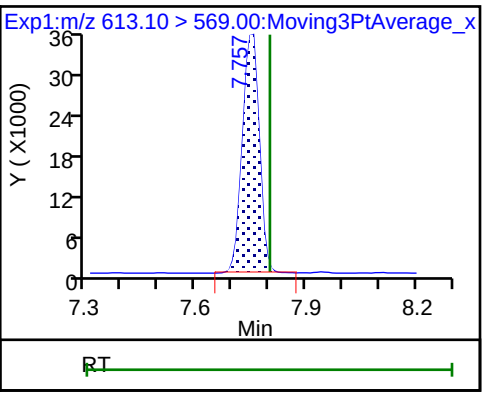
62 PFNS



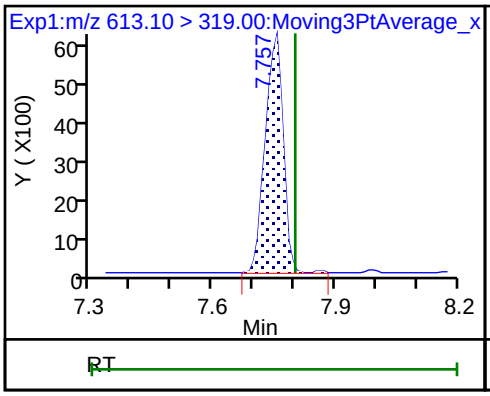
D 81 PFDoA



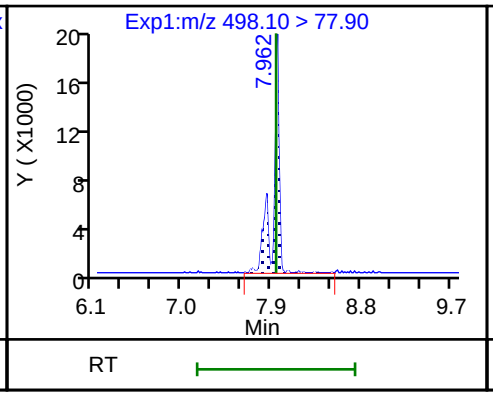
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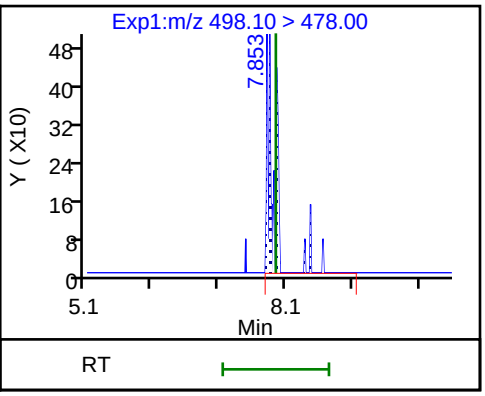
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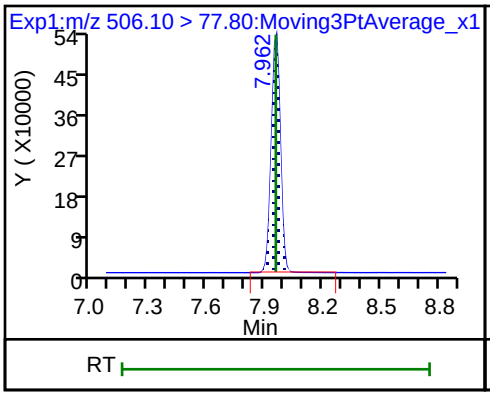
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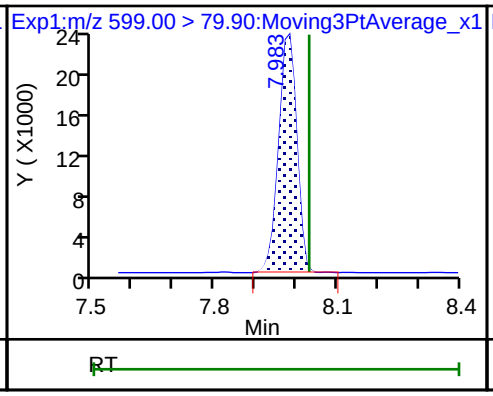
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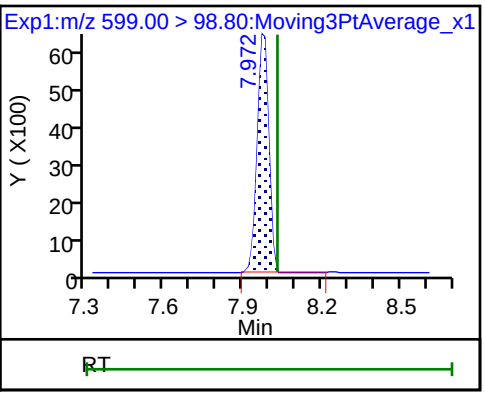
D 65 13C8 FOSA



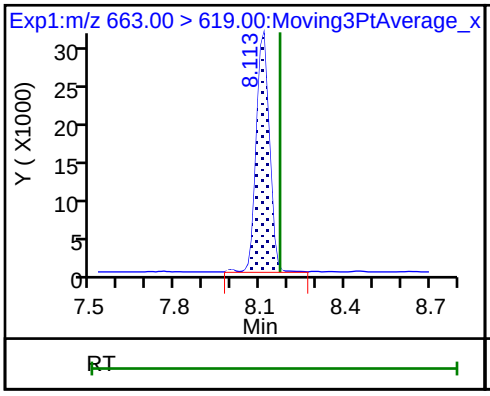
66 PFDS



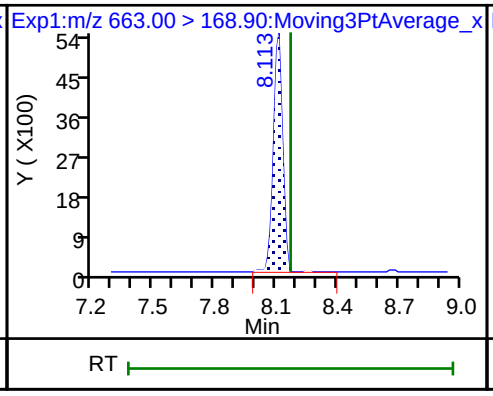
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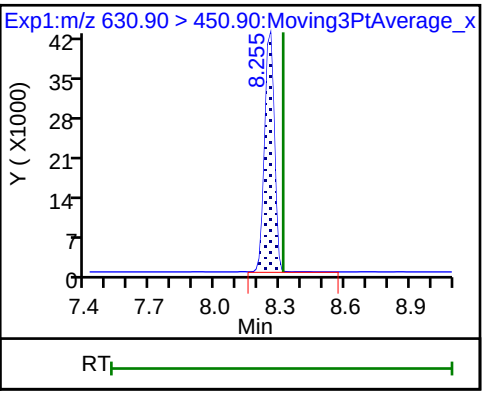
67 PFTrDA



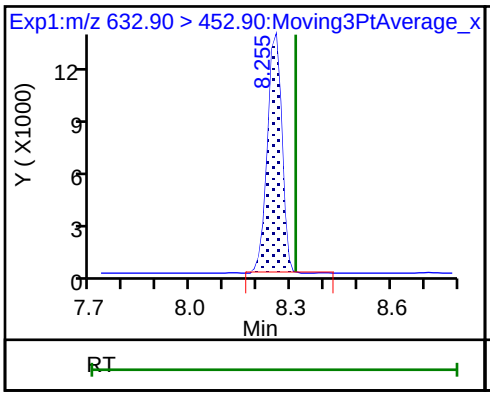
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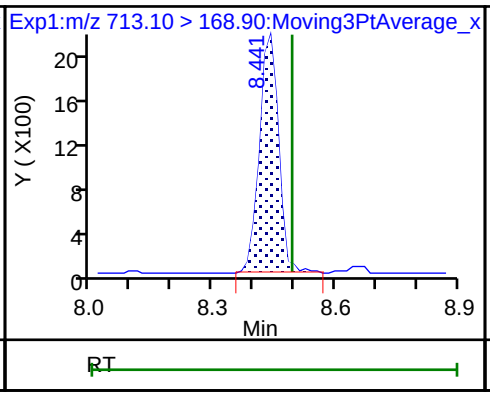
68 11ClFOS



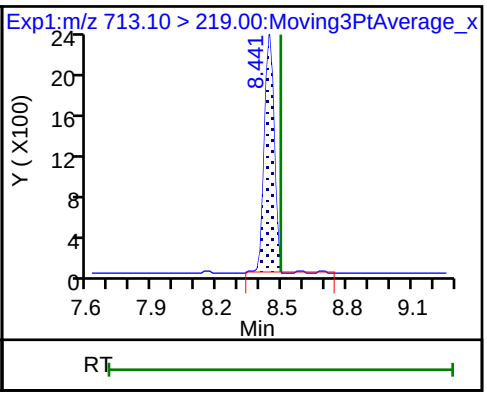
68 11ClFOS



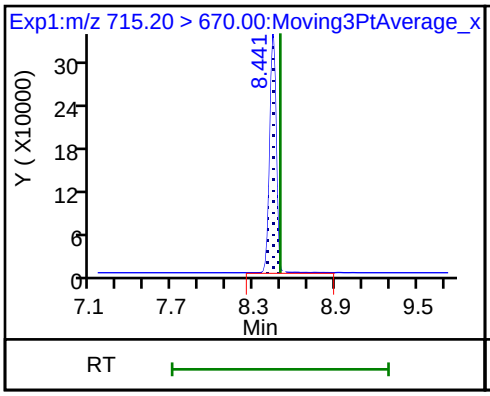
70 PFTeDA



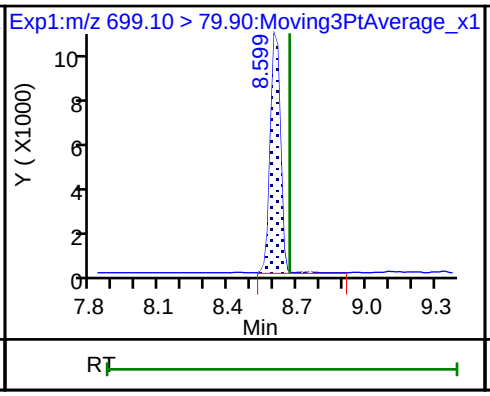
70 PFTeDA



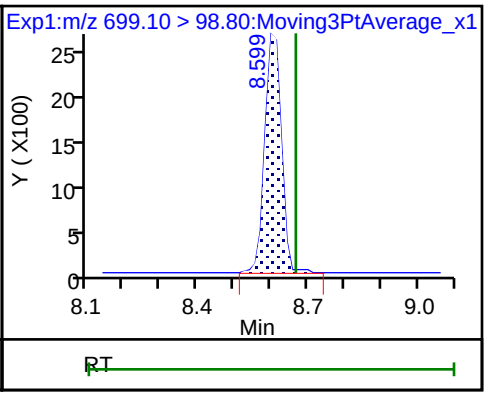
D 69 13C2 PFTeDA



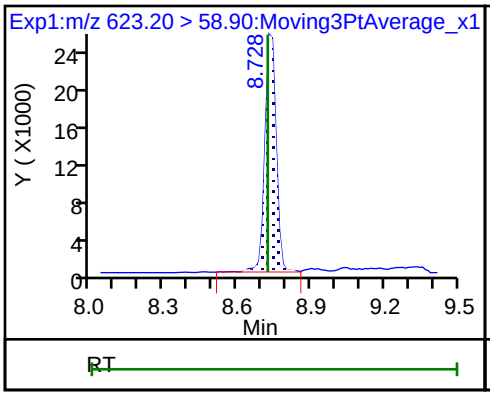
73 PFDoS



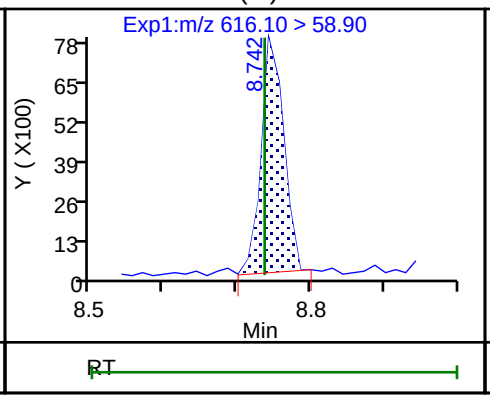
73 PFDoS



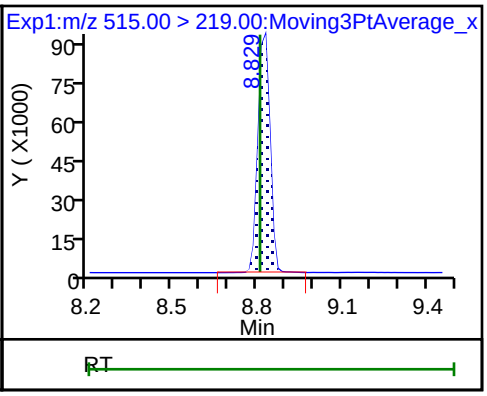
D 71 d7-N-Me-FOSE



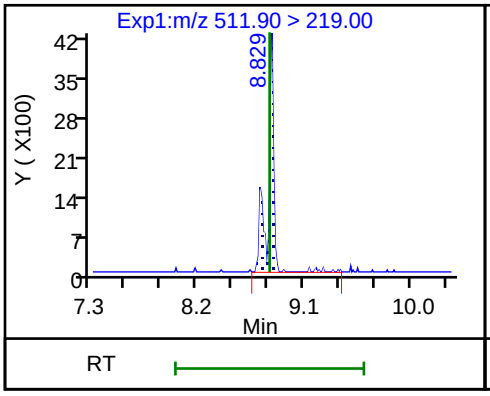
72 N-MeFOSE-M (M)



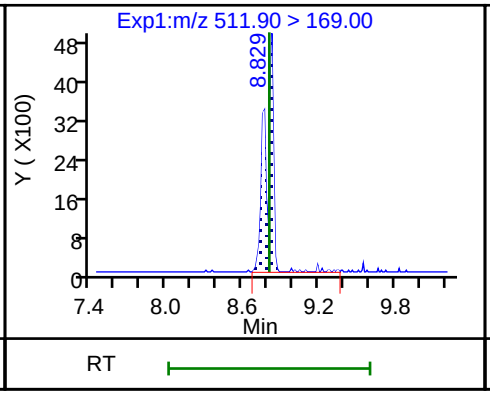
D 74 d3-NMePFOSA



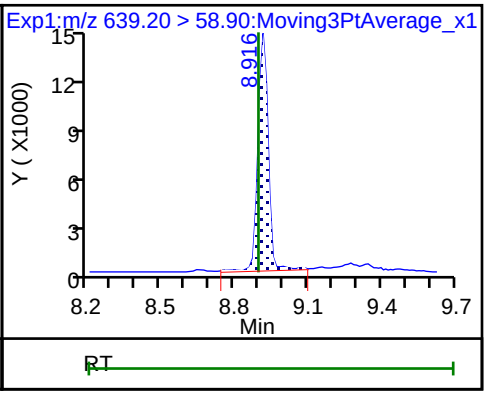
75 NMeFOSA



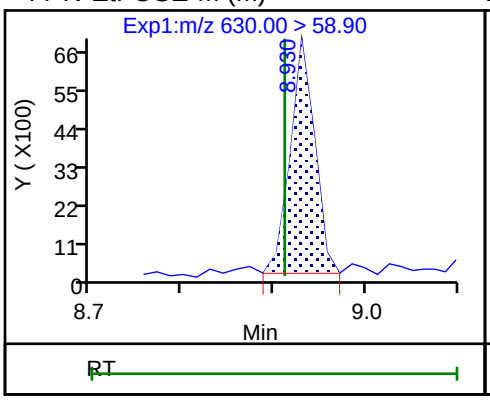
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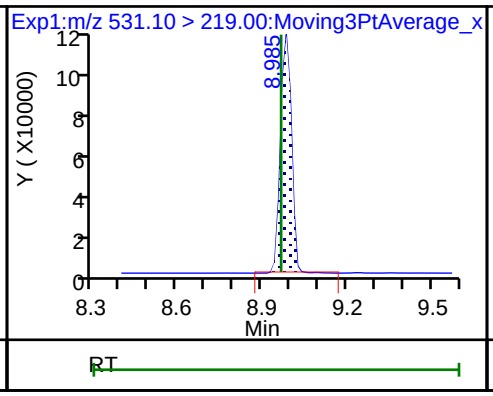
D 76 d9-N-EtFOSE



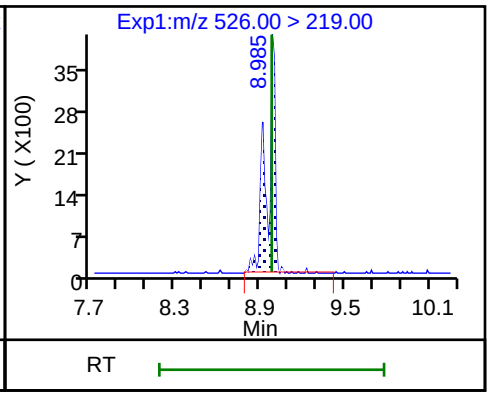
77 N-EtFOSE-M (M)



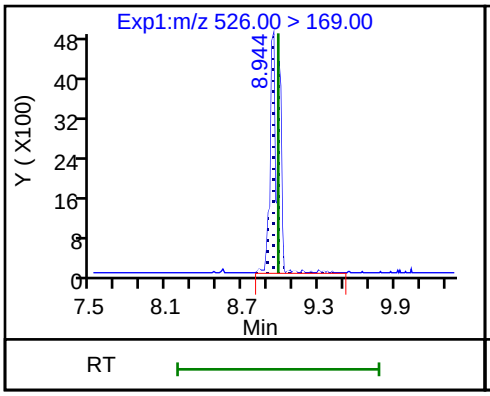
D 78 d5-NEtPFOSA



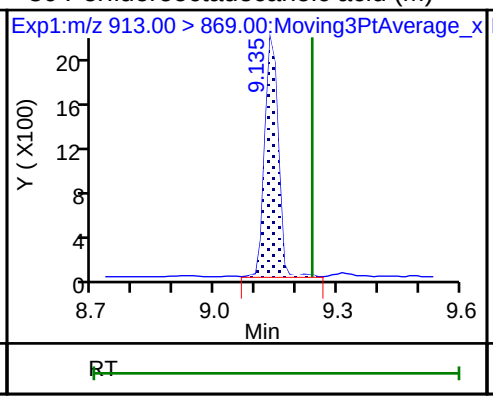
79 N-EtFOSA-M



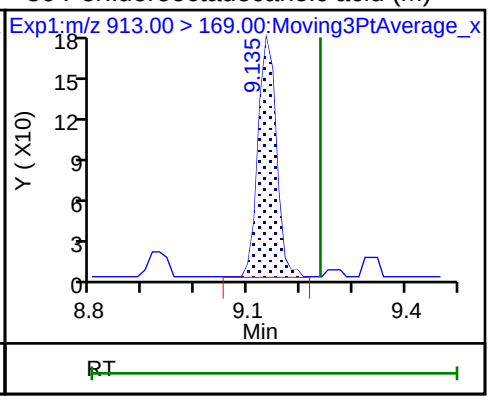
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid (M)



80 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

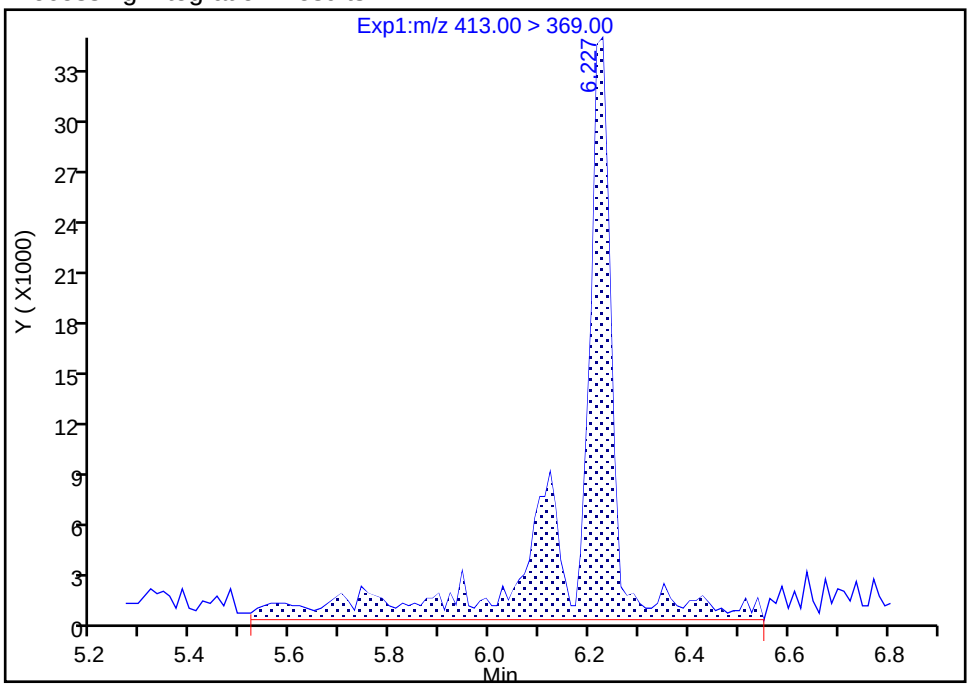
Data File:	\\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-55.d				
Injection Date:	04-Feb-2026 18:51:31	Instrument ID:	30575		
Lims ID:	LLCS 410-764041/3-A				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	38	Worklist Smp#:	138
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

36 PFOA, CAS: 335-67-1

Signal: 1

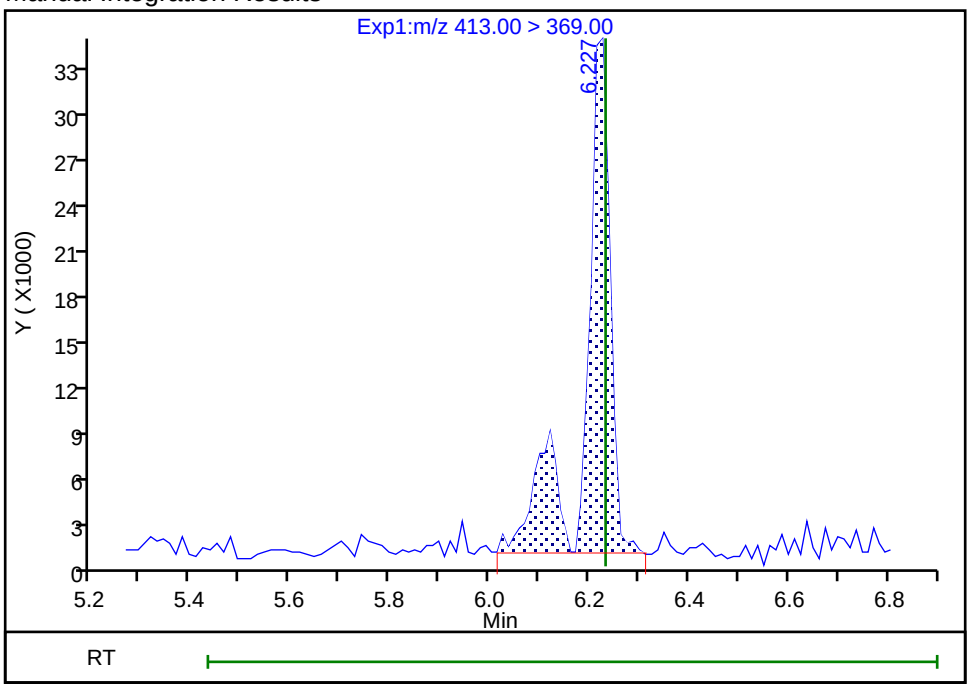
Processing Integration Results

RT: 6.23
Area: 178316
Amount: 0.143463
Amount Units: ng/ml



Manual Integration Results

RT: 6.23
Area: 118777
Amount: 0.095561
Amount Units: ng/ml



Reviewer: LDU5, 04-Feb-2026 19:26:01 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

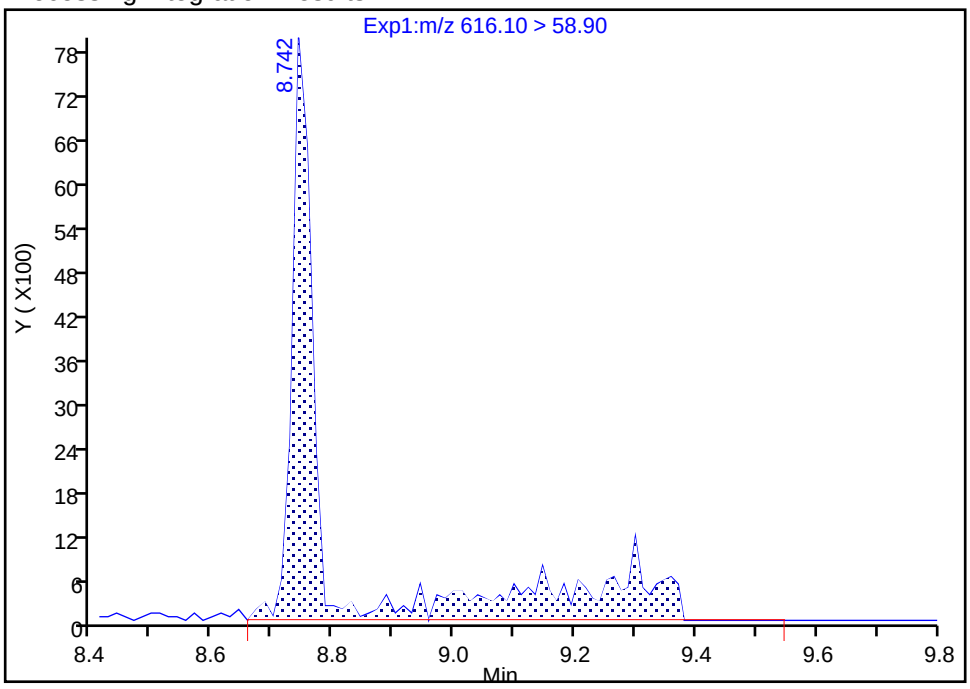
Data File:	\\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-55.d				
Injection Date:	04-Feb-2026 18:51:31	Instrument ID:	30575		
Lims ID:	LLCS 410-764041/3-A				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	38	Worklist Smp#:	138
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

72 N-MeFOSE-M, CAS: 24448-09-7

Signal: 1

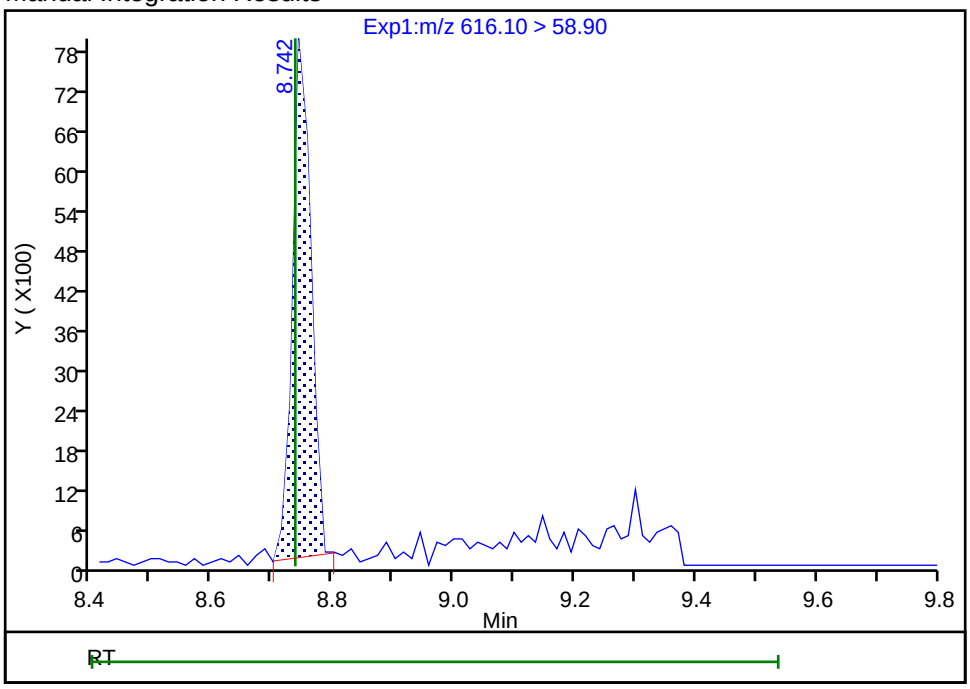
Processing Integration Results

RT: 8.74
Area: 29995
Amount: 0.692963
Amount Units: ng/ml



Manual Integration Results

RT: 8.74
Area: 16618
Amount: 0.383919
Amount Units: ng/ml



Reviewer: LDU5, 04-Feb-2026 19:26:15 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

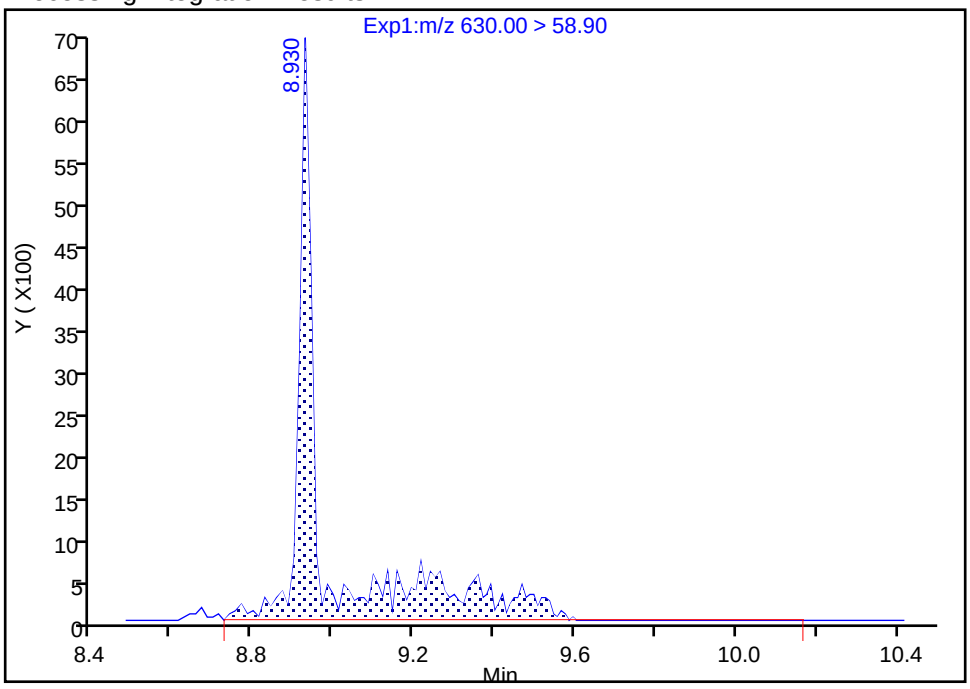
Data File:	\\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-55.d				
Injection Date:	04-Feb-2026 18:51:31	Instrument ID:	30575		
Lims ID:	LLCS 410-764041/3-A				
Client ID:					
Operator ID:	ETUS023_USR_INS00007	ALS Bottle#:	38	Worklist Smp#:	138
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30575-1633-125ml	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

77 N-EtFOSE-M, CAS: 1691-99-2

Signal: 1

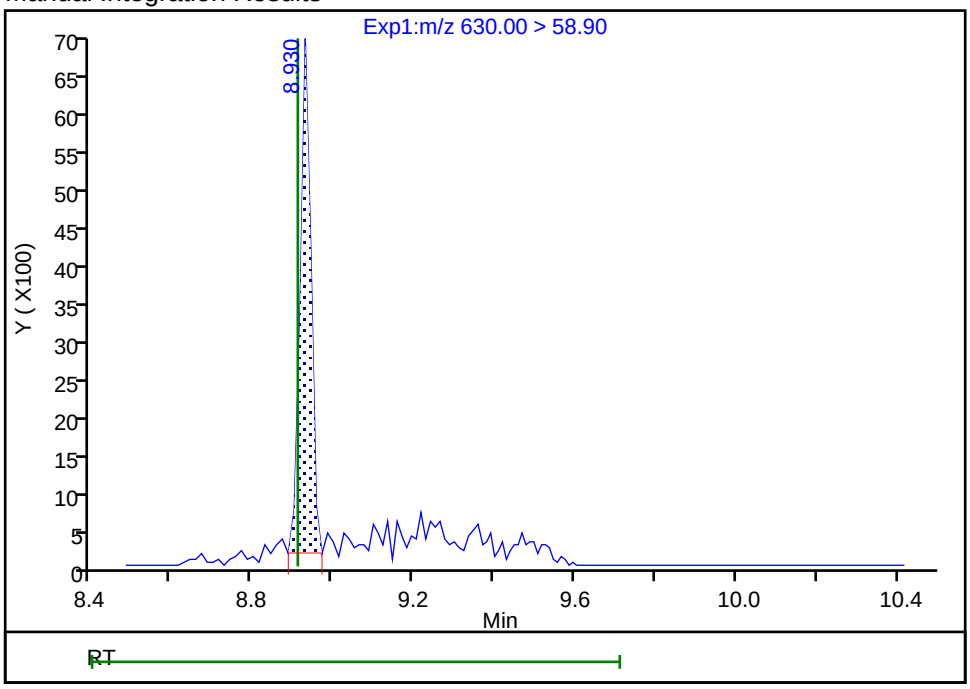
Processing Integration Results

RT: 8.93
Area: 26543
Amount: 0.789143
Amount Units: ng/ml



Manual Integration Results

RT: 8.93
Area: 12594
Amount: 0.374429
Amount Units: ng/ml



Reviewer: LDU5, 04-Feb-2026 19:26:22 -05:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-765112/3-A

Matrix: Solid
Lab File ID: 26FEB05JO-30.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.08(g)
Date Analyzed: 02/05/2026 20:32

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.431		0.38	0.096
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.227		0.19	0.096
307-24-4	Perfluorohexanoic acid (PFHxA)	0.216		0.19	0.096
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.184	J	0.19	0.096
335-67-1	Perfluorooctanoic acid (PFOA)	0.213		0.19	0.058
375-95-1	Perfluorononanoic acid (PFNA)	0.225		0.19	0.096
335-76-2	Perfluorodecanoic acid (PFDA)	0.209		0.19	0.058
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.200		0.19	0.096
307-55-1	Perfluorododecanoic acid (PFDoA)	0.206		0.19	0.096
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.221		0.19	0.096
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.197		0.19	0.096
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.187	J	0.19	0.096
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.186	J	0.19	0.096
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.202		0.19	0.096
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.209		0.19	0.096
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.211		0.19	0.096
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.181	J	0.19	0.096
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.174	J	0.19	0.096
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.166	J	0.19	0.096
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.380		0.38	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.357	J	0.38	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.398		0.38	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.224		0.19	0.096
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.223		0.19	0.096
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.224		0.19	0.096

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-765112/3-A

Matrix: Solid
Lab File ID: 26FEB05JO-30.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.08(g)
Date Analyzed: 02/05/2026 20:32

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.213		0.19	0.096
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.217		0.19	0.096
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.340		0.96	0.48
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.843	J	0.96	0.48
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.162	J	0.19	0.096
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.209		0.19	0.096
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.239		0.19	0.096
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.208		0.19	0.096
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.225		0.19	0.096
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	0.197		0.19	0.096
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	0.171	J	0.19	0.096
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.170	J	0.19	0.096
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.391		0.38	0.19
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.872	J	0.96	0.48
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.750	J	0.96	0.48

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-765112/3-A

Matrix: Solid
Lab File ID: 26FEB05JO-30.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/05/2026 10:14

Sample wt/vol: 2.08(g)
Date Analyzed: 02/05/2026 20:32

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

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

Cleanup Factor:

Analysis Batch No.: 765196
Units: ug/Kg

Preparation Batch No.: 765112
Instrument ID: 30577

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	84.3		8-130
2283397-79-3	13C5 PFPeA	83.3		35-130
2328024-54-8	13C5 PFHxA	85.7		40-130
2328024-55-9	13C4 PFHpA	86.5		40-130
1350614-84-4	13C8 PFOA	84.3		40-130
2283397-80-6	13C9 PFNA	79.7		40-130
2328024-56-0	13C6 PFDA	83.5		40-130
STL02580	13C7 PFUnA	96.3		40-130
STL02116	13C2 PFTeDA	71.9		20-130
2708218-83-9	13C3 PFBS	86.7		40-135
2708218-85-1	13C3 PFHxS	86.8		40-130
2265893-05-6	13C8 PFOS	80.1		40-130
STL01056	13C8 FOSA	71.2		40-130
1400690-70-1	d3-NMeFOSAA	66.0		40-135
1265205-97-7	d5-NEtFOSAA	65.8		40-150
STL02395	13C2 4:2 FTS	85.9		40-165
STL02279	13C2 6:2 FTS	95.4		40-215
STL02280	13C2 8:2 FTS	75.0		40-275
STL02255	13C3 HFPO-DA	84.6		40-130
STL02277	d7-N-MeFOSE-M	6.99	*	20-130
STL02278	d9-N-EtFOSE-M	2.37	*	15-130
STL02704	d5-NEtPFOSA	50.7		10-130
STL02705	d3-NMePFOSA	51.7		10-130
960315-52-0	13C2 PFDoA	84.5		40-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-30.d
Lims ID: LLCS 410-765112/3-A
Client ID:
Sample Type: LLCS
Inject. Date: 05-Feb-2026 20:32:04 ALS Bottle#: 15 Worklist Smp#: 134
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: LLCS 410-765112/3-A
Misc. Info.: Plate: 1 Rack: 1 410-0174796-134
Operator ID: ETUS023_USR_INS00009 Instrument ID: 30577

Method: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\30577-1633-125.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 05-Feb-2026 22:55:46 Calib Date: 04-Feb-2026 11:14:30
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30577\20260204-174606.b\26FEB04CAL-08.d

Column 1 : Det: EXP1
Process Host: CTX1650

First Level Reviewer: XBL5 Date: 05-Feb-2026 22:48:47
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C3PFPrA										
166.00 > 121.00	1.985	2.018	-0.034	0.475	1228236	1.58		79.2	1614	
2 Perfluoropropionic acid										
163.00 > 119.00	1.985	2.018	-0.034	1.000	259084	0.4592		91.8	503	
3 PFBA										
212.80 > 168.90	4.180	4.180	0.0	1.000	145547	0.1792		89.6	1388	
D 4 13C4-PFBA										
216.80 > 171.90	4.180	4.187	-0.007	1.000	1768199	1.69		84.3	5010	
* 5 13C3PFBA										
216.00 > 172.00	4.180	4.187	-0.007		2044268	2.00			5121	
6 PFMPA										
229.00 > 84.90	4.513	4.513	0.0	0.933	85525	0.0993		99.3	800	
7 3:3 FTCA										
241.00 > 177.00	4.522	4.522	0.0	0.935	6752	0.1628	Target=1.18	81.4	265	
241.00 > 117.00	4.522	4.522	0.0	0.935	6154		1.10(0.59-1.77)		157	
D 8 13C5 PFPeA										
268.30 > 223.00	4.837	4.844	-0.007	0.914	1683505	1.67		83.3	8854	
9 PFPA										
263.00 > 219.00	4.837	4.844	-0.007	1.000	95069	0.0946		94.6	235	
10 PFMBA										
279.00 > 85.10	4.996	4.996	0.0	1.033	98724	0.0866		86.6	753	
D 11 13C2-4:2FTS										
329.10 > 80.90	5.111	5.121	-0.010	0.804	969373	4.03		85.9	5449	
12 4:2FTS										
327.10 > 307.00	5.111	5.121	-0.010	1.000	60374	0.1579	Target=1.72	84.2	889	
327.10 > 80.90	5.111	5.121	-0.010	1.000	35972		1.68(0.86-2.58)		64.4	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 NFDHA										
295.00 > 201.00	5.249	5.260	-0.011	0.992	24584	0.0935	Target=1.45	93.5	155	
295.00 > 84.90	5.260	5.260	0.0	0.994	13906		1.77(0.72-2.17)		96.4	
D 15 13C5 PFHxA										
318.00 > 273.00	5.292	5.303	-0.011	1.000	2106769	1.71		85.7	6038	
* 16 13C2 PFHxA										
315.10 > 270.00	5.292	5.303	-0.011		5798474	5.00			6813	
17 PFHxA										
313.00 > 269.00	5.292	5.303	-0.011	1.000	81885	0.0900	Target=10.06	90.0	268	
313.00 > 118.90	5.292	5.303	-0.011	1.000	7555		10.84(5.03-15.10)		36.7	
18 5:3 FTCA										
341.00 > 237.10	5.367	5.389	-0.022	1.014	46136	0.3629	Target=0.78	72.6	300	
341.00 > 217.00	5.367	5.389	-0.022	1.014	57851		0.80(0.39-1.17)		224	
D 19 13C3 PFBS										
302.10 > 79.90	5.428	5.437	-0.009	0.854	2086395	1.62		86.7	11481	
20 PFBS										
298.70 > 79.90	5.428	5.446	-0.018	1.000	77843	0.0776	Target=3.14	87.4	521	
298.70 > 98.80	5.428	5.446	-0.018	1.000	26154		2.98(1.57-4.71)		253	
D 22 13C3 HFPO-DA										
286.90 > 168.90	5.476	5.486	-0.010	1.035	1416214	1.69		84.6	5904	
23 HFPO-DA										
284.90 > 168.90	5.476	5.486	-0.010	1.000	50970	0.0672	Target=2.75	89.6	381	
284.90 > 184.90	5.476	5.486	-0.010	1.000	18583		2.74(1.37-4.12)		92.2	
21 FBSA										
297.90 > 78.00	5.486	5.530	-0.044	1.011	73919	0.0831		83.1	339	
26 PFEESA										
314.80 > 134.90	5.668	5.679	-0.011	1.071	178177	0.0708	Target=11.75	79.4	523	
314.80 > 82.90	5.668	5.679	-0.011	1.071	16656		10.70(5.88-17.63)		5754	
27 PFHpA										
363.10 > 319.00	5.722	5.722	0.0	1.000	66570	0.0764	Target=1.87	76.4	143	
363.10 > 169.00	5.722	5.722	0.0	1.000	36042		1.85(0.94-2.81)		174	
D 28 13C4 PFHpA										
367.10 > 322.00	5.722	5.732	-0.010	1.081	2075828	1.73		86.5	6138	
29 ADONA										
376.90 > 250.90	5.877	5.888	-0.011	1.073	214945	0.0870	Target=2.13	92.0	1485	
376.90 > 84.80	5.877	5.888	-0.011	1.073	92222		2.33(1.07-3.20)		733	
D 32 13C2-6:2FTS										
429.10 > 80.90	5.919	5.930	-0.011	0.931	923681	4.54		95.4	5615	
30 PFPeS										
349.10 > 79.90	5.909	5.930	-0.021	0.929	84970	0.0775	Target=3.24	82.5	250	
349.10 > 98.90	5.919	5.930	-0.011	0.931	23135		3.67(1.62-4.86)		135	
31 6:2FTS										
427.10 > 407.00	5.930	5.930	0.0	1.002	53934	0.1484	Target=1.63	77.9	372	
427.10 > 80.90	5.919	5.930	-0.011	1.000	37208		1.45(0.82-2.45)		131	
33 BTS										
280.00 > 147.00	6.072	6.093	-0.021	0.955	185606	0.0900		89.9	1097	
* 34 13C4 PFOA										
417.10 > 372.00	6.123	6.143	-0.020		8008784	5.00			5888	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 35 13C8 PFOA										
421.10 > 376.00	6.123	6.143	-0.020	1.000	2750850	1.69		84.3	9543	
36 PFOA										
413.00 > 369.00	6.123	6.143	-0.020	1.000	75583	0.0886	Target=1.91	88.6	88.1	
413.00 > 169.00	6.123	6.143	-0.020	1.000	40849		1.85(0.96-2.87)		46.1	
37 7:3 FTCA										
441.00 > 316.90	6.214	6.234	-0.020	1.174	18992	0.3119	Target=0.31	62.4	129	
441.00 > 336.90	6.224	6.234	-0.010	1.176	67208		0.28(0.16-0.47)		423	
40 PFHxS										
398.70 > 79.90	6.359	6.369	-0.011	1.000	61464	0.0839	Target=3.07	92.0	139	
398.70 > 98.90	6.339	6.369	-0.030	0.997	19100		3.22(1.53-4.60)		33.1	
* 39 18O2 PFHxS										
403.00 > 83.90	6.359	6.379	-0.021		1923254	1.90			7273	
D 38 13C3 PFHxS										
402.10 > 79.90	6.359	6.379	-0.021	1.000	1796612	1.64		86.8	6597	
D 41 13C9 PFNA										
472.10 > 427.00	6.539	6.549	-0.010	1.000	2005985	1.59		79.7	4412	
* 42 13C5 PFNA										
468.00 > 423.00	6.539	6.560	-0.021		2430666	2.00			5241	
43 PFNA										
463.00 > 419.00	6.550	6.570	-0.020	1.002	81495	0.0935	Target=2.01	93.5	109	
463.00 > 219.00	6.539	6.570	-0.031	1.000	38510		2.12(1.01-3.02)		32.8	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.728	6.737	-0.009	1.058	756804	3.60		75.0	2955	
45 8:2FTS										a
527.10 > 507.00	6.718	6.737	-0.019	0.999	45415	0.1657	Target=1.99	86.3	208	a
527.10 > 80.80	6.718	6.737	-0.019	0.999	25381		1.79(0.99-2.98)		82.0	
46 PFECHS										
461.00 > 381.00	6.757	6.774	-0.017	1.063	16313	0.0766	Target=0.18	82.9	52.5	
461.00 > 99.00	6.757	6.774	-0.017	1.063	96752		0.17(0.09-0.27)		819	
47 PFHpS										
449.00 > 79.90	6.793	6.811	-0.018	0.942	87115	0.0869	Target=3.87	91.1	461	
449.00 > 98.80	6.793	6.811	-0.018	0.942	24558		3.55(1.94-5.81)		139	
D 49 d3-NMeFOSAA										
573.20 > 419.00	6.891	6.899	-0.008	0.955	1526742	3.30		66.0	1821	
50 NMeFOSAA										
570.10 > 419.00	6.891	6.909	-0.018	1.000	26391	0.0888	Target=1.74	88.8	6.3	
570.10 > 483.00	6.900	6.909	-0.009	1.001	17244		1.53(0.87-2.61)		28.1	
48 FHxSA										
397.90 > 78.00	6.949	6.959	-0.010	1.093	93133	0.0754		75.4	442	
53 PFDA										
512.90 > 469.00	6.949	6.970	-0.021	1.000	62349	0.0871	Target=3.37	87.1	213	
512.90 > 219.00	6.949	6.970	-0.021	1.000	15421		4.04(1.69-5.06)		51.5	
* 51 13C2 PFDA										
515.10 > 470.10	6.949	6.970	-0.021		2366940	2.00			7307	
D 52 13C6 PFDA										
519.10 > 474.10	6.949	6.970	-0.021	1.000	1947346	1.67		83.5	6291	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.071	7.090	-0.019	0.980	1314903	3.29		65.8	2003	
55 NEtFOSAA										
584.20 > 419.10	7.081	7.100	-0.019	1.001	20834	0.0903	Target=1.30	90.3	68.9	
584.20 > 526.00	7.090	7.100	-0.010	1.003	13832		1.51(0.65-1.95)		29.9	
58 PFOS										
498.90 > 79.90	7.214	7.232	-0.018	1.000	94992	0.0876	Target=4.60	94.2	180	
498.90 > 98.80	7.223	7.232	-0.009	1.001	20908		4.54(2.30-6.91)		48.8	
* 57 13C4 PFOS										
502.80 > 79.90	7.214	7.241	-0.027		1720246	1.92			6343	
D 56 13C8 PFOS										
507.10 > 79.90	7.214	7.241	-0.027	1.000	1533334	1.53		80.1	3756	
D 59 13C7 PFUnA										
570.00 > 525.10	7.367	7.387	-0.020	1.060	2239126	1.93		96.3	4605	
60 PFUnA										
563.10 > 519.00	7.367	7.397	-0.030	1.000	65397	0.0832	Target=4.93	83.2	429	
563.10 > 269.10	7.367	7.397	-0.030	1.000	10942		5.98(2.47-7.40)		62.5	
61 9ClFOS										
530.80 > 351.00	7.537	7.562	-0.025	1.045	180976	0.0821	Target=3.12	88.0	1515	
532.80 > 353.00	7.537	7.562	-0.025	1.045	56734		3.19(1.56-4.68)		499	
62 PFNS										
548.80 > 79.90	7.639	7.664	-0.025	1.059	51564	0.0753	Target=3.51	78.3	415	
548.80 > 98.80	7.639	7.664	-0.025	1.059	15301		3.37(1.75-5.26)		4819	
63 PFDoA										
613.10 > 569.00	7.777	7.791	-0.014		75549	0.0857	Target=5.93	85.7	607	
613.10 > 319.00	7.777	7.791	-0.014		13041		5.79(2.96-8.89)		116	
D 81 PFDoA										
615.10 > 570.00	7.784	7.806	-0.022	1.120	1888534	1.69		84.5	5969	
64 PFOSA										
498.10 > 77.90	8.027	8.027	0.0	1.000	75417	0.0930	Target=41.04	93.0	129	
498.10 > 478.00	8.019	8.027	-0.008	0.999	2130		35.41(20.52-61.57)		8.0	
D 65 13C8 FOSA										
506.10 > 77.80	8.027	8.035	-0.008	1.113	1467322	1.42		71.2	4901	
66 PFDS										
599.00 > 79.90	8.044	8.068	-0.024	1.115	66058	0.0724	Target=3.81	75.1	697	
599.00 > 98.80	8.044	8.068	-0.024	1.115	17119		3.86(1.91-5.72)		177	
67 PFTrDA										
663.00 > 619.00	8.178	8.221	-0.043	0.953	70267	0.0919	Target=6.20	91.9	403	
663.00 > 168.90	8.189	8.221	-0.032	0.955	9370		7.50(3.10-9.31)		151	
68 11ClFOS										
630.90 > 450.90	8.358	8.388	-0.030	1.159	107744	0.0710	Target=3.04	75.2	611	
632.90 > 452.90	8.358	8.388	-0.030	1.159	37916		2.84(1.52-4.56)		334	
69 PFTeDA										
713.10 > 168.90	8.590	8.611	-0.021	1.001	6651	0.0821	Target=1.02	82.1	115	
713.10 > 219.00	8.590	8.611	-0.021	1.001	7621		0.87(0.51-1.53)		98.2	
D 70 13C2 PFTeDA										
715.20 > 670.00	8.579	8.611	-0.032	1.235	1445708	1.44		71.9	3791	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
71 PFDoS										
699.10 > 79.90	8.786	8.815	-0.029	1.218	61745	0.0688	Target=4.04	71.0	462	
699.10 > 98.80	8.801	8.815	-0.014	1.220	14483		4.26(2.02-6.05)		241	
D 72 d7-N-Me-FOSE										
623.20 > 58.90	8.904	8.889	0.015	1.234	28935	0.3496		7.0	98.5	
73 N-MeFOSE-M										
616.10 > 58.90	8.919	8.904	0.015	1.002	8262	0.5575		111	15.9	
D 75 d3-NMePFOSA										
515.00 > 219.00	9.017	9.002	0.015	1.250	337967	1.03		51.7	2018	
74 NMeFOSA										
511.90 > 219.00	9.017	9.017	0.0	1.000	14894	0.0929	Target=0.72	92.9	71.4	
511.90 > 169.00	9.017	9.017	0.0	1.000	21538		0.69(0.36-1.08)		72.0	
D 76 d9-N-EtFOSE										
639.20 > 58.90	9.125	9.125	0.0	1.265	10575	0.1185		2.4	27.5	
77 N-EtFOSE-M										M
630.00 > 58.90	9.152	9.152	0.0	1.003	2450	0.3508		70.2	6.7	M
79 N-EtFOSA-M										
526.00 > 219.00	9.228	9.215	0.013	1.001	17227	0.0930	Target=0.87	93.0	110	
526.00 > 169.00	9.216	9.215	0.001	1.000	17063		1.01(0.44-1.31)		96.3	
D 78 d5-NEtPFOSA										
531.10 > 219.00	9.216	9.215	0.001	1.278	425878	1.01		50.7	2521	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

1633_125_IS_V_00591 Amount Added: 50.00 Units: uL

Report Date: 05-Feb-2026 22:56:15 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-30.d

Injection Date: 05-Feb-2026 20:32:04 Instrument ID: 30577

Lims ID: LLCS 410-765112/3-A

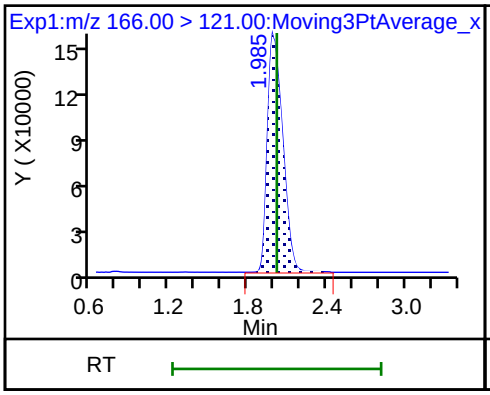
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Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 15 Worklist Smp#: 134

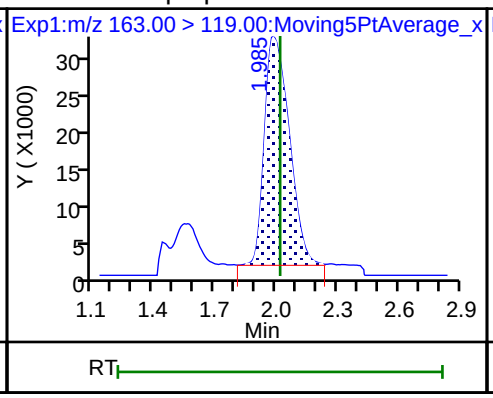
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL

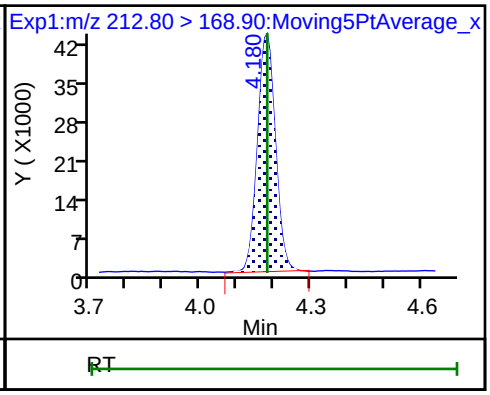
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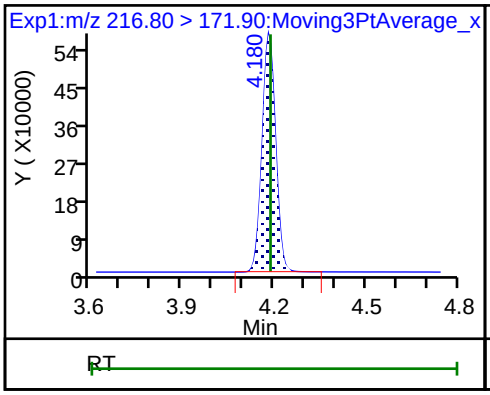
2 Perfluoropropionic acid



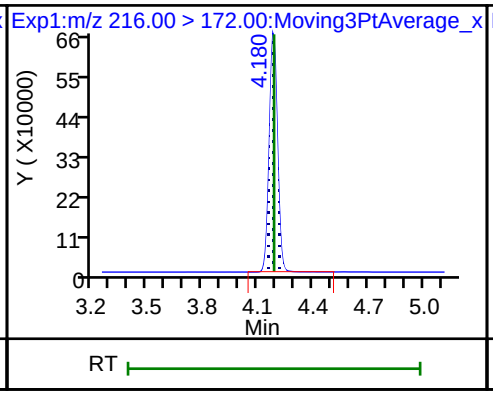
3 PFBA



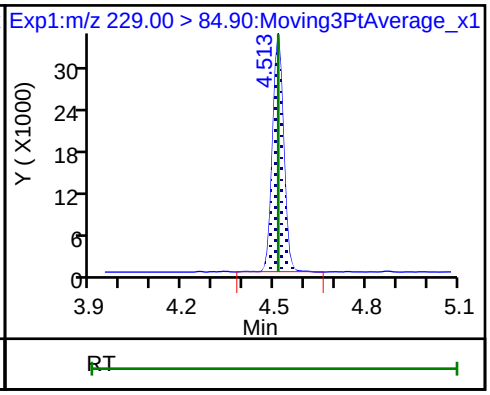
D 4 13C4-PFBA



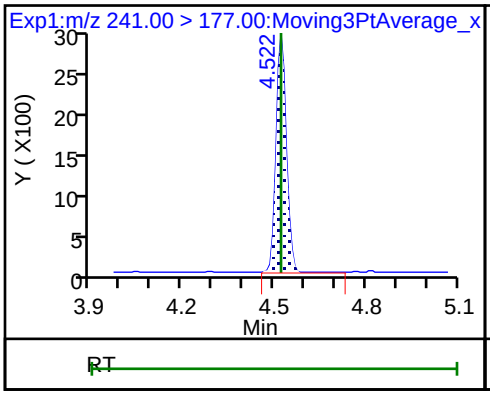
* 5 13C3PFBA



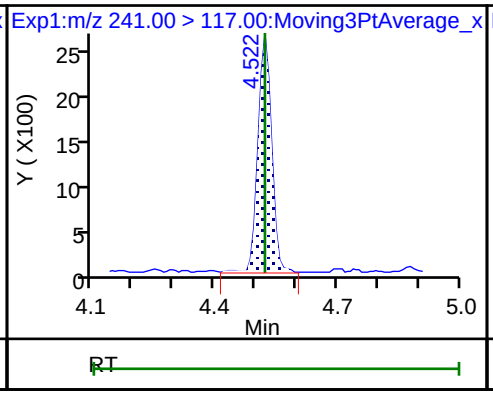
6 PFMPA



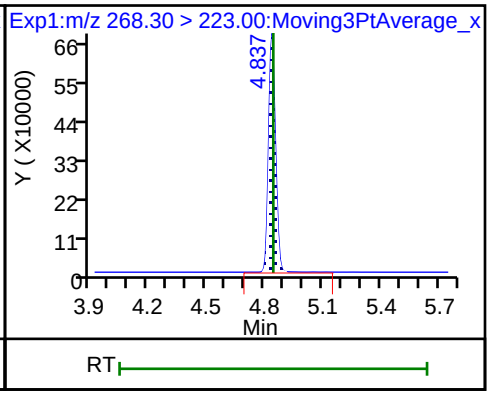
7 3:3 FTCA



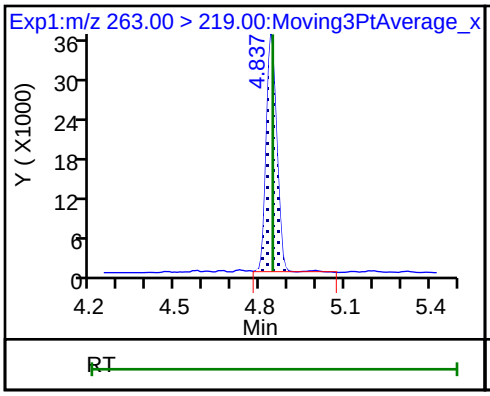
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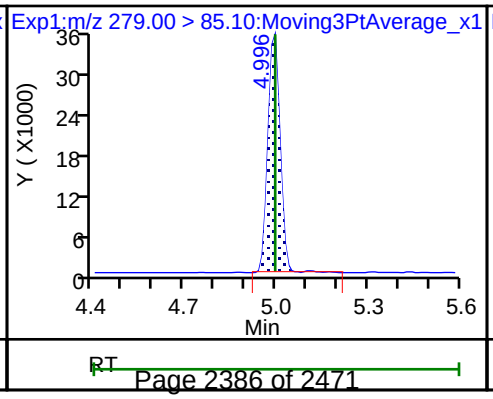
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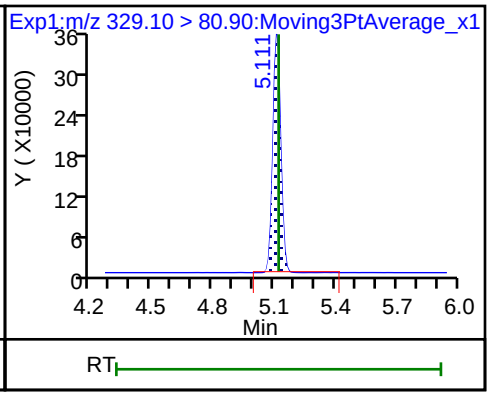
9 PFPA



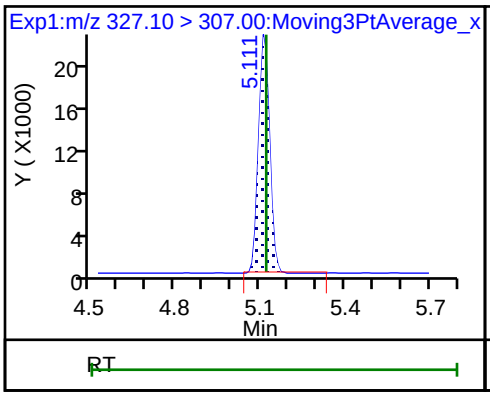
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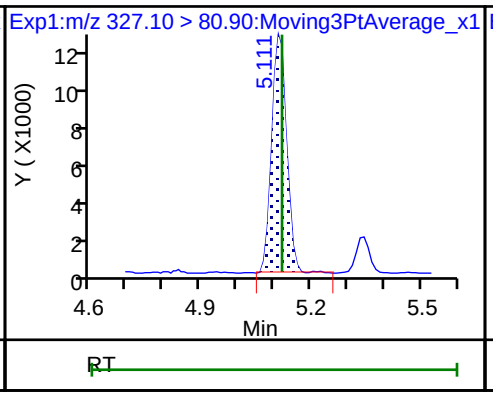
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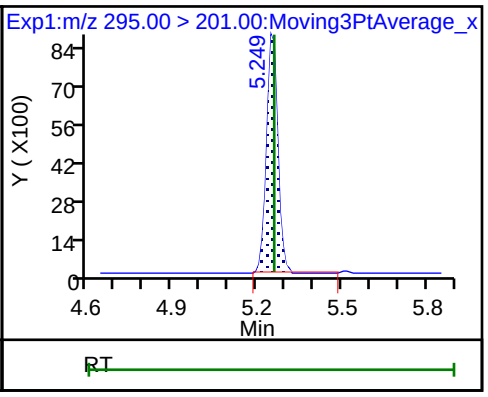
12 4:2FTS



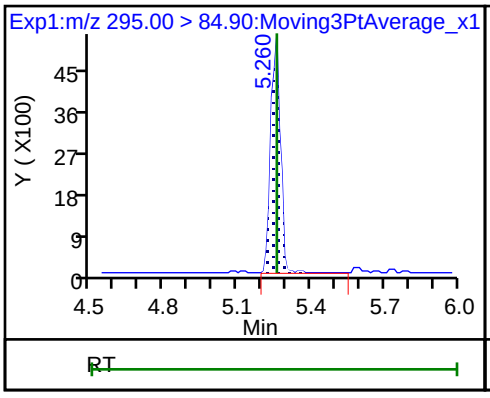
12 4:2FTS



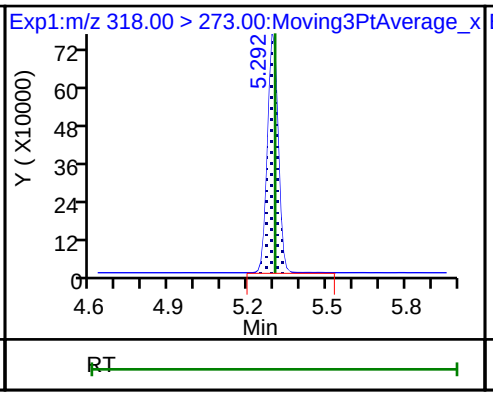
14 NFDHA



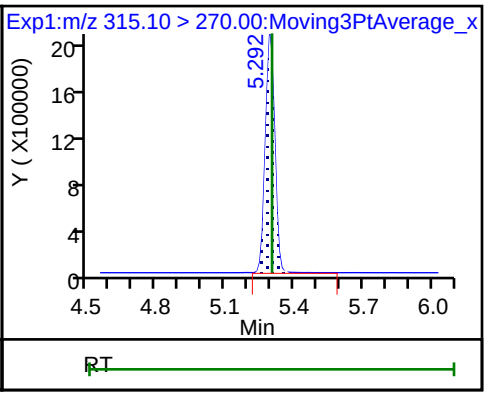
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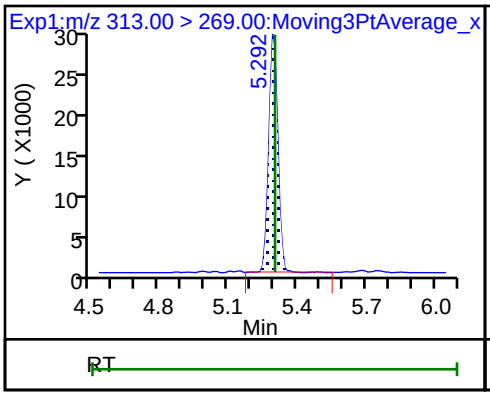
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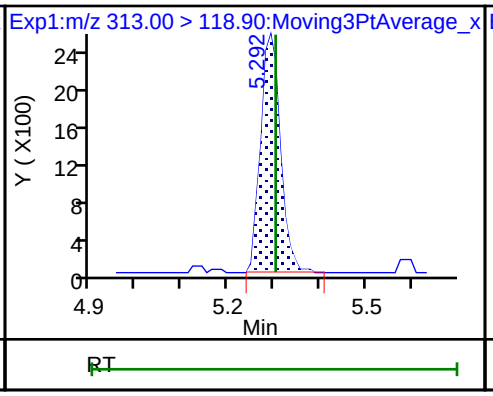
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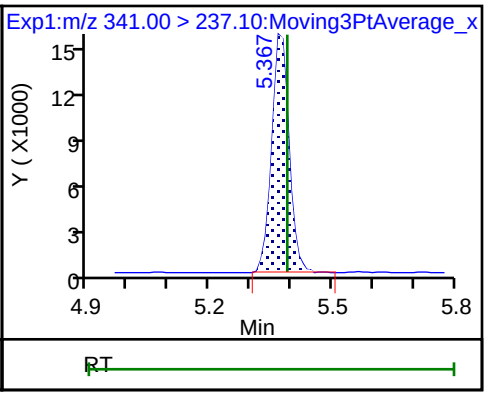
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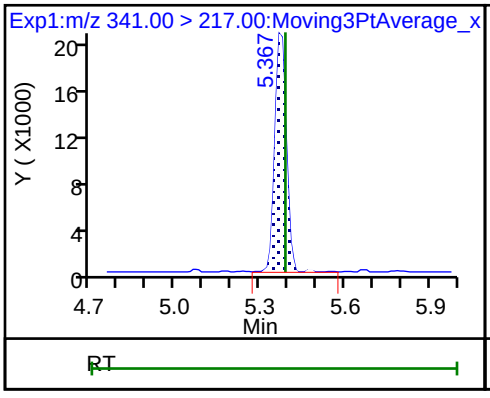
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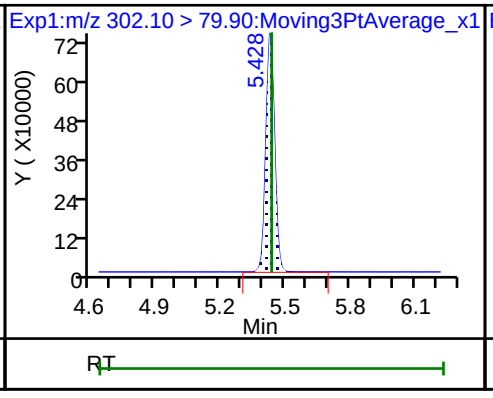
18 5:3 FTCA



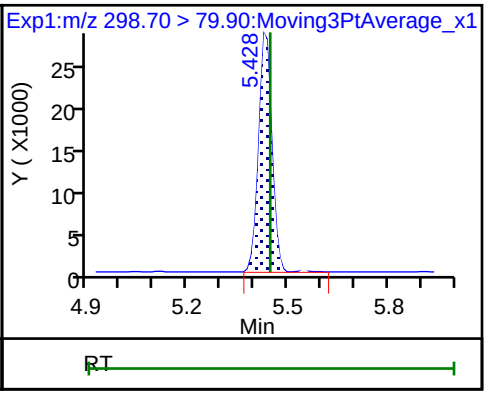
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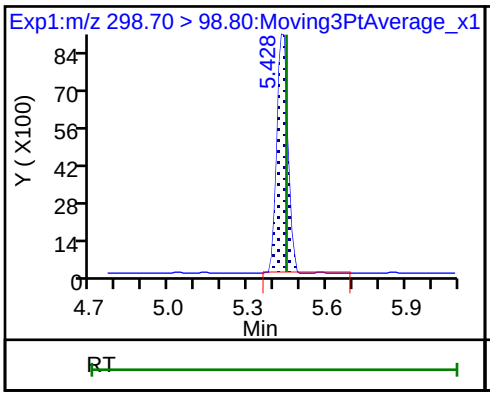
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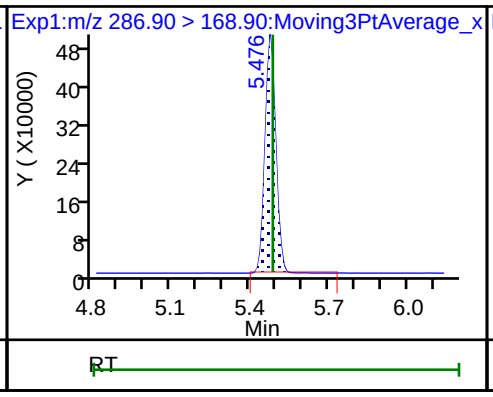
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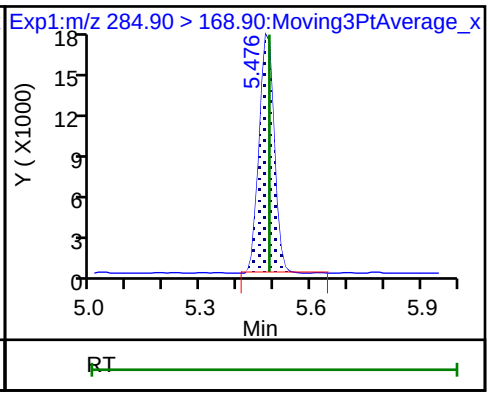
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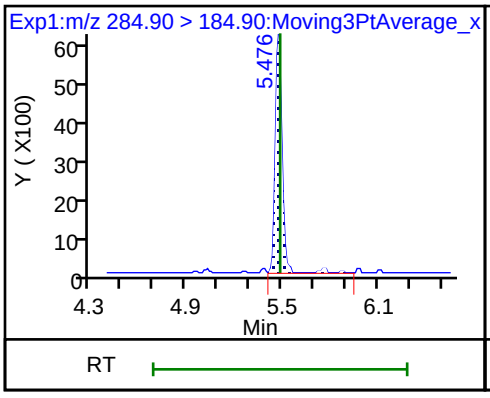
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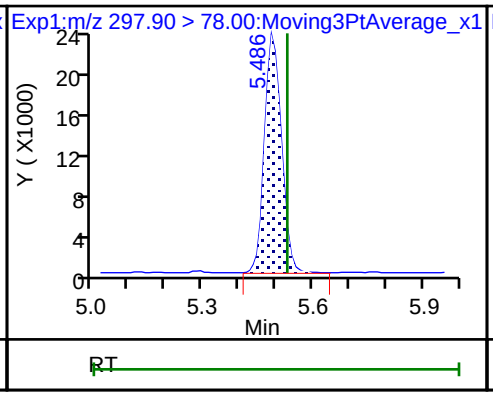
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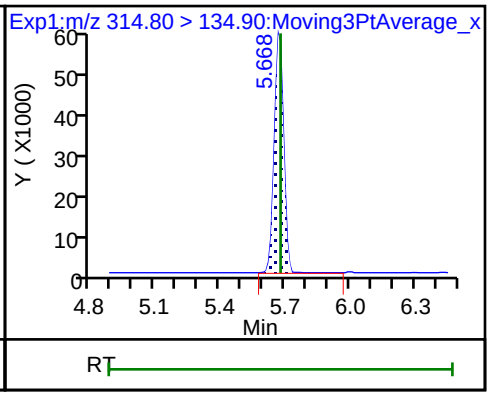
23 HFPO-DA



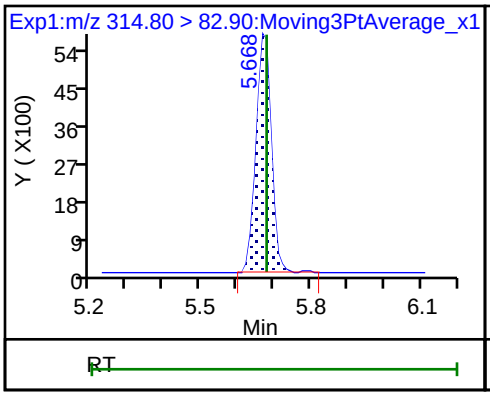
21 FBSA



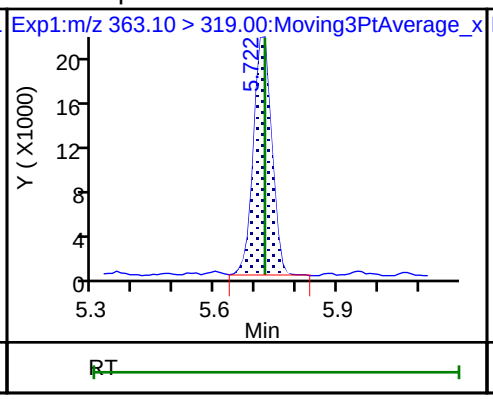
26 PFEESA



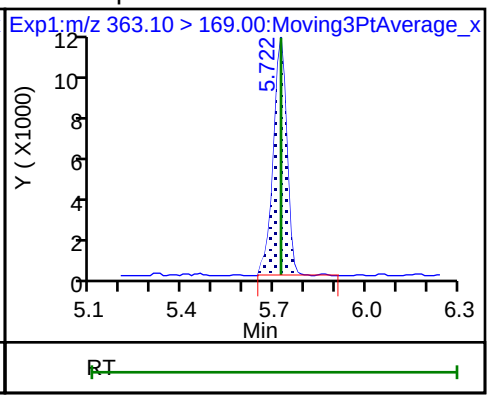
26 PFEESA



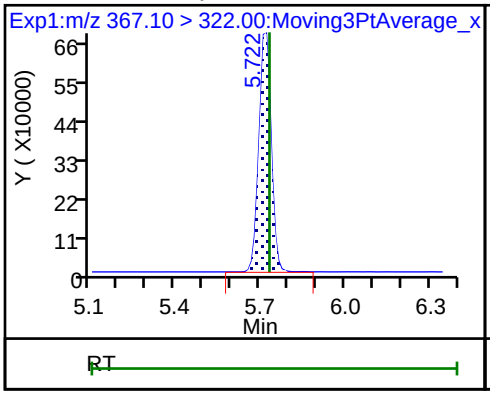
27 PFHpA



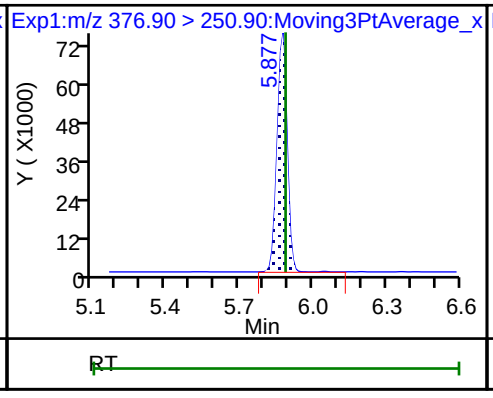
27 PFHpA



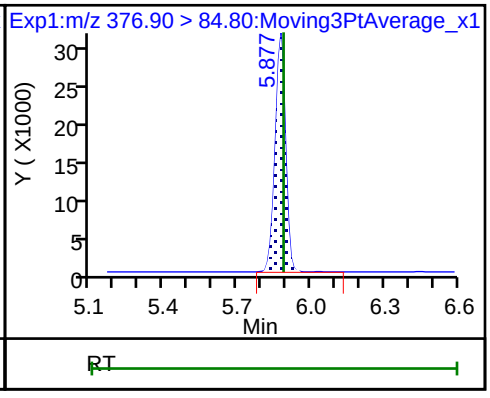
D 28 13C4 PFHpA



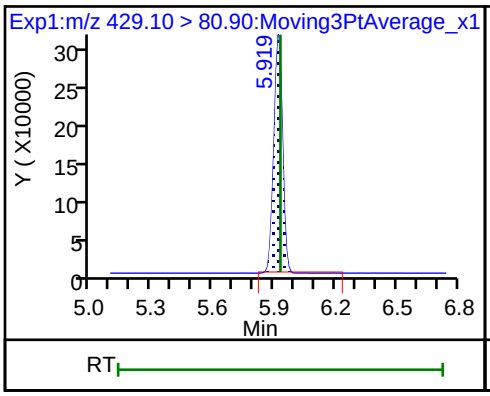
29 ADONA



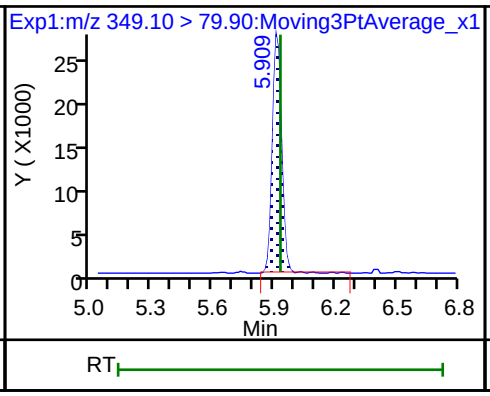
29 ADONA



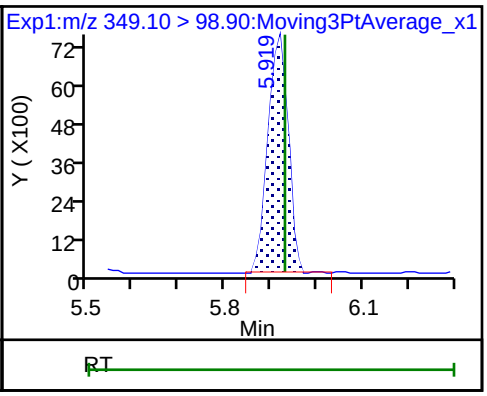
D 32 13C2-6:2FTS



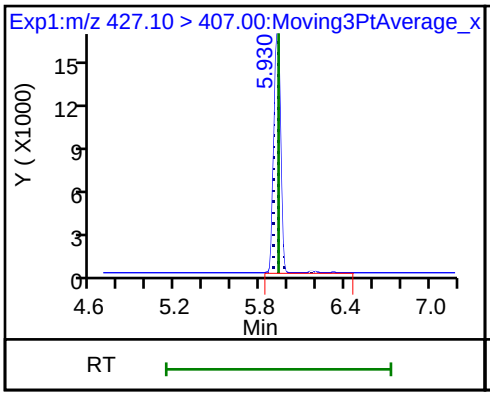
30 PFPeS



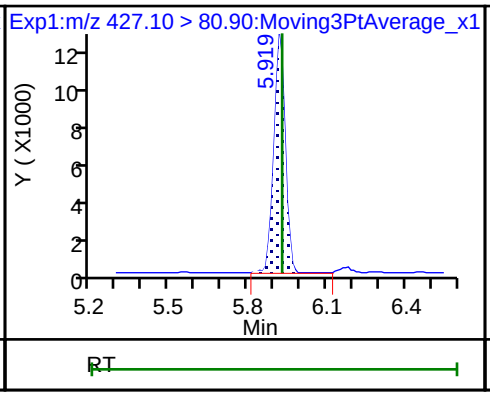
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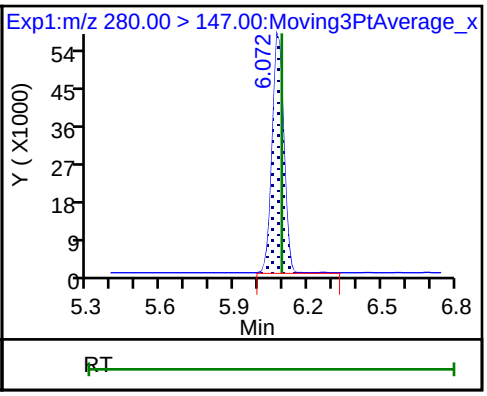
31 6:2FTS



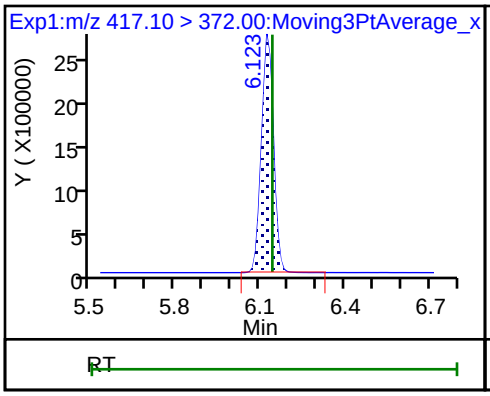
31 6:2FTS



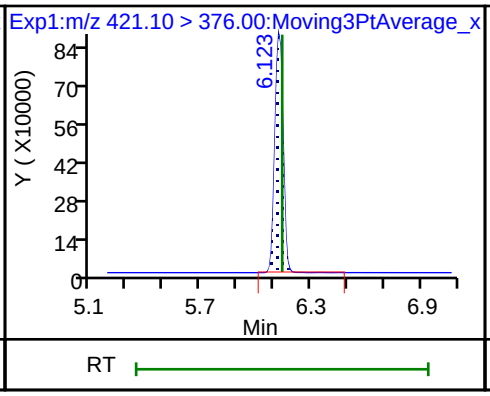
33 BTS



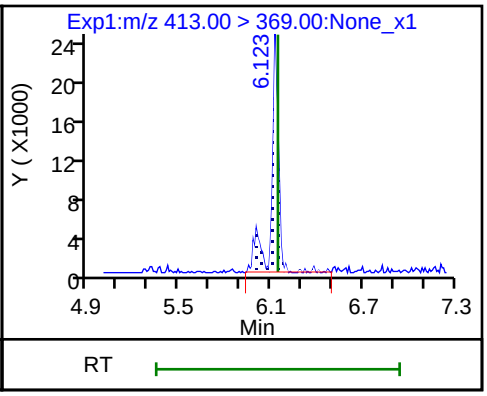
* 34 13C4 PFOA



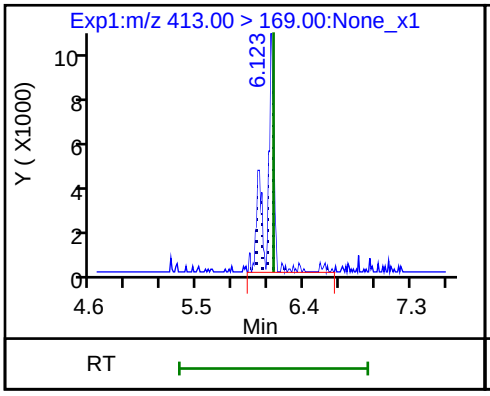
D 35 13C8 PFOA



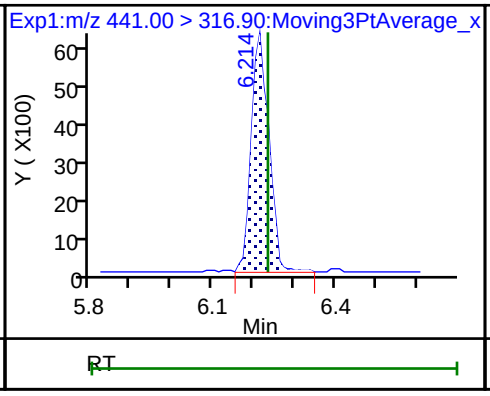
36 PFOA



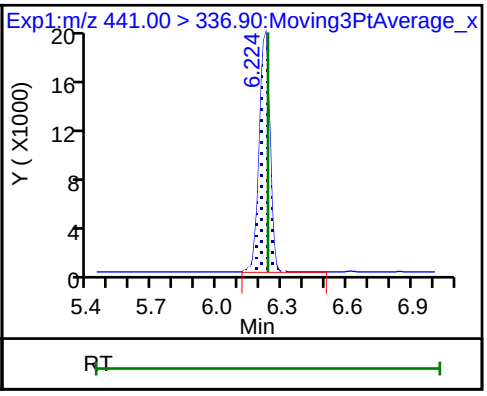
36 PFOA



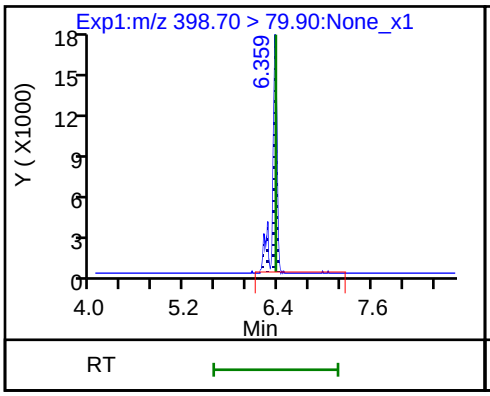
37 7:3 FTCA



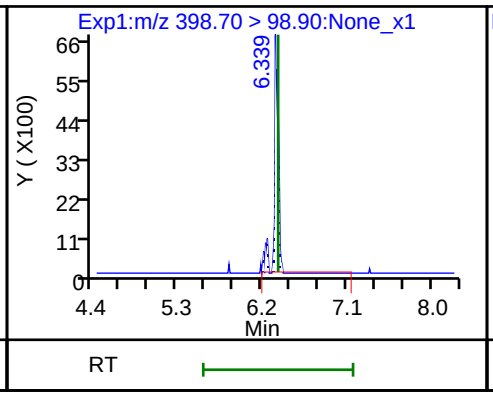
37 7:3 FTCA



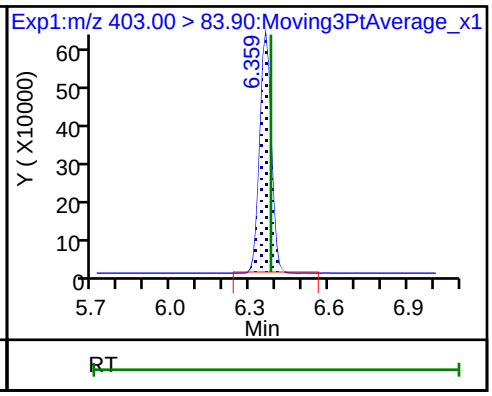
40 PFHxS



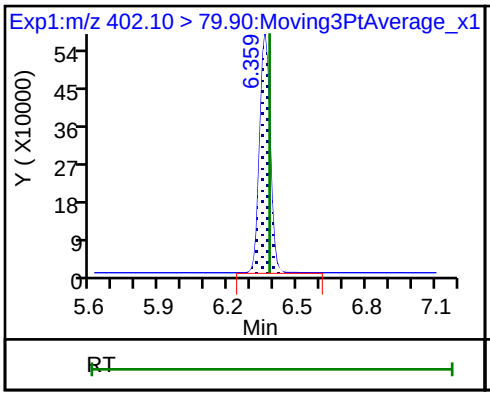
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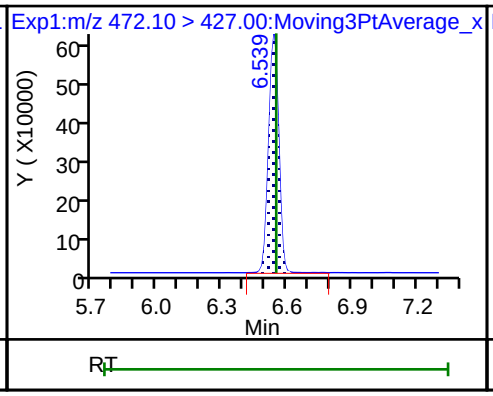
* 39 18O2 PFHxS



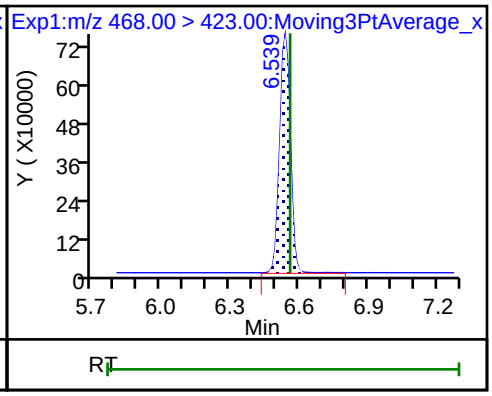
D 38 13C3 PFHxS



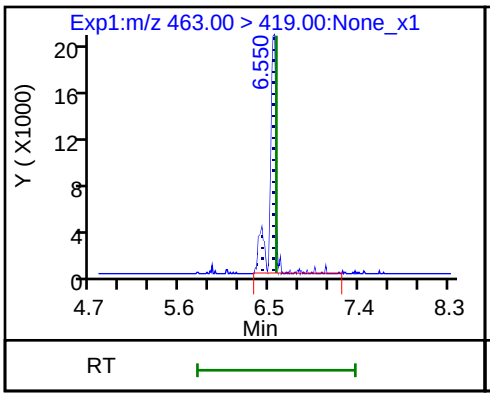
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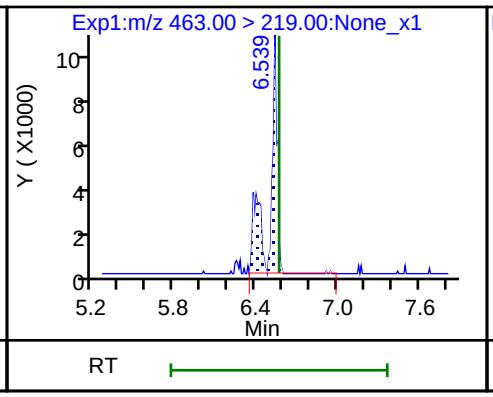
* 42 13C5 PFNA



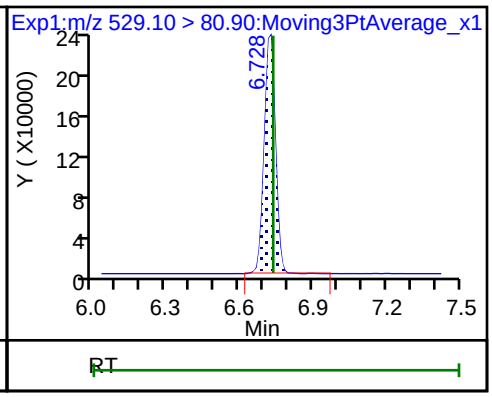
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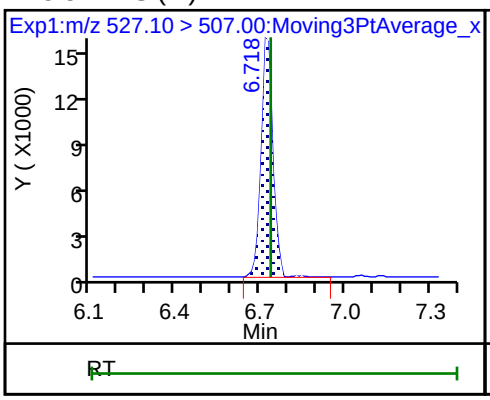
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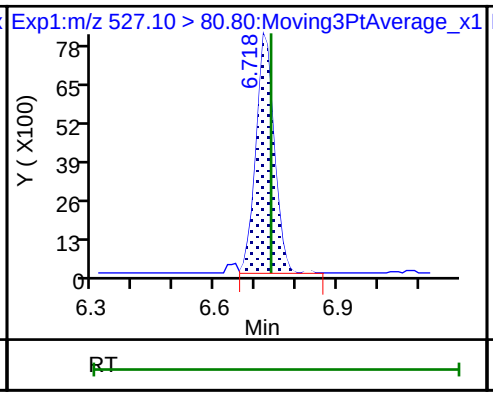
D 44 13C2-8:2FTS



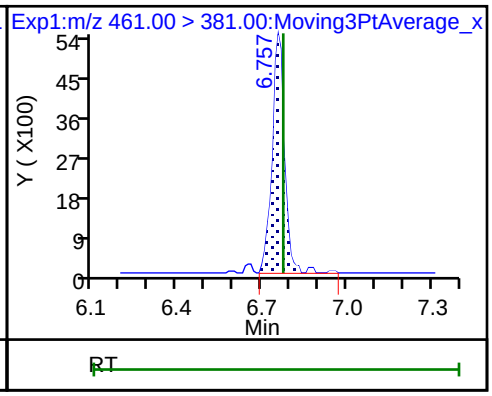
45 8:2FTS (M)



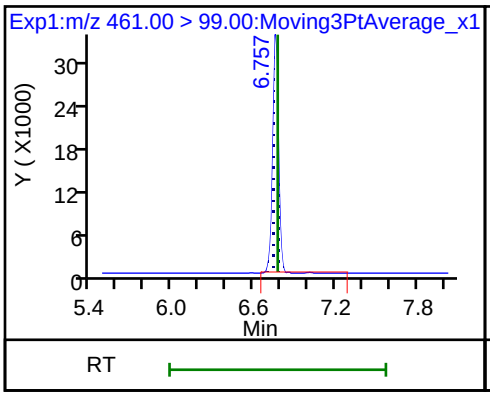
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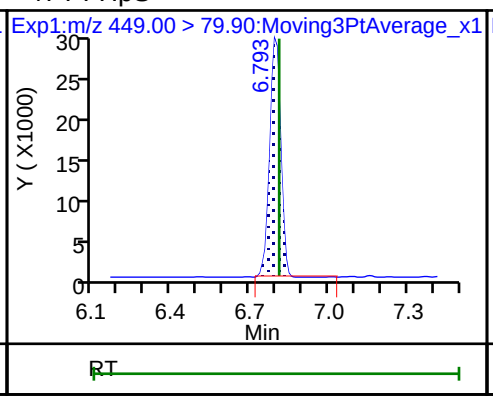
46 PFECHS



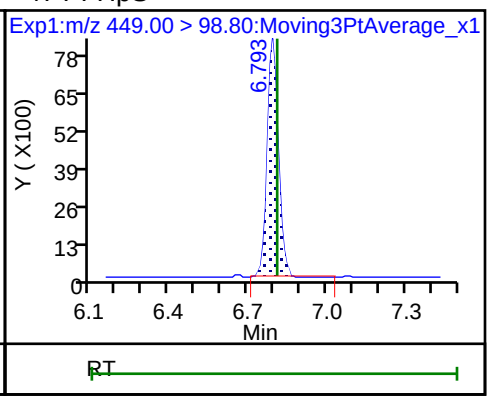
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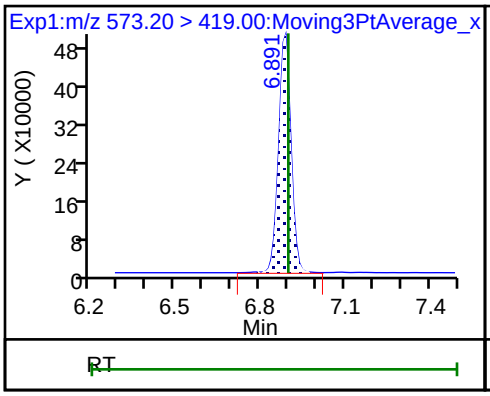
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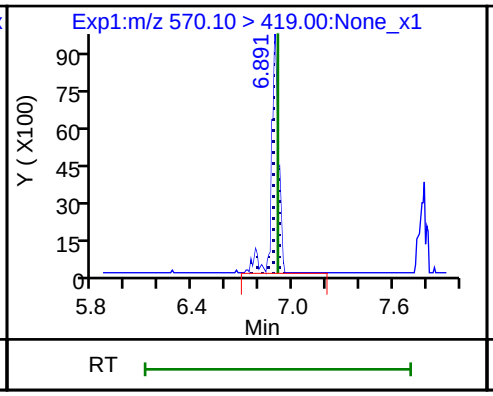
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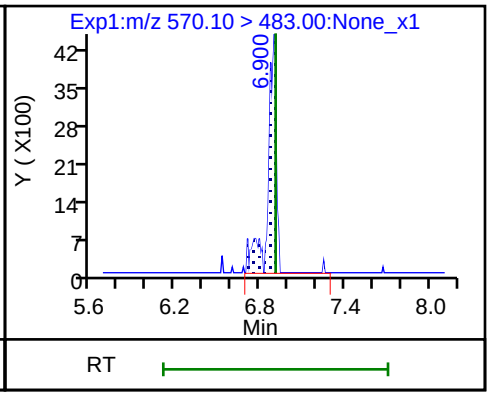
D 49 d3-NMeFOSAA



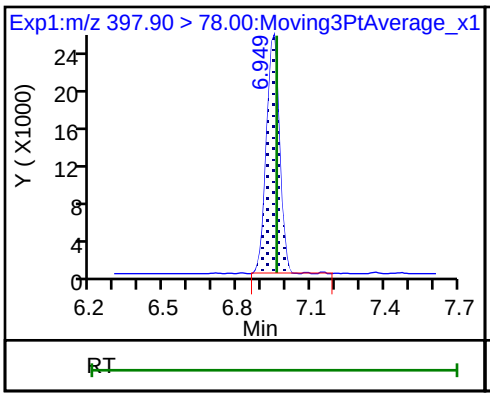
50 NMeFOSAA



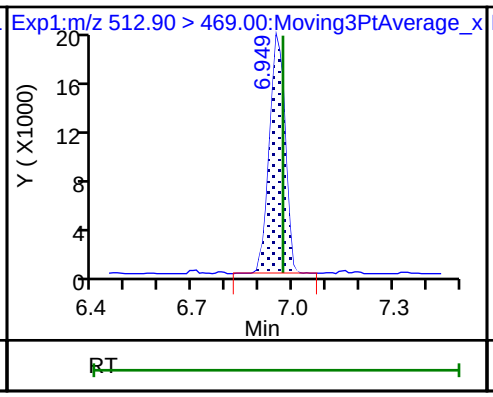
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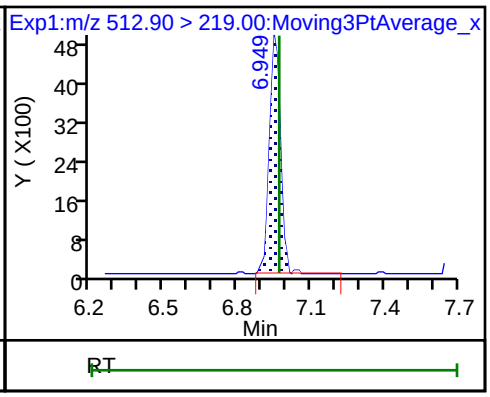
48 FHxSA



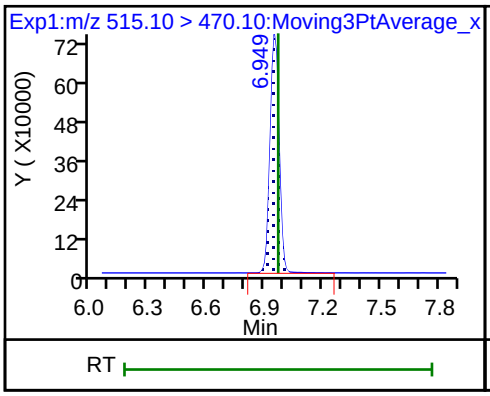
53 PFDA



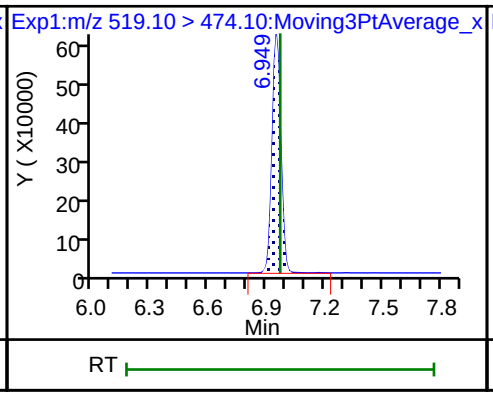
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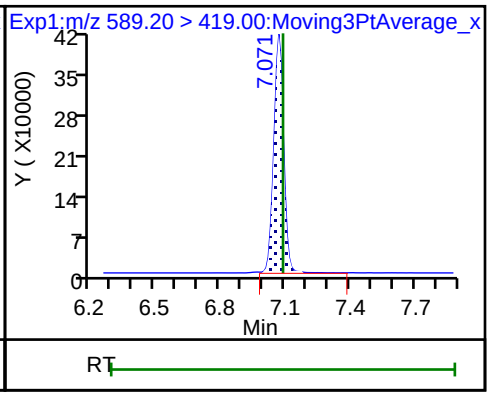
* 51 13C2 PFDA



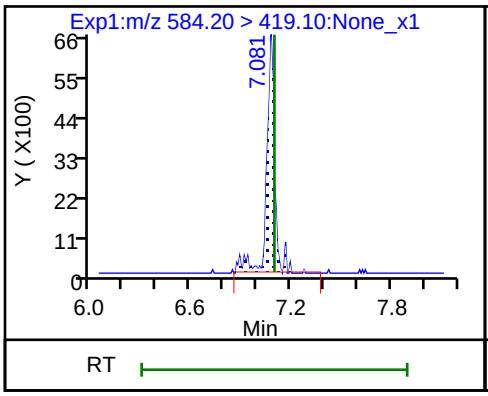
D 52 13C6 PFDA



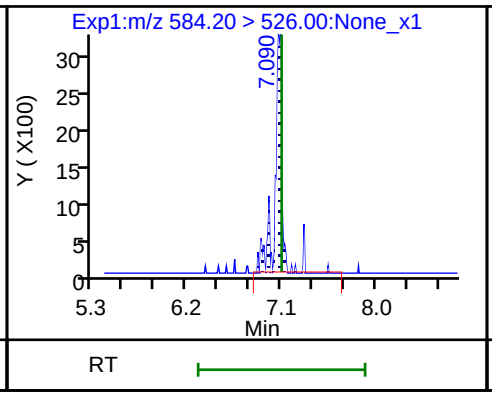
D 54 d5-NEtFOSAA



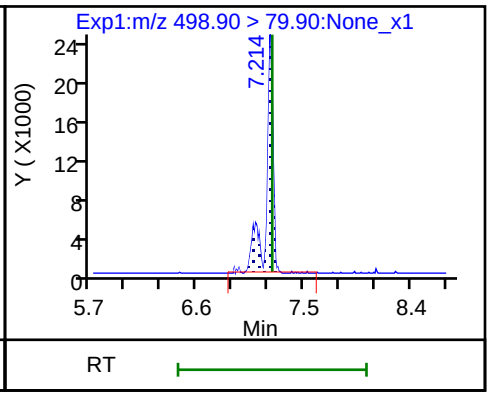
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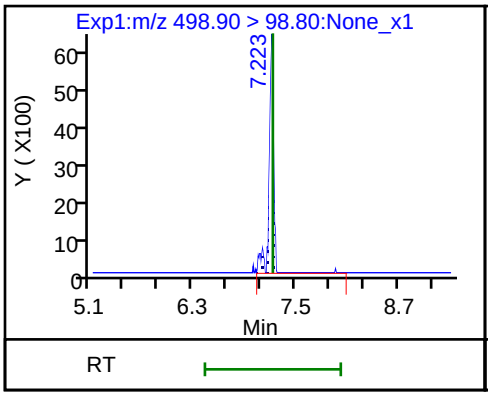
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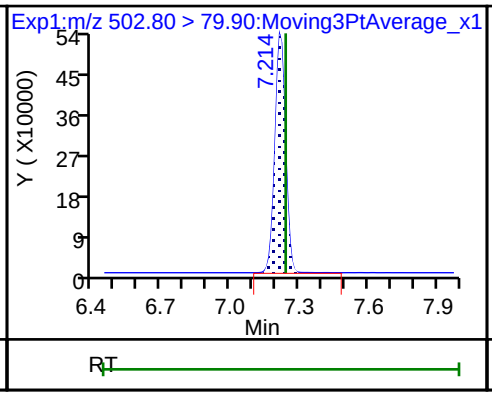
58 PFOS



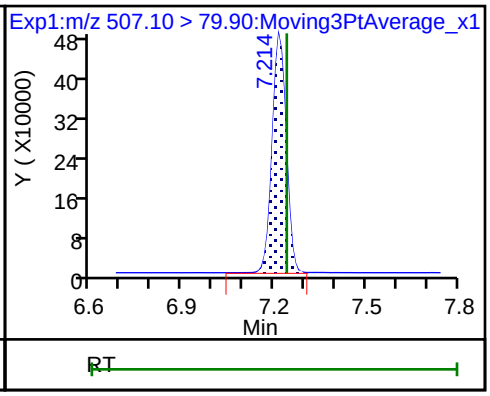
58 PFOS



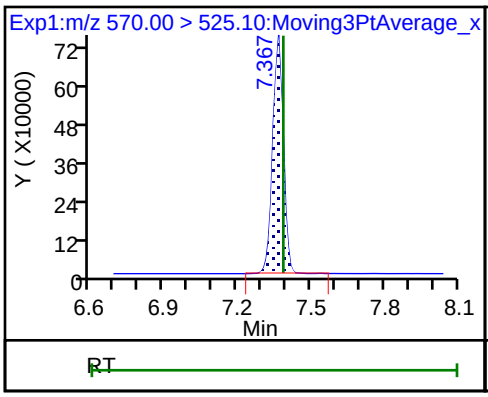
* 57 13C4 PFOS



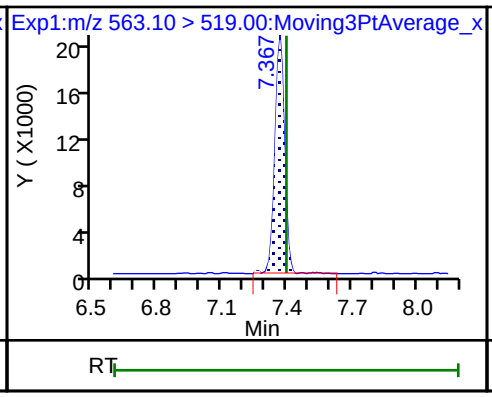
D 56 13C8 PFOS



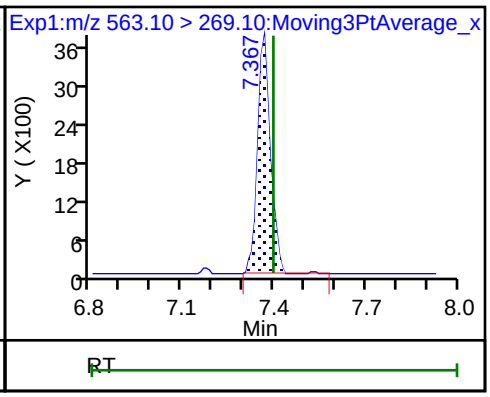
D 59 13C7 PFUnA



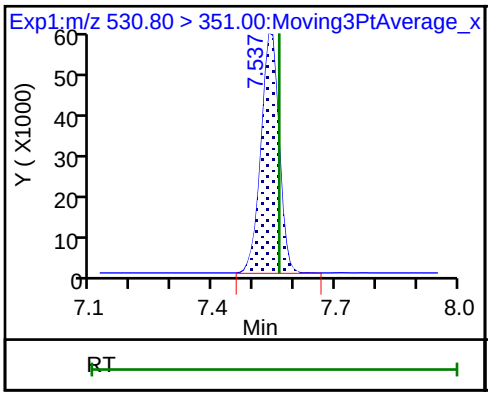
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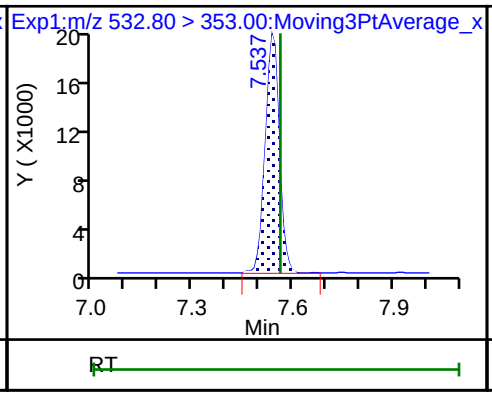
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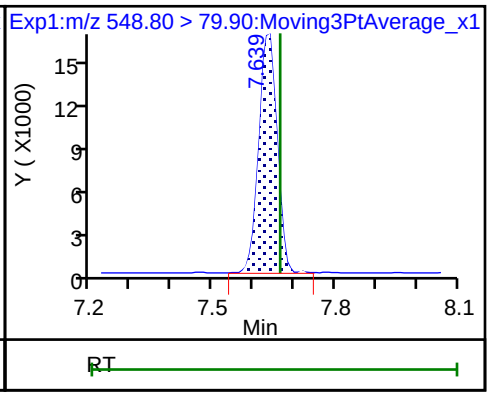
61 9ClFOS



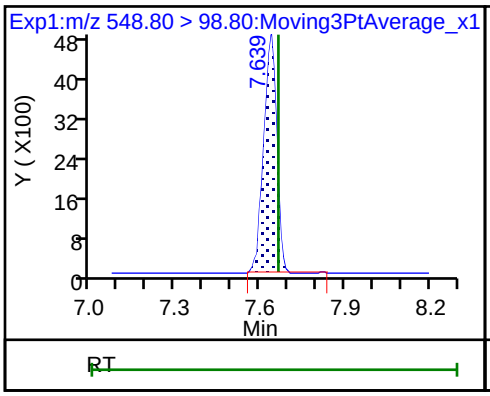
61 9ClFOS



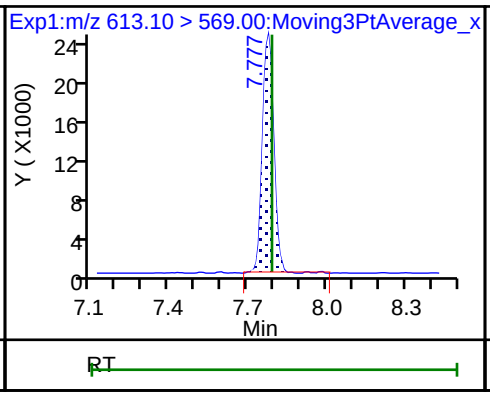
62 PFNS



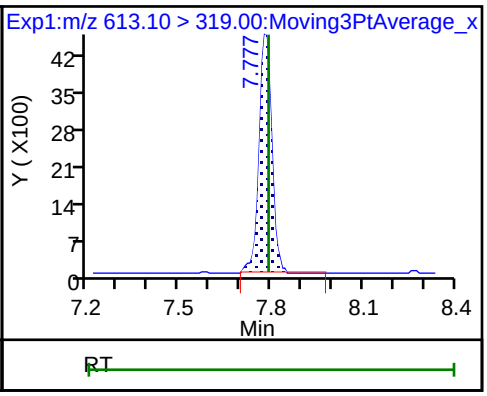
62 PFNS



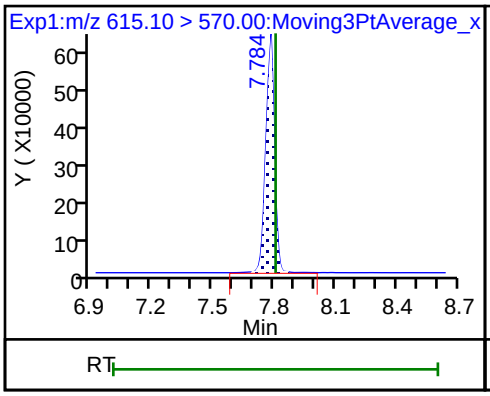
63 PFDoA



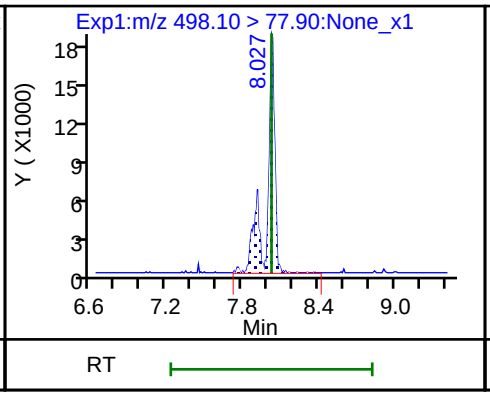
63 PFDoA



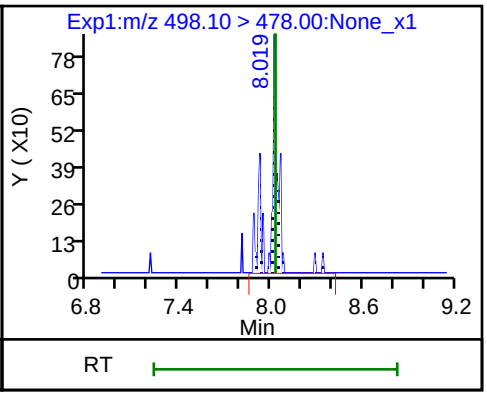
D 81 PFDoA



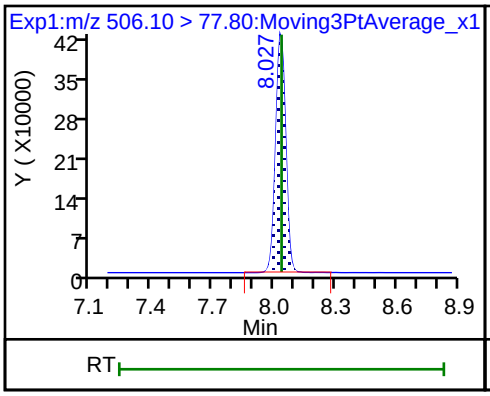
64 PFOSA



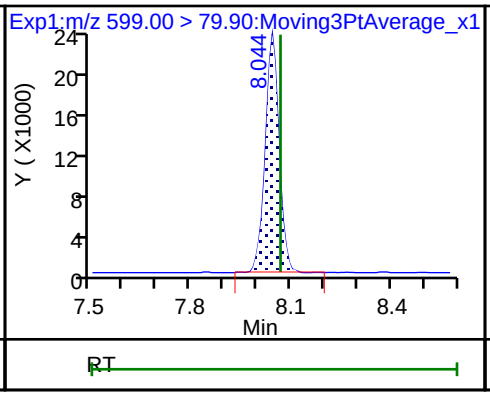
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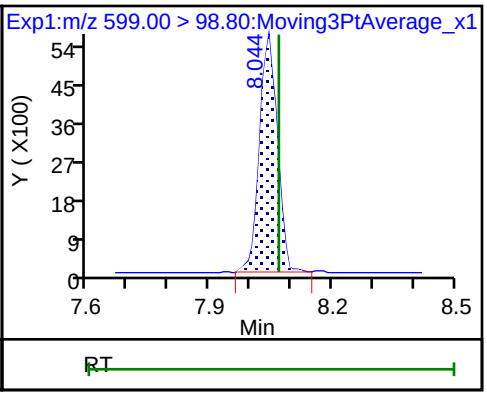
D 65 13C8 FOSA



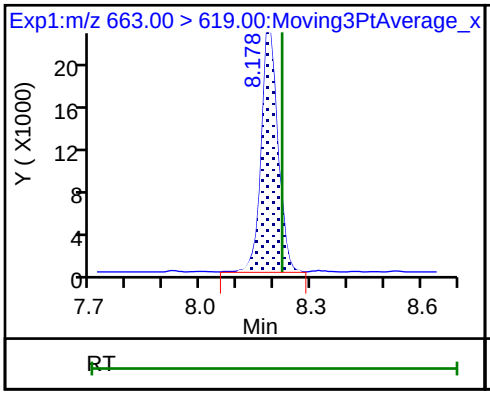
66 PFDS



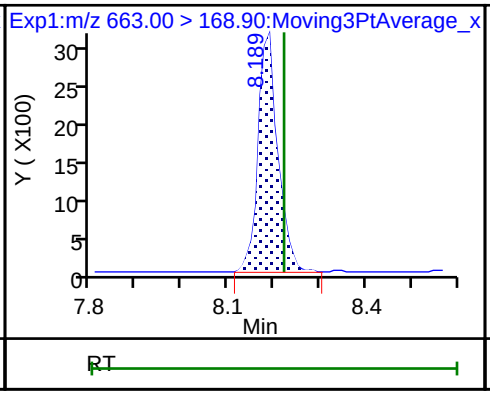
66 PFDS



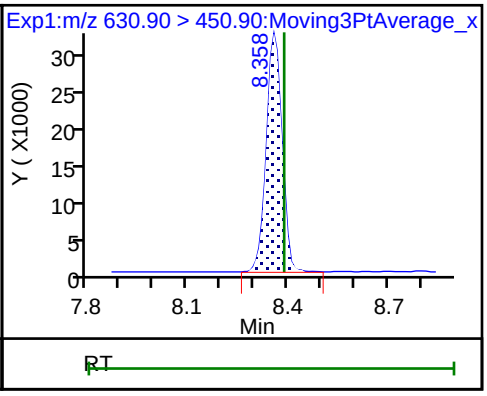
67 PFTrDA



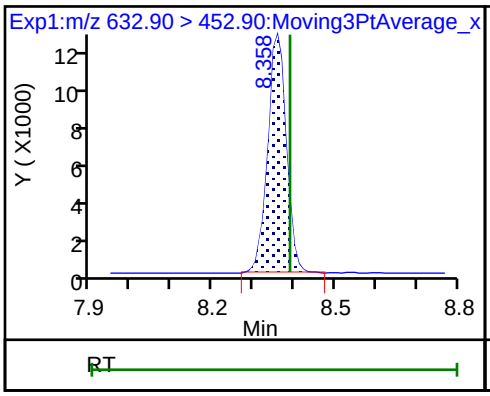
67 PFTrDA



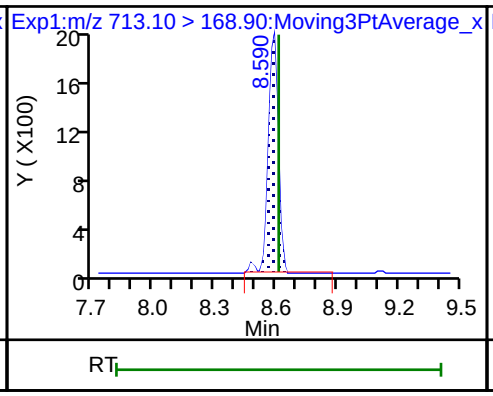
68 11ClFOS



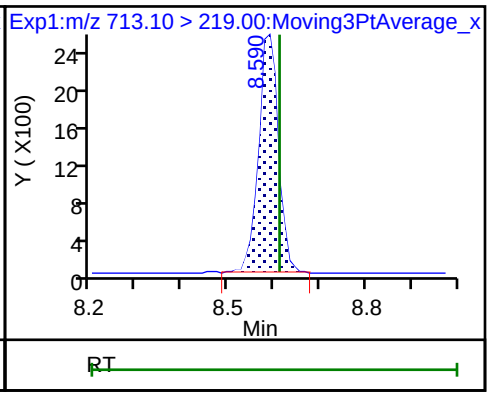
68 11ClFOS



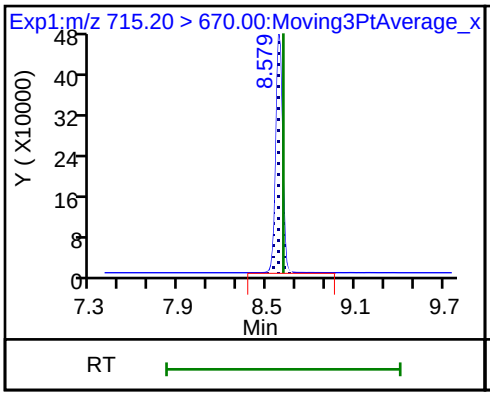
69 PFTeDA



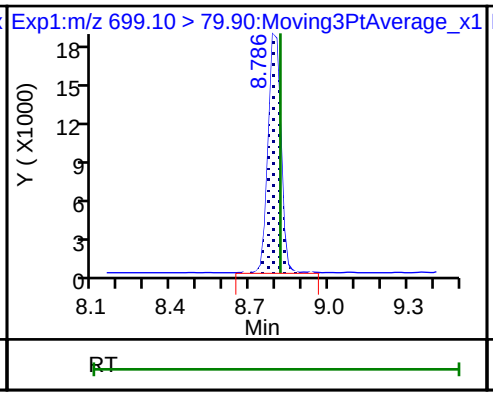
69 PFTeDA



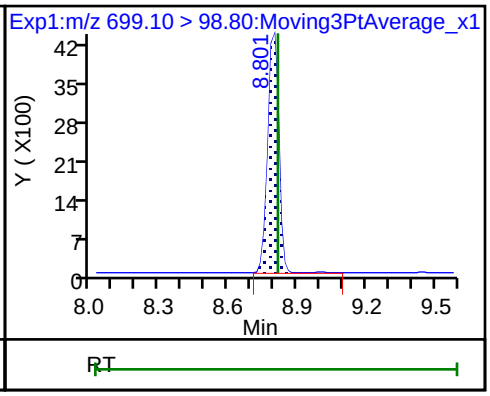
D 70 13C2 PFTeDA



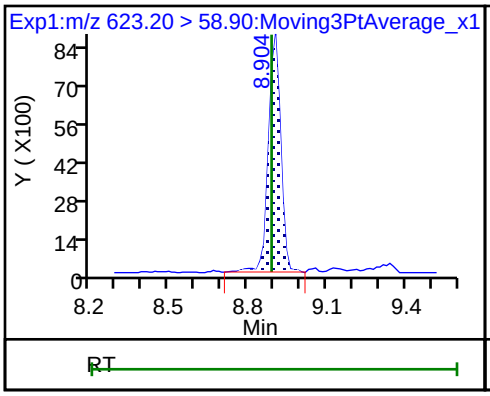
71 PFDoS



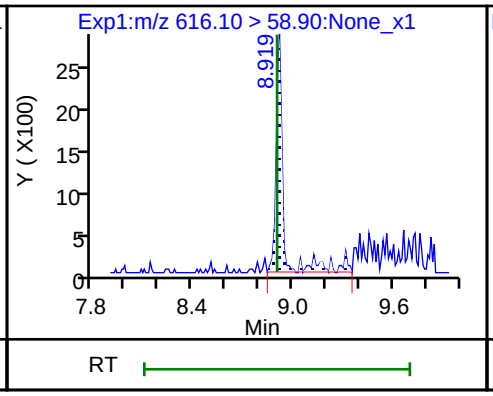
71 PFDoS



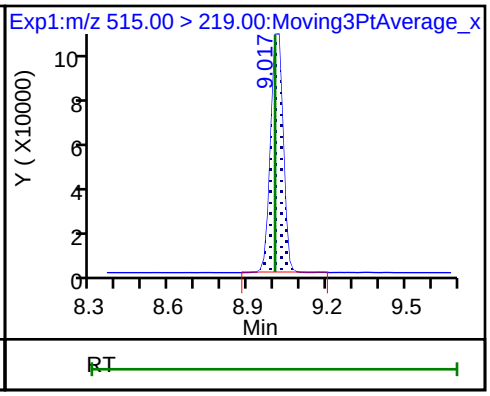
D 72 d7-N-Me-FOSE



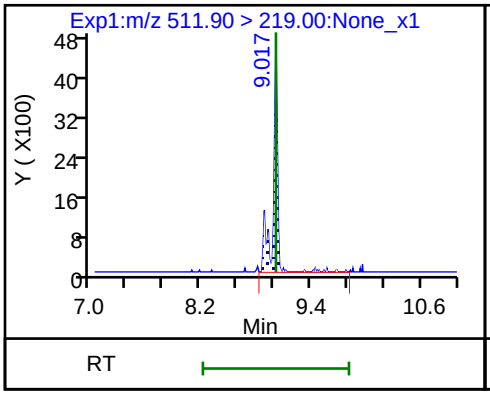
73 N-MeFOSE-M



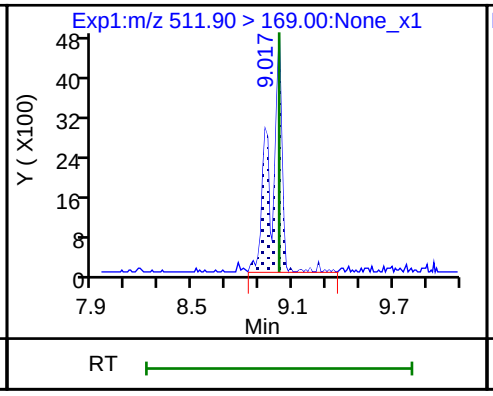
D 75 d3-NMePFOSA



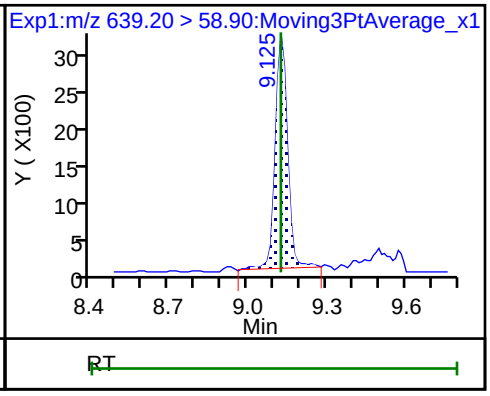
74 NMeFOSA



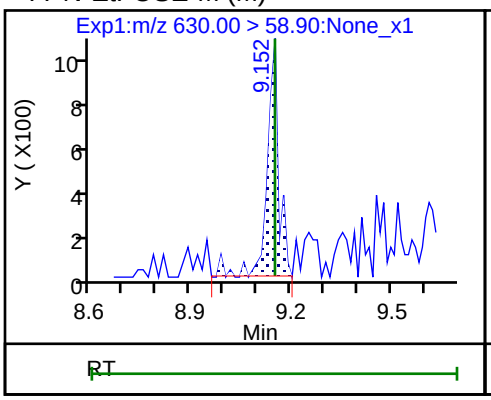
74 NMeFOSA



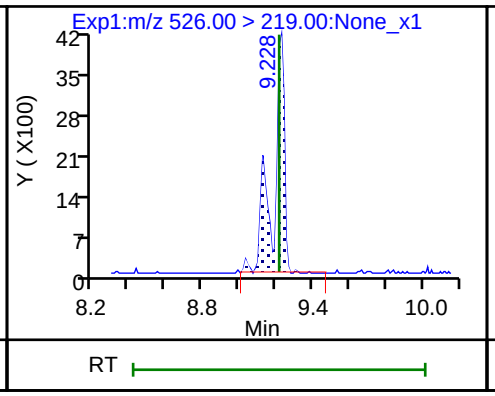
D 76 d9-N-EtFOSE



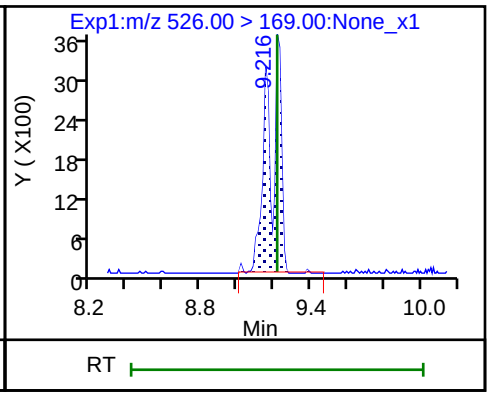
77 N-EtFOSE-M (M)



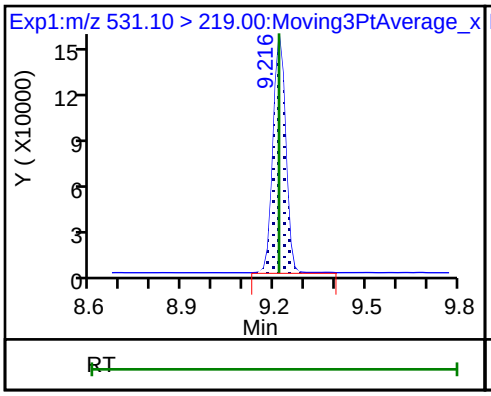
79 N-EtFOSA-M



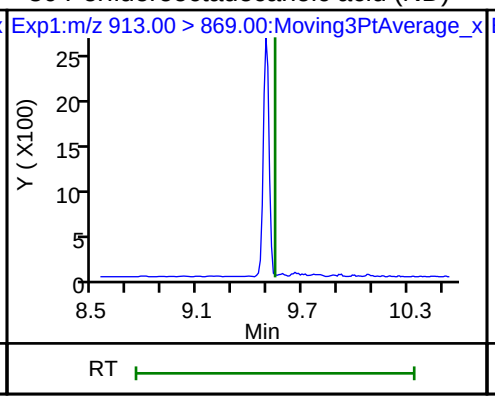
79 N-EtFOSA-M



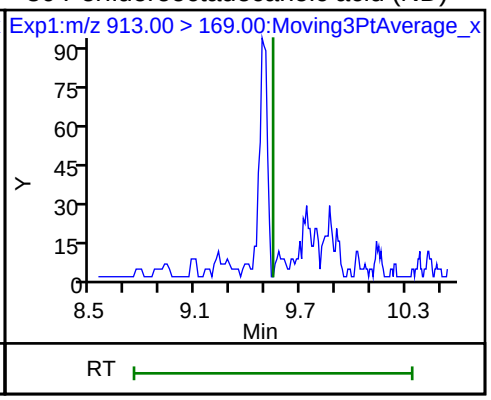
D 78 d5-NEtPFOSA



80 Perfluorooctadecanoic acid (ND)



80 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

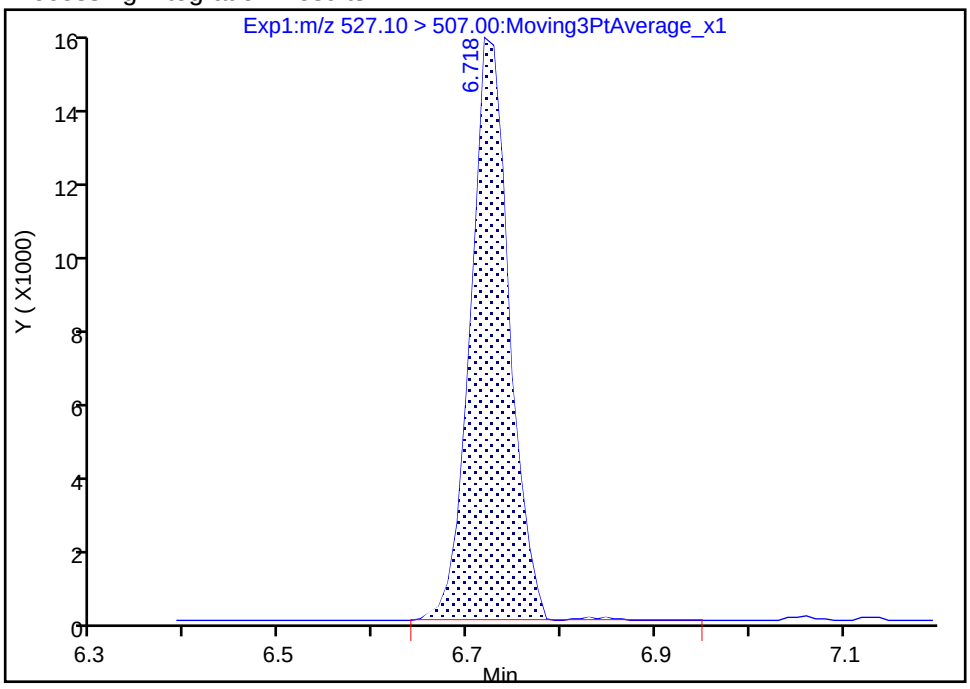
Data File:	\\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-30.d				
Injection Date:	05-Feb-2026 20:32:04	Instrument ID:	30577		
Lims ID:	LLCS 410-765112/3-A				
Client ID:					
Operator ID:	ETUS023_USR_INS00009	ALS Bottle#:	15	Worklist Smp#:	134
Injection Vol:	7.0 ul	Dil. Factor:	1.0000		
Method:	30577-1633-125	Limit Group:	LC - 1633 LVI- ICAL		
Column:		Detector	EXP1		

45 8:2FTS, CAS: 39108-34-4

Signal: 1

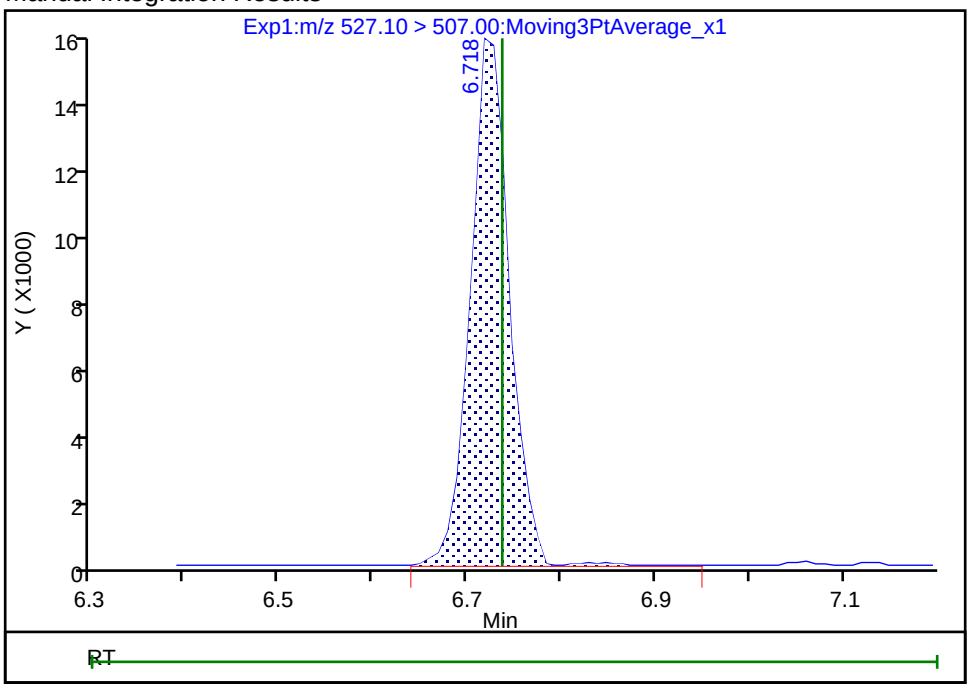
Processing Integration Results

RT: 6.72
Area: 45415
Amount: 0.165730
Amount Units: ng/ml



Manual Integration Results

RT: 6.72
Area: 45415
Amount: 0.165730
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:47:42 -05:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

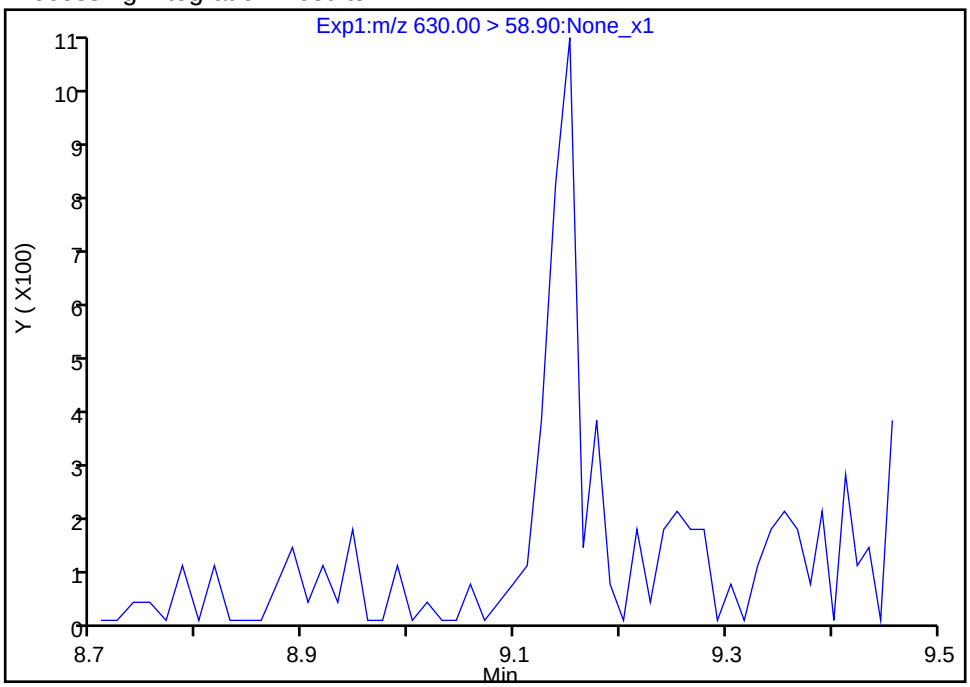
Data File: \\chromfs\Lancaster\ChromData\30577\20260205-174796.b\26FEB05JO-30.d
Injection Date: 05-Feb-2026 20:32:04 Instrument ID: 30577
Lims ID: LLCS 410-765112/3-A
Client ID:
Operator ID: ETUS023_USR_INS00009 ALS Bottle#: 15 Worklist Smp#: 134
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Method: 30577-1633-125 Limit Group: LC - 1633 LVI- ICAL
Column: Detector EXP1

77 N-EtFOSE-M, CAS: 1691-99-2

Signal: 1

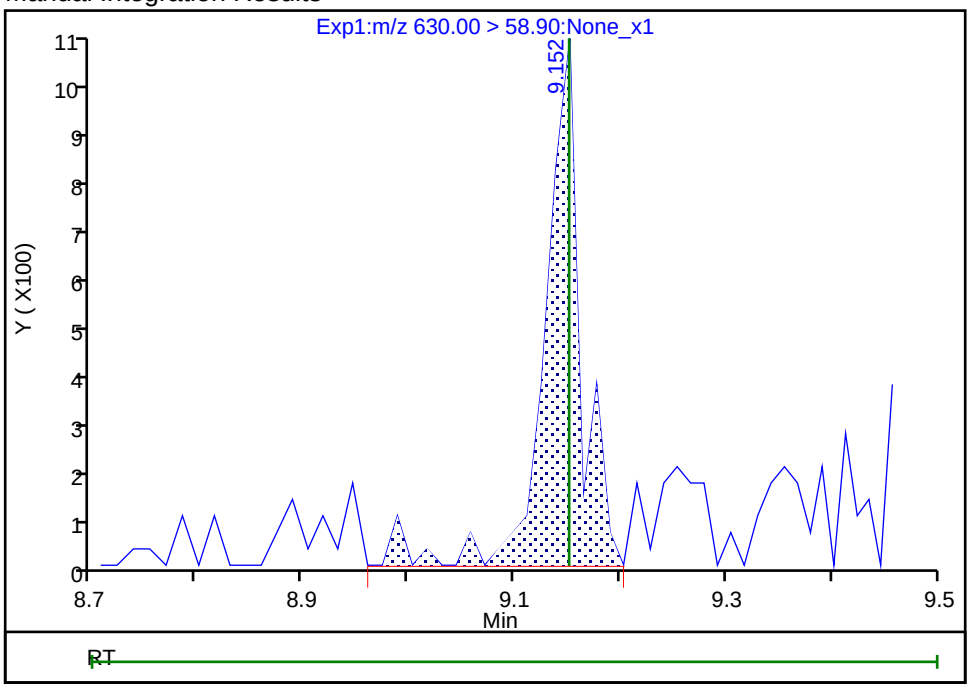
Not Detected
Expected RT: 9.15

Processing Integration Results



Manual Integration Results

RT: 9.15
Area: 2450
Amount: 0.350778
Amount Units: ng/ml



Reviewer: XBL5, 05-Feb-2026 22:47:59 -05:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: 460-344049-A-5-B MS

Matrix: Solid
Lab File ID: 26Feb04SD-61.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.47(g)
Date Analyzed: 02/04/2026 20:13

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 16.5 % Solids: 83.5
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.496		0.39	0.097
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.196		0.19	0.097
307-24-4	Perfluorohexanoic acid (PFHxA)	2.294		0.19	0.097
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.346		0.19	0.097
335-67-1	Perfluorooctanoic acid (PFOA)	3.003		0.19	0.058
375-95-1	Perfluorononanoic acid (PFNA)	2.327		0.19	0.097
335-76-2	Perfluorodecanoic acid (PFDA)	2.266		0.19	0.058
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.392		0.19	0.097
307-55-1	Perfluorododecanoic acid (PFDoA)	2.384		0.19	0.097
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	2.060		0.19	0.097
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	2.197		0.19	0.097
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.949		0.19	0.097
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	2.179		0.19	0.097
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.230		0.19	0.097
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.235		0.19	0.097
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.657		0.19	0.097
68259-12-1	Perfluorononanesulfonic acid (PFNS)	2.063		0.19	0.097
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.974		0.19	0.097
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.660		0.19	0.097
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.235		0.39	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.003		0.39	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.284		0.39	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.317		0.19	0.097
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	2.364		0.19	0.097
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.342		0.19	0.097

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: 460-344049-A-5-B MS

Matrix: Solid
Lab File ID: 26Feb04SD-61.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.47(g)
Date Analyzed: 02/04/2026 20:13

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 16.5 % Solids: 83.5
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.969		0.19	0.097
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.399		0.19	0.097
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	11.82		0.97	0.48
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	10.56		0.97	0.48
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.694		0.19	0.097
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.144		0.19	0.097
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	2.388		0.19	0.097
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	2.213		0.19	0.097
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.296		0.19	0.097
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	2.071		0.19	0.097
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	1.914		0.19	0.097
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.134		0.19	0.097
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.379		0.39	0.19
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	10.19		0.97	0.48
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	11.09		0.97	0.48

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: 460-344049-A-5-B MS

Matrix: Solid
Lab File ID: 26Feb04SD-61.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.47(g)
Date Analyzed: 02/04/2026 20:13

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 16.5 % Solids: 83.5
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	102		8-130
2283397-79-3	13C5 PFPeA	98.3		35-130
2328024-54-8	13C5 PFHxA	94.7		40-130
2328024-55-9	13C4 PFHpA	98.7		40-130
1350614-84-4	13C8 PFOA	104		40-130
2283397-80-6	13C9 PFNA	98.0		40-130
2328024-56-0	13C6 PFDA	100		40-130
STL02580	13C7 PFUnA	91.5		40-130
STL02116	13C2 PFTeDA	72.4		20-130
2708218-83-9	13C3 PFBS	100		40-135
2708218-85-1	13C3 PFHxS	96.2		40-130
2265893-05-6	13C8 PFOS	95.0		40-130
STL01056	13C8 FOSA	85.6		40-130
1400690-70-1	d3-NMeFOSAA	102		40-135
1265205-97-7	d5-NEtFOSAA	93.5		40-150
STL02395	13C2 4:2 FTS	148		40-165
STL02279	13C2 6:2 FTS	150		40-215
STL02280	13C2 8:2 FTS	115		40-275
STL02255	13C3 HFPO-DA	94.7		40-130
STL02277	d7-N-MeFOSE-M	34.6		20-130
STL02278	d9-N-EtFOSE-M	32.9		15-130
STL02704	d5-NEtPFOSA	74.5		10-130
STL02705	d3-NMePFOSA	74.7		10-130
960315-52-0	13C2 PFDoA	89.1		40-130

Report Date: 04-Feb-2026 21:23:29 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-61.d
Lims ID: 460-344049-A-5-B MS
Client ID: EP-17_6_20260129
Sample Type: MS
Inject. Date: 04-Feb-2026 20:13:06 ALS Bottle#: 44 Worklist Smp#: 150
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 460-344049-A-5-B MS
Misc. Info.: Plate: 1 Rack: 1 410-0174617-150
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 21:19:45 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 20:41:28
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										
163.00 > 119.00	2.059	2.098	-0.039	1.004	3564299	4.86		97.2	1248	
D 2 13C3PFPrA										
166.00 > 121.00	2.051	2.114	-0.063	0.471	1579673	1.84		92.0	454	
5 PFBA										
212.80 > 168.90	4.345	4.330	0.015	0.998	2547682	1.86		92.8	4841	
D 6 13C4-PFBA										
216.80 > 171.90	4.353	4.338	0.015	1.000	2924541	2.04		102	8078	
* 7 13C3PFBA										
216.00 > 172.00	4.353	4.338	0.015		2369653	2.00			3612	
9 PFMPA										
229.00 > 84.90	4.654	4.627	0.027	0.935	1142210	0.9857		98.6	2603	
10 3:3 FTCA										
241.00 > 177.00	4.654	4.637	0.017	0.935	101030	1.81	Target=1.28	90.4	1463	
241.00 > 117.00	4.654	4.637	0.017	0.935	79790		1.27(0.64-1.92)		1005	
D 11 13C5 PFPeA										
268.30 > 223.00	4.978	4.955	0.023	0.917	2166963	1.97		98.3	4734	
12 PFPA										
263.00 > 219.00	4.978	4.968	0.010	1.000	1118779	0.9063		90.6	321	
13 PFMBA										
279.00 > 85.10	5.131	5.112	0.019	1.031	1276066	0.9136		91.4	8514	
15 4:2FTS										
327.10 > 307.00	5.247	5.240	0.007	1.000	1138277	1.75	Target=1.67	93.2	883	
327.10 > 80.90	5.247	5.240	0.007	1.000	793657		1.43(0.83-2.50)		265	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.247	5.240	0.007	0.814	1761038	6.93		148	654	
3 TUDCA										
498.20 > 80.00	5.692	5.267	0.425	0.788	2200	NR		0.0	7.3	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.386	5.378	0.008	0.992	547302	0.9477	Target=1.57	94.8	2624	
295.00 > 84.90	5.386	5.378	0.008	0.992	357902		1.53(0.78-2.35)		1210	
D 17 13C5 PFHxA										
318.00 > 273.00	5.427	5.418	0.009	1.000	2940642	1.89		94.7	9933	
* 18 13C2 PFHxA										
315.10 > 270.00	5.427	5.432	-0.005		6719335	5.00			15372	
19 PFHxA										
313.00 > 269.00	5.442	5.432	0.010	1.003	1336812	0.9468	Target=12.08	94.7	372	
313.00 > 118.90	5.442	5.432	0.010	1.003	115516		11.57(6.04-18.11)		377	
22 5:3 FTCA										
341.00 > 237.10	5.510	5.500	0.010	1.015	757586	4.21	Target=0.89	84.1	1264	
341.00 > 217.00	5.510	5.500	0.010	1.015	806423		0.94(0.45-1.34)		1559	
21 PFBS										
298.70 > 79.90	5.564	5.568	-0.004	1.000	932762	0.8042	Target=3.03	90.6	596	
298.70 > 98.80	5.564	5.568	-0.004	1.000	297764		3.13(1.52-4.55)		1259	
D 20 13C3 PFBS										
302.10 > 79.90	5.564	5.568	-0.004	0.864	2387429	1.87		100	5197	
28 FBSA										
297.90 > 78.00	5.564	5.582	-0.018	1.000	786254	0.7712		77.1	2728	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.607	5.611	-0.004	1.033	2013519	1.89		94.7	4049	
24 HFPO-DA										
284.90 > 168.90	5.621	5.611	0.010	1.003	674835	0.6991	Target=2.32	93.2	2217	
284.90 > 184.90	5.621	5.611	0.010	1.003	289999		2.33(1.16-3.48)		207	
4 TCDCA										
498.10 > 80.00	5.678	5.701	-0.023	0.786	2020	NR		0.0	3.6	
25 PFEESA										
314.80 > 134.90	5.802	5.791	0.011	1.069	2711890	0.8806	Target=13.29	98.7	5996	
314.80 > 82.90	5.788	5.791	-0.003	1.066	185584		14.61(6.64-19.93)		734	
8 TDCA										
498.00 > 80.00	5.802	5.811	-0.009	0.803	1814	NR		0.0	5.7	
27 PFHpA										
363.10 > 319.00	5.841	5.845	-0.004	1.000	1426042	0.9682	Target=2.38	96.8	409	
363.10 > 169.00	5.841	5.845	-0.004	1.000	617106		2.31(1.19-3.58)		659	
D 26 13C4 PFHpA										
367.10 > 322.00	5.841	5.845	-0.004	1.076	3004950	1.97		98.7	6672	
29 ADONA										
376.90 > 250.90	5.996	5.988	0.008	1.069	2912518	0.8849	Target=1.85	93.5	18496	
376.90 > 84.80	5.985	5.988	-0.003	1.067	1564963		1.86(0.92-2.77)		4668	
32 PFPeS										
349.10 > 79.90	6.018	6.033	-0.015	0.934	1143977	0.8993	Target=3.35	95.7	1300	
349.10 > 98.90	6.018	6.033	-0.015	0.934	333589		3.43(1.68-5.03)		1792	
31 6:2FTS										
427.10 > 407.00	6.030	6.033	-0.003	1.000	777007	1.65	Target=1.88	86.8	3603	
427.10 > 80.90	6.030	6.033	-0.003	1.000	469090		1.66(0.94-2.83)		1188	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.030	6.033	-0.003	0.936	1074954	7.13		150	3210	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 BTS										
280.00 > 147.00	6.165	6.189	-0.024	0.957	1828720	0.8772		88.1	7709	
D 35 13C8 PFOA										
421.10 > 376.00	6.230	6.233	-0.003	1.000	3733134	2.08		104	8662	
* 34 13C4 PFOA										
417.10 > 372.00	6.230	6.233	-0.003		8979577	5.00			12071	
36 PFOA										
413.00 > 369.00	6.230	6.233	-0.003	1.000	1754419	1.24	Target=2.16	124	31838	
413.00 > 169.00	6.230	6.233	-0.003	1.000	787258		2.23(1.08-3.25)		33143	
39 7:3 FTCA										
441.00 > 316.90	6.291	6.296	-0.005	1.159	749337	4.58	Target=0.79	91.5	1409	
441.00 > 336.90	6.291	6.296	-0.005	1.159	903680		0.83(0.39-1.18)		1982	
40 PFHxS										
398.70 > 79.90	6.443	6.460	-0.017	1.000	1141142	0.9204	Target=3.45	101	367897	
398.70 > 98.90	6.443	6.460	-0.017	1.000	314338		3.63(1.73-5.18)		112639	
* 38 18O2 PFHxS										
403.00 > 83.90	6.443	6.460	-0.017		1905127	1.90			9924	
D 37 13C3 PFHxS										
402.10 > 79.90	6.443	6.460	-0.017	1.000	1835303	1.82		96.2	5671	
43 PFNA										
463.00 > 419.00	6.614	6.620	-0.006	1.002	1323183	0.9605	Target=2.87	96.1	79561	
463.00 > 219.00	6.614	6.620	-0.006	1.002	471425		2.81(1.44-4.31)		692	
D 42 13C9 PFNA										
472.10 > 427.00	6.602	6.620	-0.018	0.998	3142233	1.96		98.0	8476	
* 41 13C5 PFNA										
468.00 > 423.00	6.614	6.620	-0.006		3192424	2.00			7618	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.773	6.790	-0.017	1.051	813978	5.54		115	4823	
45 8:2FTS										
527.10 > 507.00	6.773	6.790	-0.017	1.000	492199	1.77	Target=1.57	92.1	151278	
527.10 > 80.80	6.785	6.790	-0.005	1.002	326171		1.51(0.79-2.36)		1106	
46 PFECHS										
461.00 > 381.00	6.807	6.824	-0.017	1.057	266433	0.8274	Target=0.30	89.5	842	
461.00 > 99.00	6.796	6.824	-0.028	1.055	868522		0.31(0.15-0.45)		1115	
47 PFHpS										
449.00 > 79.90	6.841	6.857	-0.016	0.947	898427	0.9226	Target=3.53	96.7	2263	
449.00 > 98.80	6.841	6.857	-0.016	0.947	254677		3.53(1.76-5.29)		1636	
53 FHxSA										
397.90 > 78.00	6.875	6.869	0.006	1.067	1135046	0.8559		85.6	2211	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.934	6.940	-0.006	0.960	1745425	5.11		102	10881	
49 NMeFOSAA										
570.10 > 419.00	6.934	6.940	-0.006	1.000	317040	0.8126	Target=1.75	81.3	730	
570.10 > 483.00	6.934	6.940	-0.006	1.000	179861		1.76(0.87-2.62)		169	
D 50 13C6 PFDA										
519.10 > 474.10	6.983	7.015	-0.032	1.000	3462581	2.00		100	10750	
* 52 13C2 PFDA										
515.10 > 470.10	6.983	7.015	-0.032		3887508	2.00			8677	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
51 PFDA										
512.90 > 469.00	6.996	7.015	-0.019	1.002	1355855	0.9351	Target=4.54	93.5	4101	
512.90 > 219.00	6.996	7.015	-0.019	1.002	294478		4.60(2.27-6.81)		1510	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.103	7.124	-0.021	0.983	1410366	4.67		93.5	3623	
55 NEtFOSAA										
584.20 > 419.10	7.103	7.124	-0.021	1.000	229307	0.9900	Target=1.38	99.0	308	
584.20 > 526.00	7.103	7.124	-0.021	1.000	151247		1.52(0.69-2.07)		314	
58 PFOS										
498.90 > 79.90	7.236	7.255	-0.019	1.002	1755818	1.51	Target=4.26	162	220204	
498.90 > 98.80	7.236	7.255	-0.019	1.002	393663		4.46(2.13-6.40)		1217	
D 56 13C8 PFOS										
507.10 > 79.90	7.224	7.267	-0.043	1.000	1545815	1.82		95.0	1342	
* 57 13C4 PFOS										
502.80 > 79.90	7.224	7.267	-0.043		1758656	1.92			7822	
D 59 13C7 PFUnA										
570.00 > 525.10	7.370	7.409	-0.039	1.055	3801484	1.83		91.5	3831	
60 PFUnA										
563.10 > 519.00	7.381	7.409	-0.028	1.002	1387926	0.9873	Target=5.23	98.7	3013	
563.10 > 269.10	7.381	7.409	-0.028	1.002	271959		5.10(2.62-7.85)		1711	
61 9ClFOS										
530.80 > 351.00	7.532	7.566	-0.034	1.043	1965274	0.8546	Target=3.05	91.5	14546	
532.80 > 353.00	7.522	7.566	-0.044	1.041	651913		3.01(1.53-4.58)		6569	
62 PFNS										
548.80 > 79.90	7.615	7.656	-0.041	1.054	790244	0.8514	Target=3.70	88.5	2723	
548.80 > 98.80	7.615	7.656	-0.041	1.054	227574		3.47(1.85-5.56)		1619	
D 81 PFDoA										
615.10 > 570.00	7.748	7.801	-0.053	1.109	3281527	1.78		89.1	13046	
63 PFDoA										
613.10 > 569.00	7.757	7.801	-0.044		1440341	0.9839	Target=5.66	98.4	3724	
613.10 > 319.00	7.757	7.801	-0.044		254809		5.65(2.83-8.49)		1827	
64 PFOSA										
498.10 > 77.90	7.973	7.947	0.026	1.000	787494	0.9562	Target=43.43	95.6	2443	
498.10 > 478.00	7.983	7.947	0.036	1.001	17637		44.65(21.71-65.14)		41.0	
D 65 13C8 FOSA										
506.10 > 77.80	7.973	7.957	0.016	1.104	1795643	1.71		85.6	5685	
66 PFDS										
599.00 > 79.90	7.983	8.031	-0.048	1.105	769213	0.8149	Target=3.54	84.5	427	
599.00 > 98.80	7.983	8.031	-0.048	1.105	204716		3.76(1.77-5.31)		830	
67 PFTrDA										
663.00 > 619.00	8.113	8.170	-0.057	0.961	1227224	0.8502	Target=5.76	85.0	5043	
663.00 > 168.90	8.113	8.170	-0.057	0.961	210462		5.83(2.88-8.64)		558	
68 11ClFOS										
630.90 > 450.90	8.256	8.314	-0.058	1.143	1403884	0.7899	Target=3.06	83.7	8140	
632.90 > 452.90	8.256	8.314	-0.058	1.143	459517		3.06(1.53-4.59)		2178	
70 PFTeDA										
713.10 > 168.90	8.441	8.494	-0.053	1.000	116537	0.9068	Target=1.07	90.7	1136	
713.10 > 219.00	8.441	8.494	-0.053	1.000	109963		1.06(0.54-1.61)		579	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 69 13C2 PFTeDA										
715.20 > 670.00	8.441	8.494	-0.053	1.209	1472841	1.45		72.4	4188	
73 PFDoS										
699.10 > 79.90	8.614	8.667	-0.053	1.192	383154	0.6851	Target=4.17	70.6	2129	
699.10 > 98.80	8.614	8.667	-0.053	1.192	96908		3.95(2.09-6.26)		1857	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.742	8.723	0.019	1.210	265767	1.73		34.6	235	
72 N-MeFOSE-M										
616.10 > 58.90	8.757	8.737	0.020	1.002	696418	4.88		97.5	3208	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.830	8.809	0.021	1.222	356423	1.49		74.7	3604	
75 NMeFOSA										
511.90 > 219.00	8.830	8.809	0.021	1.000	177953	0.9757	Target=0.69	97.6	1386	
511.90 > 169.00	8.830	8.809	0.021	1.000	251061		0.71(0.34-1.03)		1320	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.930	8.897	0.033	1.236	257048	1.64		32.9	495	
77 N-EtFOSE-M										
630.00 > 58.90	8.944	8.911	0.033	1.002	884978	4.36		87.1	1912	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.986	8.967	0.019	1.244	433629	1.49		74.5	2675	
79 N-EtFOSA-M										
526.00 > 219.00	8.999	8.981	0.018	1.002	197391	0.9664	Target=0.78	96.6	1784	
526.00 > 169.00	8.999	8.981	0.018	1.002	246631		0.80(0.39-1.17)		2197	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.135	9.238	-0.103	1.082	324667	0.4646	Target=11.85	46.5	6816	
913.00 > 169.00	9.135	9.238	-0.103	1.082	25962		12.51(5.92-17.77)		1615	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00592 Amount Added: 50.00 Units: uL

Report Date: 04-Feb-2026 21:23:29 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-61.d

Injection Date: 04-Feb-2026 20:13:06 Instrument ID: 30575

Lims ID: 460-344049-A-5-B MS

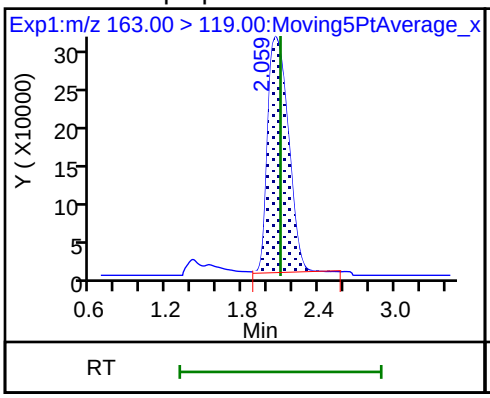
Client ID: EP-17_6_20260129

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 44 Worklist Smp#: 150

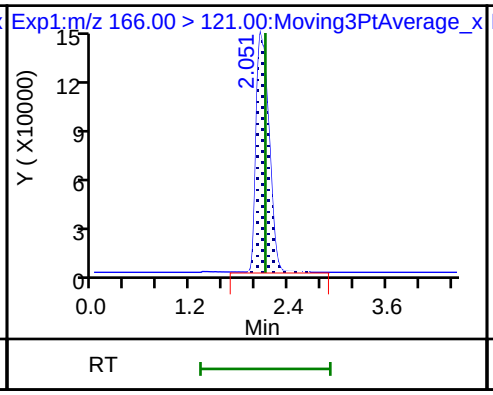
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

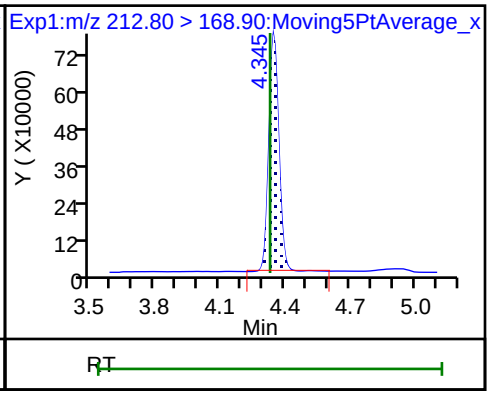
1 Perfluoropropionic acid



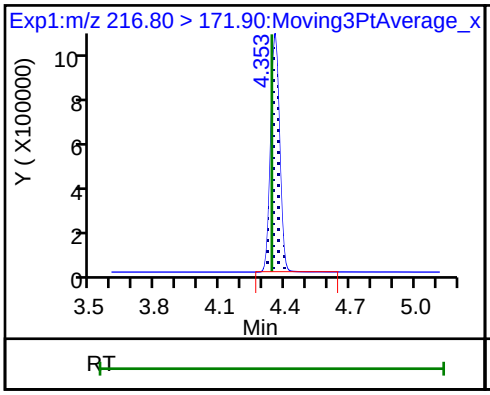
D 2 13C3PFPrA



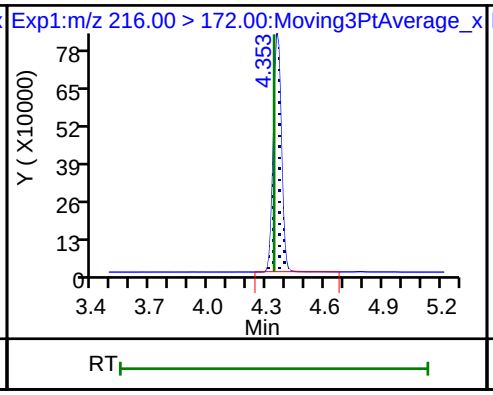
5 PFBA



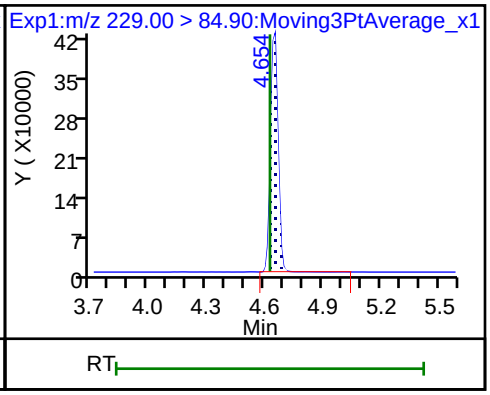
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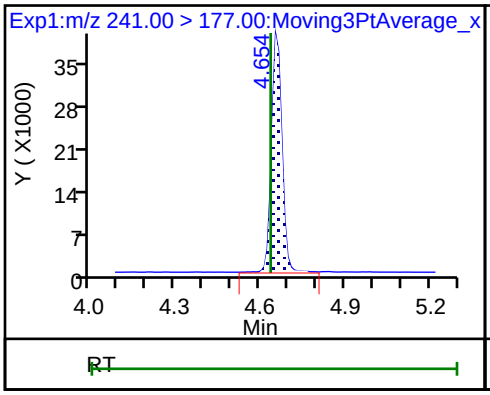
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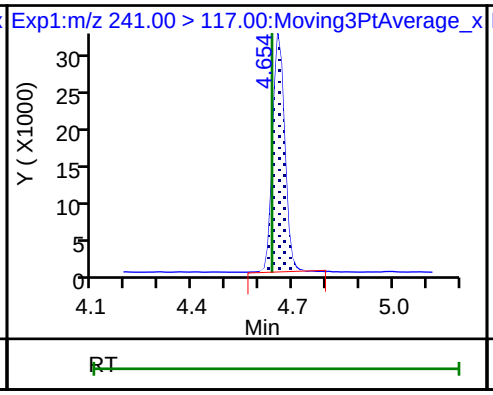
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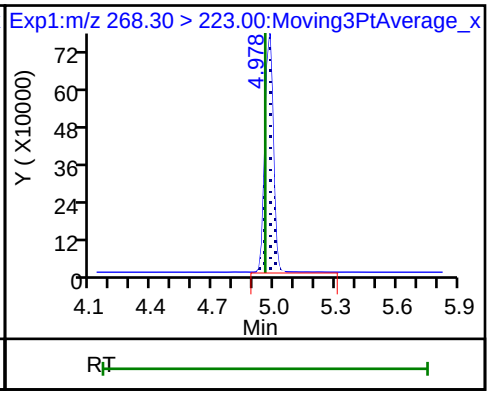
10 3:3 FTCA



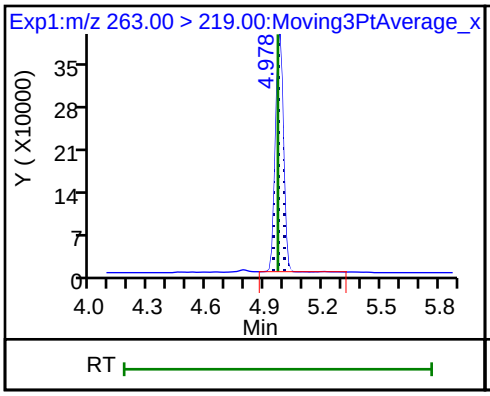
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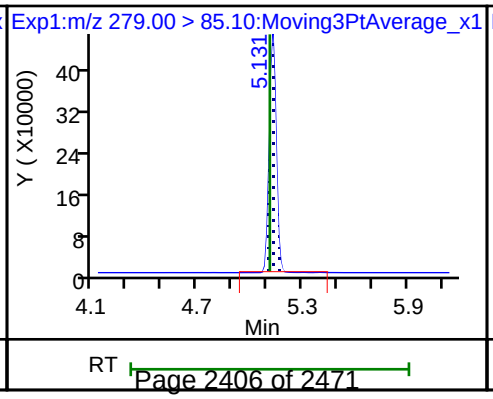
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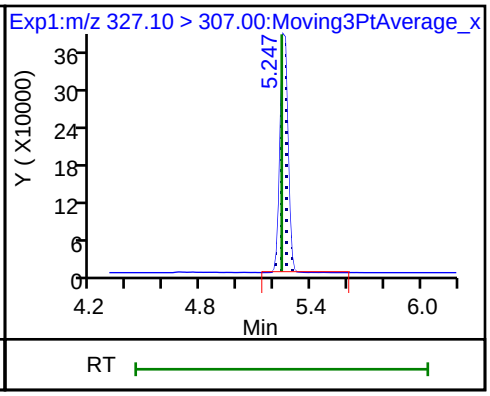
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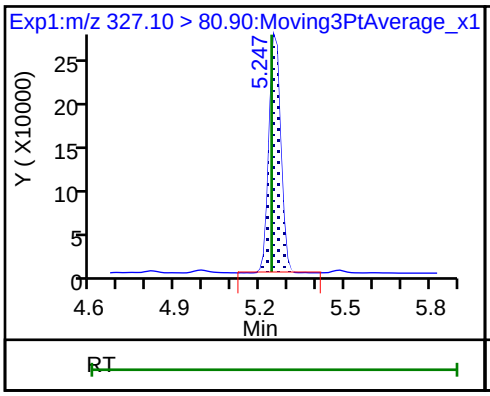
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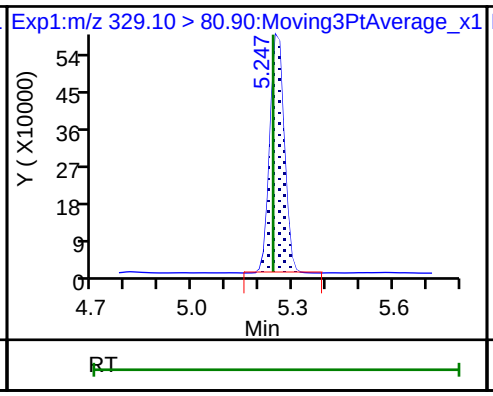
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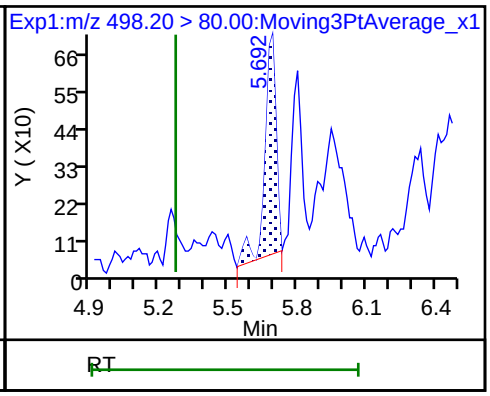
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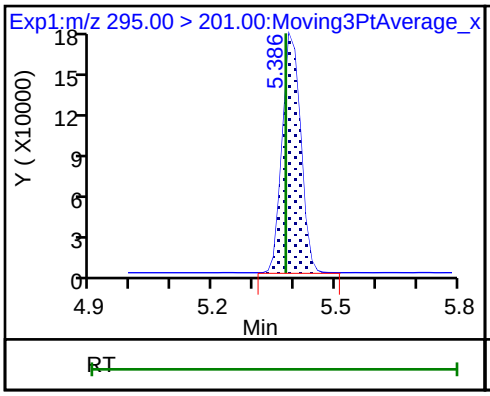
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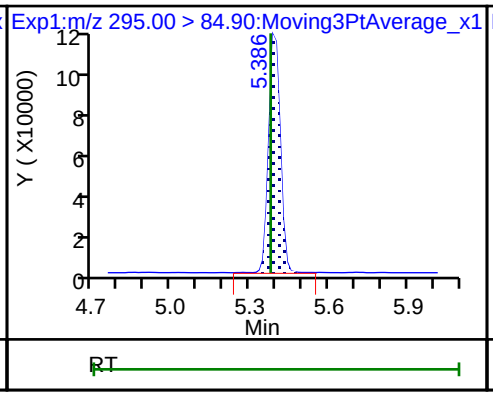
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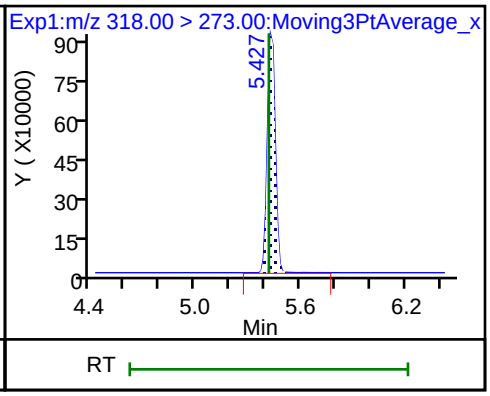
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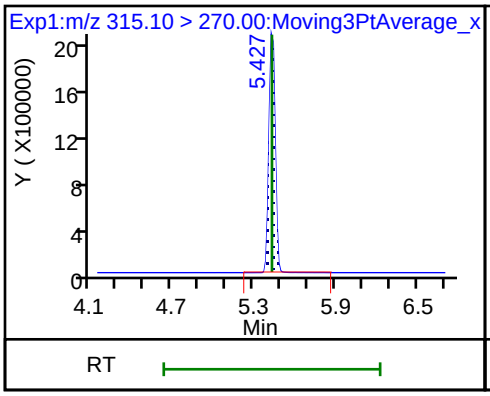
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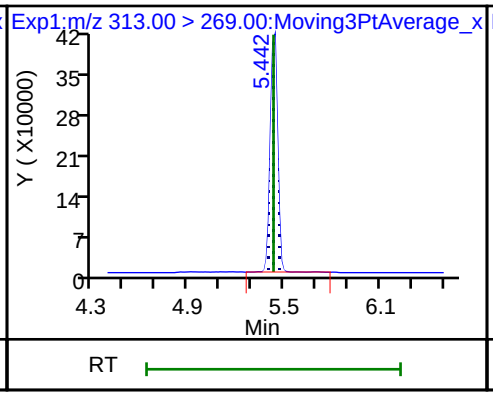
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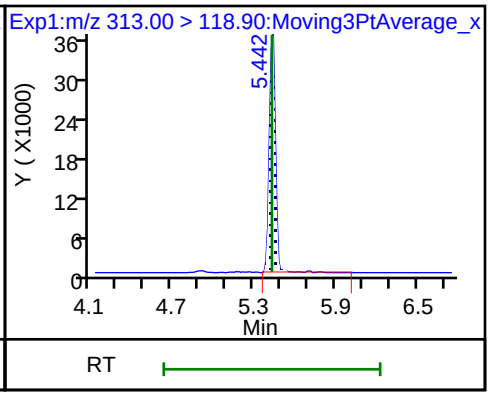
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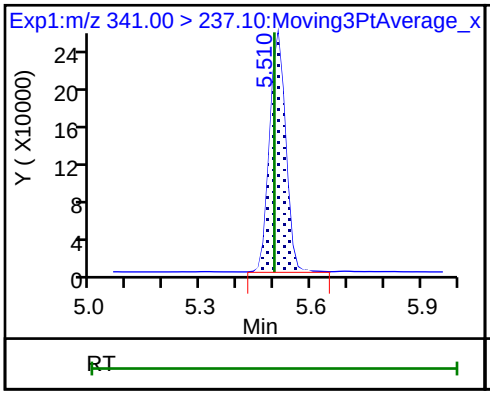
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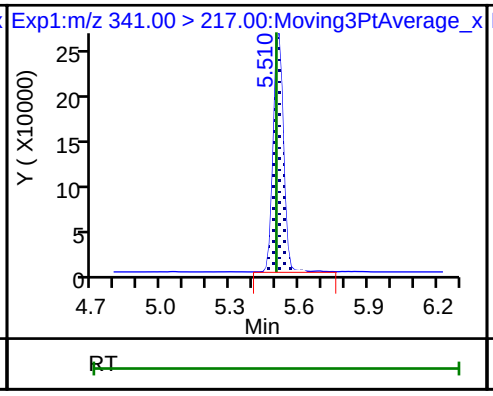
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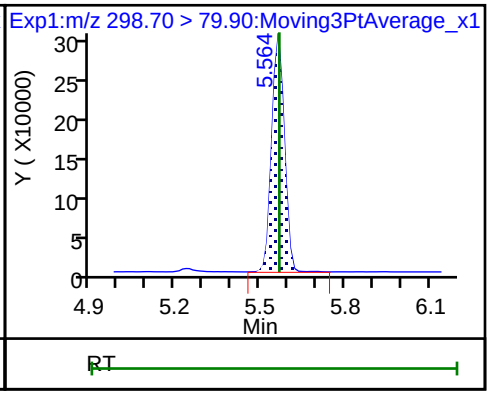
22 5:3 FTCA



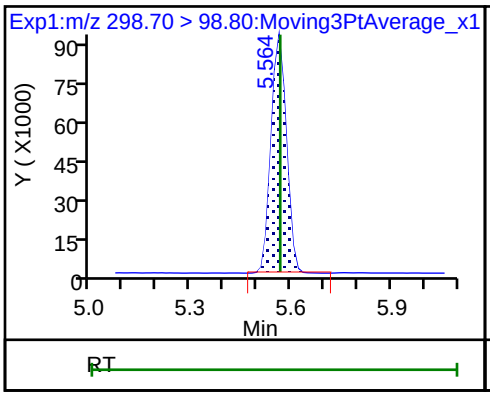
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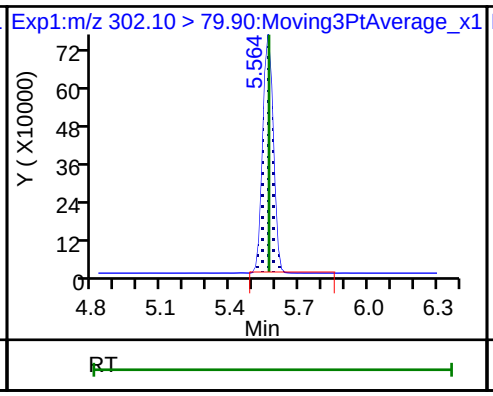
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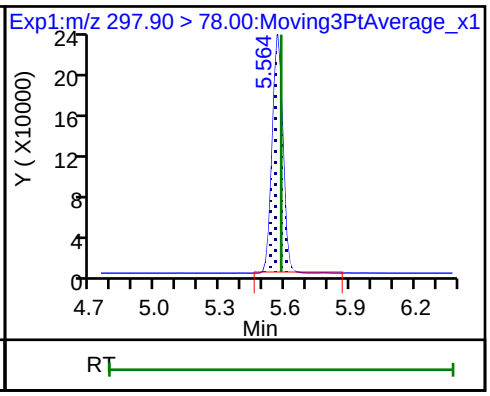
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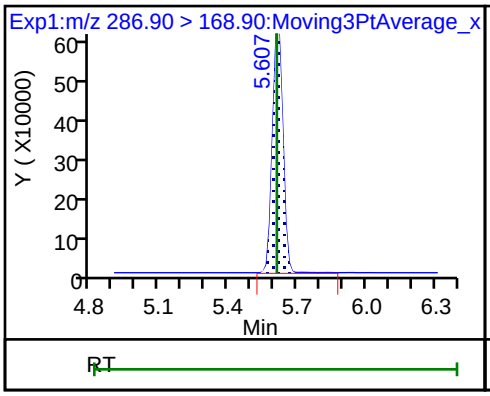
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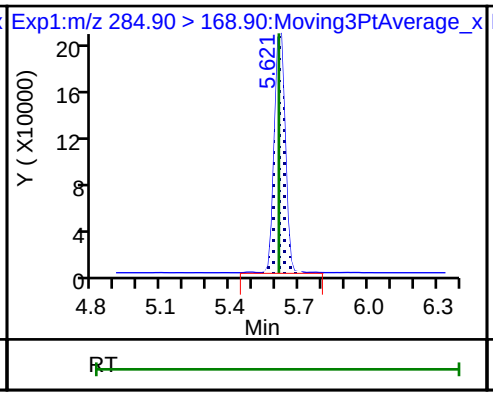
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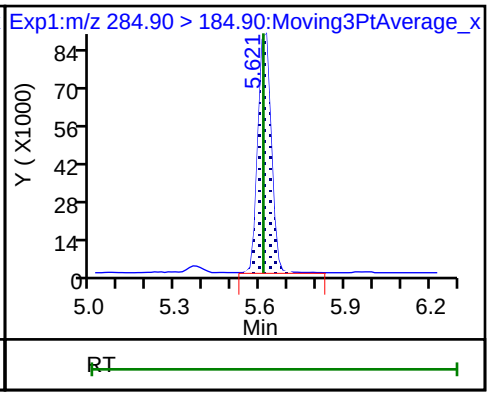
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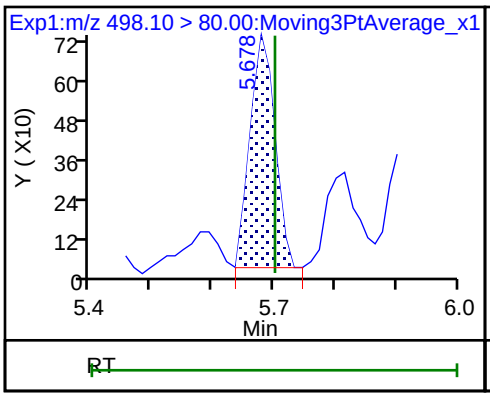
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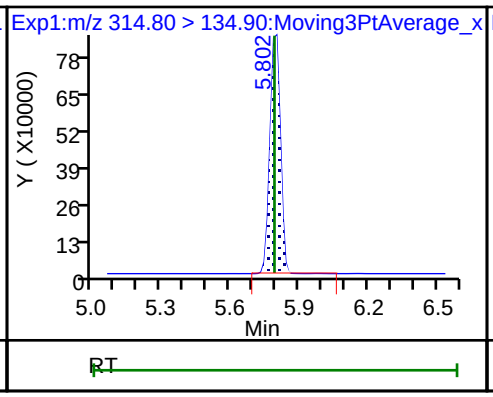
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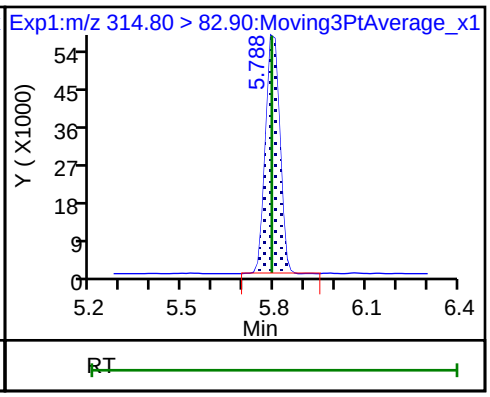
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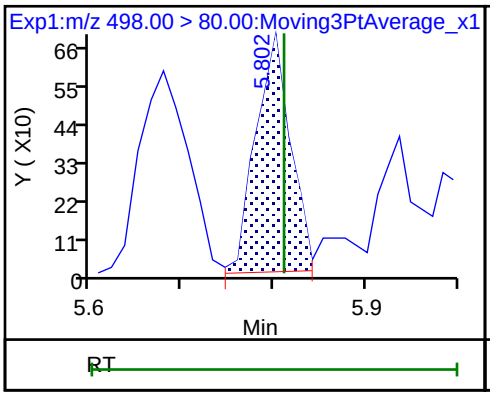
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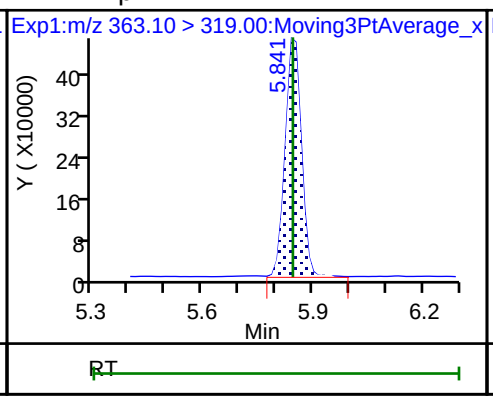
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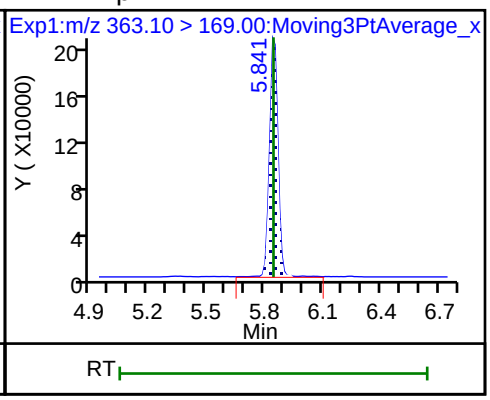
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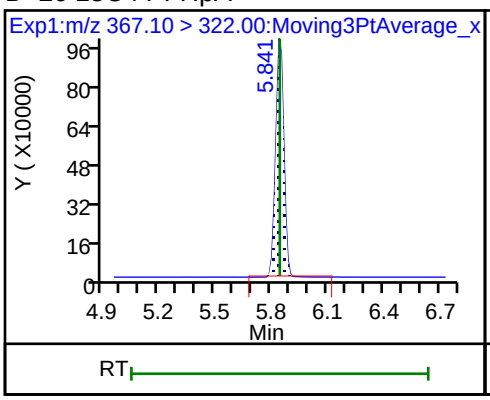
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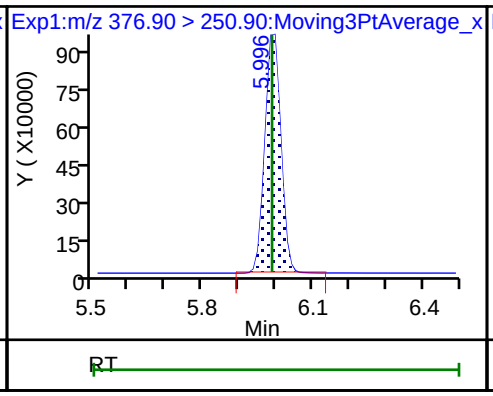
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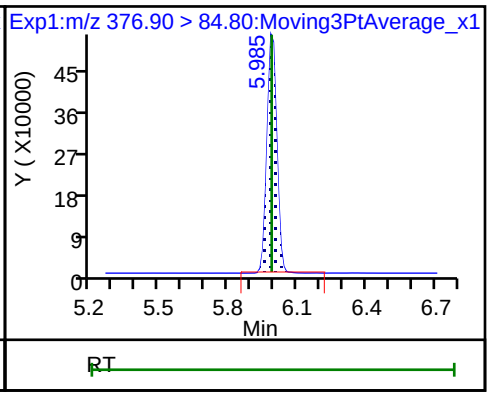
D 26 13C4 PFHpA



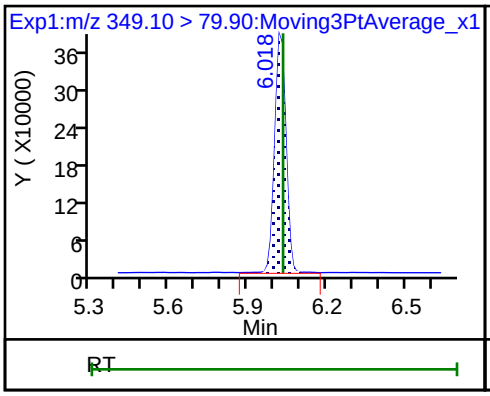
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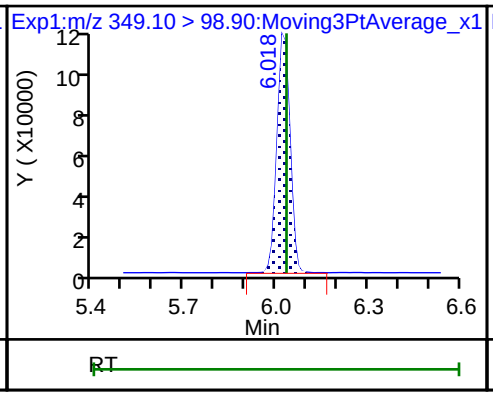
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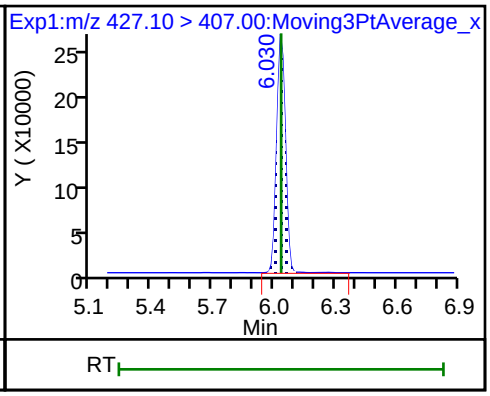
32 PFPeS



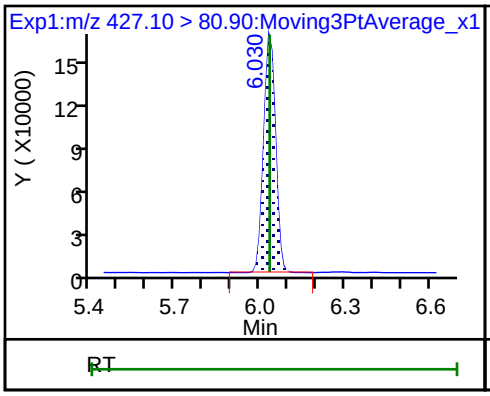
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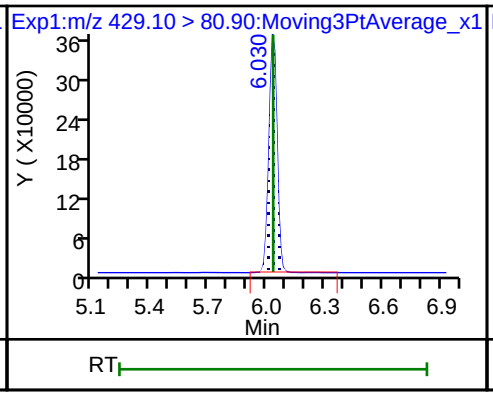
31 6:2FTS



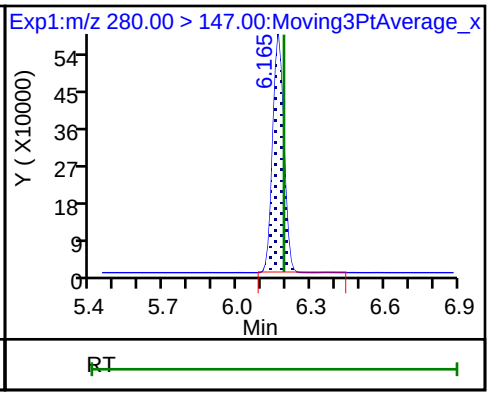
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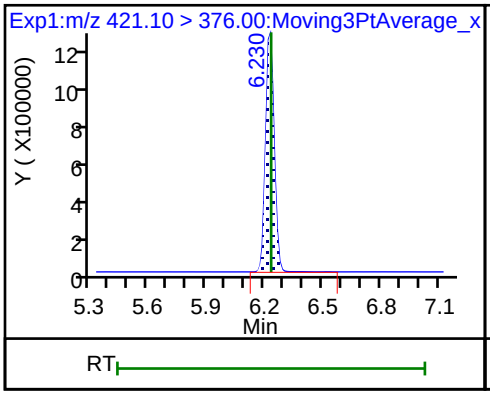
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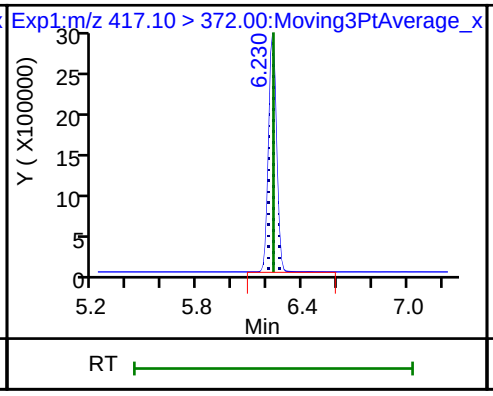
33 BTS



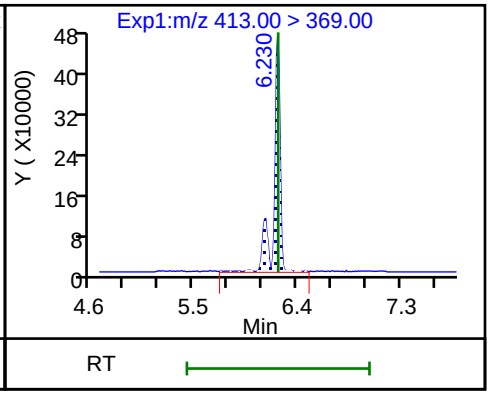
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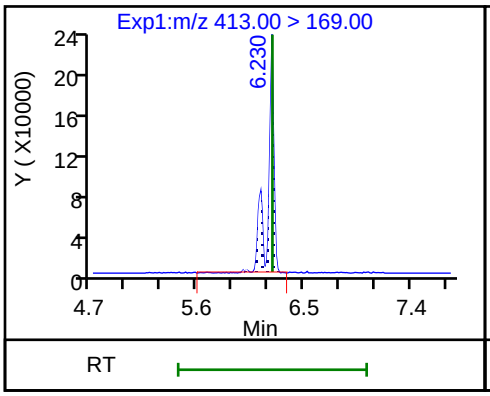
* 34 13C4 PFOA



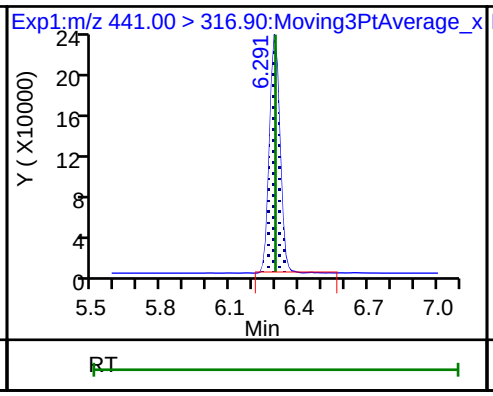
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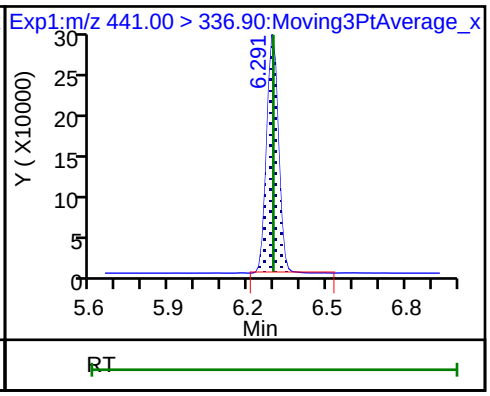
36 PFOA



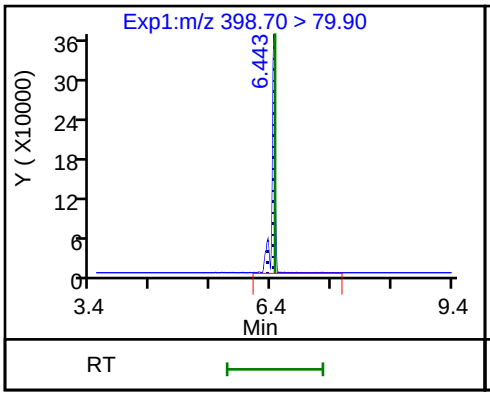
39 7:3 FTCA



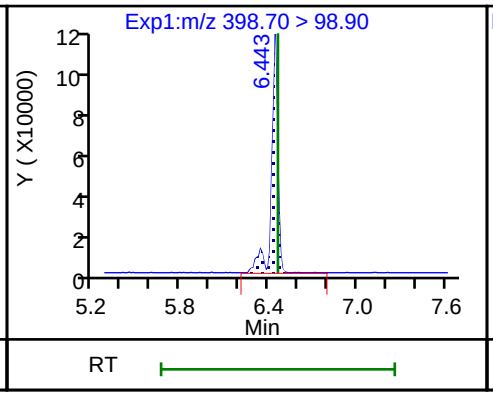
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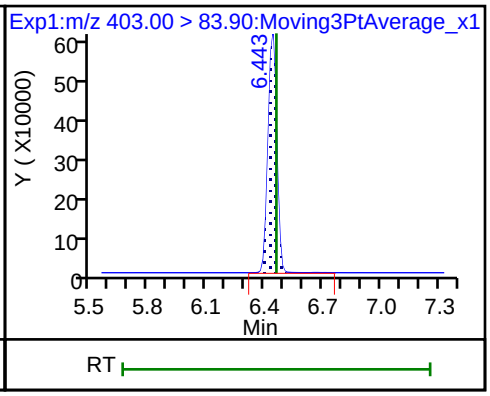
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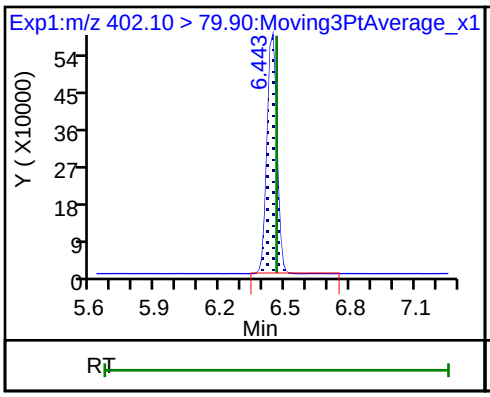
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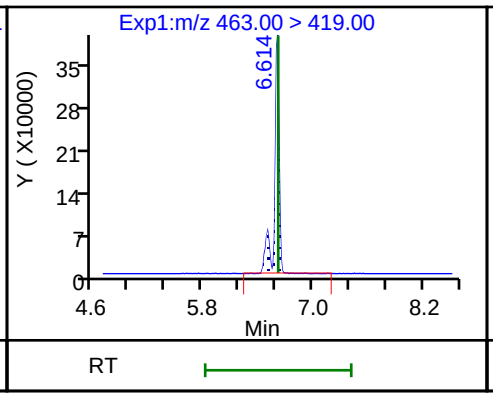
* 38 18O2 PFHxS



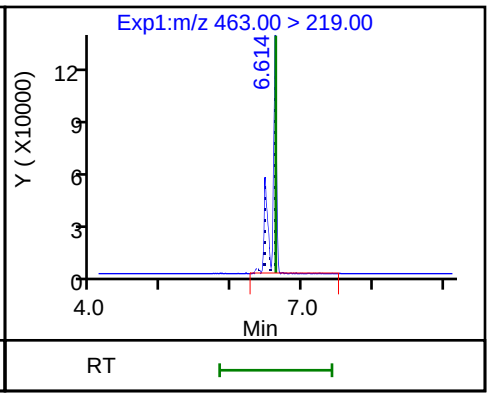
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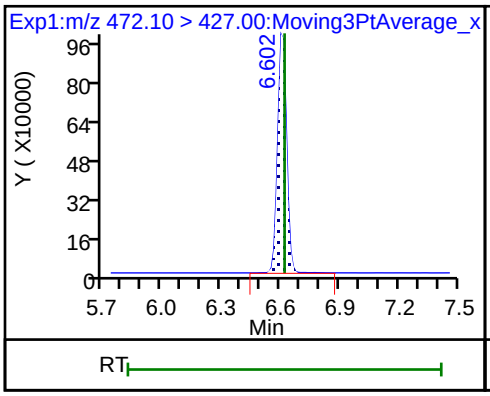
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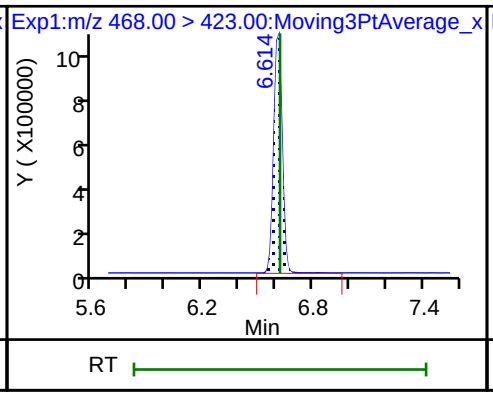
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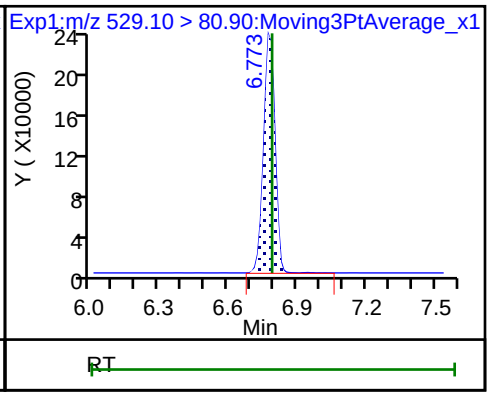
D 42 13C9 PFNA



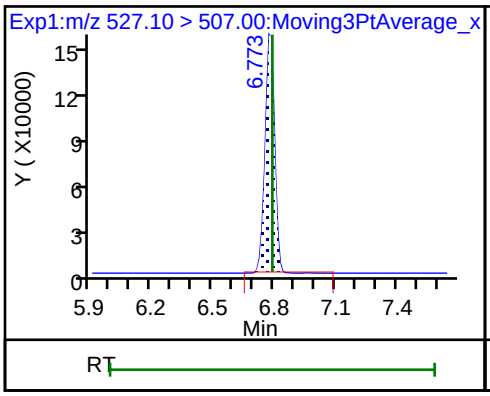
* 41 13C5 PFNA



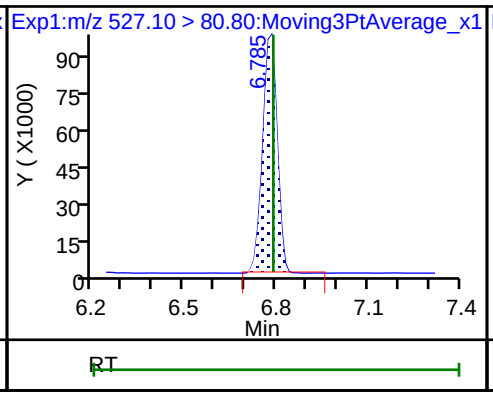
D 44 13C2-8:2FTS



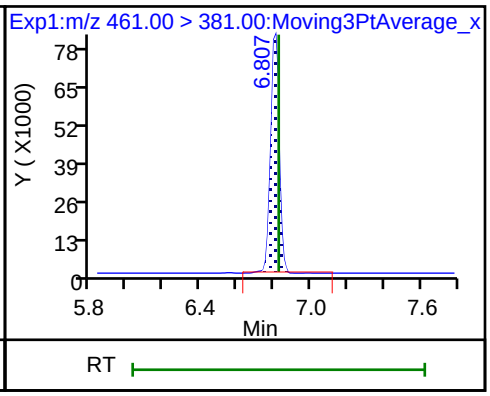
45 8:2FTS



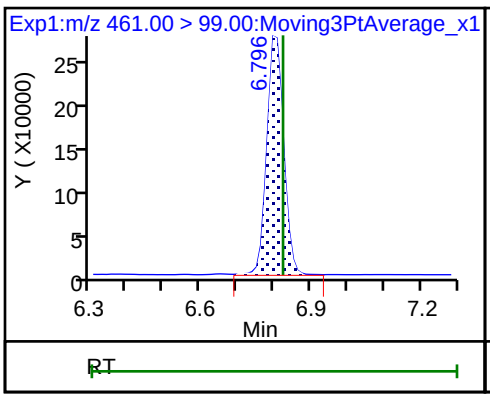
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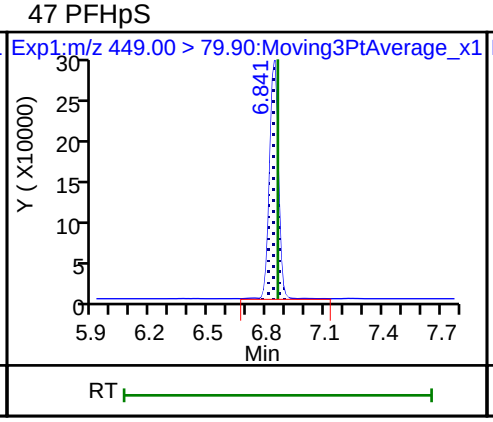
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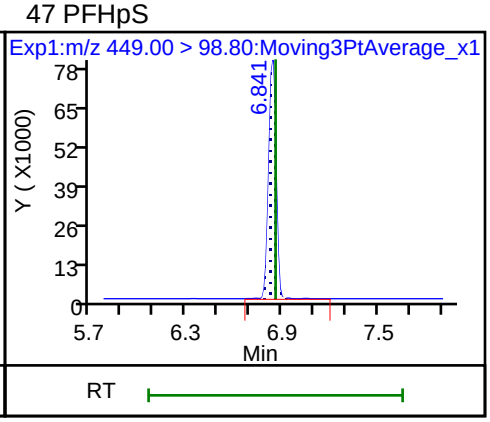
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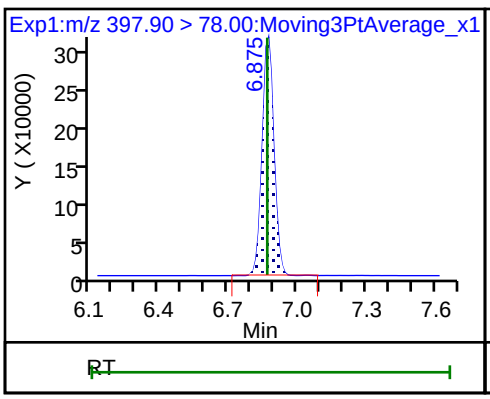
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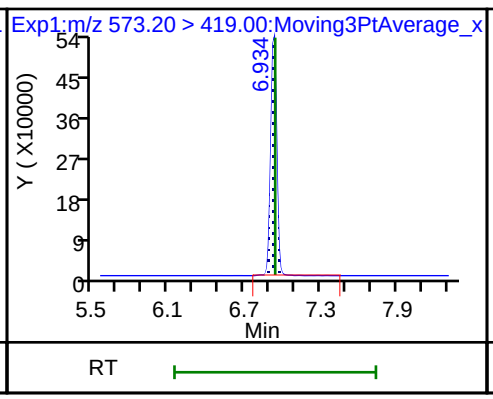
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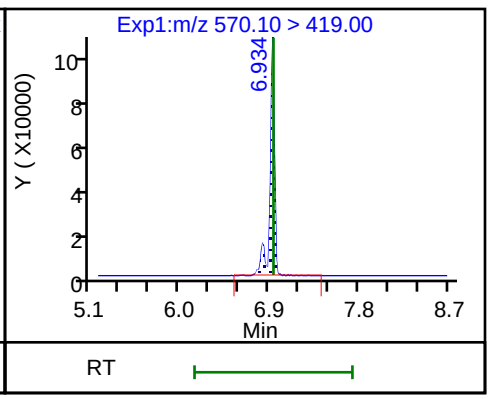
53 FHxSA



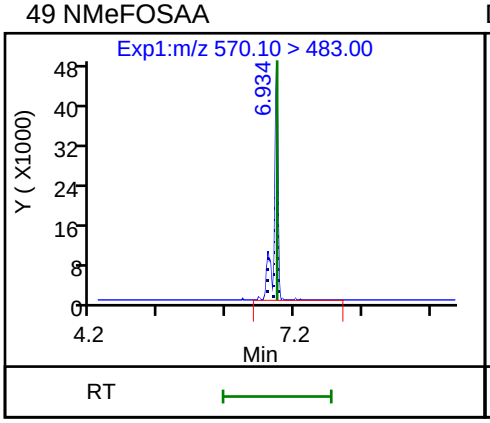
D 48 d3-NMeFOSAA



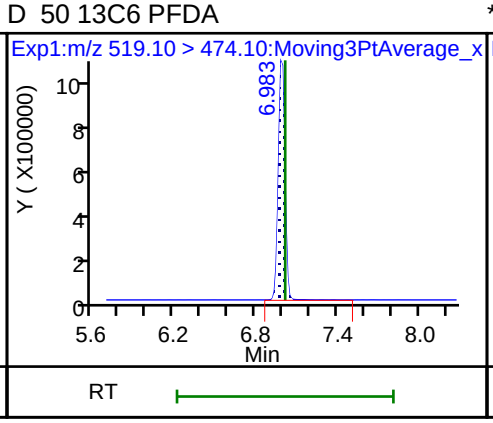
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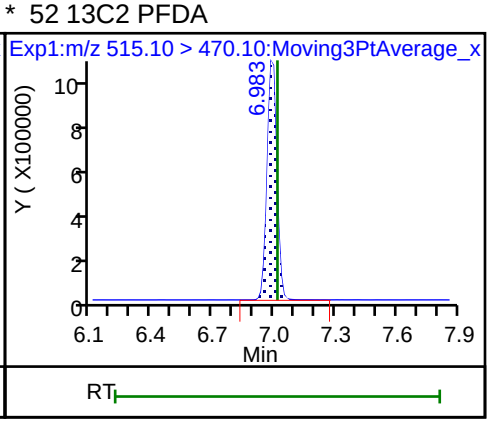
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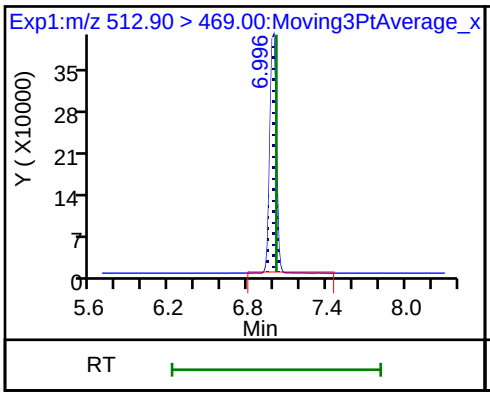
D 50 13C6 PFDA



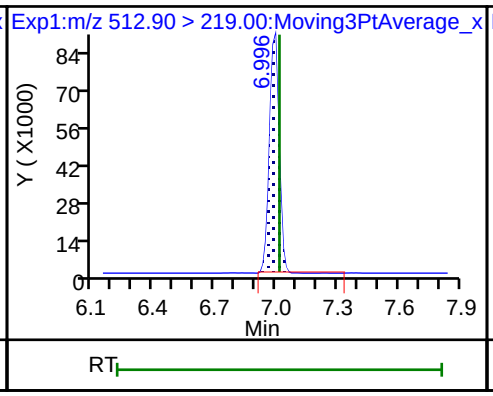
* 52 13C2 PFDA



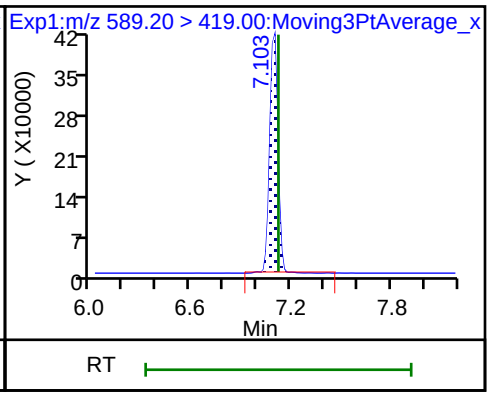
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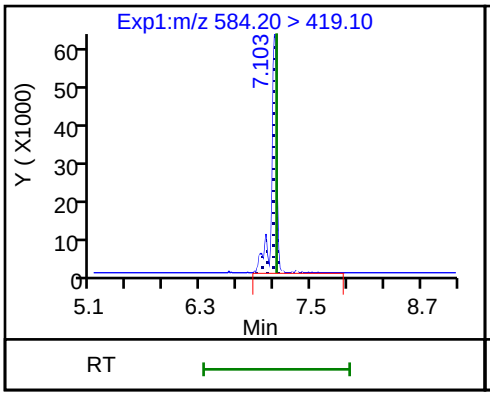
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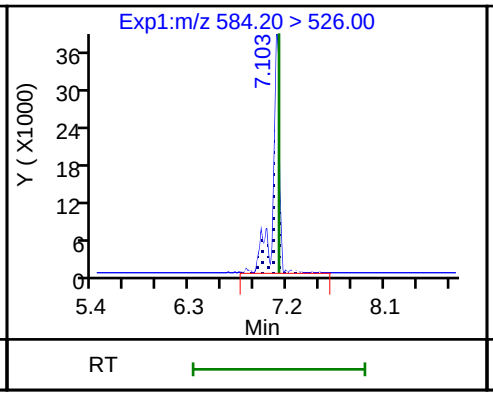
D 54 d5-NEtFOSAA



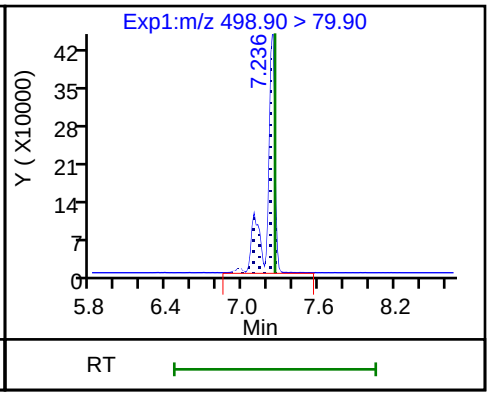
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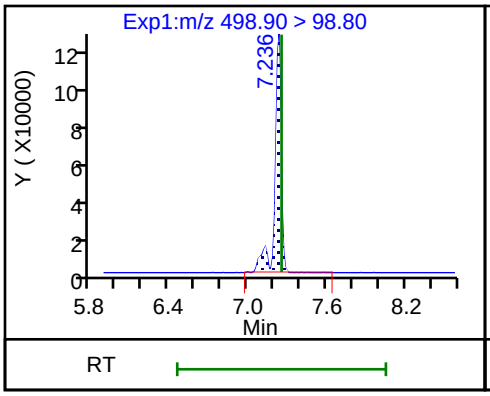
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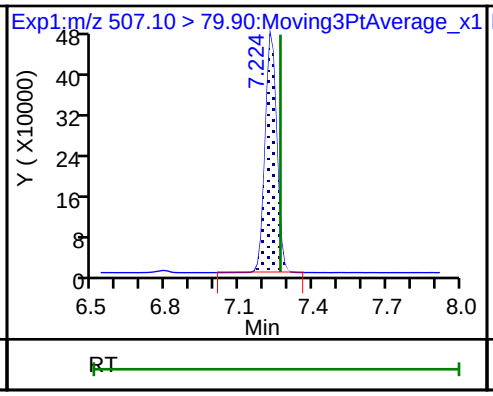
58 PFOS



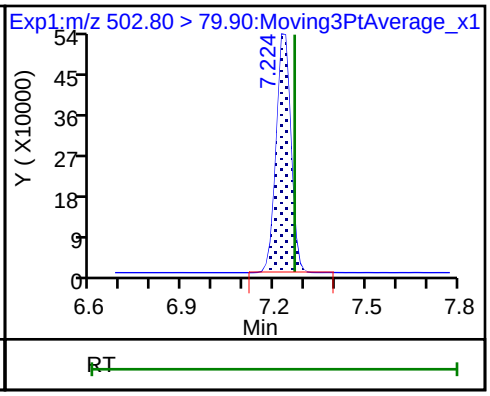
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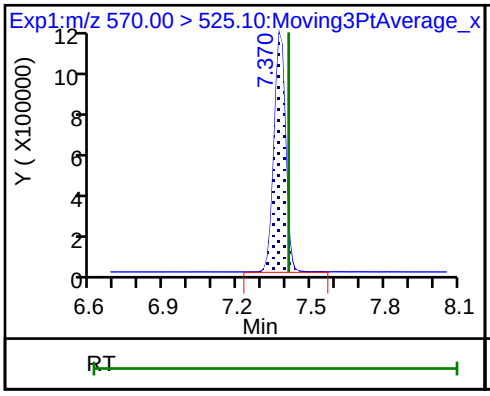
D 56 13C8 PFOS



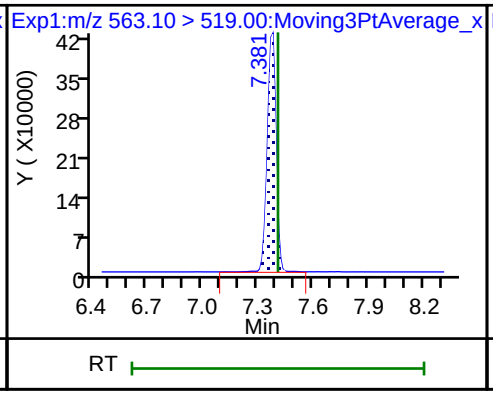
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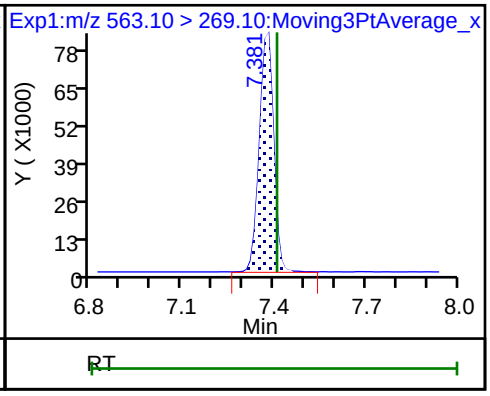
D 59 13C7 PFUnA



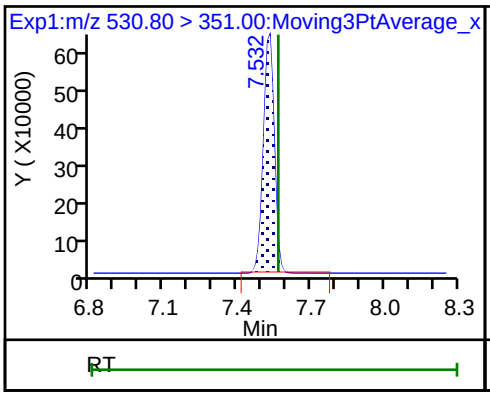
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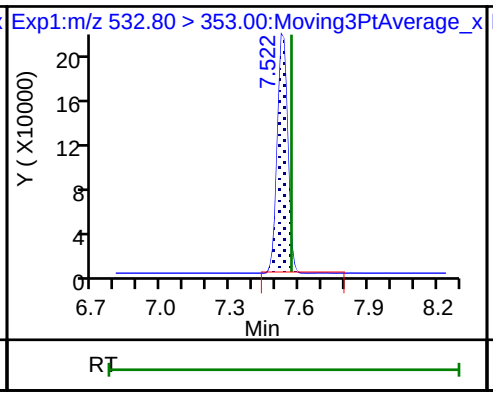
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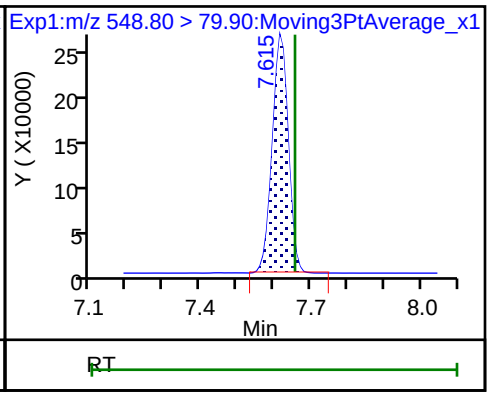
61 9ClFOS



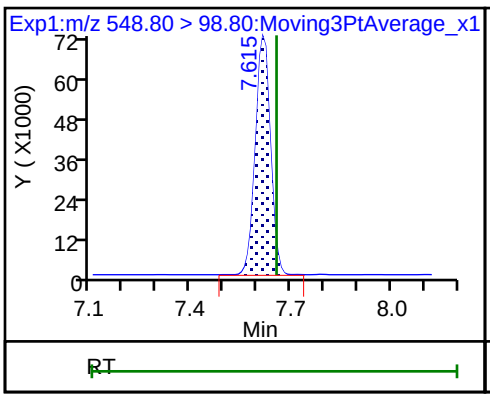
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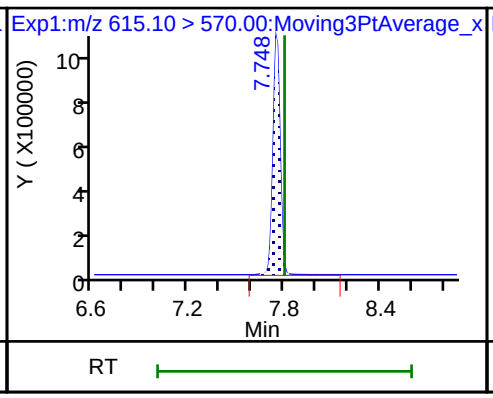
62 PFNS



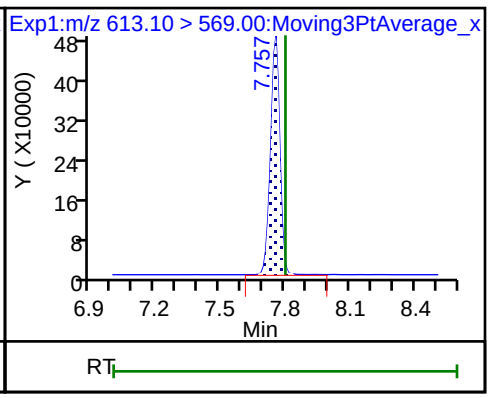
62 PFNS



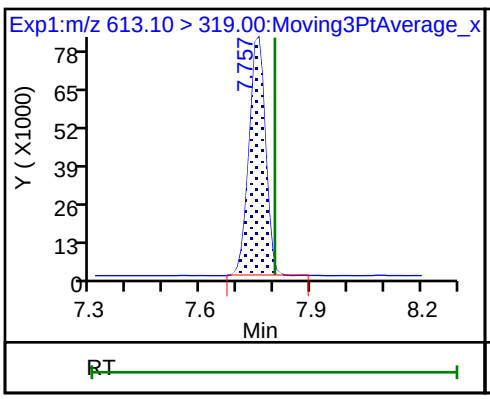
D 81 PFDoA



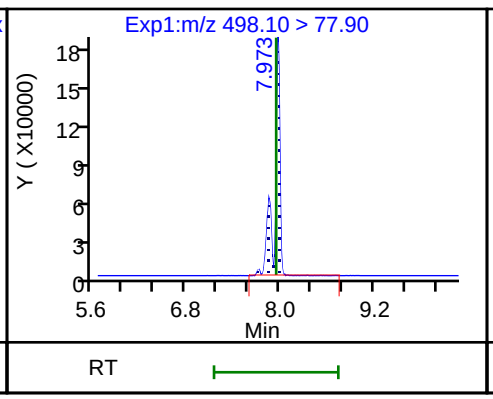
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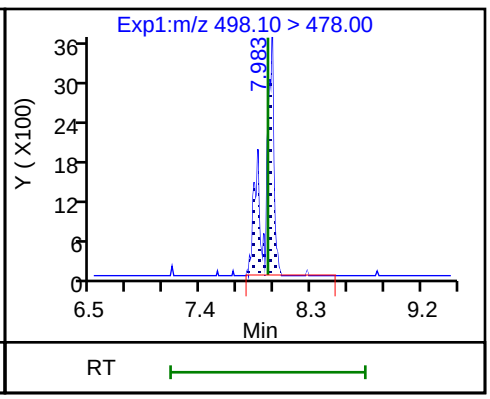
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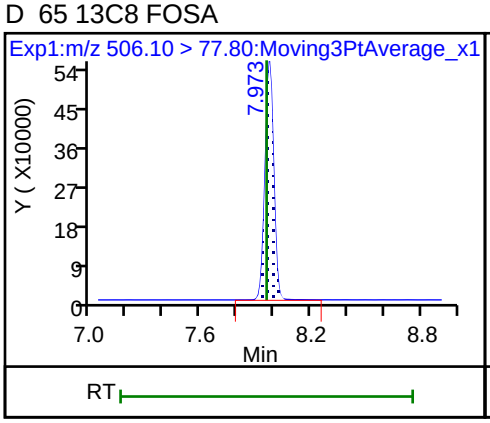
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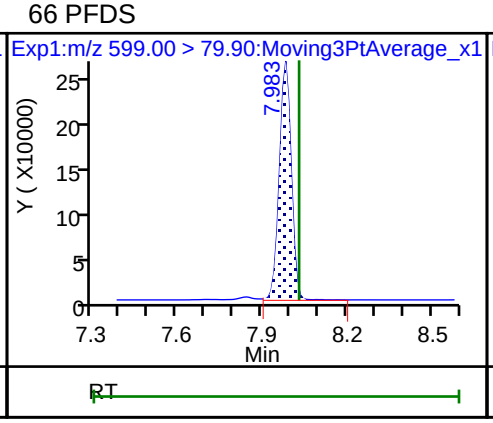
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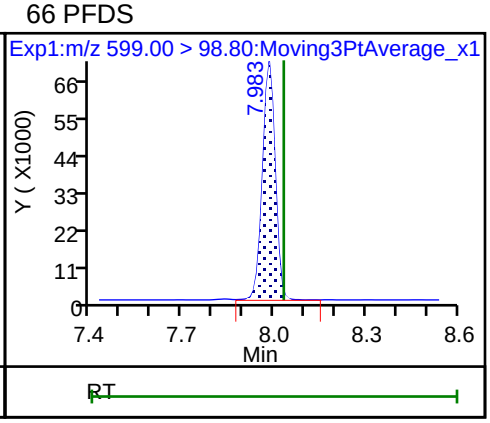
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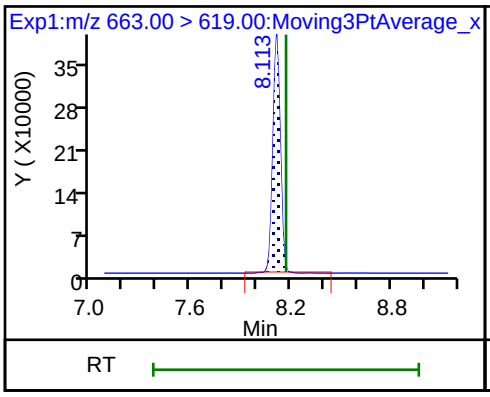
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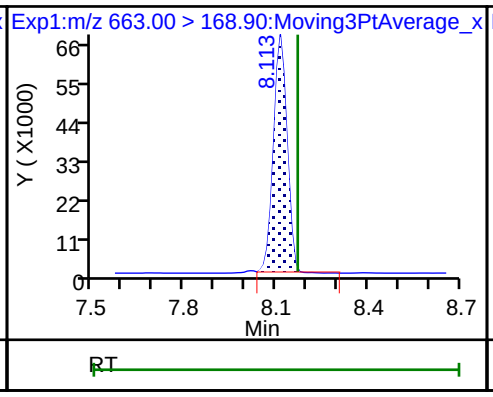
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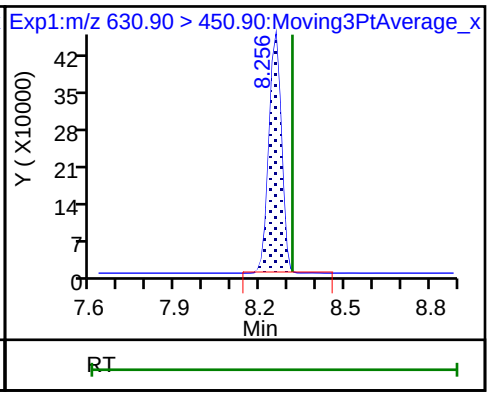
67 PFTrDA



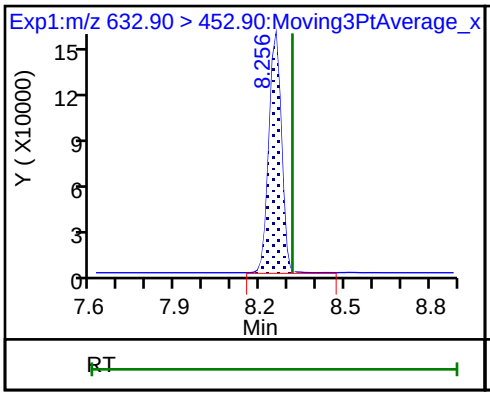
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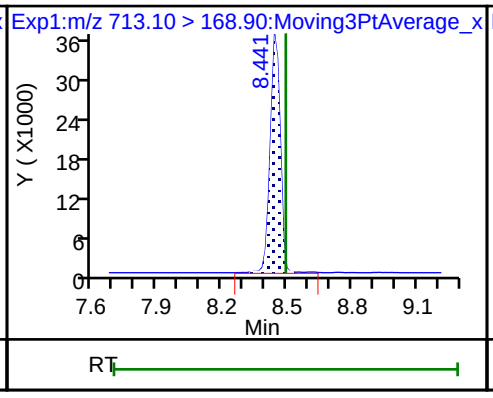
68 11ClFOS



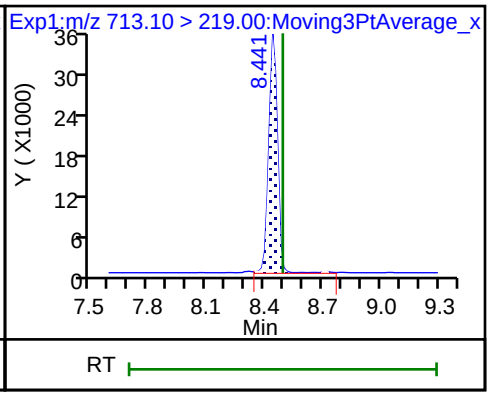
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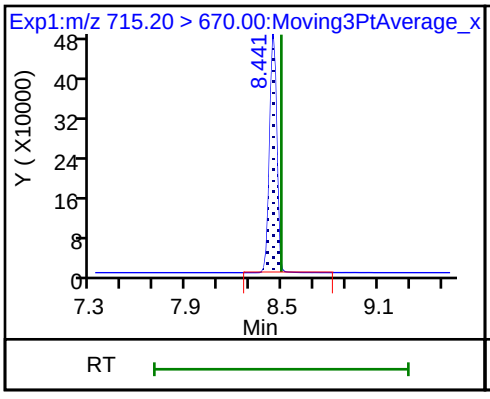
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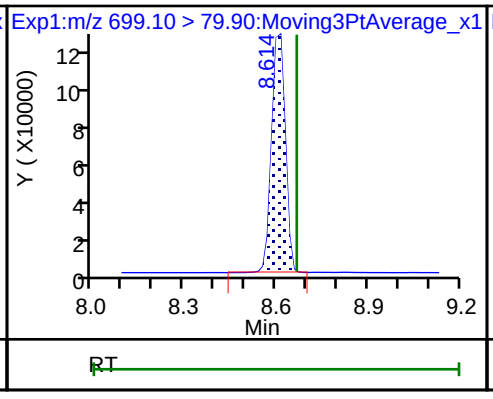
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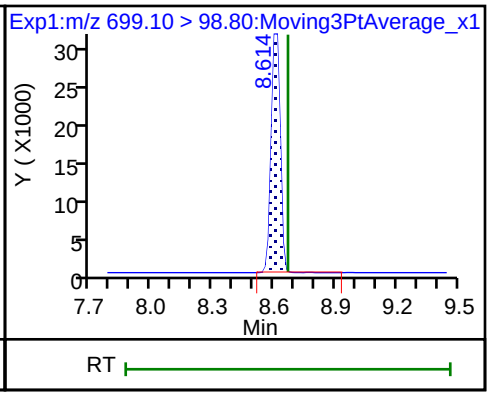
D 69 13C2 PFTeDA



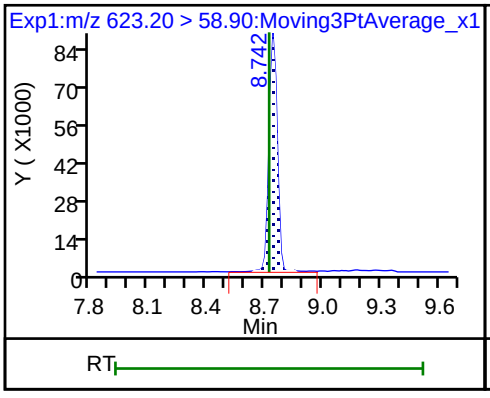
73 PFDoS



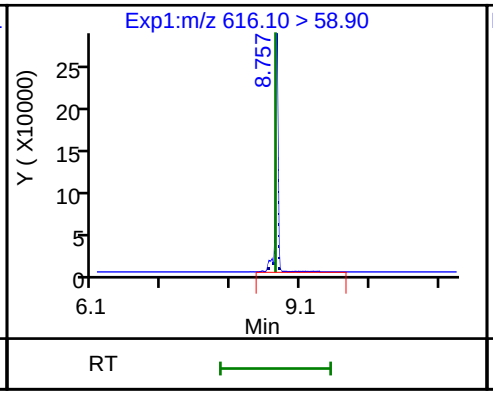
73 PFDoS



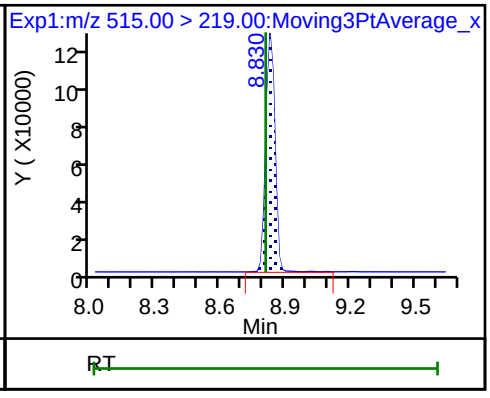
D 71 d7-N-Me-FOSE



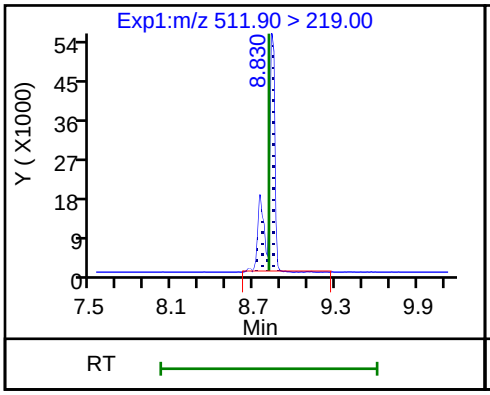
72 N-MeFOSE-M



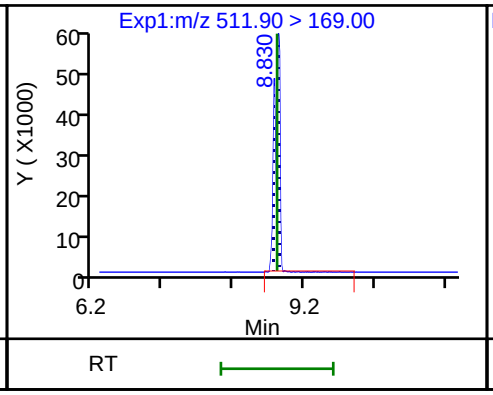
D 74 d3-NMePFOSA



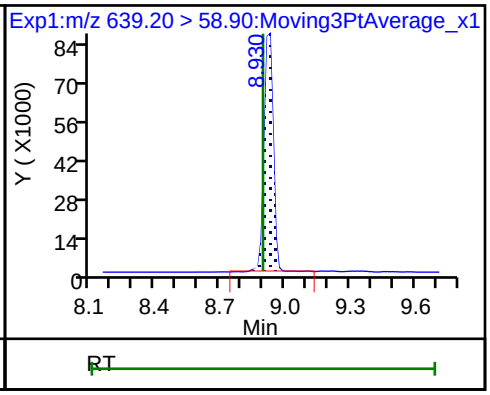
75 NMeFOSA



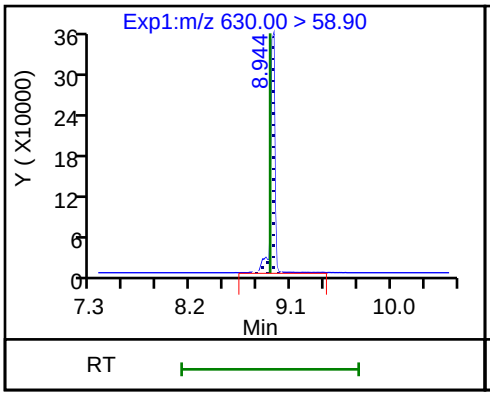
75 NMeFOSA



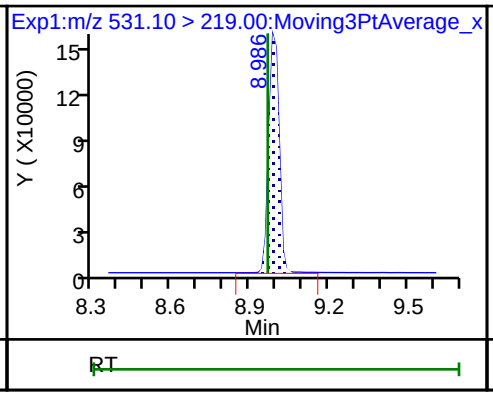
D 76 d9-N-EtFOSE



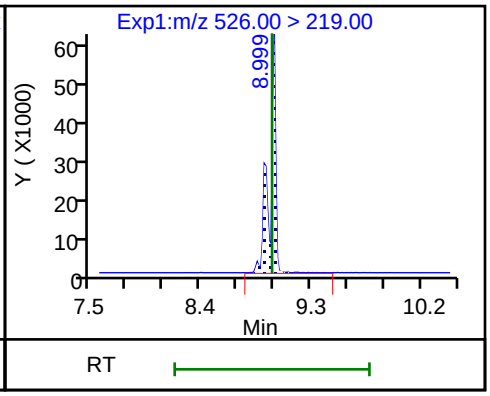
77 N-EtFOSE-M



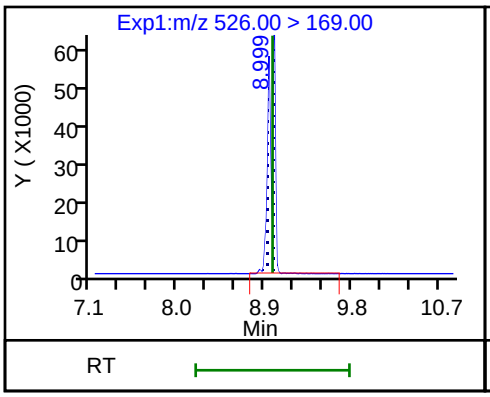
D 78 d5-NEtPFOSA



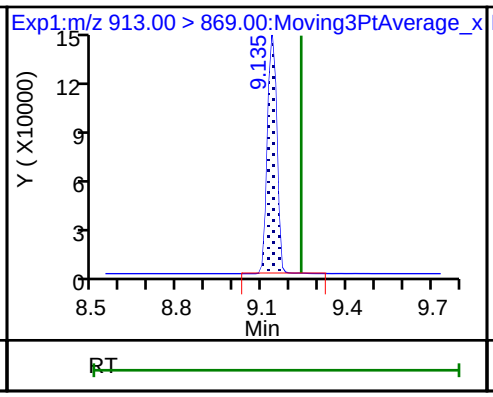
79 N-EtFOSA-M



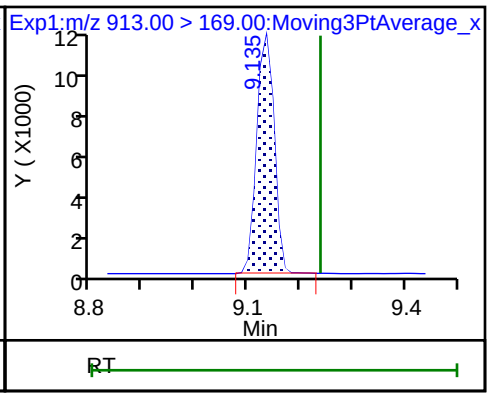
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: 460-344049-A-5-C MSD

Matrix: Solid
Lab File ID: 26Feb04SD-62.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.51(g)
Date Analyzed: 02/04/2026 20:26

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 16.5 % Solids: 83.5
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.443		0.38	0.095
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.265		0.19	0.095
307-24-4	Perfluorohexanoic acid (PFHxA)	2.125		0.19	0.095
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.156		0.19	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	3.004		0.19	0.057
375-95-1	Perfluorononanoic acid (PFNA)	2.372		0.19	0.095
335-76-2	Perfluorodecanoic acid (PFDA)	2.306		0.19	0.057
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.340		0.19	0.095
307-55-1	Perfluorododecanoic acid (PFDoA)	2.358		0.19	0.095
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	2.031		0.19	0.095
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	2.119		0.19	0.095
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.842		0.19	0.095
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	2.073		0.19	0.095
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.054		0.19	0.095
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.343		0.19	0.095
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	4.908		0.19	0.095
68259-12-1	Perfluorononanesulfonic acid (PFNS)	2.175		0.19	0.095
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.053		0.19	0.095
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.906		0.19	0.095
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.456		0.38	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.008		0.38	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.372		0.38	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.133		0.19	0.095
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	2.222		0.19	0.095
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.150		0.19	0.095

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: 460-344049-A-5-C MSD

Matrix: Solid
Lab File ID: 26Feb04SD-62.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.51(g)
Date Analyzed: 02/04/2026 20:26

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 16.5 % Solids: 83.5
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.036		0.19	0.095
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.220		0.19	0.095
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	11.31		0.95	0.48
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	10.24		0.95	0.48
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.631		0.19	0.095
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.193		0.19	0.095
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	2.382		0.19	0.095
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	2.067		0.19	0.095
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.264		0.19	0.095
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	2.148		0.19	0.095
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	2.052		0.19	0.095
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.834		0.19	0.095
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.248		0.38	0.19
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	9.874		0.95	0.48
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	11.47		0.95	0.48

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-344047-1

SDG No.:

Client Sample ID:
Lab Sample ID: 460-344049-A-5-C MSD

Matrix: Solid
Lab File ID: 26Feb04SD-62.d

Analysis Method: 1633A
Date Collected:

Extraction Method: 1633A
Date Extracted: 02/03/2026 13:57

Sample wt/vol: 2.51(g)
Date Analyzed: 02/04/2026 20:26

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 7(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: 16.5 % Solids: 83.5
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 764500
Units: ug/Kg

Preparation Batch No.: 764041
Instrument ID: 30575

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
1017281-29-6	13C4 PFBA	95.7		8-130
2283397-79-3	13C5 PFPeA	97.3		35-130
2328024-54-8	13C5 PFHxA	101		40-130
2328024-55-9	13C4 PFHpA	106		40-130
1350614-84-4	13C8 PFOA	103		40-130
2283397-80-6	13C9 PFNA	104		40-130
2328024-56-0	13C6 PFDA	103		40-130
STL02580	13C7 PFUnA	99.7		40-130
STL02116	13C2 PFTeDA	82.2		20-130
2708218-83-9	13C3 PFBS	90.2		40-135
2708218-85-1	13C3 PFHxS	97.4		40-130
2265893-05-6	13C8 PFOS	95.0		40-130
STL01056	13C8 FOSA	98.3		40-130
1400690-70-1	d3-NMeFOSAA	119		40-135
1265205-97-7	d5-NEtFOSAA	115		40-150
STL02395	13C2 4:2 FTS	158		40-165
STL02279	13C2 6:2 FTS	177		40-215
STL02280	13C2 8:2 FTS	142		40-275
STL02255	13C3 HFPO-DA	96.9		40-130
STL02277	d7-N-MeFOSE-M	61.7		20-130
STL02278	d9-N-EtFOSE-M	57.6		15-130
STL02704	d5-NEtPFOSA	86.5		10-130
STL02705	d3-NMePFOSA	84.0		10-130
960315-52-0	13C2 PFDoA	93.1		40-130

Report Date: 04-Feb-2026 21:23:37 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-62.d
Lims ID: 460-344049-A-5-C MSD
Client ID: EP-17_6_20260129
Sample Type: MSD
Inject. Date: 04-Feb-2026 20:26:41 ALS Bottle#: 45 Worklist Smp#: 151
Injection Vol: 7.0 ul Dil. Factor: 1.0000
Sample Info: 460-344049-A-5-C MSD
Misc. Info.: Plate: 1 Rack: 1 410-0174617-151
Operator ID: ETUS023_USR_INS00007 Instrument ID: 30575

Method: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\30575-1633-125ml.m
Limit Group: LC - 1633 LVI- ICAL
Last Update: 04-Feb-2026 19:23:15 Calib Date: 02-Feb-2026 16:40:11
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30575\20260202-174372.b\26Feb02CAL-60.d

Column 1 : Det: EXP1
Process Host: CTX1668

First Level Reviewer: LDU5 Date: 04-Feb-2026 20:47:53
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 Perfluoropropionic acid										
163.00 > 119.00	2.065	2.098	-0.033	1.000	3405324	4.85		97.0	1131	
D 2 13C3PFPrA										
166.00 > 121.00	2.065	2.114	-0.049	0.474	1512195	1.68		84.1	404	
5 PFBA										
212.80 > 168.90	4.348	4.330	0.018	0.998	2508315	1.86		93.2	3943	
D 6 13C4-PFBA										
216.80 > 171.90	4.357	4.338	0.019	1.000	2867839	1.91		95.7	8208	
* 7 13C3PFBA										
216.00 > 172.00	4.357	4.338	0.019		2481560	2.00			3241	
9 PFMPA										
229.00 > 84.90	4.649	4.627	0.022	0.935	1113635	1.00		99.9	2511	
10 3:3 FTCA										
241.00 > 177.00	4.659	4.637	0.022	0.937	95772	1.78	Target=1.28	89.1	1051	
241.00 > 117.00	4.659	4.637	0.022	0.937	83684		1.14(0.64-1.92)		1095	
D 11 13C5 PFPeA										
268.30 > 223.00	4.970	4.955	0.015	0.914	2084176	1.95		97.3	3284	
12 PFPA										
263.00 > 219.00	4.984	4.968	0.016	1.003	1127789	0.9499		95.0	227	
13 PFMBA										
279.00 > 85.10	5.128	5.112	0.016	1.032	1164703	0.8669		86.7	3367	
15 4:2FTS										
327.10 > 307.00	5.255	5.240	0.015	1.000	1349526	1.87	Target=1.67	99.6	1042	
327.10 > 80.90	5.255	5.240	0.015	1.000	765992		1.76(0.83-2.50)		228	
D 14 13C2-4:2FTS										
329.10 > 80.90	5.255	5.240	0.015	0.816	1952719	7.40		158	603	
3 TUDCA										
498.20 > 80.00	5.688	5.267	0.421	0.787	3915	NR		0.0	7.8	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 NFDHA										
295.00 > 201.00	5.395	5.378	0.017	0.992	566496	0.9495	Target=1.57	95.0	2916	
295.00 > 84.90	5.395	5.378	0.017	0.992	402597		1.41(0.78-2.35)		1286	
D 17 13C5 PFHxA										
318.00 > 273.00	5.437	5.418	0.019	1.000	3038010	2.01		101	9373	
* 18 13C2 PFHxA										
315.10 > 270.00	5.437	5.432	0.005		6530909	5.00			8719	
19 PFHxA										
313.00 > 269.00	5.437	5.432	0.005	1.000	1300271	0.8914	Target=12.08	89.1	282	
313.00 > 118.90	5.437	5.432	0.005	1.000	108979		11.93(6.04-18.11)		198	
22 5:3 FTCA										
341.00 > 237.10	5.506	5.500	0.006	1.013	770397	4.14	Target=0.89	82.8	2062	
341.00 > 217.00	5.506	5.500	0.006	1.013	842878		0.91(0.45-1.34)		3705	
21 PFBS										
298.70 > 79.90	5.560	5.568	-0.008	1.000	838347	0.7725	Target=3.03	87.0	452	
298.70 > 98.80	5.560	5.568	-0.008	1.000	295644		2.84(1.52-4.55)		1123	
D 20 13C3 PFBS										
302.10 > 79.90	5.560	5.568	-0.008	0.863	2233907	1.68		90.2	3521	
28 FBSA										
297.90 > 78.00	5.560	5.582	-0.022	1.000	801918	0.8406		84.1	1414	
D 23 13C3 HFPO-DA										
286.90 > 168.90	5.617	5.611	0.006	1.033	2001549	1.94		96.9	4038	
24 HFPO-DA										
284.90 > 168.90	5.617	5.611	0.006	1.000	656343	0.6840	Target=2.32	91.2	1530	
284.90 > 184.90	5.617	5.611	0.006	1.000	285702		2.30(1.16-3.48)		208	
4 TCDCA										
498.10 > 80.00	5.688	5.701	-0.013	0.787	3497	NR		0.0	2.1	
25 PFEESA										
314.80 > 134.90	5.797	5.791	0.006	1.066	2447017	0.7691	Target=13.29	86.2	4639	
314.80 > 82.90	5.797	5.791	0.006	1.066	197396		12.40(6.64-19.93)		600	
8 TDCA										
498.00 > 80.00	5.811	5.811	0.0	0.804	2951	NR		0.0	3.5	
27 PFHpA										
363.10 > 319.00	5.849	5.845	0.004	1.000	1393128	0.9044	Target=2.38	90.4	315	
363.10 > 169.00	5.849	5.845	0.004	1.000	562133		2.48(1.19-3.58)		432	
D 26 13C4 PFHpA										
367.10 > 322.00	5.849	5.845	0.004	1.076	3142534	2.12		106	8352	
29 ADONA										
376.90 > 250.90	5.992	5.988	0.004	1.067	3010020	0.9199	Target=1.85	97.2	17973	
376.90 > 84.80	5.992	5.988	0.004	1.067	1616441		1.86(0.92-2.77)		3066	
32 PFPeS										
349.10 > 79.90	6.026	6.033	-0.007	0.936	1162856	0.8695	Target=3.35	92.5	753	
349.10 > 98.90	6.026	6.033	-0.007	0.936	324364		3.59(1.68-5.03)		1176	
31 6:2FTS										
427.10 > 407.00	6.037	6.033	0.004	1.000	972549	1.68	Target=1.88	88.3	3747	
427.10 > 80.90	6.037	6.033	0.004	1.000	545813		1.78(0.94-2.83)		1512	
D 30 13C2-6:2FTS										
429.10 > 80.90	6.037	6.033	0.004	0.937	1322158	8.44		177	2830	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 BTS										
280.00 > 147.00	6.162	6.189	-0.027	0.957	1924923	0.8783		88.2	8465	
D 35 13C8 PFOA										
421.10 > 376.00	6.227	6.233	-0.006	1.000	3871908	2.06		103	7415	
* 34 13C4 PFOA										
417.10 > 372.00	6.227	6.233	-0.006		9394300	5.00			9064	
36 PFOA										
413.00 > 369.00	6.227	6.233	-0.006	1.000	1849533	1.26	Target=2.16	126	33050	
413.00 > 169.00	6.227	6.233	-0.006	1.000	813660		2.27(1.08-3.25)		22629	
39 7:3 FTCA										
441.00 > 316.90	6.288	6.296	-0.008	1.157	813563	4.81	Target=0.79	96.2	1335	
441.00 > 336.90	6.288	6.296	-0.008	1.157	961755		0.85(0.39-1.18)		1809	
40 PFHxS										
398.70 > 79.90	6.441	6.460	-0.019	1.000	1122636	0.8613	Target=3.45	94.4	313289	
398.70 > 98.90	6.441	6.460	-0.019	1.000	341188		3.29(1.73-5.18)		690	
* 38 18O2 PFHxS										
403.00 > 83.90	6.441	6.460	-0.019		1977907	1.90			8228	
D 37 13C3 PFHxS										
402.10 > 79.90	6.441	6.460	-0.019	1.000	1929502	1.85		97.4	4424	
* 41 13C5 PFNA										
468.00 > 423.00	6.613	6.620	-0.007		3143702	2.00			5323	
43 PFNA										
463.00 > 419.00	6.600	6.620	-0.020	1.000	1430125	0.99	Target=2.87	99.5	74168	
463.00 > 219.00	6.600	6.620	-0.020	1.000	467955		3.06(1.44-4.31)		109585	
D 42 13C9 PFNA										
472.10 > 427.00	6.600	6.620	-0.020	0.998	3279338	2.08		104	7721	
D 44 13C2-8:2FTS										
529.10 > 80.90	6.772	6.790	-0.018	1.051	1037972	6.81		142	3437	
45 8:2FTS										
527.10 > 507.00	6.772	6.790	-0.018	1.000	650914	1.83	Target=1.57	95.5	4020	
527.10 > 80.80	6.772	6.790	-0.018	1.000	400445		1.63(0.79-2.36)		1758	
46 PFECHS										
461.00 > 381.00	6.795	6.824	-0.029	1.055	256242	0.7569	Target=0.30	81.9	1459	
461.00 > 99.00	6.806	6.824	-0.018	1.057	882716		0.29(0.15-0.45)		1460	
47 PFHpS										
449.00 > 79.90	6.840	6.857	-0.017	0.947	923223	0.9825	Target=3.53	103	1015	
449.00 > 98.80	6.840	6.857	-0.017	0.947	259158		3.56(1.76-5.29)		1408	
53 FHxSA										
397.90 > 78.00	6.873	6.869	0.004	1.067	1124617	0.8066		80.7	4040	
D 48 d3-NMeFOSAA										
573.20 > 419.00	6.920	6.940	-0.020	0.958	1957310	5.94		119	3846	
49 NMeFOSAA										
570.10 > 419.00	6.933	6.940	-0.007	1.002	373602	0.8539	Target=1.75	85.4	348	
570.10 > 483.00	6.933	6.940	-0.007	1.002	210549		1.77(0.87-2.62)		417	
D 50 13C6 PFDA										
519.10 > 474.10	6.982	7.015	-0.033	1.000	3576619	2.06		103	7230	
* 52 13C2 PFDA										
515.10 > 470.10	6.982	7.015	-0.033		3899412	2.00			11162	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
51 PFDA										
512.90 > 469.00	6.982	7.015	-0.033	1.000	1448728	0.9673	Target=4.54	96.7	3142	
512.90 > 219.00	6.982	7.015	-0.033	1.000	290744		4.98(2.27-6.81)		1113	
D 54 d5-NEtFOSAA										
589.20 > 419.00	7.087	7.124	-0.037	0.981	1675253	5.76		115	2942	
55 NEtFOSAA										
584.20 > 419.10	7.101	7.124	-0.023	1.002	256128	0.9309	Target=1.38	93.1	610	
584.20 > 526.00	7.101	7.124	-0.023	1.002	202125		1.27(0.69-2.07)		350	
58 PFOS										
498.90 > 79.90	7.224	7.255	-0.031	1.000	2310828	2.06	Target=4.26	221	267199	
498.90 > 98.80	7.224	7.255	-0.031	1.000	528334		4.37(2.13-6.40)		1327	
D 56 13C8 PFOS										
507.10 > 79.90	7.224	7.267	-0.043	1.000	1491629	1.82		95.0	1073	
* 57 13C4 PFOS										
502.80 > 79.90	7.224	7.267	-0.043		1695930	1.92			7736	
D 59 13C7 PFUnA										
570.00 > 525.10	7.369	7.409	-0.040	1.056	4155984	1.99		99.7	4497	
60 PFUnA										
563.10 > 519.00	7.369	7.409	-0.040	1.000	1508562	0.9816	Target=5.23	98.2	2844	
563.10 > 269.10	7.369	7.409	-0.040	1.000	279810		5.39(2.62-7.85)		1414	
61 9ClFOS										
530.80 > 351.00	7.522	7.566	-0.044	1.041	1998703	0.9007	Target=3.05	96.4	10110	
532.80 > 353.00	7.522	7.566	-0.044	1.041	655167		3.05(1.53-4.58)		4251	
62 PFNS										
548.80 > 79.90	7.614	7.656	-0.042	1.054	817120	0.9123	Target=3.70	94.8	2287	
548.80 > 98.80	7.614	7.656	-0.042	1.054	219380		3.72(1.85-5.56)		1739	
D 81 PFDoA										
615.10 > 570.00	7.747	7.801	-0.054	1.110	3441030	1.86		93.1	6021	
63 PFDoA										
613.10 > 569.00	7.747	7.801	-0.054		1517853	0.9888	Target=5.66	98.9	3881	
613.10 > 319.00	7.747	7.801	-0.054		244944		6.20(2.83-8.49)		2166	
64 PFOSA										
498.10 > 77.90	7.972	7.947	0.025	1.001	815919	0.8947	Target=43.43	89.5	2088	
498.10 > 478.00	7.962	7.947	0.015	1.000	18801		43.40(21.71-65.14)		22.9	
D 65 13C8 FOSA										
506.10 > 77.80	7.962	7.957	0.005	1.102	1988223	1.97		98.3	5073	
66 PFDS										
599.00 > 79.90	7.972	8.031	-0.059	1.104	784380	0.8611	Target=3.54	89.3	948	
599.00 > 98.80	7.972	8.031	-0.059	1.104	219183		3.58(1.77-5.31)		1919	
67 PFTrDA										
663.00 > 619.00	8.112	8.170	-0.058	0.961	1323877	0.8518	Target=5.76	85.2	4125	
663.00 > 168.90	8.101	8.170	-0.069	0.960	224395		5.90(2.88-8.64)		1997	
68 11ClFOS										
630.90 > 450.90	8.242	8.314	-0.072	1.141	1475819	0.8605	Target=3.06	91.2	9123	
632.90 > 452.90	8.242	8.314	-0.072	1.141	467357		3.16(1.53-4.59)		3863	
70 PFTeDA										
713.10 > 168.90	8.441	8.494	-0.053	1.000	130090	0.8886	Target=1.07	88.9	965	
713.10 > 219.00	8.441	8.494	-0.053	1.000	125458		1.04(0.54-1.61)		1316	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 69 13C2 PFTeDA										
715.20 > 670.00	8.441	8.494	-0.053	1.209	1677851	1.64		82.2	3393	
73 PFDoS										
699.10 > 79.90	8.599	8.667	-0.068	1.190	431500	0.7996	Target=4.17	82.4	4244	
699.10 > 98.80	8.599	8.667	-0.068	1.190	97873		4.41(2.09-6.26)		1143	
D 71 d7-N-Me-FOSE										
623.20 > 58.90	8.742	8.723	0.019	1.210	457024	3.08		61.7	373	
72 N-MeFOSE-M										
616.10 > 58.90	8.756	8.737	0.019	1.002	1164446	4.74		94.8	1154	
D 74 d3-NMePFOSA										
515.00 > 219.00	8.829	8.809	0.020	1.222	386473	1.68		84.0	2739	
75 NMeFOSA										
511.90 > 219.00	8.829	8.809	0.020	1.000	184290	0.9319	Target=0.69	93.2	1179	
511.90 > 169.00	8.829	8.809	0.020	1.000	263278		0.70(0.34-1.03)		1200	
D 76 d9-N-EtFOSE										
639.20 > 58.90	8.916	8.897	0.019	1.234	434700	2.88		57.6	801	
77 N-EtFOSE-M										
630.00 > 58.90	8.930	8.911	0.019	1.002	1475982	4.30		85.9	2252	
D 78 d5-NEtPFOSA										
531.10 > 219.00	8.985	8.967	0.018	1.244	485467	1.73		86.5	3265	
79 N-EtFOSA-M										
526.00 > 219.00	8.985	8.981	0.004	1.000	206223	0.9018	Target=0.78	90.2	1841	
526.00 > 169.00	8.985	8.981	0.004	1.000	264349		0.78(0.39-1.17)		1865	
80 Perfluorooctadecanoic acid										
913.00 > 869.00	9.134	9.238	-0.104	1.082	557305	0.7001	Target=11.85	70.0	20269	
913.00 > 169.00	9.134	9.238	-0.104	1.082	43197		12.90(5.92-17.77)		1684	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1633_125_IS_V_00592 Amount Added: 50.00 Units: uL

Report Date: 04-Feb-2026 21:23:37 Chrom Revision: 2.3 29-Jan-2026 10:42:58

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30575\20260204-174617.b\26Feb04SD-62.d

Injection Date: 04-Feb-2026 20:26:41 Instrument ID: 30575

Lims ID: 460-344049-A-5-C MSD

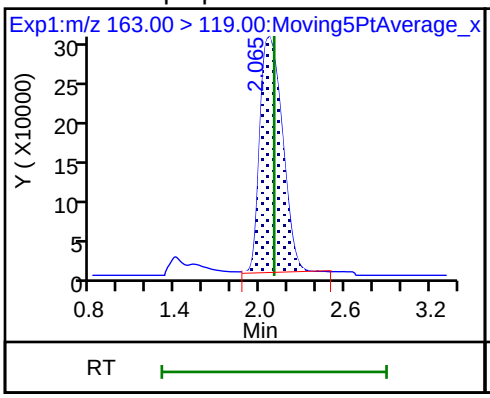
Client ID: EP-17_6_20260129

Operator ID: ETUS023_USR_INS00007 ALS Bottle#: 45 Worklist Smp#: 151

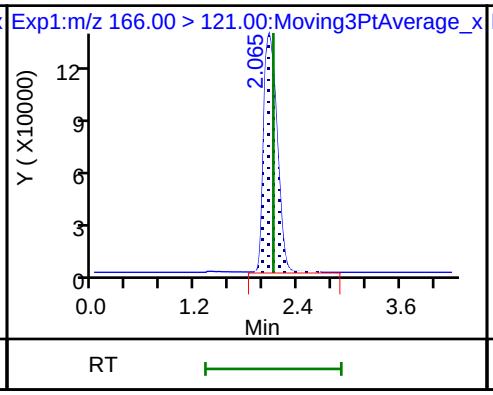
Injection Vol: 7.0 ul Dil. Factor: 1.0000

Method: 30575-1633-125ml Limit Group: LC - 1633 LVI- ICAL

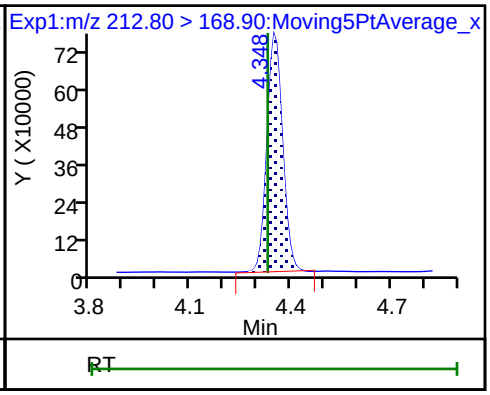
1 Perfluoropropionic acid



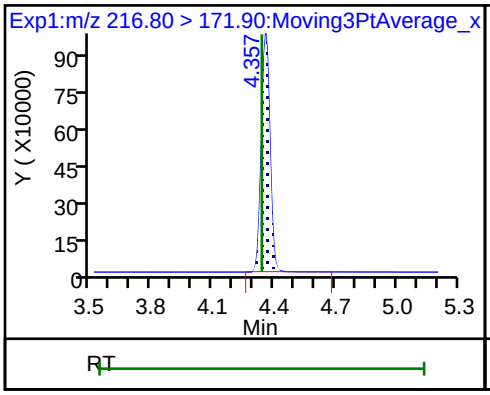
D 2 13C3PFPrA



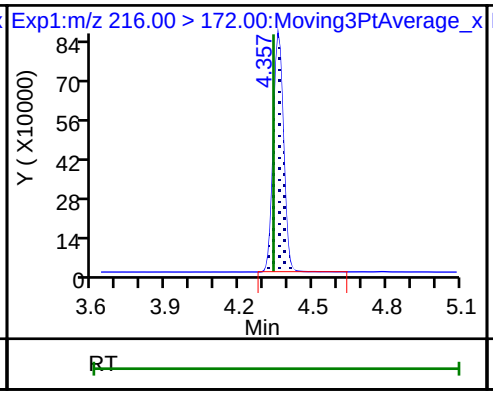
5 PFBA



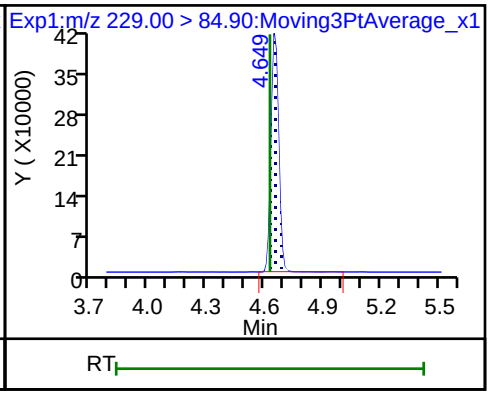
D 6 13C4-PFBA



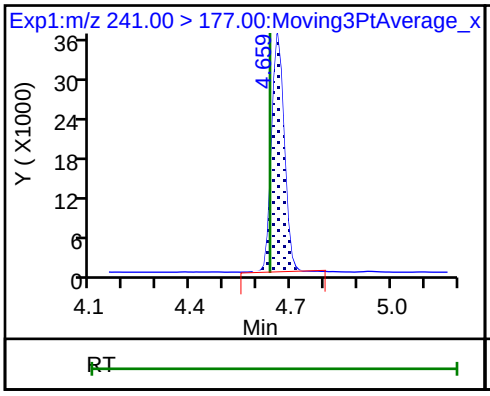
* 7 13C3PFBA



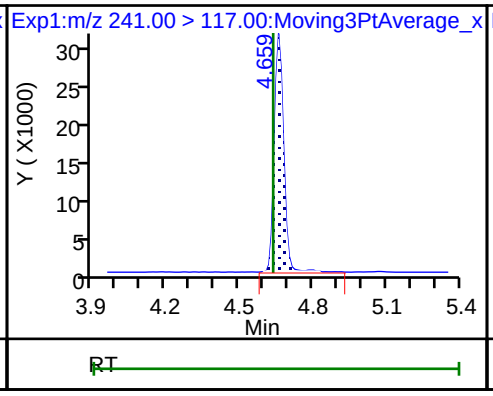
9 PFMPA



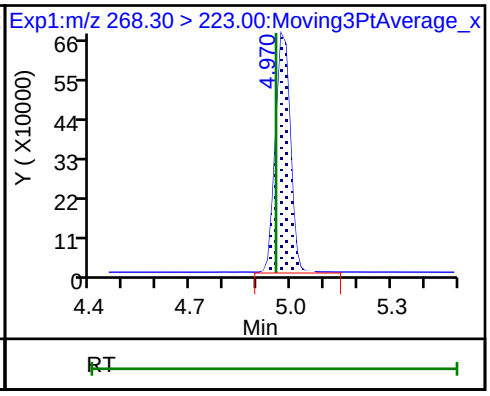
10 3:3 FTCA



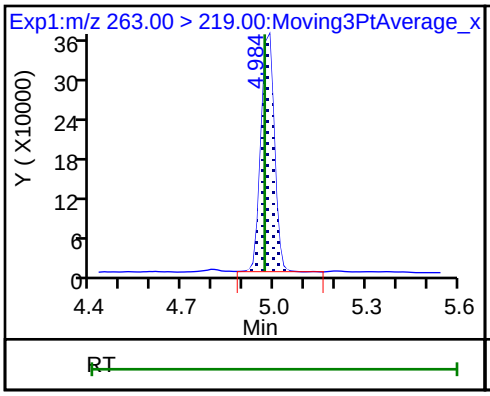
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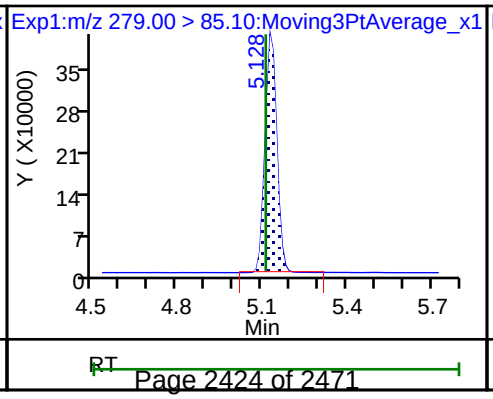
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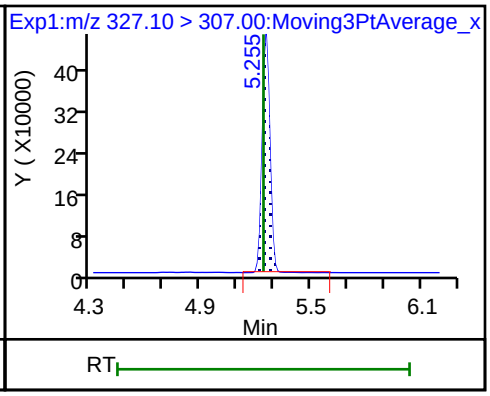
12 PFPA



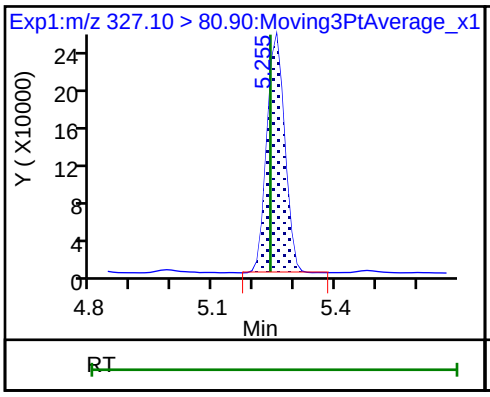
13 PFMBA



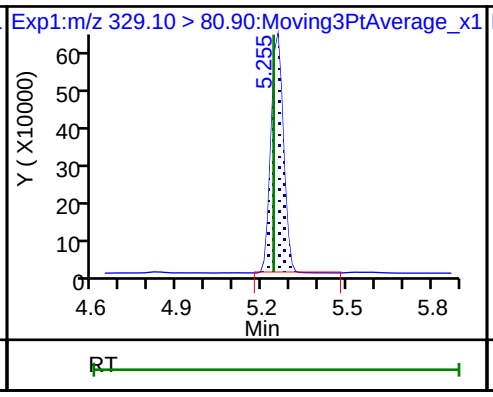
15 4:2FTS



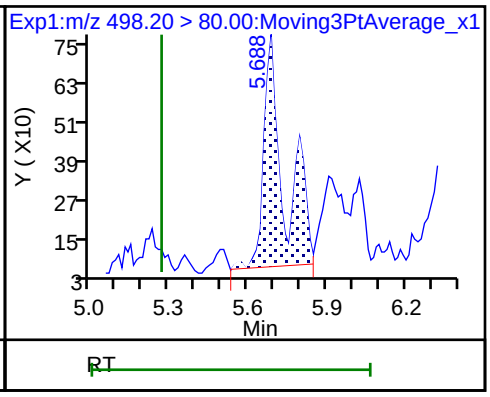
15 4:2FTS



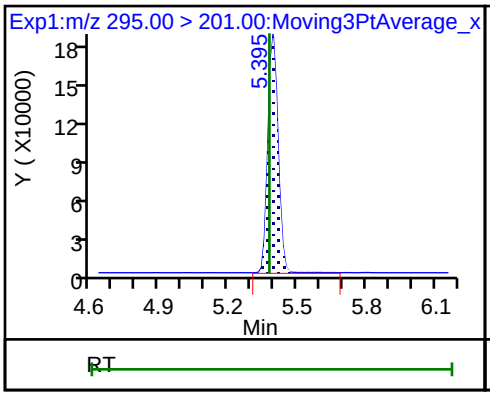
D 14 13C2-4:2FTS



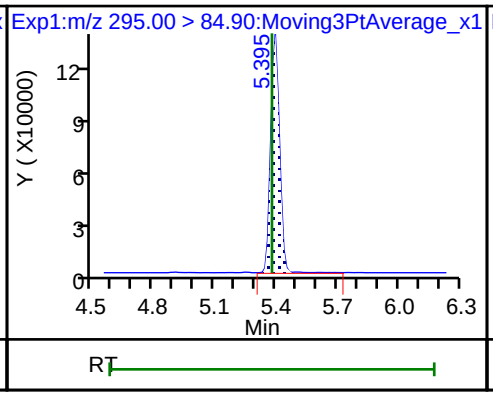
3 TUDCA



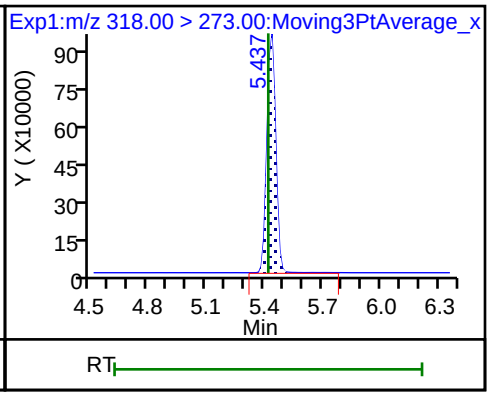
16 NFDHA



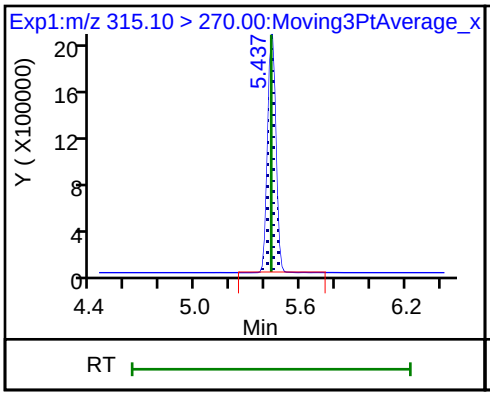
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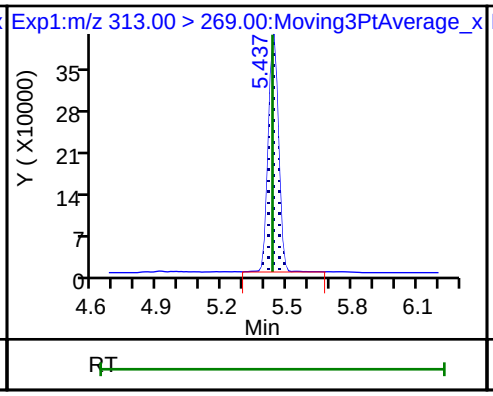
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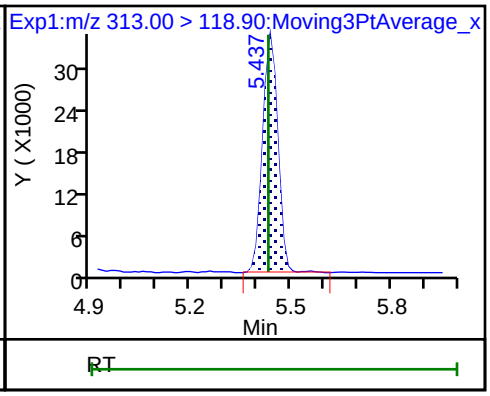
* 18 13C2 PFHxA



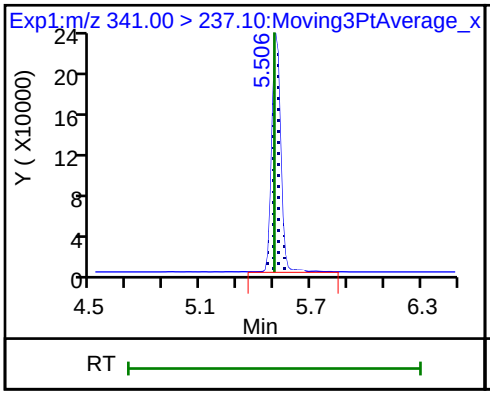
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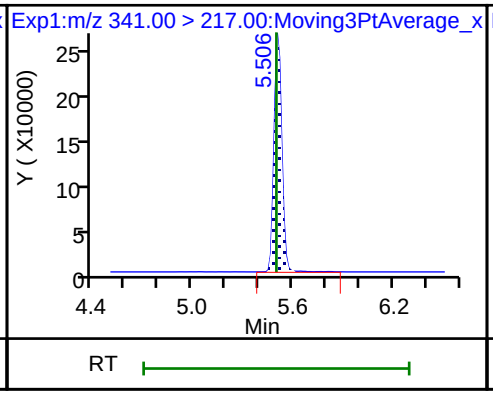
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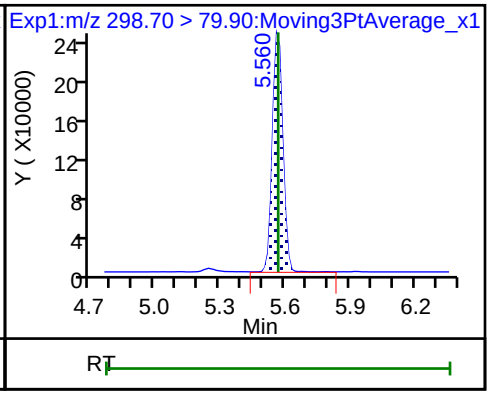
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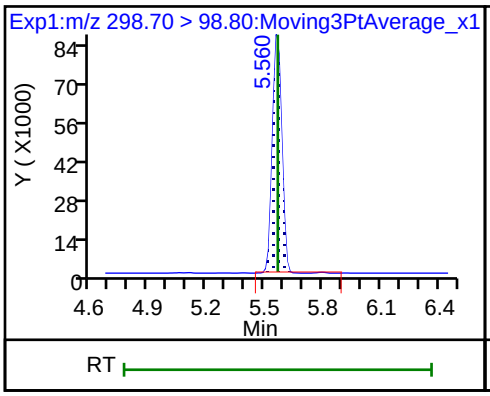
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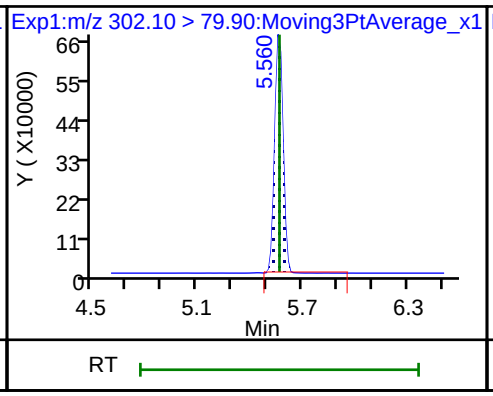
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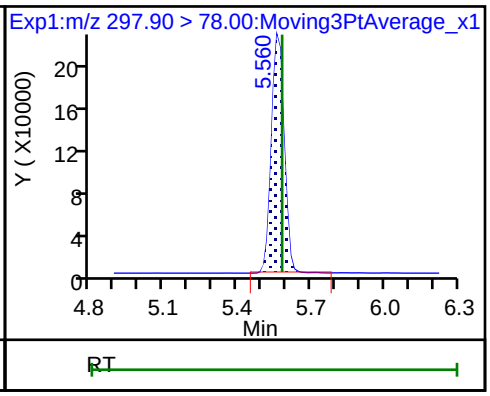
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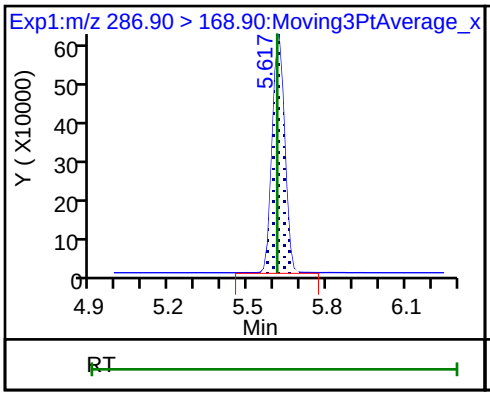
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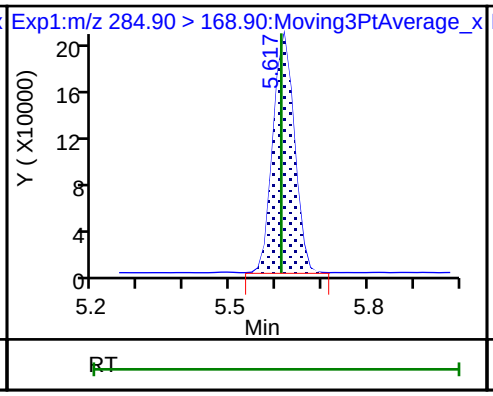
28 FBSA



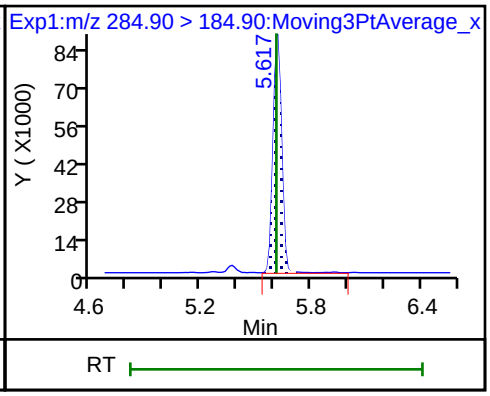
D 23 13C3 HFPO-DA



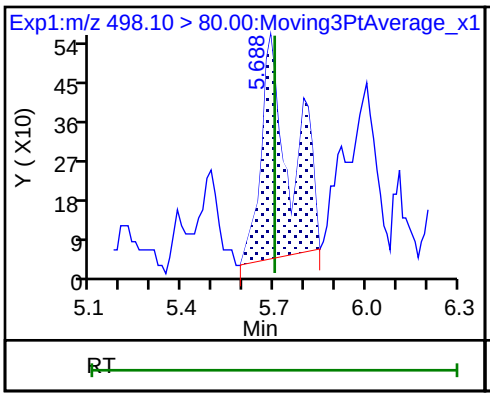
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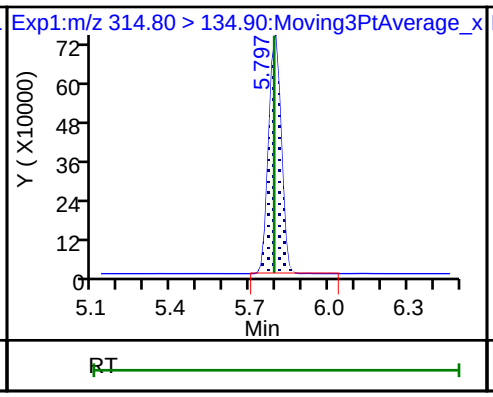
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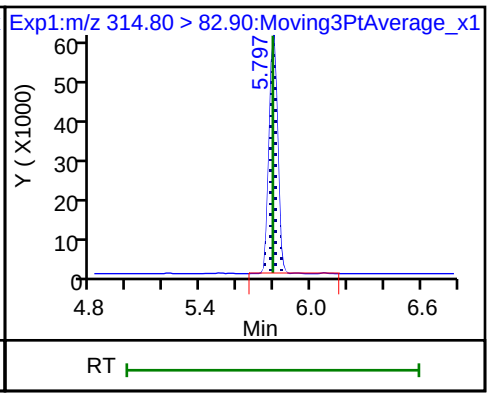
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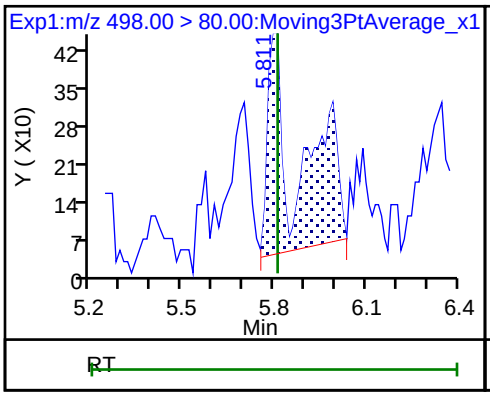
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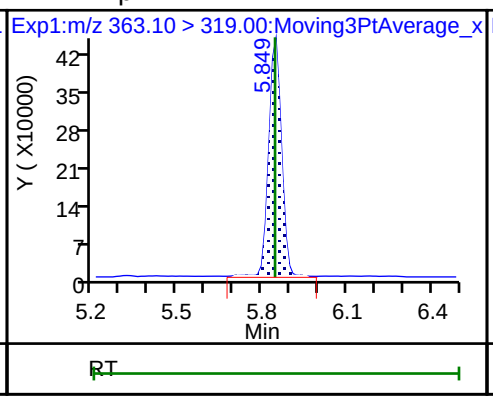
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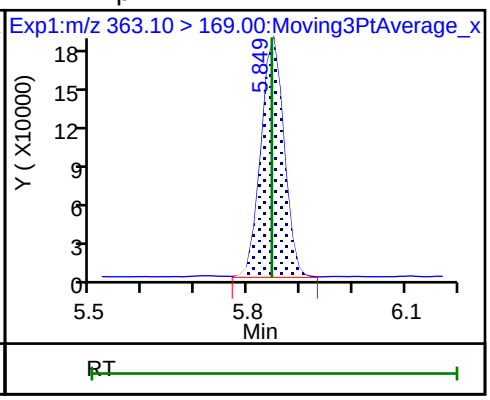
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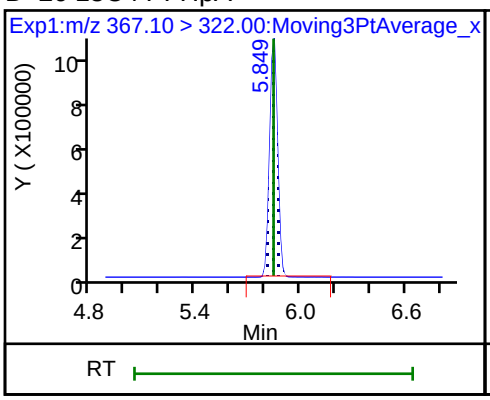
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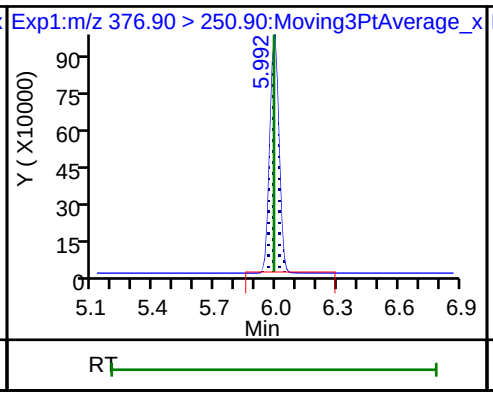
27 PFHpA



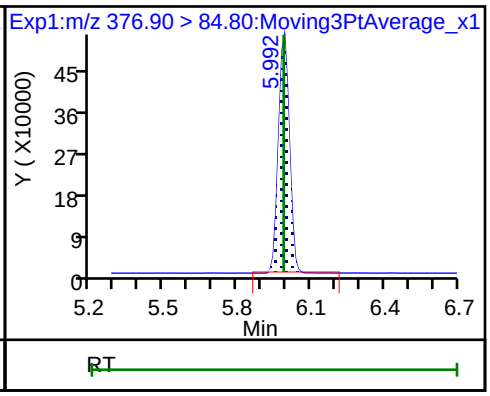
D 26 13C4 PFHpA



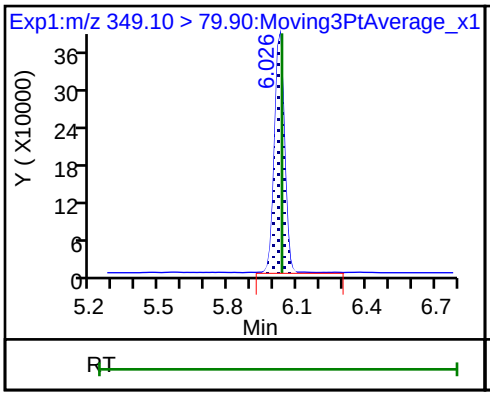
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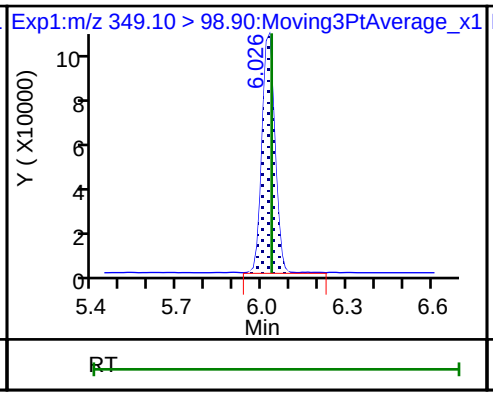
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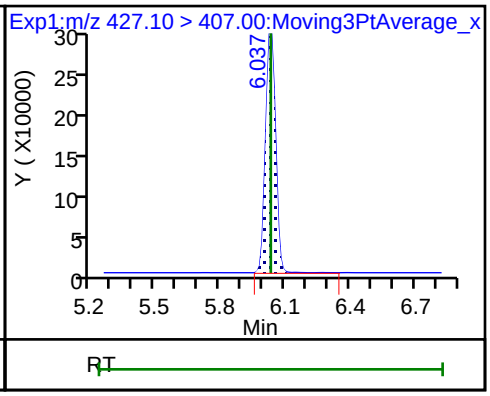
32 PFPeS



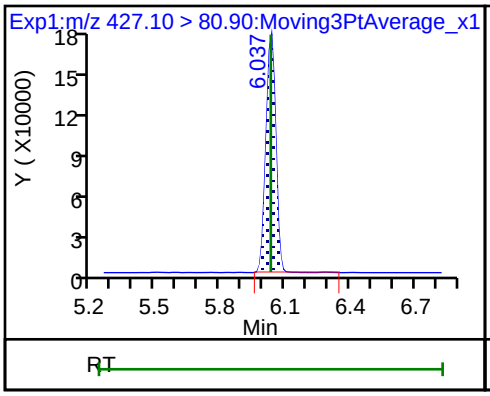
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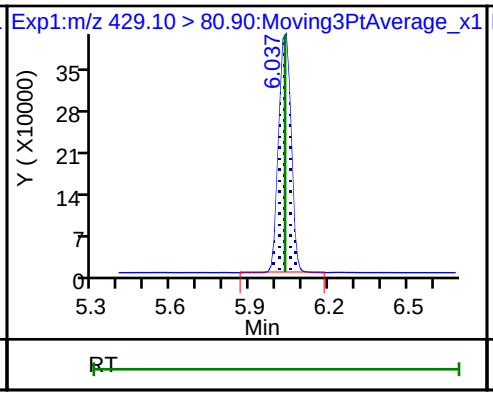
31 6:2FTS



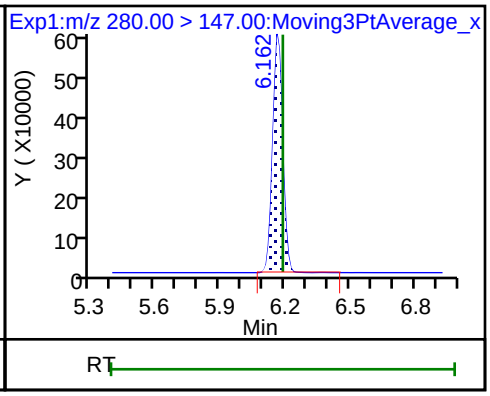
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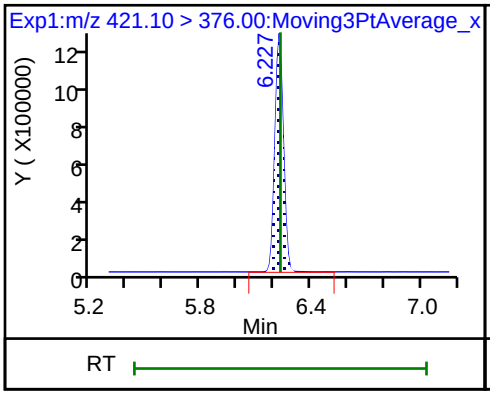
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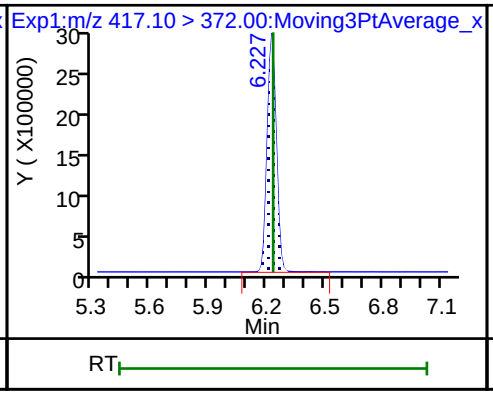
33 BTS



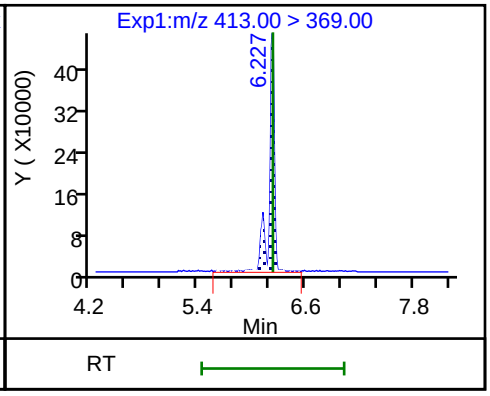
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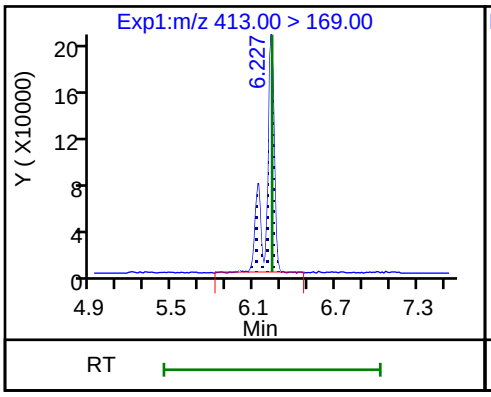
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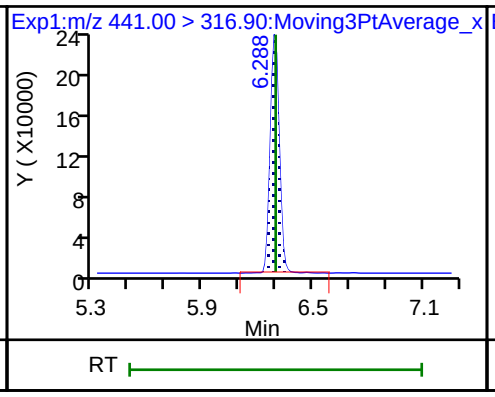
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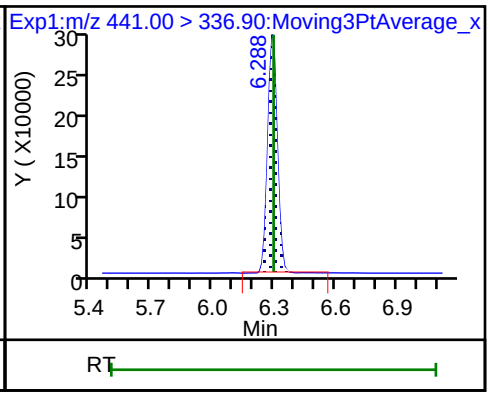
36 PFOA



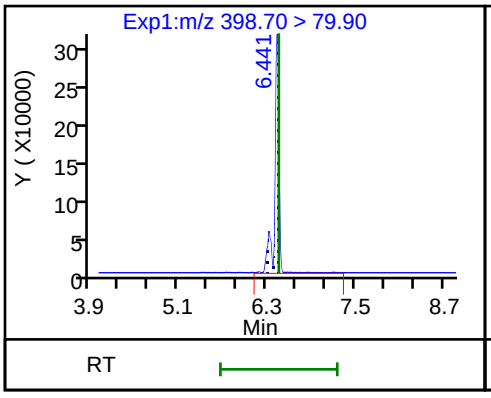
39 7:3 FTCA



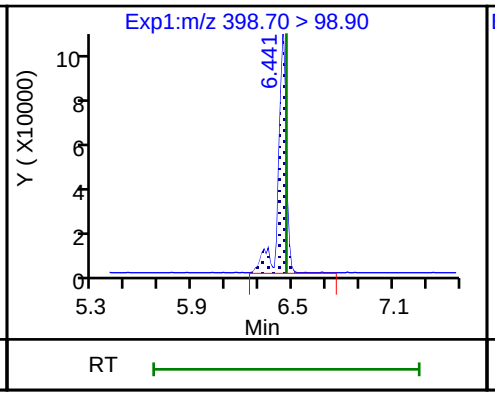
39 7:3 FTCA



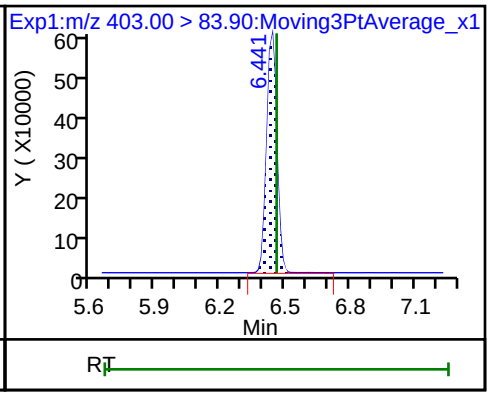
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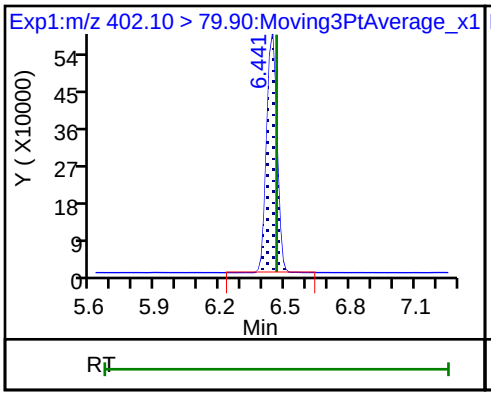
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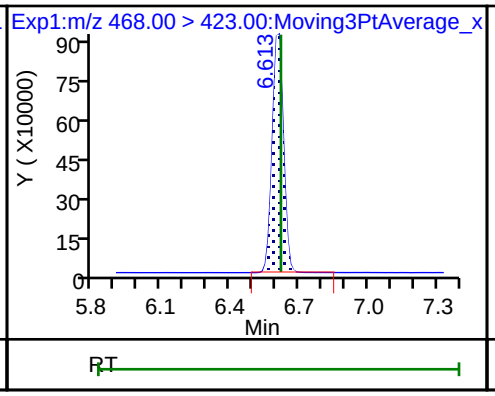
* 38 18O2 PFHxS



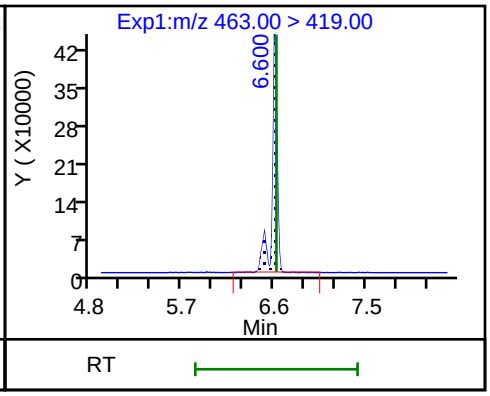
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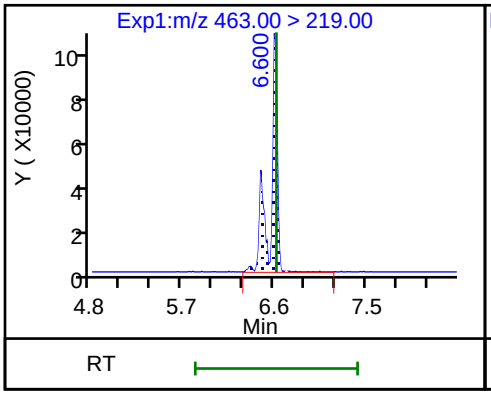
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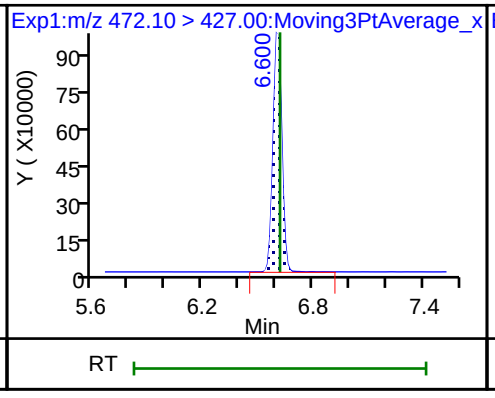
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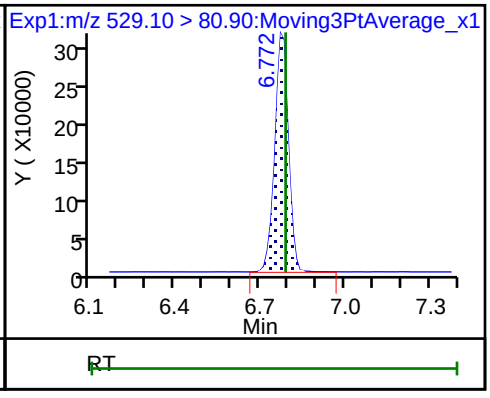
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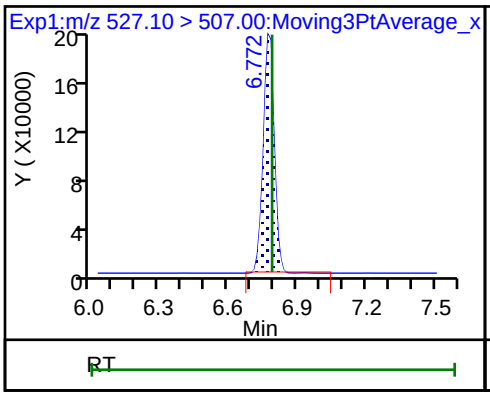
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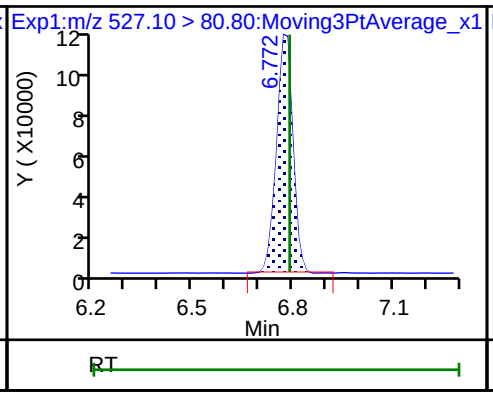
D 44 13C2-8:2FTS



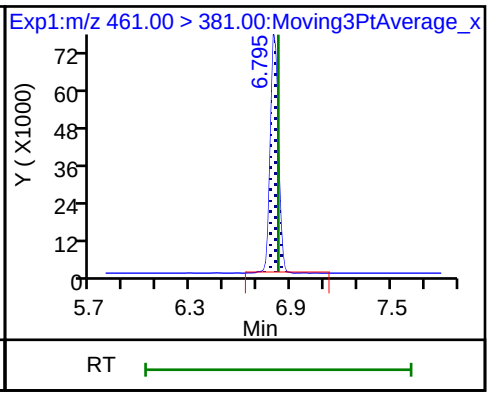
45 8:2FTS



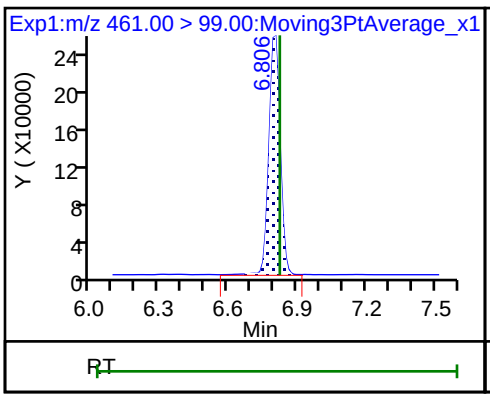
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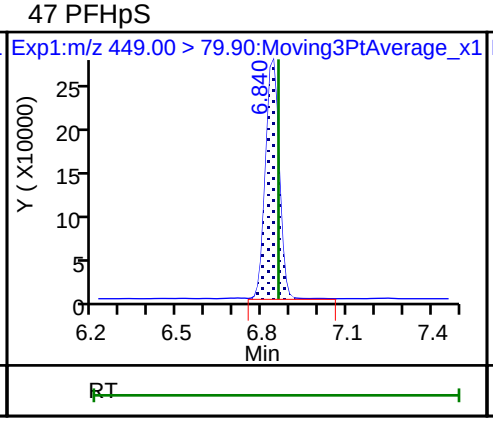
46 PFECHS



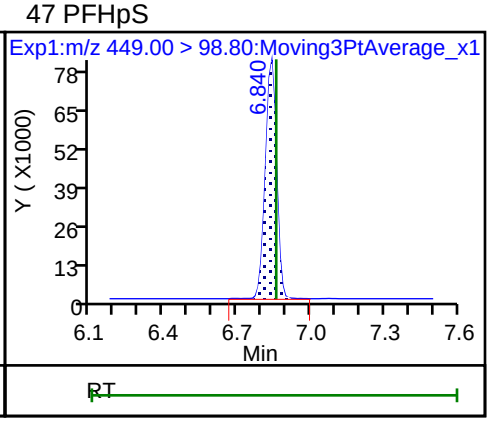
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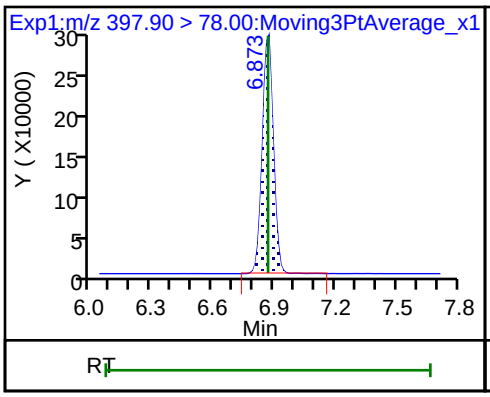
47 PFHpS



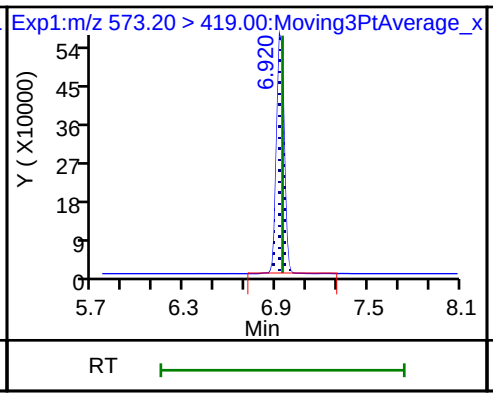
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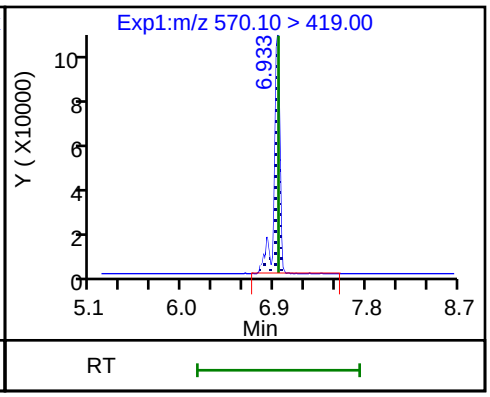
53 FHxSA



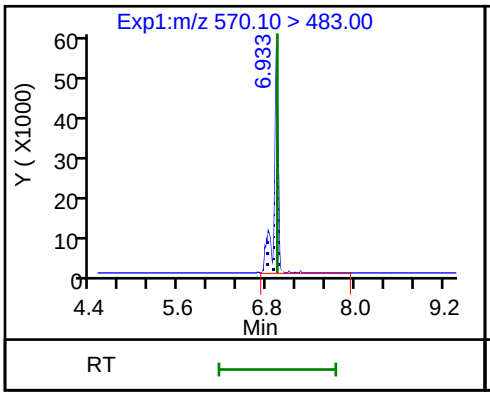
D 48 d3-NMeFOSAA



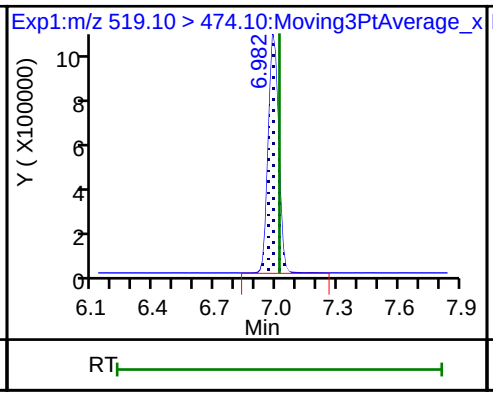
49 NMeFOSAA



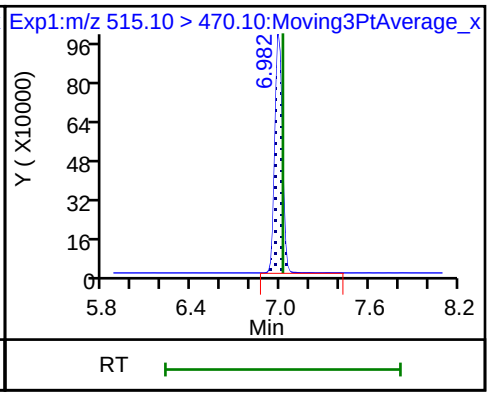
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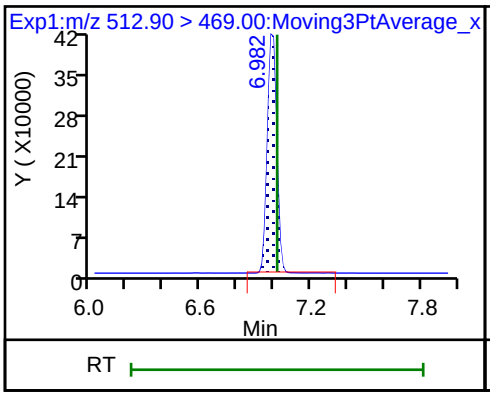
D 50 13C6 PFDA



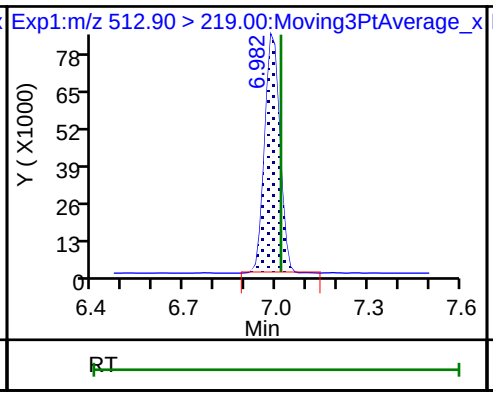
* 52 13C2 PFDA



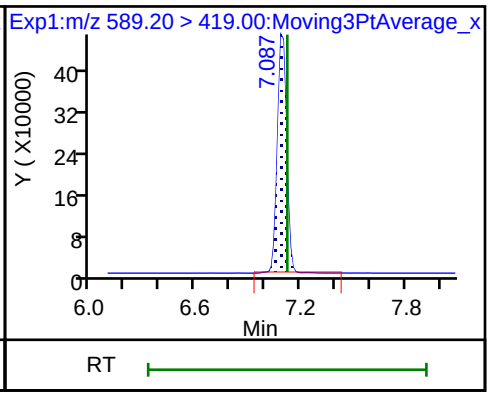
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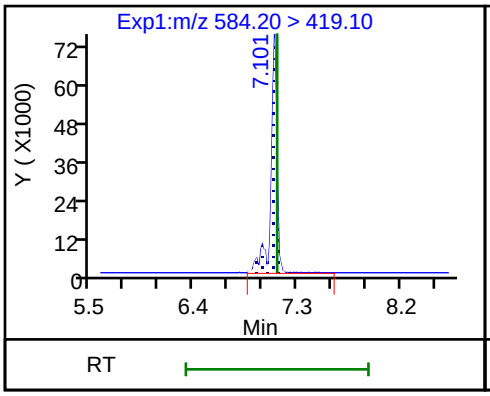
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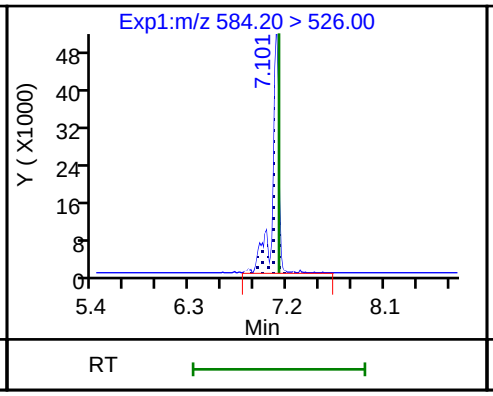
D 54 d5-NEtFOSAA



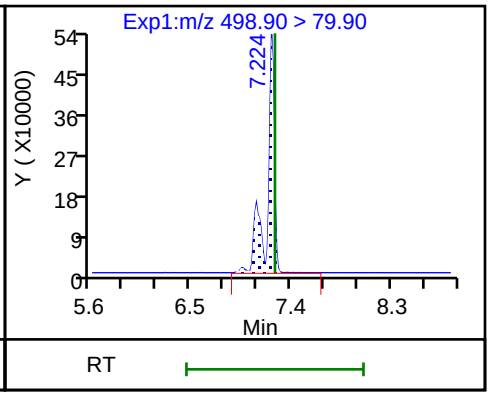
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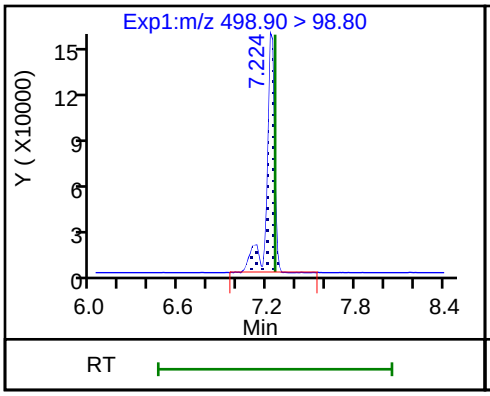
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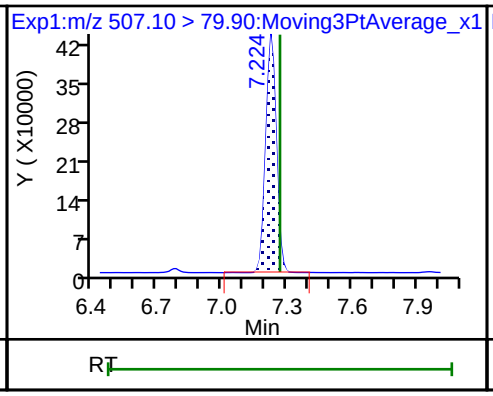
58 PFOS



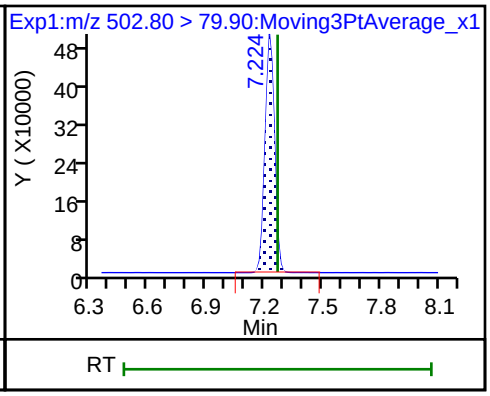
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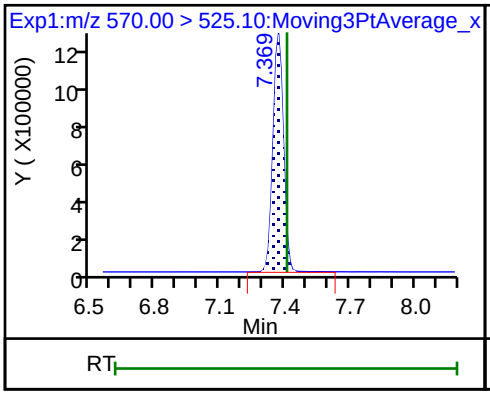
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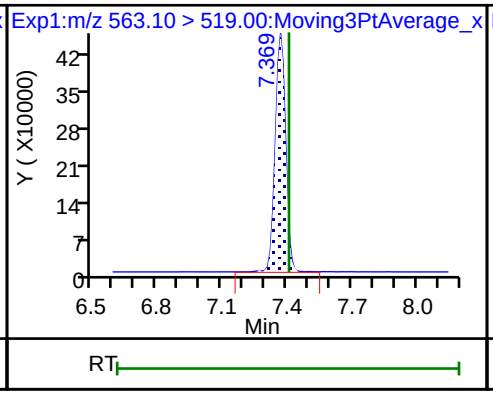
* 57 13C4 PFOS



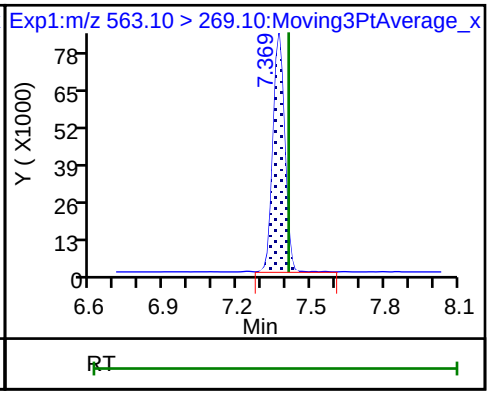
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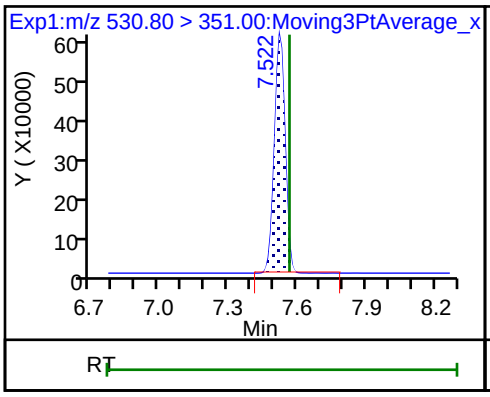
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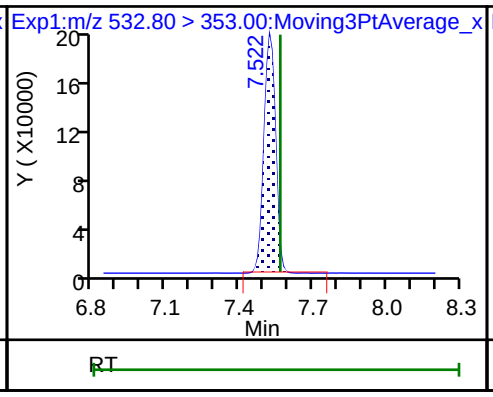
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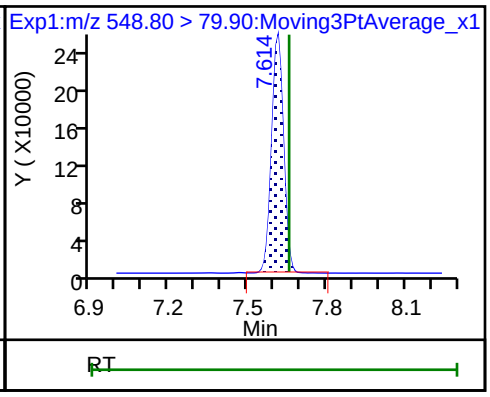
61 9ClFOS



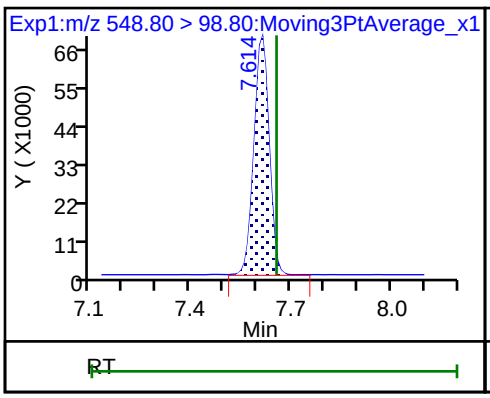
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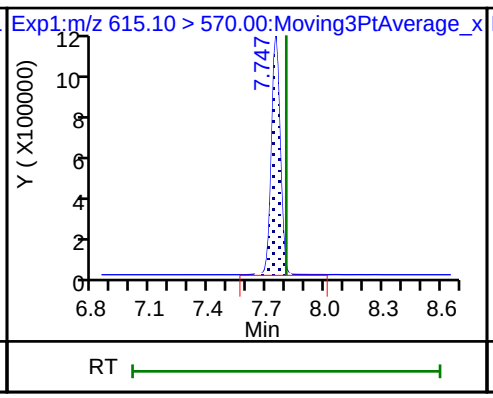
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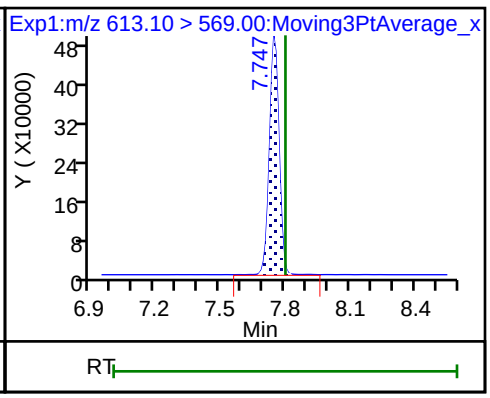
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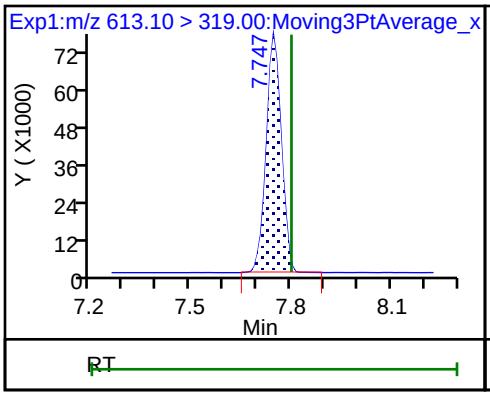
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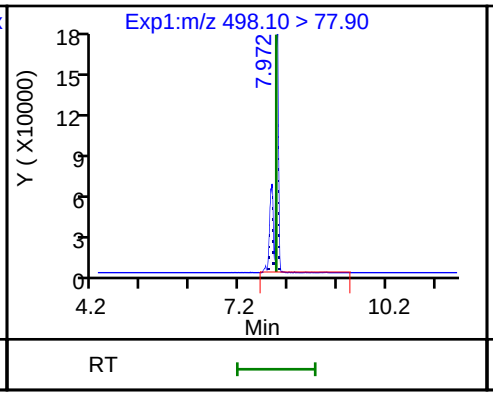
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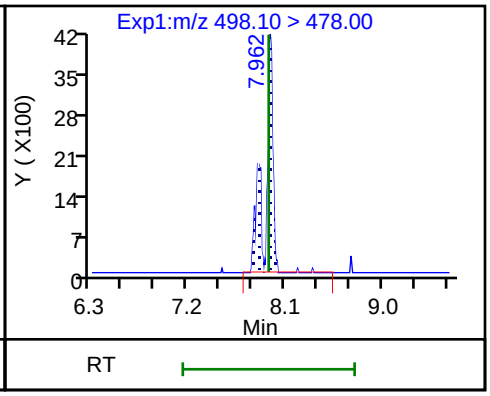
63 PFDoA



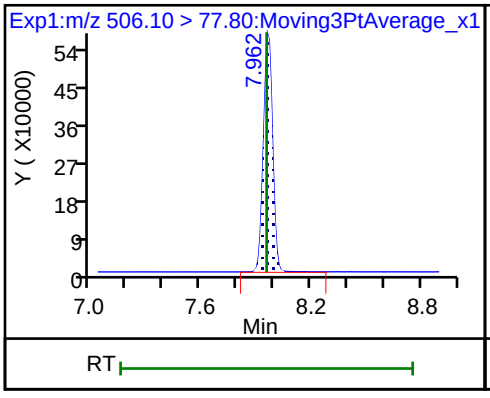
64 PFOSA



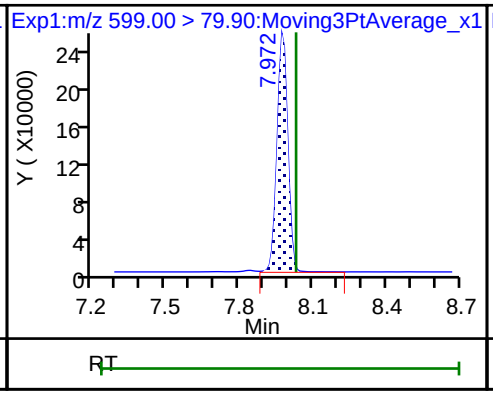
64 PFOSA



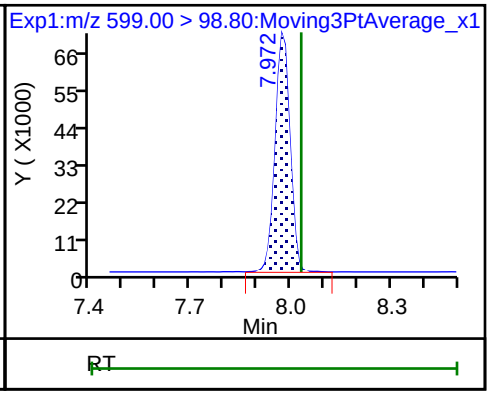
D 65 13C8 FOSA



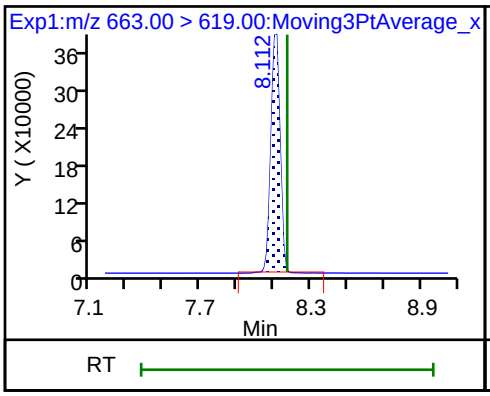
66 PFDS



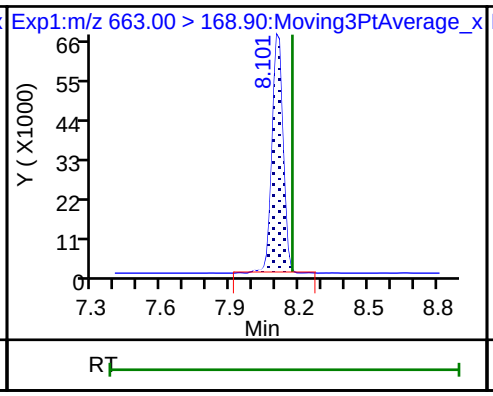
66 PFDS



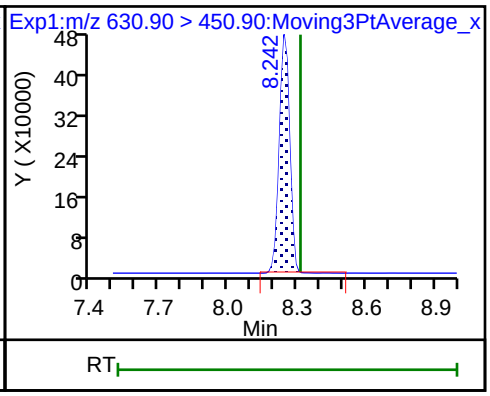
67 PFTrDA



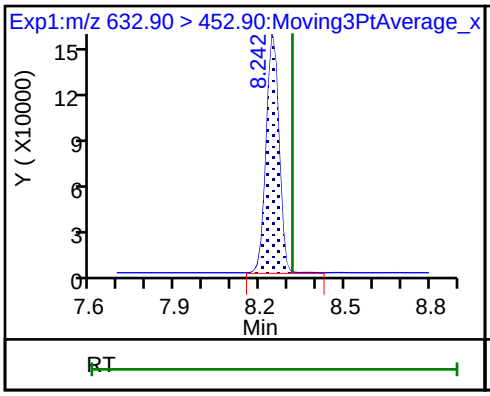
67 PFTrDA



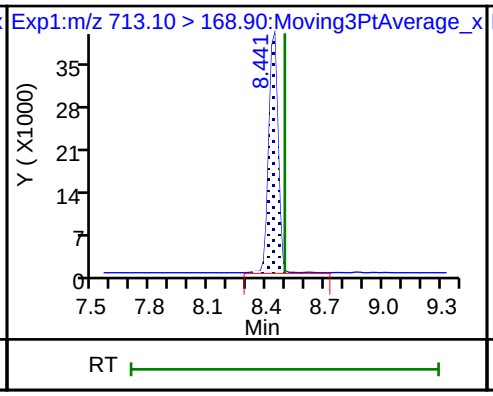
68 11ClFOS



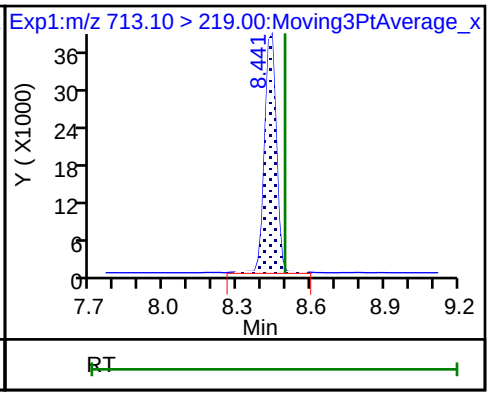
68 11ClFOS



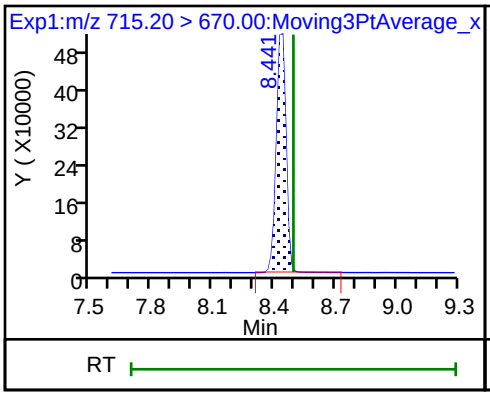
70 PFTeDA



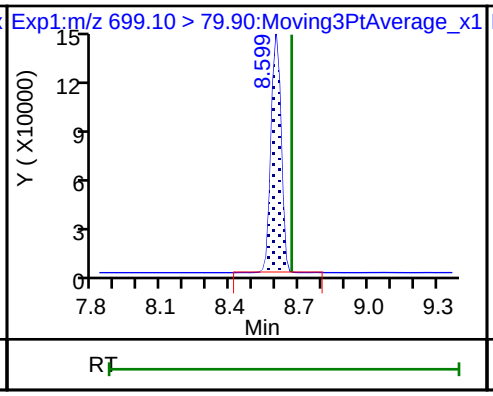
70 PFTeDA



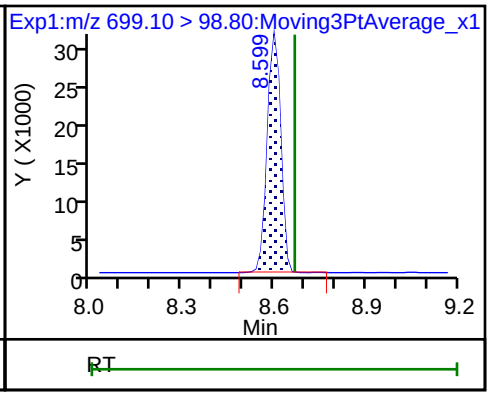
D 69 13C2 PFTeDA



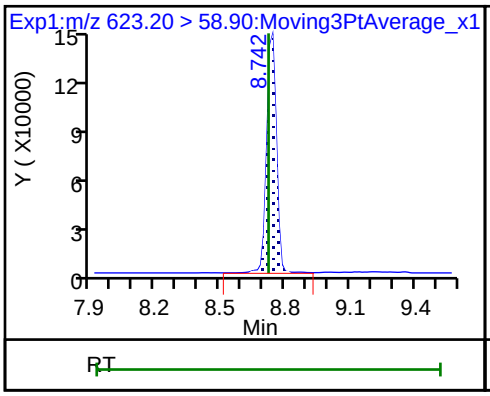
73 PFDoS



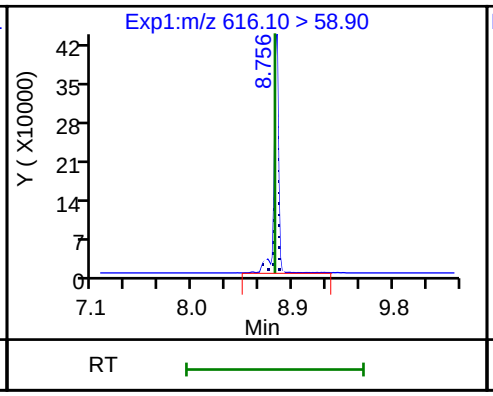
73 PFDoS



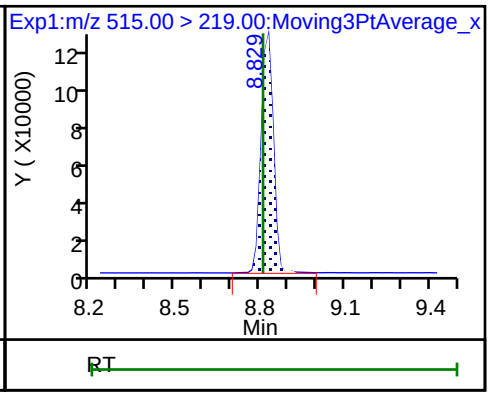
D 71 d7-N-Me-FOSE



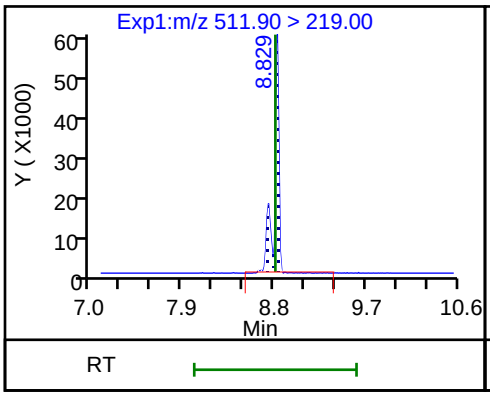
72 N-MeFOSE-M



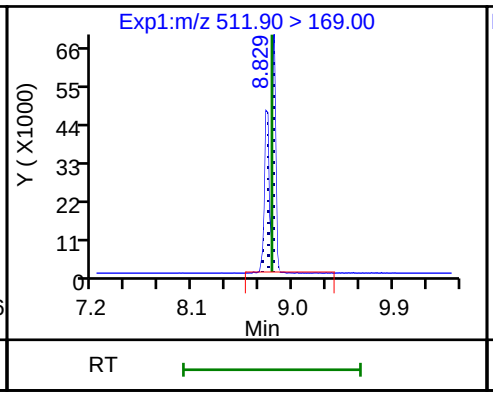
D 74 d3-NMePFOSA



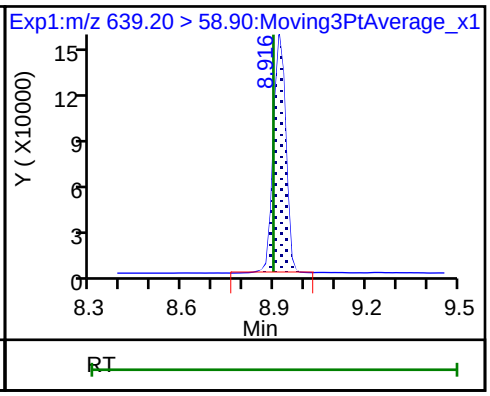
75 NMeFOSA



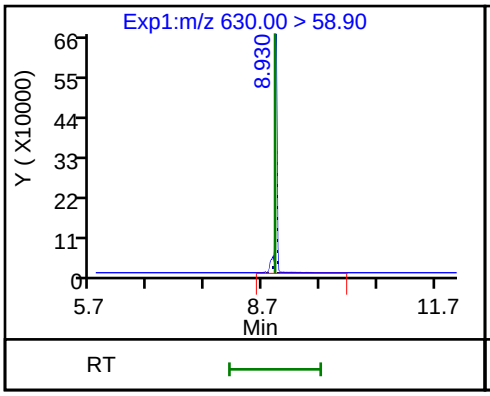
75 NMeFOSA



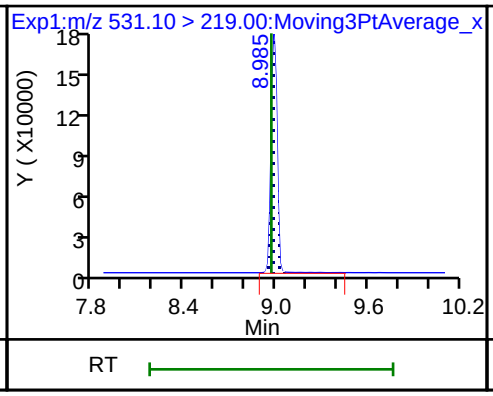
D 76 d9-N-EtFOSE



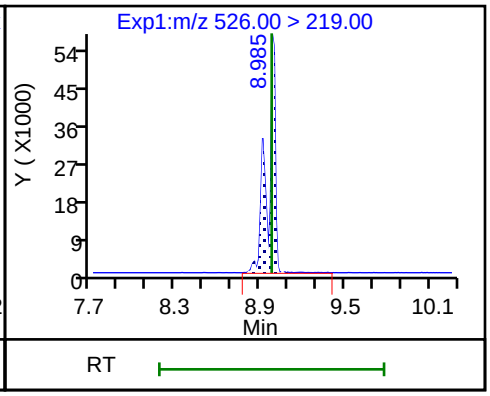
77 N-EtFOSE-M



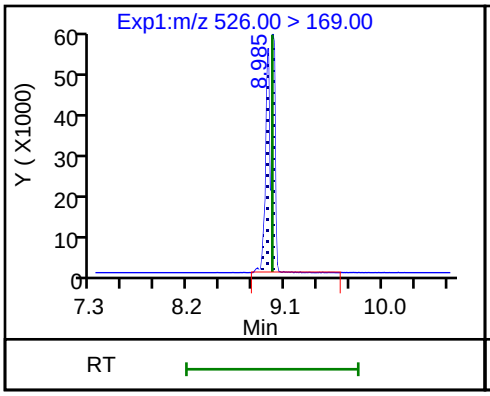
D 78 d5-NEtPFOSA



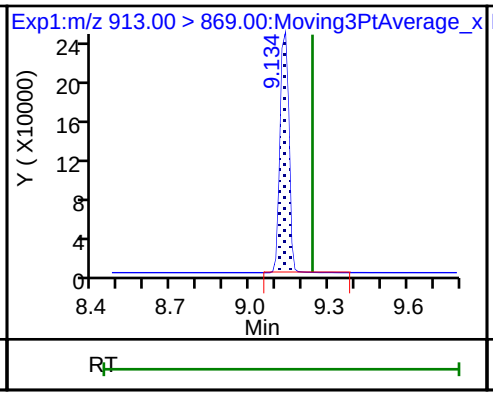
79 N-EtFOSA-M



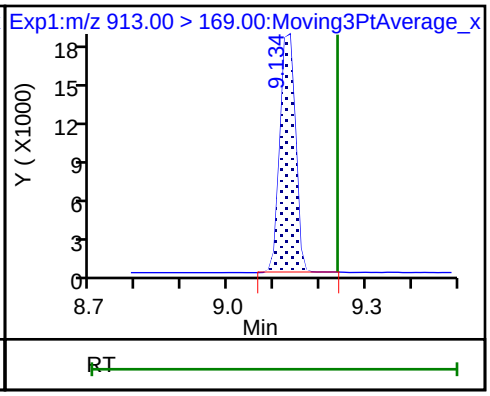
79 N-EtFOSA-M



80 Perfluorooctadecanoic acid



80 Perfluorooctadecanoic acid



PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30575 Start Date: 02/02/2026 11:43

Analysis Batch Number: 763424 End Date: 02/02/2026 17:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-763424/1		02/02/2026 11:43	1	26Feb02CAL-01.d	Gemini C18 50mm 3(mm)
IC 410-763424/2		02/02/2026 11:57	1	26Feb02CAL-02.d	Gemini C18 50mm 3(mm)
IC 410-763424/3		02/02/2026 12:10	1	26Feb02CAL-03.d	Gemini C18 50mm 3(mm)
IC 410-763424/4		02/02/2026 12:24	1	26Feb02CAL-04.d	Gemini C18 50mm 3(mm)
ICISAV 410-763424/5		02/02/2026 12:38	1	26Feb02CAL-05.d	Gemini C18 50mm 3(mm)
IC 410-763424/6		02/02/2026 12:51	1	26Feb02CAL-06.d	Gemini C18 50mm 3(mm)
IC 410-763424/7		02/02/2026 13:05	1	26Feb02CAL-07.d	Gemini C18 50mm 3(mm)
IC 410-763424/8		02/02/2026 16:40	1	26Feb02CAL-60.d	Gemini C18 50mm 3(mm)
ICB 410-763424/9		02/02/2026 16:53	1	26Feb02CAL-61.d	Gemini C18 50mm 3(mm)
ICV 410-763424/10		02/02/2026 17:07	1	26Feb02CAL-62.d	Gemini C18 50mm 3(mm)
WDM 410-763424/11		02/02/2026 17:20	1	26Feb02CAL-63.d	Gemini C18 50mm 3(mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30575 Start Date: 02/04/2026 08:54

Analysis Batch Number: 764500 End Date: 02/05/2026 06:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVO 410-764500/1		02/04/2026 08:54	1	26Feb04-2005.d	Gemini C18 50mm 3(mm)
CCV 410-764500/2		02/04/2026 09:07	1		Gemini C18 50mm 3(mm)
CCB 410-764500/3		02/04/2026 09:21	1		Gemini C18 50mm 3(mm)
WDM 410-764500/4		02/04/2026 09:34	1	26Feb04-2008.d	Gemini C18 50mm 3(mm)
CCV 410-764500/114		02/04/2026 13:16	1		Gemini C18 50mm 3(mm)
CCB 410-764500/115		02/04/2026 13:30	1		Gemini C18 50mm 3(mm)
CCV 410-764500/125		02/04/2026 15:54	1		Gemini C18 50mm 3(mm)
CCB 410-764500/126		02/04/2026 16:08	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 16:22	10		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 16:35	10		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 16:49	10		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 17:02	10		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 17:16	10		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 17:30	10		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 17:43	1		Gemini C18 50mm 3(mm)
CCV 410-764500/134		02/04/2026 17:57	1	26Feb04-51.d	Gemini C18 50mm 3(mm)
CCB 410-764500/135		02/04/2026 18:10	1	26Feb04-52.d	Gemini C18 50mm 3(mm)
MB 410-764041/1-A		02/04/2026 18:24	1	26Feb04SD-53.d	Gemini C18 50mm 3(mm)
LCS 410-764041/2-A		02/04/2026 18:37	1	26Feb04SD-54.d	Gemini C18 50mm 3(mm)
LLCS 410-764041/3-A		02/04/2026 18:51	1	26Feb04SD-55.d	Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 19:05	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 19:18	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 19:32	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 19:45	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/04/2026 19:59	1		Gemini C18 50mm 3(mm)
460-344049-A-5-B MS		02/04/2026 20:13	1	26Feb04SD-61.d	Gemini C18 50mm 3(mm)
460-344049-A-5-C MSD		02/04/2026 20:26	1	26Feb04SD-62.d	Gemini C18 50mm 3(mm)
460-344047-1 RE	RXSB-19 (0-2)_P RE	02/04/2026 20:40	1	26Feb04SD-63.d	Gemini C18 50mm 3(mm)
460-344047-2 RE	RXSB-19 (6-8)_P RE	02/04/2026 20:53	1	26Feb04SD-64.d	Gemini C18 50mm 3(mm)
460-344047-3 RE	RXSB-16 (0-2)_P RE	02/04/2026 21:07	1	26Feb04SD-65.d	Gemini C18 50mm 3(mm)
460-344047-4 RE	RXSB-16 (6-8)_P RE	02/04/2026 21:21	1	26Feb04SD-66.d	Gemini C18 50mm 3(mm)
460-344047-5 RE	RXSB-17 (6-8)_P RE	02/04/2026 21:34	1	26Feb04SD-67.d	Gemini C18 50mm 3(mm)
CCV 410-764500/152		02/04/2026 21:48	1	26Feb04SD-68.d	Gemini C18 50mm 3(mm)
CCB 410-764500/153		02/04/2026 22:01	1	26Feb04SD-69.d	Gemini C18 50mm 3(mm)
460-344047-6 RE	DUP_012926 RE	02/04/2026 22:15	1	26Feb04SD-70.d	Gemini C18 50mm 3(mm)
CCV 410-764500/154		02/04/2026 22:29	1	26Feb04SD-71.d	Gemini C18 50mm 3(mm)
CCB 410-764500/155		02/04/2026 22:42	1	26Feb04SD-72.d	Gemini C18 50mm 3(mm)
WDM 410-764500/179		02/05/2026 00:04	1		Gemini C18 50mm 3(mm)
CCVO 410-764500/180		02/05/2026 00:17	1		Gemini C18 50mm 3(mm)
CCV 410-764500/181		02/05/2026 03:41	1		Gemini C18 50mm 3(mm)
CCB 410-764500/182		02/05/2026 03:55	1		Gemini C18 50mm 3(mm)
CCV 410-764500/183		02/05/2026 06:24	1		Gemini C18 50mm 3(mm)
CCB 410-764500/184		02/05/2026 06:38	1		Gemini C18 50mm 3(mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30576 Start Date: 01/29/2026 00:38

Analysis Batch Number: 761807 End Date: 01/29/2026 02:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-761807/1		01/29/2026 00:38	1	26JAN28CAL-01.d	Gemini C18 50mm 3(mm)
IC 410-761807/2		01/29/2026 00:52	1	26JAN28CAL-02.d	Gemini C18 50mm 3(mm)
IC 410-761807/3		01/29/2026 01:06	1	26JAN28CAL-03.d	Gemini C18 50mm 3(mm)
IC 410-761807/4		01/29/2026 01:19	1	26JAN28CAL-04.d	Gemini C18 50mm 3(mm)
ICISAV 410-761807/5		01/29/2026 01:33	1	26JAN28CAL-05.d	Gemini C18 50mm 3(mm)
IC 410-761807/6		01/29/2026 01:46	1	26JAN28CAL-06.d	Gemini C18 50mm 3(mm)
IC 410-761807/7		01/29/2026 02:00	1	26JAN28CAL-07.d	Gemini C18 50mm 3(mm)
IC 410-761807/8		01/29/2026 02:14	1	26JAN28CAL-08.d	Gemini C18 50mm 3(mm)
ICB 410-761807/9		01/29/2026 02:27	1	26JAN28CAL-09.d	Gemini C18 50mm 3(mm)
ICV 410-761807/10		01/29/2026 02:41	1	26JAN28CAL-10.d	Gemini C18 50mm 3(mm)
WDM 410-761807/11		01/29/2026 02:54	1	26JAN28CAL-11.d	Gemini C18 50mm 3(mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30576 Start Date: 02/02/2026 09:55

Analysis Batch Number: 763219 End Date: 02/03/2026 05:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVO 410-763219/1		02/02/2026 09:55	1	26Feb02c-01.d	Gemini C18 50mm 3(mm)
CCV 410-763219/2		02/02/2026 11:03	1		Gemini C18 50mm 3(mm)
CCB 410-763219/3		02/02/2026 11:16	1		Gemini C18 50mm 3(mm)
WDM 410-763219/4		02/02/2026 11:30	1	26FEB02PC-07.d	Gemini C18 50mm 3(mm)
CCV 410-763219/40		02/02/2026 13:05	1		Gemini C18 50mm 3(mm)
CCB 410-763219/41		02/02/2026 13:19	1		Gemini C18 50mm 3(mm)
CCV 410-763219/28		02/02/2026 15:21	1		Gemini C18 50mm 3(mm)
CCB 410-763219/29		02/02/2026 15:34	1		Gemini C18 50mm 3(mm)
CCV 410-763219/30		02/02/2026 18:04	1		Gemini C18 50mm 3(mm)
CCB 410-763219/31		02/02/2026 18:18	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 18:45	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 18:58	10		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 19:12	100		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 19:26	1		Gemini C18 50mm 3(mm)
CCV 410-763219/37		02/02/2026 19:39	1	26feb02PC-41.d	Gemini C18 50mm 3(mm)
CCB 410-763219/38		02/02/2026 19:53	1	26feb02PC-42.d	Gemini C18 50mm 3(mm)
MB 410-763508/8-A		02/02/2026 21:16	1	26Feb02n-01.d	Gemini C18 50mm 3(mm)
LCS 410-763508/9-A		02/02/2026 21:30	1	26Feb02n-02.d	Gemini C18 50mm 3(mm)
LCSD 410-763508/10-A		02/02/2026 21:57	1	26Feb02n-03.d	Gemini C18 50mm 3(mm)
LLCS 410-763508/11-A		02/02/2026 22:10	1	26Feb02n-04.d	Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 22:24	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 22:38	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 22:51	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 23:05	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 23:18	1		Gemini C18 50mm 3(mm)
460-344047-7	FB_012926_P	02/02/2026 23:32	1	26Feb02n-10.d	Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 23:46	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/02/2026 23:59	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 00:13	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 00:26	1		Gemini C18 50mm 3(mm)
CCV 410-763219/64		02/03/2026 00:40	1	26Feb02n-15.d	Gemini C18 50mm 3(mm)
CCB 410-763219/65		02/03/2026 00:54	1	26Feb02n-16.d	Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 01:07	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 01:21	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 01:34	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 01:48	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 02:02	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 02:15	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 02:29	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 02:42	1		Gemini C18 50mm 3(mm)
CCV 410-763219/66		02/03/2026 02:56	1		Gemini C18 50mm 3(mm)
CCB 410-763219/67		02/03/2026 03:10	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/03/2026 03:23	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/03/2026 03:37	1		Gemini C18 50mm 3(mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30576 Start Date: 02/02/2026 09:55

Analysis Batch Number: 763219 End Date: 02/03/2026 05:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ (QC)		02/03/2026 03:50	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/03/2026 04:04	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/03/2026 04:18	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 04:31	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 04:45	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 04:58	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 05:12	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/03/2026 05:26	1		Gemini C18 50mm 3(mm)
CCV 410-763219/78		02/03/2026 05:39	1		Gemini C18 50mm 3(mm)
CCB 410-763219/79		02/03/2026 05:53	1		Gemini C18 50mm 3(mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30577 Start Date: 02/04/2026 09:39

Analysis Batch Number: 764442 End Date: 02/04/2026 11:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-764442/1		02/04/2026 09:39	1	26FEB04CAL-01.d	Gemini C18 50mm 3(mm)
IC 410-764442/2		02/04/2026 09:52	1	26FEB04CAL-02.d	Gemini C18 50mm 3(mm)
IC 410-764442/3		02/04/2026 10:06	1	26FEB04CAL-03.d	Gemini C18 50mm 3(mm)
IC 410-764442/4		02/04/2026 10:20	1	26FEB04CAL-04.d	Gemini C18 50mm 3(mm)
ICISAV 410-764442/5		02/04/2026 10:33	1	26FEB04CAL-05.d	Gemini C18 50mm 3(mm)
IC 410-764442/6		02/04/2026 10:47	1	26FEB04CAL-06.d	Gemini C18 50mm 3(mm)
IC 410-764442/7		02/04/2026 11:00	1	26FEB04CAL-07.d	Gemini C18 50mm 3(mm)
IC 410-764442/8		02/04/2026 11:14	1	26FEB04CAL-08.d	Gemini C18 50mm 3(mm)
ICB 410-764442/9		02/04/2026 11:28	1	26FEB04CAL-09.d	Gemini C18 50mm 3(mm)
ICV 410-764442/10		02/04/2026 11:41	1	26FEB04CAL-10.d	Gemini C18 50mm 3(mm)
WDM 410-764442/11		02/04/2026 11:55	1	26FEB04CAL-11.d	Gemini C18 50mm 3(mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30577 Start Date: 02/05/2026 11:14

Analysis Batch Number: 765196 End Date: 02/06/2026 07:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
WDM 410-765196/4		02/05/2026 11:14	1	26Feb04PC-16.d	Gemini C18 50mm 3(mm)
CCVO 410-765196/1		02/05/2026 11:28	1	26Feb04PC-15.d	Gemini C18 50mm 3(mm)
CCV 410-765196/2		02/05/2026 12:22	1		Gemini C18 50mm 3(mm)
CCB 410-765196/3		02/05/2026 12:36	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/05/2026 13:58	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/05/2026 14:11	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/05/2026 14:25	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 14:38	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 14:52	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 15:05	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 15:19	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/05/2026 15:33	1		Gemini C18 50mm 3(mm)
ZZZZZ (QC)		02/05/2026 15:46	1		Gemini C18 50mm 3(mm)
CCV 410-765196/114		02/05/2026 16:00	1		Gemini C18 50mm 3(mm)
CCB 410-765196/115		02/05/2026 16:13	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 16:27	10		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 16:41	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 16:54	10		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 17:08	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 17:21	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 17:35	1		Gemini C18 50mm 3(mm)
CCV 410-765196/122		02/05/2026 17:49	1		Gemini C18 50mm 3(mm)
CCB 410-765196/123		02/05/2026 18:02	1		Gemini C18 50mm 3(mm)
CCV 410-765196/130		02/05/2026 19:37	1	26FEB05PC-26.d	Gemini C18 50mm 3(mm)
CCB 410-765196/131		02/05/2026 19:51	1	26FEB05PC-27.d	Gemini C18 50mm 3(mm)
MB 410-765112/1-A		02/05/2026 20:04	1	26FEB05JO-28.d	Gemini C18 50mm 3(mm)
LCS 410-765112/2-A		02/05/2026 20:18	1	26FEB05JO-29.d	Gemini C18 50mm 3(mm)
LLCS 410-765112/3-A		02/05/2026 20:32	1	26FEB05JO-30.d	Gemini C18 50mm 3(mm)
460-344047-1	RXSB-19 (0-2)_P	02/05/2026 20:45	1	26FEB05JO-31.d	Gemini C18 50mm 3(mm)
460-344047-2	RXSB-19 (6-8)_P	02/05/2026 20:59	1	26FEB05JO-32.d	Gemini C18 50mm 3(mm)
460-344047-3	RXSB-16 (0-2)_P	02/05/2026 21:12	1	26FEB05JO-33.d	Gemini C18 50mm 3(mm)
460-344047-4	RXSB-16 (6-8)_P	02/05/2026 21:26	1	26FEB05JO-34.d	Gemini C18 50mm 3(mm)
460-344047-5	RXSB-17 (6-8)_P	02/05/2026 21:40	1	26FEB05JO-35.d	Gemini C18 50mm 3(mm)
460-344047-6	DUP_012926	02/05/2026 21:53	1	26FEB05JO-36.d	Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 22:07	1		Gemini C18 50mm 3(mm)
CCV 410-765196/151		02/05/2026 22:20	1	26FEB05JO-41.d	Gemini C18 50mm 3(mm)
CCB 410-765196/152		02/05/2026 22:34	1	26FEB05JO-42.d	Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 22:47	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 23:01	1		Gemini C18 50mm 3(mm)
ZZZZZ (Client)		02/05/2026 23:15	1		Gemini C18 50mm 3(mm)
CCV 410-765196/153		02/05/2026 23:28	1		Gemini C18 50mm 3(mm)
CCB 410-765196/154		02/05/2026 23:42	1		Gemini C18 50mm 3(mm)
WDM 410-765196/159		02/06/2026 00:50	1		Gemini C18 50mm 3(mm)
CCVO 410-765196/160		02/06/2026 01:03	1		Gemini C18 50mm 3(mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: 30577 Start Date: 02/05/2026 11:14

Analysis Batch Number: 765196 End Date: 02/06/2026 07:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-765196/185		02/06/2026 04:27	1		Gemini C18 50mm 3(mm)
CCB 410-765196/186		02/06/2026 04:41	1		Gemini C18 50mm 3(mm)
CCV 410-765196/187		02/06/2026 07:10	1		Gemini C18 50mm 3(mm)
CCB 410-765196/188		02/06/2026 07:24	1		Gemini C18 50mm 3(mm)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 761807 Batch Start Date: 01/29/26 00:38 Batch Analyst: Cray, Pamela

Batch Method: 1633A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1633_125_CAL1 00080	1633_125_CAL2 00036	1633_125_CAL3 00036	1633_125_CAL4 00083	1633_125_CAL5 00038	1633_125_CAL6 00037
IC 410-761807/1		1633A			1 mL					
IC 410-761807/2		1633A				1 mL				
IC 410-761807/3		1633A					1 mL			
IC 410-761807/4		1633A						1 mL		
ICISAV 410-761807/5		1633A							1 mL	
IC 410-761807/6		1633A								1 mL
IC 410-761807/7		1633A								
IC 410-761807/8		1633A								
ICB 410-761807/9		1633A								
ICV 410-761807/10		1633A								
WDM 410-761807/11		1633A								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1633_125_CAL7 00039	1633_125_CAL8 00034	1633_125_ICV 00034	1633_125_IS_V 00512	1633_125_SS 00202	1633_125_WDM 00019
IC 410-761807/1		1633A								
IC 410-761807/2		1633A								
IC 410-761807/3		1633A								
IC 410-761807/4		1633A								
ICISAV 410-761807/5		1633A								
IC 410-761807/6		1633A								
IC 410-761807/7		1633A			1 mL					
IC 410-761807/8		1633A				1 mL				
ICB 410-761807/9		1633A						50 uL	5 uL	
ICV 410-761807/10		1633A					1 mL			
WDM 410-761807/11		1633A								1 mL

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

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 761807 Batch Start Date: 01/29/26 00:38 Batch Analyst: Cray, Pamela

Batch Method: 1633A Batch End Date:

Batch Notes	
Mobile Phase ID	9472101282633A/25G2461018

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.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 763424 Batch Start Date: 02/02/26 11:43 Batch Analyst: Drury, Sydney

Batch Method: 1633A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1633_125_CAL1 00074	1633_125_CAL2 00034	1633_125_CAL3 00034	1633_125_CAL4 00077	1633_125_CAL5 00036	1633_125_CAL6 00035
IC 410-763424/1		1633A			1 mL					
IC 410-763424/2		1633A				1 mL				
IC 410-763424/3		1633A					1 mL			
IC 410-763424/4		1633A						1 mL		
ICISAV 410-763424/5		1633A							1 mL	
IC 410-763424/6		1633A								1 mL
IC 410-763424/7		1633A								
IC 410-763424/8		1633A								
ICB 410-763424/9		1633A								
ICV 410-763424/10		1633A								
WDM 410-763424/11		1633A								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1633_125_CAL7 00036	1633_125_CAL8 00032	1633_125_ICV 00032	1633_125_IS_V 00565	1633_125_SS 00201	1633_125_WDM 00018
IC 410-763424/1		1633A								
IC 410-763424/2		1633A								
IC 410-763424/3		1633A								
IC 410-763424/4		1633A								
ICISAV 410-763424/5		1633A								
IC 410-763424/6		1633A								
IC 410-763424/7		1633A			1 mL					
IC 410-763424/8		1633A				1 mL				
ICB 410-763424/9		1633A						50 uL	5 uL	
ICV 410-763424/10		1633A					1 mL			
WDM 410-763424/11		1633A								1 mL

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

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 763424 Batch Start Date: 02/02/26 11:43 Batch Analyst: Drury, Sydney

Batch Method: 1633A Batch End Date:

Batch Notes	
Mobile Phase ID	41592020226033A/25K1061059
Dilution Solution ID	10922301072633B

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.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 763508 Batch Start Date: 02/02/26 14:36 Batch Analyst: Eckman, Zoe

Batch Method: 1633A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	AdjustedpH
460-344047-A-7	FB_012926_P	1633A, 1633A	Water	T	182.85 g	21.45 g	161.4 mL	5 mL	7.0 SU	6.0 SU
MB 410-763508/8		1633A, 1633A			150 g	25 g	125 mL	5 mL	7.0 SU	6.0 SU
LCS 410-763508/9		1633A, 1633A			150 g	25 g	125 mL	5 mL	7.0 SU	6.0 SU
LCSD 410-763508/10		1633A, 1633A			150 g	25 g	125 mL	5 mL	7.0 SU	6.0 SU
LLCS 410-763508/11		1633A, 1633A			150 g	25 g	125 mL	5 mL	7.0 SU	6.0 SU

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	5%FormicAmt	CalcMsg	TSS Assessment	1633_125_MS_L 00125	1633_125_MS_M 00154	1633_125_SS 00214
460-344047-A-7	FB_012926_P	1633A, 1633A	Water	T	1 drops	OK	yes			25 uL
MB 410-763508/8		1633A, 1633A			1 drops	OK	yes			25 uL
LCS 410-763508/9		1633A, 1633A			1 drops	OK	yes		50 uL	25 uL
LCSD 410-763508/10		1633A, 1633A			1 drops	OK	yes		50 uL	25 uL
LLCS 410-763508/11		1633A, 1633A			1 drops	OK	yes	40 uL		25 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	AnalysisComment					
460-344047-A-7	FB_012926_P	1633A, 1633A	Water	T						
MB 410-763508/8		1633A, 1633A			PC 34 port 8					
LCS 410-763508/9		1633A, 1633A								
LCSD 410-763508/10		1633A, 1633A								
LLCS 410-763508/11		1633A, 1633A								

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 Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 763508 Batch Start Date: 02/02/26 14:36 Batch Analyst: Eckman, Zoe

Batch Method: 1633A Batch End Date:

Batch Notes	
95:5 Methanol Milli-Q Water ID	10194201282633A
Extraction Filter ID #	2510280513
pH Indicator ID	20BDH21251
Manifold ID	PC 34, 35, 36
SPE Cartridge Type	WAX 200mg
SPE Cartridge Lot ID	S25-004391
Balance ID	C448142515
Pipette/Syringe/Dispenser ID	PFAS 16, 20
Transfer Pipette Lot #	25420385
H2O ID	House A372
Solvent Name	1% NH4OH:MeOH
Solvent Lot #	10194201212633A
Rinse Solvent Name	30:70 MeOH:MQ
Rinse Solvent Lot	10194201212633A
5% Formic Acid Reagent ID	10774112152533C
SPE Cartridge Conditioner #1 ID	10194201292633A
SPE Cartridge Conditioner #2 ID	10194201132633A
Analyst ID - Reagent Drop	ZE 101942
Analyst ID - Reagent Drop Witness	NT 107776
Analyst ID - IS Reagent Drop	ZE 101942
Centrifuge Tube ID	20250319-058
QC Bottle Lot ID	0420501K
Carbon ID	H02939
Pipette ID	p1000-7
Vial Lot Number	8000060296
Caps	00370688
Tube Check	NT 107776
P1000 Tip ID	5G0623F
Analyst ID - Label Check	ZE 101942

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 Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 763508 Batch Start Date: 02/02/26 14:36 Batch Analyst: Eckman, Zoe

Batch Method: 1633A Batch End Date:

Drip Rate Assessment (Y/N)	Yes
Batch Comment	vialed extracts stored in tray 90 @5:45pm 2/2/26

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 Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 764041 Batch Start Date: 02/03/26 13:57 Batch Analyst: Brown, Robert G

Batch Method: 1633A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ExtractpH	AdjustedpH	5%FormicAmt	50%FormicAmt
MB 410-764041/1		1633A, 1633A			2.00 g	5 mL	10 SU	6.0 SU	1 drops	3 drops
LCS 410-764041/2		1633A, 1633A			2.00 g	5 mL	10 SU	6.0 SU	0 drops	3 drops
LLCS 410-764041/3		1633A, 1633A			2.00 g	5 mL	10 SU	6.5 SU	0 drops	3 drops
460-344047-A-1	RXSB-19 (0-2)_P	1633A, 1633A	Solid	T	2.31 g	5 mL	10 SU	6.0 SU	5 drops	2 drops
460-344047-A-2	RXSB-19 (6-8)_P	1633A, 1633A	Solid	T	2.36 g	5 mL	10 SU	6.0 SU	6 drops	2 drops
460-344047-A-3	RXSB-16 (0-2)_P	1633A, 1633A	Solid	T	2.19 g	5 mL	10 SU	5.5 SU	2 drops	3 drops
460-344047-A-4	RXSB-16 (6-8)_P	1633A, 1633A	Solid	T	2.22 g	5 mL	10 SU	6.0 SU	6 drops	2 drops
460-344047-A-5	RXSB-17 (6-8)_P	1633A, 1633A	Solid	T	2.31 g	5 mL	10 SU	6.0 SU	2 drops	3 drops
460-344047-A-6	DUP_012926	1633A, 1633A	Solid	T	2.21 g	5 mL	10 SU	6.0 SU	6 drops	2 drops
460-344049-A-5 MS		1633A, 1633A		T	2.47 g	5 mL	10 SU	6.5 SU	2 drops	2 drops
460-344049-A-5 MSD		1633A, 1633A		T	2.51 g	5 mL	10 SU	6.0 SU	2 drops	2 drops

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	3%NH4OHAmt	30%NH4OHAmt	1633_125_MS_L_00125	1633_125_MS_M_00154	1633_125_SS_00212	AnalysisComment
MB 410-764041/1		1633A, 1633A			0 drops	1 drops			25 uL	pc 5 port 8
LCS 410-764041/2		1633A, 1633A			0 drops	0 drops		50 uL	25 uL	
LLCS 410-764041/3		1633A, 1633A			0 drops	1 drops	40 uL		25 uL	
460-344047-A-1	RXSB-19 (0-2)_P	1633A, 1633A	Solid	T	0 drops	0 drops			25 uL	
460-344047-A-2	RXSB-19 (6-8)_P	1633A, 1633A	Solid	T	0 drops	0 drops			25 uL	
460-344047-A-3	RXSB-16 (0-2)_P	1633A, 1633A	Solid	T	0 drops	1 drops			25 uL	
460-344047-A-4	RXSB-16 (6-8)_P	1633A, 1633A	Solid	T	0 drops	0 drops			25 uL	
460-344047-A-5	RXSB-17 (6-8)_P	1633A, 1633A	Solid	T	0 drops	1 drops			25 uL	
460-344047-A-6	DUP_012926	1633A, 1633A	Solid	T	0 drops	0 drops			25 uL	
460-344049-A-5 MS		1633A, 1633A		T	0 drops	0 drops		50 uL	25 uL	
460-344049-A-5 MSD		1633A, 1633A		T	0 drops	0 drops		50 uL	25 uL	

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

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 764041 Batch Start Date: 02/03/26 13:57 Batch Analyst: Brown, Robert G

Batch Method: 1633A Batch End Date:

Batch Notes	
Balance ID	C046502696
Pipette/Syringe/Dispenser ID	P10-13; PFAS 16, 20
Pipette Tip Lot ID	O219553H
Transfer Pipette Lot #	25420385
Tube Lot ID	NA (50ml)
Analyst ID - Reagent Drop	RGB 00375
Analyst ID - Reagent Drop Witness	AC 119363
Analyst ID - IS Reagent Drop	MCD 101615
Solvent Name	1% NH4OH:MeOH
Solvent Lot #	11190501292633C
Carbon ID	H03462
pH Indicator ID	20BDH40251
5% Formic Acid Reagent ID	37501222633A
50% Formic Acid Reagent ID	11388801302633A
30% NH4OH Reagent ID	2024121102
Manifold ID	PC 4, 5
SPE Cartridge Type	200MG WAX
SPE Cartridge Lot ID	S25-004451
SPE Cartridge Conditioner #1 ID	10381402022633A ; 11199501122633B
SPE Cartridge Conditioner #2 ID	10381401072633B ; 12056102022633A
H2O ID	MQ; ELLE; A-372
Rinse Solvent Name	30:70 MeOH:MQ
Rinse Solvent Lot	12056101302633A ; 11936302022633A
Centrifuge Tube ID	20250319-058
QC Bottle Lot ID	0420501K
Blank Matrix ID	Sand
Blank Matrix Lot	245883
Extraction Filter ID #	2601060523
Spatula ID #	GD250001

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 Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 764041 Batch Start Date: 02/03/26 13:57 Batch Analyst: Brown, Robert G

Batch Method: 1633A Batch End Date:

Vial Lot Number	8000060704
Caps	00365506
Sonicator ID#	E; A-370
Sonication Start Time	02/03/2026 17:00
Sonication Stop Time	02/03/2026 18:00
95:5 Methanol Milli-Q Water ID	10381401232633B
Tube Check	BG 120372
0.4%potassium hydroxide in methanol lot#	11910501302633A
Analyst ID - Label Check	RGB 00375
Drip Rate Assessment (Y/N)	Yes
Batch Comment	stored in FOAM TRAY

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 Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 764442 Batch Start Date: 02/04/26 09:39 Batch Analyst: Coble, Jack

Batch Method: 1633A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1633_125_CAL1 00080	1633_125_CAL2 00036	1633_125_CAL3 00036	1633_125_CAL4 00083	1633_125_CAL5 00038	1633_125_CAL6 00037
IC 410-764442/1		1633A			1 mL					
IC 410-764442/2		1633A				1 mL				
IC 410-764442/3		1633A					1 mL			
IC 410-764442/4		1633A						1 mL		
ICISAV 410-764442/5		1633A							1 mL	
IC 410-764442/6		1633A								1 mL
IC 410-764442/7		1633A								
IC 410-764442/8		1633A								
ICB 410-764442/9		1633A								
ICV 410-764442/10		1633A								
WDM 410-764442/11		1633A								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1633_125_CAL7 00039	1633_125_CAL8 00034	1633_125_ICV 00034	1633_125_IS_V 00511	1633_125_SS 00162	1633_125_WDM 00019
IC 410-764442/1		1633A								
IC 410-764442/2		1633A								
IC 410-764442/3		1633A								
IC 410-764442/4		1633A								
ICISAV 410-764442/5		1633A								
IC 410-764442/6		1633A								
IC 410-764442/7		1633A			1 mL					
IC 410-764442/8		1633A				1 mL				
ICB 410-764442/9		1633A						50 uL	5 uL	
ICV 410-764442/10		1633A					1 mL			
WDM 410-764442/11		1633A								1 mL

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

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 764442 Batch Start Date: 02/04/26 09:39 Batch Analyst: Coble, Jack

Batch Method: 1633A Batch End Date:

Batch Notes	
Mobile Phase ID	9271702042625A/25K1061059

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.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 765112 Batch Start Date: 02/05/26 10:14 Batch Analyst: Erickson, McKenzie

Batch Method: 1633A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ExtractpH	AdjustedpH	5%FormicAmt	50%FormicAmt
MB 410-765112/1		1633A, 1633A			2.05 g	5 mL	10.0 SU	5.5 SU		3 drops
LCS 410-765112/2		1633A, 1633A			2.05 g	5 mL	10.0 SU	5.5 SU		3 drops
LLCS 410-765112/3		1633A, 1633A			2.08 g	5 mL	10.0 SU	5.5 SU		3 drops
460-344047-A-1	RXSB-19 (0-2)_P	1633A, 1633A	Solid	T	2.30 g	5 mL	10.0 SU	5.5 SU	3 drops	2 drops
460-344047-A-2	RXSB-19 (6-8)_P	1633A, 1633A	Solid	T	1.17 g	5 mL	10.0 SU	6.5 SU	4 drops	2 drops
460-344047-A-3	RXSB-16 (0-2)_P	1633A, 1633A	Solid	T	2.16 g	5 mL	10.0 SU	6.5 SU	2 drops	2 drops
460-344047-A-4	RXSB-16 (6-8)_P	1633A, 1633A	Solid	T	2.27 g	5 mL	10.0 SU	6.5 SU	6 drops	2 drops
460-344047-A-5	RXSB-17 (6-8)_P	1633A, 1633A	Solid	T	1.18 g	5 mL	10.0 SU	5.5 SU	5 drops	2 drops
460-344047-A-6	DUP_012926	1633A, 1633A	Solid	T	1.09 g	5 mL	10.0 SU	6.5 SU	7 drops	2 drops

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1633_125_MS_L 00126	1633_125_MS_M 00154	1633_125_SS 00212	AnalysisComment		
MB 410-765112/1		1633A, 1633A					25 uL	PC 6 PORT 4		
LCS 410-765112/2		1633A, 1633A				50 uL	25 uL			
LLCS 410-765112/3		1633A, 1633A			40 uL		25 uL			
460-344047-A-1	RXSB-19 (0-2)_P	1633A, 1633A	Solid	T			25 uL			
460-344047-A-2	RXSB-19 (6-8)_P	1633A, 1633A	Solid	T			25 uL			
460-344047-A-3	RXSB-16 (0-2)_P	1633A, 1633A	Solid	T			25 uL			
460-344047-A-4	RXSB-16 (6-8)_P	1633A, 1633A	Solid	T			25 uL			
460-344047-A-5	RXSB-17 (6-8)_P	1633A, 1633A	Solid	T			25 uL			
460-344047-A-6	DUP_012926	1633A, 1633A	Solid	T			25 uL			

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

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 765112 Batch Start Date: 02/05/26 10:14 Batch Analyst: Erickson, McKenzie

Batch Method: 1633A Batch End Date:

Batch Notes	
Balance ID	C411754765
Pipette/Syringe/Dispenser ID	PFAS 16,20; P10-12; P10-13: P100-9: P1000-7
Pipette Tip Lot ID	O219553H: 25210093, 5G0826F
Transfer Pipette Lot #	25360458
Tube Lot ID	20250319-058
Analyst ID - Reagent Drop	ME119105
Analyst ID - Reagent Drop Witness	CTS81064
Analyst ID - IS Reagent Drop	RM113888
Solvent Name	1% NH4OH:MeOH
Solvent Lot #	8106402022633B
Carbon ID	H02937
pH Indicator ID	20BDH40251
5% Formic Acid Reagent ID	37501222633A
50% Formic Acid Reagent ID	11388801302633A
Manifold ID	PC 4, 5, 6
SPE Cartridge Type	200MG WAX
SPE Cartridge Lot ID	S25-004454
SPE Cartridge Conditioner #1 ID	10381402022633A ; 11199501302633C ; 11199501292633B
SPE Cartridge Conditioner #2 ID	10381401282633A ; 12056102022633A
H2O ID	HOUSE A370
Rinse Solvent Name	30:70 MeOH:MQ
Rinse Solvent Lot	11936302022633A ; 12056101302633A
Centrifuge Tube ID	20250319-058
QC Bottle Lot ID	0420501K
Blank Matrix ID	SAND
Blank Matrix Lot	25G155201
Extraction Filter ID #	2601060523
Spatula ID #	GD250003
Vial Lot Number	8000060704

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 Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 765112 Batch Start Date: 02/05/26 10:14 Batch Analyst: Erickson, McKenzie

Batch Method: 1633A Batch End Date:

Caps	00370967
Sonicator ID#	E
Sonication Start Time	02/05/2026 11:54
Sonication Stop Time	02/05/2026 12:54
95:5 Methanol Milli-Q Water ID	10381401232633B
Tube Check	RM113888
0.4%potassium hydroxide in methanol lot#	11910502032633A
Analyst ID - Label Check	ME119105
Drip Rate Assessment (Y/N)	Yes
Batch Comment	Vialed 2/5/26 at 5:15 pm in Styrofoam

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 460-344047-1

SDG No.:

Project: Sea Park North - 2828 W 28th Street

Client Sample ID	Lab Sample ID
RXSB-19 (0-2)_P	460-344047-1
RXSB-19 (6-8)_P	460-344047-2
RXSB-16 (0-2)_P	460-344047-3
RXSB-16 (6-8)_P	460-344047-4
RXSB-17 (6-8)_P	460-344047-5
DUP_012926	460-344047-6

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 460-344047-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture MDL Date: 10/16/2018 12:54

Analyte	Wavelength/ Mass	RL (%)	MDL (%)
Percent Moisture		1	0.1
Percent Solids		1	0.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 460-344047-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XMDL Date: 10/16/2018 09:12

Analyte	Wavelength/ Mass	XRL (%)	XMDL (%)
Percent Moisture		1	0.1
Percent Solids		1	0.1

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-344047-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/02/2026 08:45 End Date: 02/02/2026 08:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
460-344047-3	1	T	08:45	X	X																		
460-344047-4	1	T	08:45	X	X																		
460-344047-5	1	T	08:45	X	X																		
460-344047-6	1	T	08:45	X	X																		
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
460-344047-1	1	T	08:45	X	X																		
460-344047-2	1	T	08:45	X	X																		
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:45																				

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 460-344047-1

Batch: 763300 **Analyst Initials: E5GC**

Method: Moisture **Instrument: NONE**

Lab Sample ID: 460-344047-A-3

Analysis Date: Feb 02, 2026 08:45

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	6.5934065934066	%
Percent Solids	None	1	93.4065934065934	%

Lab Sample ID: 460-344047-A-4

Analysis Date: Feb 02, 2026 08:45

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	8.56219709208401	%
Percent Solids	None	1	91.437802907916	%

Lab Sample ID: 460-344047-A-5

Analysis Date: Feb 02, 2026 08:45

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	11.3354037267081	%
Percent Solids	None	1	88.6645962732919	%

Lab Sample ID: 460-344047-A-6

Analysis Date: Feb 02, 2026 08:45

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	6.9486404833837	%
Percent Solids	None	1	93.0513595166163	%

Lab Sample ID: 460-344047-B-1

Analysis Date: Feb 02, 2026 08:45

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	11.3074204946997	%
Percent Solids	None	1	88.6925795053003	%

Lab Sample ID: 460-344047-B-2

Analysis Date: Feb 02, 2026 08:45

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	13.7829912023461	%
Percent Solids	None	1	86.2170087976539	%

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 763300 Batch Start Date: 02/02/26 08:45 Batch Analyst: McKenzie, Priest

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid
460-344047-A-3	RXSB-16 (0-2)_P	Moisture	Solid	T	300-10	0.77 g	6.23 g	5.87 g	6.5934065934066 %	93.406593406593 4 %
460-344047-A-4	RXSB-16 (6-8)_P	Moisture	Solid	T	300-11	0.76 g	6.95 g	6.42 g	8.5621970920841 %	91.437802907916 %
460-344047-A-5	RXSB-17 (6-8)_P	Moisture	Solid	T	300-12	0.74 g	7.18 g	6.45 g	11.335403726708 %	88.664596273291 %
460-344047-A-6	DUP_012926	Moisture	Solid	T	300-13	0.76 g	7.38 g	6.92 g	6.9486404833837 %	93.051359516613 %
460-344047-B-1	RXSB-19 (0-2)_P	Moisture	Solid	T	300-17	0.76 g	6.42 g	5.78 g	11.307420494697 %	88.692579505303 %
460-344047-B-2	RXSB-19 (6-8)_P	Moisture	Solid	T	300-18	0.74 g	7.56 g	6.62 g	13.782991202346 1 %	86.217008797653 9 %

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	AnalysisComment					
460-344047-A-3	RXSB-16 (0-2)_P	Moisture	Solid	T	loose sandy soil stones					
460-344047-A-4	RXSB-16 (6-8)_P	Moisture	Solid	T	loose sandy soil stones					
460-344047-A-5	RXSB-17 (6-8)_P	Moisture	Solid	T	loose sandy soil stones					
460-344047-A-6	DUP_012926	Moisture	Solid	T	loose sandy soil stones					
460-344047-B-1	RXSB-19 (0-2)_P	Moisture	Solid	T	loose gritty soil stones					
460-344047-B-2	RXSB-19 (6-8)_P	Moisture	Solid	T	packed sandy soil					

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-344047-1

SDG No.:

Batch Number: 763300 Batch Start Date: 02/02/26 08:45 Batch Analyst: McKenzie, Priest

Batch Method: Moisture Batch End Date:

Batch Notes	
Balance ID	B4442
Balance is Level? (Y/N)	yes
Oven ID	10489
Thermometer ID	1097
Date samples were placed in the oven	02/02/2026
Time samples were place in the oven	09:07
Oven Temp In	105 Degrees C
Date samples were removed from oven	02/02/2026
Time Samples were removed from oven	17:10
Oven Temp Out	105 Degrees C
Batch Comment	cal 3-4-26

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.

Subcontract Data

Shipping and Receiving Documents

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Phone (732) 549-3679

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Maggie Saville	Lab PM: Flannery Elizabeth J	Carrier Tracking No(s):	COC No: 460-205647-134418.1
Client Contact: Ms. Lauren Dolginko	Phone: 516-660-2664	E-Mail: Elizabeth.Flannery@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Roux Environmental Eng & Geology DPC	PWSID:	Analysis Requested		Job #: 3440447
Address: 209 Shafter St	Due Date Requested:			Preservation Codes: N None
City: Islandia	TAT Requested (days):			
State, Zip: NY 11749	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 3868.0006Y000			
Email: ldolginko@rouxinc.com	WO #: 2828 W 28th Street			
Project Name: 2828 W 28th Street (Sea Park North)	Project #: 46044510			
Site:	SSOW#:			

460-344047 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633A 1633 Standard List of 40	Total Num	Special Instructions/Note:
			Preservation Code:				N		
RXSB-19(0-2)_P	1/29/26	0945		Solid			X	2	1
RXSB-19(6-8)_P	1/29/26	1020		Solid			X	2	2
RXSB-16(0-2)_P	1/29/26	1200		Solid			X	1	Low Volume 3
RXSB-16(6-8)_P	1/29/26	220		Solid			X	1	Low Volume 4
RXSB-17(6-8)	1/29/26	1340		Solid			X	1	Low Volume 5
~~RX~~ DUP-012926 MS	1/29/26	1100		Solid			X	1	Low Volume 6
~~FIELD BLANK FB-012926_P~~	1/29/26	1500		Solid			X	2	7
FB_012926_P				Solid					
				Solid					
				Solid					
				Solid					

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Margaret Saville	1/29/26	EUSR		1/29/26	EUSR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/29/26 1745	Company EET
Relinquished by:	Date/Time: 1/29/26 1945	Company EET	Received by: Emely Rafferty	Date/Time: 1/29/26 1945	Company EET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No. NO CS	Cooler Temperature(s) °C and Other Remarks: IR#9 1.7 - 1.2

Eurofins Edison
Receipt Temperature and pH Log

Job Number: 344047

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.7 °C	1.2 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	1,4-Dioxane (pH<4)	Other

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.

EDS-WI-038, Rev 5
9/5/2025

Initials. MM Date 1/29/26

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Flannery, Elizabeth J	Carrier Tracking No(s): N/A	COC No: 460-76759.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Elizabeth.Flannery@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 460-344047-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 2/5/2026			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Sea Park North - 2828 W 28th Street	Project #: 46044510			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633A/1633A_Shake1633 Standard List of 40	MoisturePercent Moisture	1633A/1633A_SPE1633 Standard List of 40	PRE_SCREEN_PFAS/PFAS_PreScn_W_PPrescreening Procedure	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
RXSB-19 (0-2)_P (460-344047-1)	1/29/26	09:45 Eastern	G	Solid			X	X			2	
RXSB-19 (6-8)_P (460-344047-2)	1/29/26	10:20 Eastern	G	Solid			X	X			2	
RXSB-16 (0-2)_P (460-344047-3)	1/29/26	12:00 Eastern	G	Solid			X	X			1	
RXSB-16 (6-8)_P (460-344047-4)	1/29/26	12:20 Eastern	G	Solid			X	X			1	
RXSB-17 (6-8)_P (460-344047-5)	1/29/26	13:40 Eastern	G	Solid			X	X			1	
DUP_012926 (460-344047-6)	1/29/26	11:00 Eastern	G	Solid			X	X			1	
FB_012926_P (460-344047-7)	1/29/26	15:00 Eastern	G	Water					X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time: 1/30/26	Company ET	Received by:	Date/Time: 1/30/26 2130	Company ET
Relinquished by:	Date/Time: 1/31/26 0115	Company ET	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1-31-26 0115	Company ET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R10 C0.7

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-344047-1

Login Number: 344047
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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 <6mm (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: 460-344047-1

Login Number: 344047
List Number: 2
Creator: Cyms, Carolyn M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 01/31/26 06:41 AM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	